Lucent Technologies
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DACS II
Release 9.0 MML
1.544 Mb/s Interface

Quick Reference Guide

365-353-273
Issue 1.0
October 1999

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Document Title: DACS II Rel.9.0, MML 1.544 Mb/s Int. Quick Ref. Guide_

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About this Document

Background

Purpose

The purpose of this manual is to provide an intermediate or expert DACS II user/administrator with quick access to DACS II commands.

The *DACS II Quick Reference Guide* provides a listing and syntax for input commands used by the craft personnel involved in the daily operation and maintenance of the Digital Access and Cross-connect System II.

Intended Audiences

This document is for reference by a technician or craftsperson who already understands the commands and needs a reminder of syntax.

How to Use this Document

Accessing the Information

There are two ways to access the information in this document:

- This index in the back of the manual
- The overall table of contents in the front of the manual.

Prerequisites

Before you use this document, you should have completed the DACS II Operation and Maintenance course (TR3521 or TR3621).

If you were not able to take either training course, you should carefully study the information in the *DACS II Operation and Maintenance Manual*. You should also become familiar with the reasons that a command could be denied; this information is presented in Chapter **1** of the *DACS II Operation and Maintenance Manual* and under the appropriate command in the *DACS II Command and Message Manual*.

Manual Contents

Overview This manual contains DACS II commands only. For additional reference or procedural information, refer to the DACS II Operation and Maintenance Manual.

Contents The contents of the *DACS II Quick Reference Guide* are listed below:

- **Chapter 1 - Link/Login/Logoff Commands**

  This chapter contains commands for adding user logins, logging in and logging off the DACS II, changing link provisioning options, and connecting data communications equipment to the DACS II.

- **Chapter 2 - Provisioning Commands**

  This chapter contains the commands to provision Network Processing Modules (NPMs), Network Processing Circuits (NPCs), Timing References, and Administrative Links.

- **Chapter 3 - Performance Monitoring Commands**

  This chapter contains commands for setting threshold values for certain parameters that are used to monitor the performance of the transmission lines that are connected to the DACS II.

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Manual Contents (Continued)

Contents, Continued

- **Chapter 4 - Cross-connect Commands**

  This chapter contains the commands to establish various types of 64 kbit/s, Clear-DS1, and Channelized DS1 cross-connections, and to disconnect these cross-connections.

- **Chapter 5 - Macro and Map Commands**

  This chapter contains the commands to create, activate, change, and delete macro files and cross-connection maps.

- **Chapter 6 - Roll Commands**

  This chapter contains the commands to perform and disconnect the various facility and DS0 circuit rolls.

- **Chapter 7 - Change Commands**

  This chapter contains the commands to perform changes to various cross-connections, circuit and alarm parameters, NPC types and other options.

- **Chapter 8 - Remove Commands**

  This chapter contains the commands to remove links, NPCs, units, and TSIs.

- **Chapter 9 - Restore Commands**

  This chapter contains the commands to restore links, NPCs, units, and TSIs.

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Manual Contents (Continued)

Contents, Continued

- **Chapter 10 - Test Access Commands**

  This chapter contains the commands to establish test ports and 64 kbit/s test connections.

- **Chapter 11 - Subrate Commands**

  This chapter contains the commands for creating subrate cross-connections and disconnections, establishing subrate channel, and creating and deleting subrate test access connections.

- **Chapter 12 - Troubleshooting**

  This chapter contains commands for isolating and clearing various DACS II troubles.

- **Chapter 13 - Miscellaneous Commands**

  This chapter contains miscellaneous DACS II commands.

- **Chapter 14 - Denial Codes**

  This chapter lists the denial codes and their meanings. This information is useful in determining problems with the DACS II.

Manual Conventions

Special Font Used

This manual uses special fonts for the user to differentiate computer input/output. The **`constant width bold font`** indicates message formats, keywords, letter representations of parameters, parameter values, and messages as they would appear on a DACS II terminal screen.

Related Documentation

Related DACS II Documents

The following documents support the DACS II system:

- DACS II Installation Manual:
  - — IPH903 (DACS II CEF)
  - — IPH903I (DACS II ESBF)

  Audience: Customers planning to install the equipment

  Content: Customer installation instructions.

- DACS II Release 7.0 Product Description Manuals:
  - — 365-353-085 (24 Channel)
  - — 365-353-086 (30 Channel)

  Audience: Network planners, engineers, and others that need to know how the DACS II works and fits into the network

  Content: Features, applications, and description and other reference information.

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Related Documentation (Continued)

Related DACS II Documents, Continued

- DACS II Release 9.0 Operation and Maintenance Manuals:
  - 365-353-261 (PDS)
  - 365-353-271 (MML)
  - 365-353-281 (PDS 2.048-Mb/s Interface)
  - 365-353-291 (MML 2.048-Mb/s Interface)

  Audience: End-user maintenance personnel

  Contents: Procedures to operate and maintain the DACS II.

- DACS II Release 9.0 Command and Message Manuals:
  - 365-353-262 (PDS)
  - 365-353-272 (MML)
  - 365-353-282 (PDS 2.048-Mb/s Interface)
  - 365-353-292 (MML 2.048-Mb/s Interface)

  Audience: End-user maintenance personnel

  Content: Description of each software input message and its response along with a description of each system output report.

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Related Documentation (Continued)

Related DACS II Documents, Continued

- DACS II Release 9.0 Quick Reference Guides:
  - — 365-353-263 (PDS)
  - — 365-353-273 (MML)
  - — 365-353-283 (PDS 2.048-Mb/s)
  - — 365-353-293 (MML 2.048-Mb/s)

  Audience: End-user maintenance personnel

  Content: Abbreviated list of system commands and parameters.

- DACS II Release 9.0 Software Release Description:
  - — Comcode C108460080 (**??**)

  Audience: End-user maintenance personnel

  Content: Upgrade procedures for the new software release, status of problems fixed in previous releases, and operating issues for the specified software release.

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Related Documentation (Continued)

Related DACS II Documents, Continued

- X.50/X.57 Subrate Application Release 1.0.3 for DACS II Release 1.0.4 for DACS II ISX MML 2.048 Mbit/s Interface User's Manual

  — 365-350-101 (MML)

  Audience: End-user maintenance personnel

  Content: Complete manual describing how to install and operate the X.50/X.57 Subrate application on the DACS II or DACS II ISX. Commands and messages describing how to perform subrate cross-connects and subrate test access are included.

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Related Documentation (Continued)

Related DACS II Documents, Continued

- DDS Subrate and MJU Application Release 1.0.4 for DACS II Release 1.0.5 for DACS II ISX User's Manual
  - — 365-350-110 (PDS)
  - — 365-350-111 (MML)

  Audience: End-user maintenance personnel

  Content: Complete manual describing how to install and operate the DDS Subrate and MJU application on the DACS II or DACS II ISX. Commands and messages describing how to perform DDS subrate cross-connects, subrate test access, and subrate MJU operations are included.

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Related Documentation (Continued)

Related DACS II Documents, Continued

- Digital Multipoint Bridge (DMB) DSP Platform Application Release 1.0.2 for DACS II Release 1.0.3 for DACS II ISX User's Manual
  - 365-353-144 (PDS)
  - 365-353-154 (MML)

  Audience: End-user maintenance personnel

  Content: Complete manual describing how to install and operate the DMB application on the DACS II or DACS II ISX. Commands and messages describing how to perform DMB cross-connects and DMB test access operations are included.

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Documentation for DACS II and DACS II ISX is now available in electronic form, on CD-ROM (compact disk, read-only memory). CD-ROM has many advantages over traditional paper documentation, including cost savings, search and retrieve capability, and the assurance of the most current documentation.

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Link/Login/Logoff Commands

1

Change User Password [I.38301]

CHG-LGN::::[<old password>:<new password>];

If the user is on a Snider protocol administrative link, the command is entered as follows:

CHG-LGN;

DACS II will then prompt the user for the old and new password:

OLD PASSWD: (user enters the old password)
NEW PASSWD: (user enters the new password)
PASSWD: (user re-enters the new password for verification)

Add User [I.36101]

If the command is entered on a Snider link:

CRTE-LGN::::<user id>[,NEW];

DACS II generates the message below and a dialog is started:

> **PASSWD:** (The frame administrator enters user password.)
> **REENTER PASSWD:** (The frame administrator again enters the user password.)

Note that the user password is not echoed by DACS II.

If the command is entered on an X.25 link:

CRTE-LGN::::<user id>,<user password>;

No dialog is initiated by DACS II.

Delete User [I.37101]

DLT-LGN::::<user id>;

Add TABS Link Parameters [I.36007]

ED-PRMTR-LINK::j::APPL-{ASCS|ASCD|PM}
[,L2AD-aa][,POLL-ttt];

Add Link, X.25, Protocol, Data Link, Layer Parameters

[I.36003]

```
ED-PRMTR-LINK::j::[K-b][,T1-eee][,T3-ggg]\
[,N2-aa][,FRMAD-{A|B}];
```

Add Link, Protocol, Baud

[I.36001]

```
ED-PRMTR-LINK::j::PTCOL-{S|X|T|M}\
[,BAUD-bb][,ALM-k][,BS-e][,ENQ-q]\
[,XON-x]:[INIT];
```

If the link protocol is Snider, enter the following command:

```
ED-PRMTR-LINK::j::PTCOL-S[,BAUD-bb]\
[,ALM-k][,BS-e][,ENQ-q][,XON-x]:[INIT];
```

If the link protocol is X.25, enter the following command:

```
ED-PRMTR-LINK::j::PTCOL-X[,ALM-k]:[INIT];
```

If the link protocol is TABS, enter the following command line:

```
ED-PRMTR-LINK::j::PTCOL-T[,BAUD-bb]\
[,ALM-k]:[INIT];
```

If the link protocol is Modified Snider, enter the following command:

```
ED-PRMTR-LINK::j::PTCOL-M[,ALM-k]:[INIT];
```

Add X.25 Link Parameters [I.36005]

```
ED-PRMTR-LINK::l[mm]::[W-c][,P-ddd]\
[,T20-iii][,T22-jjj][,T23-kkk][,T25-lll]\
[,T26-mmm][,R20-nn][,R22-p][,R23-qq]\
[,R25-r][,DBIT-v][,VC-ppss&-gghh];
```

Log On To DACS II [I.39001]

```
LGN-USER::::<user id>[,<user password>];
```

If the user is on a Snider administrative link, the command is entered as follows:

```
LGN-USER::::<user id>;
```

DACS II will then prompt for the following:

PASSWD: (user enters the user password)

Log Off User or Link [I.39101]

```
LGT-{TERM|USER}::::{l[mm][,INCL]|<user id>};
```

Change User/Link Screening [I.38401]

```
SET-PRVG-{TERM|USER}::::{l[mm][,INCL]| \
<user id>}:[SCR-n[,GR-a&-b&-c&-d&-e&-f]]:\
[{MCON|MCOFF}]:[INIT];
```

Add User/ Link Language, NPC Addressing and Priority [I.36103]

```
SET-PRVG-{USER|TERM|ALL}::::\
{<user id>|l[mm][,INCL]}:[LANG-{P|M|F}]:\
[NPCAD-{E|X|H}]:[LEV-a&-b&-c&-d&-e&-f]:\
[{RMON|RMOFF}]:[RLK-{A|I}]:[INIT];
```

Provisioning Commands

2

Provision a Unit

[I.31211]

For DACS II Non-CEF frames:

```
CRTE-CNFGRN-EQPT::UNIT-q::\
[a[,b[,c[,d[,e [,f]]]]]]:[utxyz];
```

For DACS II CEF frames:

```
CRTE-CNFGRN-EQPT::UNIT-[q]q:::[utxyz];
```

Provision Digital Signal Processing Unit NPC

[I.31331]

```
CRTE-EQPT::NPC-[s]abc[&&-[t]def]::mnxyz;
CRTE-EQPT::NPC-uv-m-np[&&&-wx-k-qr]::mnxyz;
```

Provision Digital Signal Processing Unit NPC

[I.31351]

```
CRTE-EQPT::NPC-[s]abc::mnxyz;
CRTE-EQPT::NPC-uv-m-np::mnxyz;
```

CAUTION:
The NPC should be restored immediately (both duplicated sides, 0 and 1) using Message No. I.34351 (**RST-EQPT::NPC**) *after being grown to avoid having both sides out of service. If this is not possible, the NPC should be degrown immediately using Message No. I.32341* (**DISC-EQPT::NPC**).

CAUTION:
The NPC and (Expanded) Time Slot Interchanger (TSI/ETSI) circuit packs must be inserted into the inactive side of DACS II. Inserting circuit packs into the active side may result in transmission "hits."

Provision NPC Type DS

[I.31371]

```
CRTE-EQPT::NPC-[s]abc[&&-[t]def]::DSxyz:\
[rr/m[&rr/m\[...]]]:[IW-X-pq];

CRTE-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::DSxyz:\
[rr/m[&rr/m\[...]]]:[IW-X-pq];
```

Provision ANSI NPC [I.31341]

```
CRTE-EQPT::NPC-[s]abc[&&-[t]def]::mnxyz:\
[rr/m][&rr/m][...]:[IW-X-pq[,INCL]]\
[,AIS-{INFO|MJ|MN}][,PL-{ENA|DSA}];

CRTE-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::mnxyz:\
[rr/m][&rr/m][...]:[IW-X-pq[,INCL]]\
[,AIS-{INFO|MJ|MN}][,PL-{ENA|DSA}];
```

Provision NPC [I.31352]

```
CRTE-EQPT::NPC-[s]abc[&&-[t]def]::[mnxyz]:\
[rr/m][&rr/m]\[&...]:[IW-X-pq[,INCL]]\
[,AIS-{INFO|MJ|MN}];

CRTE-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::\
[mnxyz]:[rr/m]\[&rr/m][&...]:[IW-X-pq[,INCL]]\
[,AIS-{INFO|MJ|MN}];
```

Provision Test-Access Group NPC [I.31401]

```
CRTE-EQPT::NPC-[s]abc::NPCTG-rrr;
CRTE-EQPT::NPC-uv-m-np::NPCTG-rrr;
```

Provision Test Port NPC [I.31381]

```
CRTE-EQPT::NPC-[s]abc::NPCTP-n;
CRTE-EQPT::NPC-uv-m-np::NPCTP-n;
```

Provision Synchronizer Time Base [I.31101]

```
CRTE-EQPT::SYNC::TBpqr;
```

Provision Clock Reference Oscillator [I.31111]

```
CRTE-EQPT::SYNC::TBpqr:TLI-3;
```

Provision Synchronizer Timing Link Interface [I.31121]

```
CRTE-EQPT::SYNC::TLI-m:\
{texyz,SSP-a,SRC-p|TDxyz};
```

Provision Test-Access Group [I.31421]

```
CRTE-EQPT::TG-mmm::rrr-eee[&&-fff],\
sss-www[&&-xxx]:[<tc>];
```

Provision Test Port [I.31411]

```
CRTE-EQPT::TP-kk::[<tc>];
```

Provision Facility Terminating Module Interface [I.31321]

```
CRTE-EQPT::UNIT-[q]q::FTMI-d:EQL-l,r;
```

Provision Multiplexer Interface Unit [I.31501]

```
CRTE-EQPT::UNIT-[q]q::MIU-c[&&-d]:[mnxyz];
```

Provision Multiplexer [I.31511]

```
CRTE-EQPT::UNIT-[q]q::MXR-c[&&-d]:[mnxyz]:\
[BERM-s][,BERT-t][,LBO-<b>];
```

Deprovision NPC [I.32341]

```
DISC-EQPT::NPC-[s]abc[&&-[t]def];
DISC-EQPT::NPC-uv-m-np[&&&-uv-k-qr];
```

Deprovision Test-Access Group NPC [I.32401]

```
DISC-EQPT::NPC-[s]abc::NPCTG-rrr:[TGR];
DISC-EQPT::NPC-uv-m-np::NPCTG-rrr:[TGR];
```

Deprovision Test Port NPC [I.32381]

```
DISC-EQPT::NPC-[s]abc::NPCTP-n:[TPR];
DISC-EQPT::NPC-uv-m-np::NPCTP-n:[TPR];
```

Deprovision Synchro-nizer Time Base [I.32101]

```
DISC-EQPT::SYNC::TB;
```

Deprovision Synchro-nizer Timing Link Interface [I.32121]

```
DISC-EQPT::SYNC::TLI-m:[SSP-a];
```

Deprovision Test-Access Group [I.32421]

```
DISC-EQPT::TG-mmm[&&-nnn];
```

Deprovision Test Port [I.32411]

DISC-EQPT::TP-kk;

Deprovision Unit [I.32211]

DISC-EQPT::UNIT-[q]q;

Deprovision Facility Terminating Module Interface [I.32321]

DISC-EQPT::UNIT-[q]q::FTMI-d;

Deprovision Multiplexer Interface Unit [I.32511]

DISC-EQPT::UNIT-[q]q::MIU-c[&&-d];

Deprovision Multiplexer [I.32501]

DISC-EQPT::UNIT-[q]q::MXR-c[&&-d];

Test Port Release [I.27002]

DISC-TACC-T0::::ALL:[OOS];

Delete Association of NPC with SLC® RT [I.37211]

```
DLT-PRMTR-EQPT::[DGA-[s]aaa][,DGB-[s]bbb]\
[,DGC-[s]ccc] [,DGD-[s]ddd] [,DGP-[s]ppp]::\
{RT|DL}-ffff;

DLT-PRMTR-EQPT::[DGA-uv-j-ab][,DGB-uv-k-cd]\
[,DGC-uv-l-ef][,DGD-uv-m-gh][,DGP-uv-j-pr]::\
{RT|DL}-ffff;
```

Add Network Processing Circuit [I.36021]

```
ED-ADD-MAP::NPC-{[s]abc&&-[t]def|[s]abc\
[&-[s]ghi]....[&-[t]def]};

ED-ADD-MAP::NPC-{uv-m-np&&&-wx-k-qr|uv-m-np\
[&-ab-c-de]....[&-wx-k-qr]};
```

Provision Frame [I.30101]

```
ED-PRMTR-NE::::<uid>[,FRAME-fg]:[CHAR-m];
```

Configure Synchro-nizer [I.35011]

```
ENT-EQPT::SYNC-a::FPLL;
```

Inhibit Switch MMFG [I.35311]I

```
INH-SW-EQPT::UNIT-[q]q::MMFG-c[&&-d]:\
{PROTN|WKG};
```

Configure Frame [I.35021]

```
INIT-SYS::FRAME;
```

Facility Loopback Activate [I.26141]

```
OPR-LPBK-T1::[s]abc::loop:locn;
OPR-LPBK-T1::uv-m-np::loop:locn;
```

Facility Test Signal Activate [I.28101]

```
OPR-TSIG-T1::[s]abc::test;
OPR-TSIG-T1::uv-m-np::test;
```

Facility Loopback Release [I.26151]

```
RLS-LPBK-T1::[s]abc::loop:locn;
RLS-LPBK-T1::uv-m-np::loop:locn;
```

Facility Test Signal Deactivate [I.28201]

```
RLS-TSIG-T1::[s]abc::test;
RLS-TSIG-T1::uv-m-np::test;
```

Remove Facility Line Interface [I.33401]

```
RMV-EQPT::UNIT-[q]q::FLI-k;
```

Remove Formatter [I.33411]

```
RMV-EQPT::UNIT-[q]q::FMT-s;
```

Remove Multiplexer Interface Unit [I.33431]

```
RMV-EQPT::UNIT-[q]q::MIU-c[&&-d]:[INCL];
```

Remove MMFG [I.33421]

```
RMV-EQPT::UNIT-[q]q::MMFG-c[&&-d]:[FRC[,INCL]];
```

Restore Facility Line Interface [I.34401]

```
Restore Facility Line Interface ;
```

Restore Formatter [I.34411]

```
RST-EQPT::UNIT-[q]q::FMT-s;
```

Restore Multiplexer Interface Unit [I.34431]

```
RST-EQPT::UNIT-[q]q::MIU-c[&&-d]:[INCL];
```

Restore MMFG [I.34421]

```
RST-EQPT::UNIT-[q]q::MMFG-c[&&-d]:[INCL];
```

Performance Monitoring Commands

3

Allow DS1 Performance Monitoring Report [I.51171]

```
ALW-PMREPT-T1::{NPC-[s]abc[&&-[t]def]|ALL};
ALW-PMREPT-T1::{NPC-uv-m-np[&&&-wx-k-qr]|ALL};
```

Inhibit DS1 Performance Monitoring Report [I.51161]

```
INH-PMREPT-T1::{NPC-[s]abc[&&-[t]def]|ALL};
INH-PMREPT-T1::{NPC-uv-m-np[&&&-wx-k-qr]|ALL};
```

Utility Clear Hardware/ Software Error Recovery Log File [I.56061]

```
INIT-LOG::::ERR:{HWER|SWER};
```

Utility Clear Counter or State of All In-Service NPCs [I.56011]

```
INIT-REG::::<parameter>:ALL;
```

Clear Facility Performance Parameters [I.56051]

```
INIT-REG::NPC-[s]abc;
INIT-REG::NPC-uv-m-np;
```

Utility Clear Counter or State of a Single In-Service NPC or Range of In-Service NPCs [I.56001]

```
INIT-REG::[NPC-[s]abc[&&-[t]def]]::\
<parameter>:[{RT|DL}-ffff];

INIT-REG::[NPC-uv-m-np[&&&-wx-k-qr]]::\
<parameter>:[{RT|DL}-ffff];
```

Utility Clear DA/TA/PA NPC Parameters [I.56071]

```
INIT-REG-T1::{NPC-[s]abc[&&-[t]def]|ALL}::\
<parameter>,[aaaaa] ,[locn],[dddd],[tttt];

INIT-REG-T1::{NPC-uv-m-np[&&&-wx-k-qr]|ALL}::\
<parameter>,[aaaaa] ,[locn],[dddd],[tttt];
```

Retrieve Performance Monitoring Report Schedule [I.51071]

```
RTRV-PMREPT-SCHED::::{CFA,MONDAT|CFA|,MONDAT};
```

Query Performance Monitoring Data for DA, TA, and PA Type NPCs

[I.56091]

```
RTRV-PM-T1::{NPC-[s]abc[&&-[t]def]|ALL}::\
<parameter>,aaaaa ,[lllllllll],[locn],\
[dddd],[tttt];

RTRV-PM-T1::{NPC-uv-m-np[&&&-wx-k-qr]|ALL}::\
<parameter>,aaaaa ,[lllllllll],[locn],\
[dddd],[tttt];
```

Schedule DS1 Performance Monitoring Report

[I.51141]

```
SCHED-PMREPT-T1::NPC-[s]abc[&&-[t]def]::\
rrrrr,ssss,nn,<parameter>,lllllllll,locn,\
aaaaa,ttttt[&&-ooooo]:\[p[vv][&q[vv]]];

SCHED-PMREPT-T1::NPC-uv-m-np[&&&-wx-k-qr]::\
rrrrr,ssss,nn,<parameter>,lllllllll,locn,\
aaaaa,ttttt[&&-ooooo]:[p[vv][&q[vv]]];
```

Utilities, Alarm Reporting

[I.51101]

```
SET-ATTR-EQPT::::ALM-a;
```

Cross-Connect Commands

4

Broadcast Cross-Connections [I.13001]

```
CONN-BDCST-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&[t]klm-nnn&..]::<tc>:[RDLD][,{CUS|INCL}]:\
[{NTR|LPD|CONV}]:[NORM];

CONN-BDCST-T0::uv-m-np-ddd[&&-eee],wx-k-qr-jjj\
[&ed-h-fg-nnn&..]::<tc>:[RDLD][,{CUS|INCL}]:\
[{NTR|LPD|CONV}]:[NORM];
```

Broadcast Cross-Connection [I.13002]

```
CONN-BDCST-T0::[s]abc-ddd[&&-eee],\
[t]ghi-jjj[&&-kkk]::<tc>:[RDLD][,{CUS|INCL}]:\
[{NTR|LPD|CONV}]:[NORM];

CONN-BDCST-T0::uv-m-np-ddd[&&-eee],\
wx-k-qr-jjj[&&-kkk]::<tc>:[RDLD][,{CUS|INCL}]:\
[{NTR|LPD|CONV}]:[NORM];
```

Broadcast Cross-Connection [I.13011]

```
CONN-BDCST-T1::[s]abc,[u]ghi[&[v]jkl][&[t]mno]\
[...]::[RDLD][,{CUS|INCL}]:[{NTR|LPD|CONV}];

CONN-BDCST-T1::uv-m-np,wx-k-qr[&ed-f-hg]\
[&st-m-no]\[...]::[RDLD][,{CUS|INCL}]:\
[{NTR|LPD|CONV}];
```

Broadcast Cross-Connection [I.13021]

```
CONN-BDCST-T1::[s]abc,[t]def::[RDLD]\
[,{CUS|INCL}]:[{NTR|LPD|CONV}];

CONN-BDCST-T1::uv-m-np,wx-k-qr::\
[RDLD][,{CUS|INCL}]:\[{NTR|LPD|CONV}];
```

One Way Cross-Connections [I.11101]

```
CONN-CRS1-T0::[s]abc-ddd[&&-eee],\
[t]ghi-jjj[&&-kkk]::<tc>:[RDLD][{,CUS|,INCL}]:\
[{NORM|TERM}]:[PRIOUT];

CONN-CRS1-T0::uv-m-np-ddd[&&-eee],wx-k-qr-jjj\
[&&-kkk]::<tc>:[RDLD][{,CUS|,INCL}]:\
[{NORM|TERM}]:[PRIOUT];
```

One Way Cross-Connections [I.11121]

```
CONN-CRS1-T0::[s]abc-ddd[&&-eee],\
[t]ghi-jjj[&&-kkk]::<tc>:[RDLD][,{CUS|INCL}]:\
fmd,tmd:[{NORM|TERM}];

CONN-CRS1-T0::uv-m-np-ddd[&&-eee],
wx-k-qr-jjj[&&-kkk]::<tc>:[RDLD][,{CUS|INCL}]:\
fmd,tmd:[{NORM|TERM}];
```

One-Way Non-Channelized Digital Signal Cross Connect [I.11131]

```
CONN-CRS1-T1::[s]abc,[t]ghi::[RDLD]\
[,{CUS|INCL}]:[{NORM|TERM}]:[PRIOUT];

CONN-CRS1-T1::uv-m-np,wx-k-qr::[RDLD]\
[,{CUS|INCL}]:[{NORM|TERM}]:[PRIOUT];
```

Two-Way Cross-Connections [I.11051]

```
CONN-CRS-T0::[s]abc-ddd,[t]ghi-jjj::\
[{PFW-abcdefg&ijklmno|NFW}]:\
[{NORM,NORM|TERM,TERM}];

CONN-CRS-T0::uv-m-np-ddd,wx-k-qr-jjj:\
[{PFW-abcdefg&ijklmno|NFW}]:\
[{NORM,NORM|TERM,TERM}];
```

Two-Way Cross-Connection [I.11001]

```
CONN-CRS-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&&-kkk]::<tc>:[RDLD][,{CUS|INCL}]:[AIS]:\
[{NORM,NORM|TERM,TERM}]:\[PRIOUT];

CONN-CRS-T0::uv-m-np-ddd[&&-eee],
wx-k-qr-jjj[&&-kkk]::<tc>:[RDLD][,{CUS|INCL}]:\
[AIS]:[{NORM,NORM|TERM,TERM}]:\[PRIOUT];
```

Two-Way Cross-Connect From, To Multipoint Mode [I.11021]

```
CONN-CRS-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj
[&&-kkk]::<tc>:[RDLD][{,CUS|,INCL}]:fmd,tmd:\
[NTR-m]:[{NORM,NORM|TERM,TERM}];

CONN-CRS-T0::uv-m-np-ddd[&&-eee],\
wx-k-qr-jjj[&&-kkk]::<tc>:\
[RDLD][{,CUS|,INCL}]:fmd,tmd:[NTR-m]:\
[{NORM,NORM|TERM,TERM}];
```

Two-Way Non-Channelized Digital Signal Cross Connection [I.11011]

```
CONN-CRS-T1::abc,ghi::[RDLD][,{CUS|INCL}]:\
[{NORM,NORM|TERM,TERM}]:[PRIOUT];

CONN-CRS-T1::uv-m-np,wx-k-qr::[RDLD]\
[,{CUS|INCL}]:[{NORM,NORM|TERM,TERM}]:[PRIOUT];
```

Broadcast Disconnection [I.15201]

```
DISC-BDCST-T0::[s]abc-ddd[&&-eee],
[t]ghi-jjj[&&-kkk]::[INCL]:[OOS][,DCC][,CONV];

DISC-BDCST-T0::uv-m-np-ddd[&&-eee],
wx-k-qr-jjj[&&-kkk]::[INCL]:[OOS][,DCC][,CONV];
```

Broadcast Disconnection [I.15211]

```
DISC-BDCST-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&[u]klm-nnn&..]::[INCL]:[OOS][,DCC][,CONV];

DISC-BDCST-T0::uv-m-np-ddd[&&-eee],wx-k-qr-jjj\
[&ed-h-fg-nnn&..]::[INCL]:[OOS][,DCC][,CONV];
```

Broadcast Disconnection [I.15221]

```
DISC-BDCST-T1::\
[s]abc,[t]ghi[&[u]jkl][&[v]mno][...]::\
[INCL]:[OOS][,CONV];

DISC-BDCST-T1::uv-m-np,wx-k-qr[&ed-h-fg]\
[&op-q-rs][...]::\[INCL]:[OOS][,CONV];
```

Broadcast Disconnection [I.15231]

```
DISC-BDCST-T1::[s]abc,[t]ghi::[INCL]:\
[OOS][,CONV];

DISC-BDCST-T1::uv-m-np,wx-k-qr::[INCL]:\
[OOS][,CONV];
```

One-Way Multipoint Disconnections [I.15102]

```
DISC-CRS1-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&&-kkk]::[INCL]:[OOS][,DCC];

DISC-CRS1-T0::uv-m-np-ddd[&&-eee],\
wx-k-qr-jjj[&&-kkk]::[INCL]:[OOS][,DCC];
```

One-Way Disconnect [I.15101]

```
DISC-CRS1-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&&-kkk]::[INCL]:[OOS][,DCC]:[PRIOUT];

DISC-CRS1-T0::uv-m-np-ddd[&&-eee],\
wx-k-qr-jjj[&&-kkk]::[INCL]:[OOS][,DCC]:\
[PRIOUT];
```

One-Way Disconnect

[I.15111]

```
DISC-CRS1-T1::[s]abc,[t]ghi::[INCL]:[OOS]:\
[PRIOUT];

DISC-CRS1-T1::uv-m-np,wx-k-qr::[INCL]:[OOS]:\
[PRIOUT];
```

Two-Way Disconnections

[I.15002]

```
DISC-CRS-T0::[s]abc-ddd,[t]ghi-jjj::[INCL]:\
[DCC][,OOS];

DISC-CRS-T0::uv-m-np-ddd,\
wx-k-qr-jjj::[INCL]:[DCC][,OOS];
```

Disconnections, Cross-Connect Circuits

[I.15001]

```
DISC-CRS-T0::[s]abc-ddd[&&-eee],[s]ghi-jjj\
[&&-kkk]::[INCL]:[OOS][,DCC]:[PRIOUT];

DISC-CRS-T0::uv-m-np-ddd[&&-eee],\
wx-k-qr-jjj[&&-kkk]::[INCL]:[OOS][,DCC]:\
[PRIOUT];
```

Two-Way Disconnection

[I.15011]

```
DISC-CRS-T1::[s]abc,[t]ghi::[INCL]:[OOS]:\
[PRIOUT];

DISC-CRS-T1::uv-m-np,wx-k-qr::[INCL]:[OOS]:\
[PRIOUT];
```

Alternate Cross-Connections

[I.14001]

```
ED-CRS-T0::[s]abc-ddd,[t]ghi-jjj::[INCL];
ED-CRS-T0::uv-m-np-ddd,wx-k-qr-jjj::[INCL];
```

Macro and Map Commands

5

Stop Macro [I.39311]

```
ABT-PROC::::[l[mm]];
```

Delete Lines From Macro [I.19051]

```
DELETE[::{<starting line>|END}\
[-{<ending line>|END}]::];
```

Delete Macro [I.37201]

```
DLT-{MACRO|MAP}::::{<macro name>|<map name>}:\
[<user id>];
```

Edit Delete Map [I.37001]

```
ED-DLT-MAP::NPC-{[s]abc&&-[s]def|[s]\
abc[&-[s]ghi]....[&-[t]def]};

ED-DLT-MAP::NPC-{uv-m-np&&&-wx-k-qr|uv-m-np\
[&-ab-c-de]....[&-wx-k-qr]};
```

Create or Edit a Macro or Map [I.19001]

```
ED-{MACRO|MAP}::::{<macro name>|<map name>};
```

Change MacroSpace [I.38501]

```
ED-PRMTR-{MACRO|MAP}::::sss;
```

Create Picture Alternate Map [I.19031]

```
ED-PRMTR-MAP::::<new map name>,\
<reference map name>;
```

Execute Macro [I.39301]

```
EXC-MACRO::::<macro name>:\
[<p1>[&<p2>[&<p3>[&...[&<p10>]]]]];
```

Activate Alternate Maps [I.39201]

```
EXC-MAP::::<map name>:[CLR][,INCL];
```

Query Line Number [I.19071]

```
LINE;
```

List Macro Contents [I.19061]

```
LIST[::{<starting line>|END}\
[-{<ending line>|END}]::];
```

Move Macro Lines [I.19091]

```
MOVE::{<starting line>|END}\
[-{<ending line>|END}],\
{<destination line>|END}::;
```

Save Component Commands [I.19081]

```
SAVE;
```

Roll Commands

6

DS0 Circuit Roll - Bridge Command [I.14021]

```
SW-BDCST-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&&-kkk]::\[INCL];

SW-BDCST-T0::uv-m-np-ddd[&&&-eee],\
wx-k-qr-jjj[&&&-kkk]::\[INCL];
```

Facility Roll - Bridge Command [I.14061]

```
SW-BDCST-T1::[s]abc,[t]ghi::[INCL];
SW-BDCST-T1::uv-m-np,wx-k-qr::[INCL];
```

DS0 Circuit Roll - Disconnect Command [I.14041]

```
SW-DISC-T0::[s]abc-ddd[&&-eee]::[OOS];
SW-DISC-T0::uv-m-np-ddd[&&&-eee]::[OOS];
```

Facility Roll - Disconnect Command [I.14081]

```
SW-DISC-T1::[s]abc::[OOS];
SW-DISC-T1::uv-m-np::[OOS];
```

Configure Digroup Circuits [I.35001]

```
SW-DX-EQPT::XC-s::[INCL];
```

DS0 Circuit Roll- Roll Command [I.14031]

```
SW-ROLL-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&&-kkk]::[INCL]:[FRC]:[OOS];

SW-ROLL-T0::uv-m-np-ddd[&&&-eee],\
wx-k-qr-jjj[&&&-kkk]::[INCL]:[FRC]:[OOS];
```

Facility Roll - Roll Command [I.14071]

```
SW-ROLL-T1::[s]abc,[t]ghi::[INCL]:[FRC]:[OOS]:\
[TWAY];

SW-ROLL-T1::uv-m-np,wx-k-qr::[INCL]:[FRC]:\
[OOS]:[TWAY];
```

Change Commands

7

Change Circuit Parameters [I.18001]

```
CHG-RPATH-T0::\
[s]abc-ddd[&[t]ghi-jjj&[u]klm-nnn&..]::\[INCL];

CHG-RPATH-T0::\
uv-m-np-ddd[&wx-k-qr-jjj&ed-h-fg-nnn&..]::\
[INCL];
```

Change Switch, TOX [I.18011]

```
CHG-RPATH-T1::[s]ghi[&[t]jkl][&[v]mno][...]::\
[INCL];

CHG-RPATH-T1::uv-m-np[&wx-k-qr]\
[&ed-h-fg][...]::[INCL];
```

Change Connec-tivity [I.38101]

```
ED-CNFGRN-EQPT::UNIT-q::a[,b[,c[,d[,e[,f]]]]];
```

Change Subrate Cross-Connection [I.19581]

```
ED-CONN-TS::[s]abc-ddd[-ff],[t]ghi-jjj[-ll];
ED-CONN-TS::uv-m-np-ddd[-ff],wx-k-qr-jjj[-ll];
```

Change Subrate Cross-Connection [I.19591]

```
ED-CONN-TS::[s]abc-ddd[-ff],\
[t]ghi-jjj[-ll]::MPTM;

ED-CONN-TS::uv-m-np-ddd[-ff],\
wx-k-qr-jjj[-ll]::MPTM;
```

Change Subrate Established Channel [I.19501]

```
ED-CRTE-TS::[s]abc-ddd[-eee],\
[t]ghi-jjj[-kkk]::\[PCH-ppp]:[DCC];

ED-CRTE-TS::uv-m-np-ddd[-eee],\
wx-k-qr-jjj[-kkk]::\[PCH-ppp]:[DCC];
```

Change/Set Options [I.38201]

```
ED-OPT-T1::NPC::{TYPE-mn|ALL}:rr:a,b,c;
```

Change NPC Options [I.38221]

```
ED-PRMTR-EQPT::NPC-[s]abc::rr/m[&rr/m][...];
ED-PRMTR-EQPT::NPC-uv-m-np::rr/m[&rr/m][...];
```

Change NPC AIS Alarm Option [I.38281]

```
ED-PRMTR-EQPT::NPC-[s]abc[&&-[t]ghi]::\
{ALMOPT|PLOPT}:{AIS-{INFO|MJ|MN}|PL-{ENA|DSA}};

ED-PRMTR-EQPT::NPC-uv-m-np[&&&-wx-k-qr]::\
{ALMOPT|PLOPT}:{AIS-{INFO|MJ|MN}|PL-{ENA|DSA}};
```

Change NPC Type [I.38211]

```
ED-PRMTR-EQPT::NPC-[s]abc::mnxyz:\
[IW-X-pq[,INCL]];

ED-PRMTR-EQPT::NPC-uv-m-np::mnxyz:\
[IW-X-pq[,INCL]];
```

Change NPC Type for TH Type NPCs [I.38311]

```
ED-PRMTR-EQPT::NPC-[s]abc::mnxyz:[IW-X-pq[r]];
ED-PRMTR-EQPT::NPC-uv-m-np::mnxyz:[IW-X-pq[r]];
```

Change DS3U NPC Type [I.38271]

```
ED-PRMTR-EQPT::NPC-[s]abc[&&-[t]def]::mnxyz:\
[IW-X-pq[,INCL]];

ED-PRMTR-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::\
mnxyz:\[IW-X-pq[,INCL]];
```

Change NPC Frame-Word Setting [I.38324]

```
ED-PRMTR-EQPT::NPC-[s]abc[&&-[t]def]::\
NFS-abcdefghi;

ED-PRMTR-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::\
NFS-abcdefghi;
```

Change NPC Time Slot Zero [I.38321]

```
ED-PRMTR-EQPT::NPC-[s]abc[&&-[t]def]::\
TS0-abcdefgh;

ED-PRMTR-EQPT::NPC-uv-m-np[&&-uv-k-qr]::\
TS0-abcdefgh;
```

Change Time Slot Zero Monitor [I.38323]

```
ED-PRMTR-EQPT::NPC-[s]abc[&&-[t]def]::\
TS0M-abcdefgh;

ED-PRMTR-EQPT::NPC-uv-m-np[&&-wx-k-qr]::\
TS0M-abcdefgh;
```

Change Options [I.38241]

```
ED-PRMTR-EQPT::{NPC-[s]abc|RT-ffff|DL-
ffff|TYPE-mnxyz}::\rr/m[&rr/m...];
ED-PRMTR-EQPT::{NPC-uv-m-np|RT-ffff|DL-
ffff|TYPE-mnxyz}::\rr/m[&rr/m...];
```

Change Bank Number [I.38351]

```
ED-PRMTR-EQPT::::{RT|DL}-ffff:{RT|DL}-gggg;
```

Change RT/ DL [I.38481]

```
ED-PRMTR-EQPT::::{RT|DL}-ffff:{ZCS|B8ZS};
```

Change Pwr/ Misc Option or FPC RT Retrofit Status [I.38361]

```
ED-PRMTR-EQPT::::RT-ffff:[{sss|RTF}]:[SWMN-x];
```

Configure Synchro-nizer [I.35013]

```
ED-PRMTR-EQPT::SYNC::{MASTER|SLAVED};
```

Configure Synchronizer Stratum [I.35012]

```
ED-PRMTR-EQPT::SYNC::{STR2|STR3|TOLL|LOCAL};
```

Change Priorities and/or Type, Synchronizer or NPC [I.38011]

```
ED-PRMTR-EQPT::SYNC::TLI-m:SSP-b:texyz;

ED-PRMTR-EQPT::SYNC::\
SRC-i/a,b[&j/c,d[&k/e,f[&l/g,h]]];
```

Change Type, Options [I.38231]

```
ED-PRMTR-EQPT::TYPE-mnxyz::rr/m[&rr/m][...];
```

Change FTMI Equalization [I.38111]

```
ED-PRMTR-EQPT::UNIT-[q]q::FTMI-d:EQL-l,r;
```

Change Subrate Error Correction Location [I.38261]

```
ED-PRMTR-NE:::ECLOC:{MJU|SRM};
```

Change Hub Identification [I.38251]

```
ED-PRMTR-NE::::HUBID-O-ab;
```

Change Cross-Connect Termination Status [I.17001]

```
ED-PRMTR-T0::[s]abc-ddd[&&-eee],[t]ghi-jjj\
[&&-kkk]::[INCL]:{TERM|RLS}{F|T|B|L|G|A}:\
[NOT-[u]rst-vvv];

ED-PRMTR-T0::uv-m-np-ddd[&&-eee],\
wx-k-qr-jjj[&&-kkk]::[INCL]:{TERM|RLS}\
{F|T|B|L|G|A}:[NOT-ed-h-fg-vvv];
```

Change Circuit Parameters [I.17002]

```
ED-PRMTR-T0::[s]abc-ddd,[t]ghi-jjj::[INCL]:\
[TLP-snn-smm,NG-nn,ES-ee];

ED-PRMTR-T0::uv-m-np-ddd,wx-k-qr-jjj::[INCL]:\
[TLP-snn-smm,NG-nn,ES-ee];
```

Change Circuit Parameters [I.17011]

```
ED-PRMTR-T1::[s]abc,[t]ghi::[INCL]:\
{TERM|RLS}{F|T|B|A}:[NOT-[u]rst];

ED-PRMTR-T1::uv-m-np,wx-k-qr::[INCL]:\
{TERM|RLS}{F|T|B|A}:[NOT-ed-h-fg];
```

Change DS3 Parameters [I.38601]

```
ED-PRMTR-T3::UNIT-[q]q::DS3-c[&&-d]:[BERM-s]\
[,BERT-t][,LBO-<b>][,TYPE-mnxyz];
```

Change Unprotected Alarm Setting [I.38611]

```
ED-PRMTR-T3::::UNPROTALM-{ON|OFF};
```

Change DS1 Alarm Suppression for DS1s Within a DS3 [I.38621]

```
ED-PRMTR-T3::::DS1ALMDS3-{ON|OFF};
```

Change Terminate and Leave [I.19561]

```
ED-PRMTR-TS::[s]abc-ddd[-ff]::MJU-ssss:[BRi]:\
{TERM|RLS}m;
ED-PRMTR-TS::uv-m-np-ddd[-ff]::MJU-ssss:[BRi]:\
{TERM|RLS}m;
```

Change Subrate Terminate and Leave [I.19551]

```
ED-PRMTR-TS::[s]abc-ddd[-ff]::{TERM|RLS}m;
ED-PRMTR-TS::uv-m-np-ddd[-ff]::{TERM|RLS}m;
```

Remove Commands

8

Remove TSI (Non-CEF Only) [I.33231]

```
RMV-CNFGRN-EQPT::UNIT-q::CCN-s,TSIS:\
[(a[,b[,c[,d[,e[,f]]]]])];
```

Remove Cross-Connect Buffer (Non-CEF Only) [I.33202]

```
RMV-EQPT::CCB-sf;
```

Remove Clock Control Interface [I.33251]

```
RMV-EQPT::CCI-s;
```

Remove Cross-Connect Network Interface [I.33201]

```
RMV-EQPT::CCNI-s;
```

Remove TSI on Cross-Connect Side (Non-CEF Only) [I.33241]

RMV-EQPT::CCN-s,TSIS;

Remove ETSI [I.33261]

RMV-EQPT::ETSI-sqq;

Remove ETSIS All [I.33271]

RMV-EQPT::ETSIS,ECCN-s;

Remove Link [I.33011]

RMV-EQPT::LINK-j;

Remove Main Controller [I.33001]

RMV-EQPT::MC;

Remove NPCs [I.33351]

```
RMV-EQPT::NPC-[s]abc[&&-[t]def]::\
[SIDE-s]:[INCL];

RMV-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::\
[SIDE-s]:[INCL];
```

Remove PMEM or SMEM [I.33211]

```
RMV-EQPT::{PMEM|SMEM};
```

Remove RT/ DL [I.33481]

```
RMV-EQPT::{RT|DL}-ffff;
```

Remove Synchro-nizer [I.33101]

```
RMV-EQPT::SYNC-a;
```

Remove Synchro-nizer's TLI or SSP [I.33121]

```
RMV-EQPT::SYNC-a::TLI-m:[SSP-b];
```

Remove Synchronizer Time Base As a Clock Reference Oscillator [I.33111]

```
RMV-EQPT::TLI-3::CRO;
```

Remove Time Slot Interchange [I.33221]

```
RMV-EQPT::TSI-sft;
```

Remove Unit Format Converter [I.33331]

```
RMV-EQPT::UNIT-[q]q::FC-sb;
```

Remove FTMI or DSPI [I.33321]

```
RMV-EQPT::UNIT-[q]q::{FTMI-d|DSPI};
```

Remove Unit Controller [I.33311]

```
RMV-EQPT::UNIT-[q]q::UC;
```

Restore Commands

9

Restore TSI That Connects Units (Non-CEF Only)

[I.34231]

```
RST-CNFGRN-EQPT::UNIT-q::CCN-s,TSIS:\
[[a[,b[,c[,d[,e[,f]]]]]];
```

Restore Cross-Connect Buffer

[I.34202]

```
RST-EQPT::CCB-sf;
```

Restore Control and Clock Interface

[I.34251]

```
RST-EQPT::CCI-s;
```

Restore Cross-Connect Network Interface

[I.34201]

```
RST-EQPT::CCNI-s;
```

Restore Expanded Time Slot Inter-changer

[I.34261]

RST-EQPT::ETSI-sqq;

Restore All ETSIS

[I.34271]

RST-EQPT::ETSIS,ECCN-s;

Restore Adminis-trative Link

[I.34011]

RST-EQPT::LINK-j;

Restore Main Controller

[I.34001]

For Normal Operations:

RST-EQPT::MC::[{MCOND|NOJRNL|FRC}];

For Installation and Product Evaluation Only,
(can be used only if the Lucent security warning feature bit is set):

RST-EQPT::MC::CLR[,ALL];

Restore NPCs [I.34351]

```
RST-EQPT::NPC-[s]abc[&&-[t]def]::[SIDE-s];
RST-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::[SIDE-s];
```

Restore PMEM and/ or SMEM [I.34211]

```
RST-EQPT::{PMEM|SMEM}::[CLR]:[FRC]:[BKGRND];
```

Restore RT/ DL [I.34481]

```
RST-EQPT::{RT|DL}-ffff;
```

Restore Synchro-nizer [I.34101]

```
RST-EQPT::SYNC-a;
```

Restore Synchro-nizer's Timing Link Interface [I.34121]

```
RST-EQPT::SYNC-a::TLI-m:[SSP-b];
```

Restore Clock Reference Oscillator [I.34111]

```
RST-EQPT::TLI-3::CRO;
```

Restore Time Slot Interchange [I.34221]

```
RST-EQPT::TSI-sft;
```

Restore Time Slot Interchanges [I.34241]

```
RST-EQPT::TSIS,CCN-s;
```

Restore Unit [I.34331]

```
RST-EQPT::UNIT-[q]q::FC-sb;
```

Restore FTMI or DSPI [I.34321]

```
RST-EQPT::UNIT-[q]q::{FTMI-d|DSPI};
```

Restore Unit Controller [I.34311]

```
RST-EQPT::UNIT-[q]q::UC;
```

Subrate Commands

10

Subrate Test Access [I.19661]

```
CHG-TL-TS::::kk:TERM{F|T|B};
```

Subrate Cross-Connection [I.19221]

```
CONN-CRS-TS:<xy>:[s]abc-ddd[-ff]::\
MJU-ssss:[RATE-rr]:[MA-tttt-u]:[<branch>]\
[,<branch>][,<branch>][,<branch>]:\
[NORM,NORM];

CONN-CRS-TS:<xy>:uv-m-np-ddd[-ff]::\
MJU-ssss:[RATE-rr]:\[MA-tttt-u]:[<branch>]\
[,<branch>][,<branch>][,<branch>]:[NORM,NORM];
```

Subrate Terminated Cross-Connection [I.19321]

```
CONN-CRS-TS::[s]abc-ddd[-ff]::MJU-ssss:\
[RATE-rr]:\[MA-tttt-u]:<branch>[,<branch>]\
[,<branch>][,<branch>]:TERM,TERM;

CONN-CRS-TS::uv-m-np-ddd[-ff]::MJU-ssss:\
[RATE-rr]:\[MA-tttt-u]:<branch>[,<branch>]\
[,<branch>][,<branch>]:TERM,TERM;
```

Subrate Cross-Connection [I.19201]

```
CONN-CRS-TS::[s]abc-ddd[-ff],[t]ghi-jjj\
[-ll]::RATE-rr:\[NORM,NORM];

CONN-CRS-TS::uv-m-np-ddd[-ff],wx-k-qr-jjj\
[-ll]::RATE-rr:\[NORM,NORM];
```

Subrate Cross-Connection [I.19211]

For a DS0A Channel

```
CONN-CRS-TS:<xy>:[s]abc-ddd&&-eee[-01],\
[t]ghi-jjj&&-kkk[-01]::RATE-rr:[NORM,NORM];
```

For a DS0B Channel

```
CONN-CRS-TS:<xy>:[s]abc-ddd-ff&&-mm,\
[t]ghi-jjj-ll&&-nn::RATE-rr:[NORM,NORM];
```

For a DSOA Channel

```
CONN-CRS-TS:<xy>:uv-m-np-ddd&&-eee[-01],\
wx-k-qr-jjj&&-kkk[-01]::RATE-rr:[NORM,NORM];
```

For a DS0B Channel

```
CONN-CRS-TS:<xy>:uv-m-np-ddd-ff&&-mm,\
wx-k-qr-jjj-ll&&-nn::RATE-rr:[NORM,NORM];
```

Subrate Terminated Cross-Connection [I.19301]

```
CONN-CRS-TS:<xy>:[s]abc-ddd[-ff],\
[t]ghi-jjj[-ll]::\RATE-rr:TERM,TERM;
```

```
CONN-CRS-TS:<xy>:uv-m-np-ddd[-ff],\
wx-k-qr-jjj[-ll]::\RATE-rr:TERM,TERM;
```

Subrate Terminated Cross-Connection [I.19311]

USAGE: The following applies to a range of DS0A channels:

```
CONN-CRS-TS::[s]abc-ddd&&-eee[-01],\
[t]ghi-jjj&&-kkk[-01]::RATE-rr:TERM,TERM;
```

USAGE: The following applies to a range of DS0B channels:

```
CONN-CRS-TS::[s]abc-ddd-ff&&-mm,\
[t]ghi-jjj-ll&&-nn::RATE-rr:TERM,TERM;
```

USAGE: The following applies to a range of DS0A channels:

```
CONN-CRS-TS::uv-m-np-ddd&&-eee[-01],\
wx-k-qr-jjj&&-kkk[-01]::RATE-rr:TERM,TERM;
```

USAGE: The following applies to a range of DS0B channels:

```
CONN-CRS-TS::uv-m-np-ddd-ff&&-mm,\
wx-k-qr-jjj-ll&&-nn::RATE-rr:TERM,TERM;
```

Subrate Test Access [I.19601]

```
CONN-TACC-TS::[s]abc-ddd[-ff]::kk:MON;
CONN-TACC-TS::uv-m-np-ddd[-ff]::kk:MON;
```

Subrate Test Access [I.19621]

```
CONN-TACC-TS::[s]abc-ddd[-ff]::kk:MON:\
MJU-ssss:[BRi];
CONN-TACC-TS::uv-m-np-ddd[-ff]::kk:MON:\
MJU-ssss:[BRi];
```

Subrate Split Test Access [I.19631]

```
CONN-TACC-TS::[s]abc-ddd[-ff]::kk:SPLT;
CONN-TACC-TS::uv-m-np-ddd[-ff]::kk:SPLT;
```

Subrate Test Access Split [I.19651]

```
CONN-TACC-TS::[s]abc-ddd[-ff]::kk:SPLT:\
MJU-ssss:[BRi];
CONN-TACC-TS::uv-m-np-ddd[-ff]::kk:SPLT:\
MJU-ssss:[BRi];
```

Subrate Establish Channel [I.19101]

```
CRTE-CRS-TS::[s]abc-ddd[&&-eee]::\
{DS0A-rr|DS0B-nn}:\[{SEC|PCH[-ppp]}];

CRTE-CRS-TS::uv-m-np-ddd[&&-eee]::\
{DS0A-rr|DS0B-nn}:\[{SEC|PCH[-ppp]}];
```

Subrate Establish Channel [I.19111]

```
CRTE-CRS-TS::[s]abc-ddd[&&-eee]::RATE-rr:\
[{DP|DP,PCH[-ppp]}];

CRTE-CRS-TS::uv-m-np-ddd[&&-eee]::RATE-rr:\
[{DP|DP,PCH[-ppp]}];
```

Subrate Disconnection [I.19421]

```
DISC-CRS-TS::[s]abc-ddd[-ff]::MJU-ssss:\
[RATE-rr]:\<branch>[,<branch>][,<branch>]\
[,<branch>];

DISC-CRS-TS::uv-m-np-ddd[-ff]::MJU-ssss:\
[RATE-rr]:\<branch>[,<branch>][,<branch>]\
[,<branch>];
```

Subrate Disconnection [I.19431]

```
DISC-CRS-TS:::[s]abc-ddd[-ff]::MJU-ssss:\
[RATE-rr]:[ALL];

DISC-CRS-TS:::uv-m-np-ddd[-ff]::MJU-ssss:\
[RATE-rr]:[ALL];
```

Subrate Disconnection [I.19401]

```
DISC-CRS-TS::[s]abc-ddd[-ff],[t]ghi-jjj\
[-ll]::[RATE-rr];

DISC-CRS-TS::uv-m-np-ddd[-ff],wx-k-qr-jjj[-
ll]::[RATE-rr];
```

Subrate Disconnection [I.19411]

```
DISC-CRS-TS::[s]abc-ddd{&&-eee[-01]|-ff&&-mm},\
[t]ghi-jjj{&&-kkk[-01]|-ff&&-mm}::[RATE-rr];

DISC-CRS-TS::uv-m-np-ddd\
{&&-eee[-01]|-ff&&-mm},wx-k-qr-jjj\
{&&-kkk[-01]|-ll&&-nn}::[RATE-rr];
```

Subrate Test Access [I.19671]

```
DISC-TACC-TS::::kk;
```

Subrate Disestablish Channel [I.19151]

```
DLT-CRS-TS::[s]abc-ddd[&&-eee]::\
[PCH[-ppp]]:[DCC];

DLT-CRS-TS::uv-m-np-ddd[&&-eee]::\
[PCH[-ppp]]:[DCC];
```

Test Access Commands

11

Two-Way Test Access Line Loopback

[I.26101]

```
ALW-LPBK-
T1::{DGA|DGB|DGC|DGD|DGP}::LLB:[{TO|FROM}]:\
RT-ffff;
```

Non-Channelized Test, Monitor, Split, Loop

[I.20101]

```
CHG-ACCMD-T1::[s]abc[&[t]def]::<tmode>:[AIS]:\
[INCL];

CHG-ACCMD-T1::uv-m-np[&wx-k-qr]::<tmode>:\
[AIS]:[INCL];
```

Two-Way Test Access Monitor Test Port

[I.21011]

```
CHG-TACC-T0::::kk::MON;
```

Two-Way Test Access [I.23001]

```
CHG-TACC-T0::::kk:SPLT;
```

Nx64 kbit/s Two-Way Test Access, Monitor [I.21031]

```
CHG-TACC-T0::::TG-mmm:MON;
```

Nx64 kbit/s Two-Way Test Access, Split [I.23021]

```
CHG-TACC-T0::::TG-mmm:SPLT;
```

Non-Channelized Test FAD, Emode, Fmode [I.20111]

```
CHG-TACC-
T1::[s]abc[&[t]def]::{[<emode>][,<fmode>]}:\
[INCL];

CHG-TACC-T1::uv-m-np[&wx-k-
qr]::{[<emode>][,<fmode>]}:\[INCL];
```

Change Test Access Time Slot [I.19626]

```
CHG-TACC-TS::::kk:MON;
```

Change Subrate Test Access Split [I.19656]

```
CHG-TACC-TS::::kk:SPLT;
```

Two-Way Test Access [I.25101]

```
CHG-TL-T0::::kk:TERM{F|T|B|L|G|A}:\
[NOT-[t]rst-vvv];

CHG-TL-T0::::kk:TERM{F|T|B|L|G|A}:\
[NOT-uv-m-np-vvv];
```

Nx64 kbit/s Two-Way Test Access, Terminate-And-Leave-Active [I.25121]

```
CHG-TL-T0::::TG-mmm:TERM{F|T|B};
```

Two-Way Test Access, Hub [I.24001]

```
CONN-HUB-T0::[t]ghi-jjj::kk:<tc>;
CONN-HUB-T0::uv-m-np-jjj::kk:<tc>;
```

Nx64 kbit/s Two-Way Test Access, Hub [I.24021]

```
CONN-HUB-T0::[s]abc-ddd,[t]ghi-jjj::\
TG-mmm:[<tc>];

CONN-HUB-T0::uv-m-np-ddd,wx-k-qr-jjj::\
TG-mmm:[<tc>];
```

Non-Channelized Test Hub [I.20031]

```
CONN-HUB-T1::[s]abc,[t]jkl::[INCL];
CONN-HUB-T1::uv-m-np,wx-k-qr::[INCL];
```

Two-Way Test Access, Monitor [I.21001]

```
CONN-TACC-T0::[t]ghi-jjj::kk:[<tc>]:MON;
CONN-TACC-T0::uv-m-np-jjj::kk:[<tc>]:MON;
```

Nx64 kbit/s Two-Way Test Access, Monitor [I.21021]

```
CONN-TACC-T0::[t]ghi-jjj[&&-kkk]\
[&-lll&...]::TG-mmm:\[<tc>]:MON;

CONN-TACC-T0::wx-k-qr-jjj[&&-kkk]\
[&-lll&...]::TG-mmm:\[<tc>]:MON;
```

Non-Channelized Test Access (Monitor, Split, or Loop)

[I.20001]

```
CONN-TACC-T1::[s]abc[&[t]def],\
[u]ghi[,[v]jkl]::<tmode>:[AIS]:[INCL];

CONN-TACC-T1::uv-m-np[&wx-k-qr],eg-h-ij\
[,jk-l-mn]::\<tmode>:[AIS]:[INCL];
```

Two-Way Test Access

[I.27001]

```
DISC-TACC-T0::::kk:[OOS];
```

Two-Way TestAccess

[I.25501]

```
DISC-TACC-T0::::kk:RLS{F|T|B|L|G|A}:\
[NOT-[t]rst-vvv];

DISC-TACC-T0::::kk:RLS{F|T|B|L|G|A}:\
[NOT-uv-m-np-vvv];
```

Nx64 kbit/s Two-Way Test Access, Test-Access Group Release

[I.27021]

```
DISC-TACC-T0::::TG-mmm[&&-nnn]:[OOS];
```

Nx64 kbit/s Two-Way Test Access, Terminate-And-Leave-Release [I.25521]

```
DISC-TACC-T0::::TG-mmm:RLS{F|T|B};
```

Non-Channelized Test NPC Release [I.20202]

```
DISC-TACC-T1::::ALL:[OOS];
```

Non-Channelized Test NPC Release [I.20201]

```
DISC-TACC-T1::[s]abc[&[t]def]::[OOS];
DISC-TACC-T1::uv-m-np[&wx-k-qr]::[OOS];
```

Disconnect Test Access Time Slot [I.19681]

```
DISC-TACC-TS::::{ALL|LINKS};
```

Subrate Test Access Terminate and Leave Release [I.19666]

```
DISC-TACC-TS::::kk:RLS{F|T|B};
```

Two-Way Test Access Line Loopback [I.26111]

```
INH-LPBK-T1::{DGA|DGB|DGC|DGD|DGP}::LLB:\
{TO|FROM}:{RT|DL}-ffff;
```

Disconnect Test Access Time Slot [I.19681]

```
DISC-TACC-TS::::{ALL|LINKS};
```

Looped Test Access [I.29001]

```
OPR-LPBK-T0::::kk:<tc>;
```

Nx64 kbit/s Looped Test Access [I.29021]

```
OPR-LPBK-T0::::TG-mmm:[<tc>];
```

Two-Way Test Access Line Loopback [I.26121]

```
OPR-LPBK-T1::{DGA|DGB|DGC|DGD|DGP}::LLB:\
RT-ffff;
```

Non-Channelized Loop Test Access Facility	[I.20301] **OPR-LPBK-T1::[s]abc::LPBKT:[INCL];** **OPR-LPBK-T1::uv-m-np::LPBKT:[INCL];**

Two-Way Test Access Line Loopback	[I.26131] **RLS-LPBK-T1::{DGA|DGB|DGC|DGD|DGP}::LLB:** **RT-ffff;**

Troubleshooting Commands

12

Diagnose Cross-Connect Buffer [I.41211]

```
DGN-EQPT::CCB-sf::[CFT-X-vwxy];
```

Diagnostics, CCI and BT Packs [I.41251]

```
DGN-EQPT::CCI-s::[CFT-X-vwxy];
```

Diagnose CCNI [I.41201]

```
DGN-EQPT::CCNI-s::[CFT-X-vwxy];
```

Diagnose Communica-tions Interface [I.41031]

```
DGN-EQPT::CI::[CFT-X-vwxy];
```

Diagnose ETSI [I.41261]

```
DGN-EQPT::ETSI-sqq::[CFT-X-vwxy];
```

Diagnose All ETSIs on ECCN Side [I.41271]

```
DGN-EQPT::ETSIS::ECCN-s:ALL;
```

Diagnose Link [I.41011]

```
DGN-EQPT::LINK-a::[CFT-X-vwxy];
```

Diagnose Main Controller [I.41001]

```
DGN-EQPT::MC::[CFT-X-vwxy];
```

Diagnose Main Processor [I.41021]

```
DGN-EQPT::MP::[CFT-X-vwxy];
```

Diagnose Network Processing Circuits [I.41361]

```
DGN-EQPT::NPC-[s]abc&&-[t]def;
DGN-EQPT::NPC-uv-m-np&&&-uv-k-qr;
```

Diagnose NPC [I.41351]

```
DGN-EQPT::NPC-[s]abc::[SIDE-s]:[CFT-X-vwxy];
DGN-EQPT::NPC-uv-m-np::[SIDE-s]:[CFT-X-vwxy];
```

Diagnose Memory Card [I.41051]

```
DGN-EQPT::{PMEM|SMEM}::\
[{CFT-X-vwxy|PROG|DBASE}]:[VERIFY];
```

Diagnose Synchronizer [I.41101]

```
DGN-EQPT::SYNC-a;
```

Diagnose Synchronizer [I.41111]

```
DGN-EQPT::SYNC::TLI-3:CRO;
```

Diagnose Synchronizer Timing Link Interface [I.41121]

```
DGN-EQPT::SYNC-a::TLI-m:[SSP-b];
```

Diagnose Time Slot Inter-changes [I.41241]

```
DGN-EQPT::TSI::CCN-s:ALL;
```

Diagnose Time Slot Interchanges [I.41232]

```
DGN-EQPT::TSI::CCN-s:UNIT-q:\
[a[,b[,c[,d[,e[,f]]]]]];
```

Diagnose Time Slot Interchange [I.41221]

```
DGN-EQPT::TSI-sft::[CFT-X-vwxy];
```

Diagnose DSPU [I.41341]

```
DGN-EQPT::UNIT-[q]q::DSPI:[CFT-X-vwxy];
```

Diagnose Format Converter [I.41331]

```
DGN-EQPT::UNIT-[q]q::FC-sb:[CFT-X-vwxy];
```

Diagnose FLI [I.41401]

```
DGN-EQPT::UNIT-[q]q::FLI-k:[CFT-X-vwxy];
```

Diagnose FMT [I.41411]

```
DGN-EQPT::UNIT-[q]q::FMT-s:[CFT-X-vwxy];
```

Diagnose Facility Terminating Module Interface [I.41321]

```
DGN-EQPT::UNIT-[q]q::FTMI-d:[CFT-X-vwxy];
```

Diagnose MIU [I.41431]

```
DGN-EQPT::UNIT-[q]q::MIU-c:[CFT-X-vwxy];
```

Diagnose MXR [I.41421]

```
DGN-EQPT::UNIT-[q]q::MXR-c:[DEV-devc:\
[CFT-X-vwxy]];
```

Diagnose UnitOnUC [I.41311]

```
DGN-EQPT::UNIT-[q]q::UC:[CFT-X-vwxy];
```

Clear Power Supply or Backup Failure [I.56052]

```
INIT-REG::PWR-pp:;
```

Utility Recover Password [I.51081]

```
RST-PASSWD;
```

Utility Recover Password [I.53111]

```
RTRV-ALM-EQPT:<xy>;
```

Utility Query Alarms [I.53151]

```
RTRV-ALM-EQPT::::DBASE;
```

Query Facility Alarms [I.81001]

```
RTRV-ALM-EQPT::NPC::{CFA|CGA|LOS};
```

Utility Query Alarms [I.53141]

```
RTRV-ALM-EQPT::{RT|DL}-ffff;
```

Query DS3 Alarms [I.56331]

```
RTRV-ALM-T3;
```

Utility Query Broadcast [I.52111]

```
RTRV-BDCST-T0::[s]abc-ddd;
RTRV-BDCST-T0::uv-m-np-ddd;
```

Query Broadcast All [I.52101]

```
RTRV-BDCST-T0::::ALL;
```

Utility Query Broadcast From [I.52121]

```
RTRV-BDCST-T1::[s]abc::FROM;
RTRV-BDCST-T1::uv-m-np::FROM;
```

Utility Query Equipment Connect-ivity [I.53031]

```
RTRV-CNFGRN-EQPT::UNIT::EQPD;
```

Utility Query Circuit Status, NPC [I.53121]

```
RTRV-COND-EQPT::NPC-[s]abc::CS;
RTRV-COND-EQPT::NPC-uv-m-np::CS;
```

Query Partial Cross-Connect Map [I.52011]

```
RTRV-CRS-T1::[s]abc[&&[t]def]::MAP;
RTRV-CRS-T1::uv-m-np[&&&-wx-k-qr]::MAP;
```

Query Full Cross-Connect Map [I.52031]

```
RTRV-CRS-T1::NPC::MAP;
```

Utility Query RTMAP, DLMAP [I.52311]

```
RTRV-CRS-T1::::[ffff]:{RTMAP|DLMAP};
```

Utility Query Far-End Subrate Channel Information [I.52511]

```
RTRV-CRS-TS::[s]abc-ddd[&&-eee];
RTRV-CRS-TS::uv-m-np-ddd[&&-eee];
```

Utility Query Circuit/ Hardware Subrate Trace [I.52531]

```
RTRV-EQPT-TS::[s]abc-ddd[-ff]::SRHDW;
RTRV-EQPT-TS::uv-m-np-ddd[-ff]::SRHDW;
```

Utility Query Framing Status of Subrate Multi-plexer

[I.56501]

```
RTRV-EVT-TS::[[s]abc-ddd[&&-eee]]::SROOF:[ALL];
RTRV-EVT-TS::[uv-m-np-ddd[&&eee]]::SROOF:[ALL];
```

Query Feature Package

[I.51121]

```
RTRV-FPKG-NE;
```

QueryDate

[I.51031]

```
RTRV-HDR;
```

Utility QueryWho

[I.51041]

```
RTRV-HDR-NE;
```

Utility Query Location

[I.56401]

```
RTRV-LOC-EQPT::<entity>::[<arg>];
```

Query Software/ Hardware Error Recovery [I.55011]

```
RTRV-LOG::::ERR:{SWER|HWER}\
[,{INT-mn|[DATE-[ce]yr-mo-da,]\
TOD-hr-mn-sc}][,TN-X-dddd][,EVENT-X-eeee]\
[,ERCL-{HARD|TRANS|APPINT}][,ENTY-<entity>];
```

Utility Query Macro [I.54121]

```
RTRV-MACRO::::<name>:[<user id>];
```

Utility Query List Macro [I.54131]

```
RTRV-MACRO-COM::::<macro name>:[<user id>];
```

Utility Query List Map [I.54101]

```
RTRV-MAP-COM::::<name>:[<user id>];
```

Utility Query NPC Map [I.54111]

```
RTRV-MAP-EQPT::NPC::<name>:[<user id>];
```

Retrieve Memory Status [I.51001]

```
RTRV-MEMSTAT;
```

Utility Query Options NPCs [I.53051]

```
RTRV-OPT-T1::NPC::[{mn|ALL}];
```

Query DS1 Performance Monitoring Report Schedule [I.51151]

```
RTRV-PMSCHED-T1::{NPC-[s]abc[&&-[t]def]|ALL};
RTRV-PMSCHED-T1::{NPC-uv-m-np[&&&-wx-kqr]|ALL};
```

Utility QueryLoad [I.52581]

```
RTRV-PRMTR-EQPT::::LOAD:{[s]abc|TOTAL};
RTRV-PRMTR-EQPT::::LOAD:{uv-m-np|TOTAL};
```

Utility Query All [I.56031]

```
RTRV-PRMTR-EQPT::NPC::<parameter>:ALL;
```

Utility Query Alarm Option,AIS [I.56021]

```
RTRV-PRMTR-EQPT::NPC-[s]abc[&&-[v]ghi]::\
ALMOPT:AIS;

RTRV-PRMTR-EQPT::NPC-uv-m-np\
[&&&-wx-k-qr]::ALMOPT:AIS;
```

Query Network Processing Circuit Parameter [I.56041]

```
RTRV-PRMTR-EQPT::[NPC-[s]abc[&&-[t]def]]::\
<parameter>:[{RT|DL}-ffff];

RTRV-PRMTR-EQPT::[NPC-uv-m-np\
[&&&-wx-k-qr]]::<parameter>:\[{RT|DL}-ffff];
```

Utility Query SCDG [I.52321]

```
RTRV-PRMTR-EQPT::[NPC-[s]abc]::SCDG:[STATE]:\
[{RT-ffff|DL-ffff|ALL}];

RTRV-PRMTR-EQPT::[NPC-uv-m-np]::SCDG:[STATE]:\
[{RT-ffff|DL-ffff|ALL}];
```

Query Link Status and Protocol [I.55113]

```
RTRV-PRMTR-LINK::j[mm[&&jnn]];
```

Query Macro Attributes [I.54211]

```
RTRV-PRMTR-MACRO::::ATTR:[{<user id>|ALL}];
```

Utility Query Macro/Map Space [I.54221]

```
RTRV-PRMTR-{MACRO|MAP}::::SPACE:\
[{<user id>|ALL|SYSTEM}];
```

Utility QueryMap [I.54201]

```
RTRV-PRMTR-MAP::::ATTR:\
[{ALL|<user id>|<name>}];
```

Only the DACS II frame administrator can use the ALL option.

Utility Query Configure [I.51091]

```
RTRV-PRMTR-NE;
```

Query Error Correction Location [I.51511]

```
RTRV-PRMTR-NE::::ECLOC;
```

Utility Query Hub Identifier [I.51501]

```
RTRV-PRMTR-NE::::HUBID;
```

Utility Query Sequence [I.51131]

```
RTRV-PRMTR-SQN;
```

Utility Query From [I.52051]

```
RTRV-PRMTR-T0::[s]abc-ddd[&&-eee]::FROM;
RTRV-PRMTR-T0::uv-m-np-ddd[&&-eee]::FROM;
```

Query Channel Marks [I.52211]

```
RTRV-PRMTR-T0::[s]abc-jjj[&&-kkk]::MARK;
RTRV-PRMTR-T0::uv-m-np-jjj[&&-kkk]::MARK;
```

Query Trunk Signaling Conversion State [I.52601]

```
RTRV-PRMTR-T0::abc-ddd::SIGST;
RTRV-PRMTR-T0::uv-m-np-ddd::SIGST;
```

Query Destination Cross-Connect [I.52041]

```
RTRV-PRMTR-T0::[s]abc-ddd[&&-eee]::TO;
RTRV-PRMTR-T0::uv-m-np-ddd[&&-eee]::TO;
```

Utility Query From [I.52071]

```
RTRV-PRMTR-T1::[s]abc::FROM;
RTRV-PRMTR-T1::uv-m-np::FROM;
```

Utility Query Markings [I.52201]

```
RTRV-PRMTR-T1::[s]abc[&&-[t]def]::MARK;
RTRV-PRMTR-T1::uv-m-np[&&&-wx-k-qr]::MARK;
```

Non-Channelized Utility Query To [I.52061]

```
RTRV-PRMTR-T1::[s]abc::TO;
RTRV-PRMTR-T1::uv-m-np::TO;
```

Query DS3 Line Build Out [I.53231]

```
RTRV-PRMTR-T3::::LBO;
```

Utility Query DS3 Bit Error Rate [I.53221]

```
RTRV-PRMTR-T3::[UNIT-[q]q]::BERMT;
```

Query Subrate Cross-Connect [I.52521]

```
RTRV-PRMTR-TS::[s]abc-ddd[-ff];
RTRV-PRMTR-TS::uv-m-np-ddd[-ff];
```

Query User|link Screening Option [I.54001]

```
RTRV-PRVG-{TERM|USER}::::{j[mm][&&jnn]|<user id>|ALL};
```

Query Log [I.54011]

```
RTRV-PRVG-USER::LOG::[ALL];
```

Utility Query Error Source Register [I.55401]

```
RTRV-REG-EQPT::CCN-a::ESR;
```

Query ECCN Error Source Register

[I.55411]

```
RTRV-REG-EQPT::ECCN-s::ESR;
```

Query Error Source Register Main Processor

[I.55111]

```
RTRV-REG-EQPT::MP::ESR;
```

Utility Query ESR for FTU or Subrate NPC

[I.55601]

```
RTRV-REG-EQPT::NPC-[s]abc::[SIDE-s]:ESR;
RTRV-REG-EQPT::NPC-uv-m-np::[SIDE-s]:ESR;
```

Utility Query Synchro-nizer

[I.55201]

```
RTRV-REG-EQPT::SYNC-a::STR;
```

Utility Query SSP

[I.55321]

```
RTRV-REG-EQPT::SYNC-a::TLI-m:SSP-b:STR;
```

Utility Query Timing Link Interface

[I.55311]

```
RTRV-REG-EQPT::SYNC-a::TLI-m:STR;
```

Query Error Source Register [I.55531]

RTRV-REG-EQPT::UNIT-[q]q::DSPI:ESR;

Utility Query Error Source Register [I.55501]

RTRV-REG-EQPT::UNIT-[q]q::ESR;

Query Error Source Register [I.55521]

RTRV-REG-EQPT::UNIT-[q]q::FC-sb:ESR;

Query Error Source Register Facility Line Interface [I.55801]

RTRV-REG-EQPT::UNIT-[q]q::FLI-k:ESR;

Query Error Source Register Formatter [I.55811]

RTRV-REG-EQPT::UNIT-[q]q::FMT-s:ESR;

Query Error Source Register FTMI [I.55511]

RTRV-REG-EQPT::UNIT-[q]q::FTMI-d:ESR;

Query Error Source Register Multiplexer Interface Unit [I.55831]

```
RTRV-REG-EQPT::UNIT-[q]q::MIU-c:ESR;
```

Query Error Source Register Multiplexer [I.55821]

```
RTRV-REG-EQPT::UNIT-[q]q::MXR-c:ESR;
```

Query Cross-Connect Status Bus [I.55181]

```
RTRV-REG-EQPT::XCSB::[UNIT-[q]q];
```

Utility Query Status Register [I.55191]

```
RTRV-REG-EQPT::XC-a::STR;
```

Utility Query Roll DS0 [I.52081]

```
RTRV-ROLL-T0::\
{NPC-[s]abc[&&-[t]def]|ALL[,UNIT-[q]q]};

RTRV-ROLL-T0::\
{NPC-uv-m-np[&&&-wx-k-qr]|ALL[,UNIT-[q]q]};
```

Utility Query Roll DS1 [I.52091]

```
RTRV-ROLL-T1::\
{NPC-[s]abc[&&-[t]def]|ALL[,UNIT-[q]q]};

RTRV-ROLL-T1::\
{NPC-uv-m-np[&&&-wx-k-qr]|ALL[,UNIT-[q]q]};
```

Query All Common Equipment [I.53104]

```
RTRV-STATE-COM::::ALL;
```

Utility Query Equipage, Common [I.53109]

```
RTRV-STATE-COM::::EQPD;
```

Utility Query Status Common Equipment [I.53105]

```
RTRV-STATE-COM::::{PEST|FAIL|OOS};
```

Utility Query State Alarm Cut Off [I.54340]

```
RTRV-STATE-EQPT::::ACO;
```

Utility Query Equipage of ETSIs [I.53022]

```
RTRV-STATE-EQPT::ETSI::EQPD;
```

Query Equipped Multiplexer Interface Units [I.53201]

```
RTRV-STATE-EQPT::MIU::EQPD;
```

Utility Query Equipped Multiplexers inDS3Unit [I.53211]

```
RTRV-STATE-EQPT::MXR::EQPD;
```

Utility QueryState [I.56311]

```
RTRV-STATE-EQPT::NPC-[s]abc[&&-[t]def];
RTRV-STATE-EQPT::NPC-uv-m-np[&&&-wx-k-qr];
```

Utility Query NPC State [I.56314]

```
RTRV-STATE-EQPT::NPC-[s]abc[&&-[t]def];
RTRV-STATE-EQPT::NPC-uv-m-np[&&&-wx-k-qr];
```

Query Equipped NPCs [I.53041]

```
RTRV-STATE-EQPT::NPC::EQPD[,TOTAL]:[UNIT-[q]q];
```

Utility Query Loopback [I.53131]

```
RTRV-STATE-EQPT::NPC-[s]abc[&&-[t]def]::LPBK;
RTRV-STATE-EQPT::NPC-uv-m-np[&&&-wx-kqr]::LPBK;
```

Query ANSI NPC Test Signal [I.53161]

```
RTRV-STATE-EQPT::NPC-[s]abc[&&-[t]def]::TSIG;
RTRV-STATE-EQPT::NPC-uv-m-np[&&&-wx-kqr]::TSIG;
```

Query NPC Time Slot Zero [I.56321]

```
RTRV-STATE-EQPT::NPC-[s]abc[&&-[t]def]::TS0-s;
RTRV-STATE-EQPT::NPC-uv-m-np[&&-wx-k-qr]::TS0s;
```

Query Time Slot Zero Monitor [I.56323]

```
RTRV-STATE-EQPT::NPC-[s]abc[&&-[t]def]::TS0M;
RTRV-STATE-EQPT::NPC-uv-m-np[&&-wx-k-qr]::TS0M;
```

Utility Query Synchronizer State [I.56301]

```
RTRV-STATE-EQPT::SYNC;
```

Utility Query Synchronizer Provisioning [I.53001]

```
RTRV-STATE-EQPT::SYNC::EQPD;
```

Utility Query Equipped TSIs [I.53021]

```
RTRV-STATE-EQPT::TSI::EQPD;
```

Query All [I.53101]

```
RTRV-STATE-EQPT::[UNIT-[q]q]::ALL;
```

Utility Query Equipage Status [I.53011]

```
RTRV-STATE-EQPT::UNIT::EQPD;
```

Utility Query Entity Equipage [I.53108]

```
RTRV-STATE-EQPT::[UNIT-[q]q]::EQPD;
```

Utility Query Equalization, Impedance

[I.53071]

```
RTRV-STATE-EQPT::UNIT-[q]q::FTMI-b;
```

Utility Query Hybrid DS3 Loopback

[I.53181]

```
RTRV-STATE-EQPT::UNIT-[q]q::LPBK;
```

Utility Query Status of Entities/ Equipment

[I.53103]

```
RTRV-STATE-EQPT::[UNIT-[q]q]::{PEST|FAIL|OOS};
```

Query Unit Protection State

[I.56511]

```
RTRV-STATE-EQPT::UNIT-[q]q::PROTN;
```

Query State Unit DS3

[I.56361]

```
RTRV-STATE-T3::UNIT-[q]q::DS3-c[&&-d];
```

Utility Query Subrate Channels

[I.52501]

```
RTRV-STATE-TS::[s]abc-ddd[&&-eee];
RTRV-STATE-TS::uv-m-np-ddd[&&-eee];
```

Utility Query Test-Access GroupNPC [I.53091]

```
RTRV-TACC-T0::NPCTG-rrr[&&-sss];
```

Utility Query Test-Access Group [I.53081]

```
RTRV-TACC-T0::TG-mmm[&&-nnn];
```

Utility Query Test Ports [I.53061]

```
RTRV-TACC-T1;
```

Miscellaneous Commands

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Abort [I.55711]

```
ABT-CMD;
```

Allow Switch of MMFG [I.35301]

```
ALW-SW-EQPT::UNIT-[q]q::MMFG-c[&&-d]:\
{PROTN|WKG};
```

Protection Switching [I.39411]

```
ALW-SW-T1::{NPC-[s]abc|xxx}::[RT-ffff]:[INCL];
ALW-SW-T1::{NPC-uv-m-np|xxx}::[RT-ffff]:[INCL];
```

Append Component Command [I.19041]

```
APPEND[::{<line number>|END}::];
```

Copy NPC [I.31521]

```
COPY-EQPT::NPC-[s]abc,[t]def[&&-[u]ghi];
COPY-EQPT::NPC-uv-m-np,wx-k-qr[&&&-gh-i-kl];
```

Backup Memory Transfer [I.55701]

```
CPY-MEM::::<from>,<to>:[PROG]:[INCL];
```

Delete Feature Package Identification [I.37301]

```
DLT-FPKG::::nnnnnnnn;
```

Set Date [I.51021]

```
ED-DATE::::[ce]yr-mo-da:[INT-ii];
ED-DATE::::,hr-mn-sc;
```

Add NPC to SLC® Carrier Bank [I.36201]

```
ED-PRMTR-EQPT::[DGA-[s]aaa][,DGB-[s]bbb]\
[,DGC-[s]ccc][,DGD-[s]ddd][,DGP-[s]ppp]::\
{RT|DL}-ffff,g[g]:[{sss|NDL|RTF}];

ED-PRMTR-EQPT::[DGA-uv-j-ab][,DGB-uv-k-cd]\
[,DGC-uv-l-ef][,DGD-uv-m-gh] [,DGP-uv-j-pr]::\
{RT|DL}-ffff,g[g]:\[{sss|NDL|RTF}];
```

Switch Inhibition for SLC® [I.39421]

```
INH-SW-T1::{NPC-[s]abc|xxx}::[RT-ffff]:[FRC]:\
[INCL];

INH-SW-T1::{NPC-uv-m-np|xxx}::[RT-ffff]:[FRC]:\
[INCL];
```

Alarm Cutoff [I.51111]

```
OPR-ACO-ALL;
```

Set Daily Facility Alarm Reporting Time [I.51011]

```
SCHED-PMREPT-ALL::::[hr-mn-sc],\
{CFA|FAC-X-abcdef|PRIM-X-ghij|MONDAT};
```

UtilityBoot [I.58001]

```
STA-LOCL-RST::PMEM::[CLR];
```

Switch FLI To Protection [I.35101]

```
SW-TOPROTN-EQPT::UNIT-[q]q::FLI;
```

Switch MMFG To Protection [I.35111]

```
SW-TOPROTN-EQPT::UNIT-[q]q::MMFG-c:[FRC];
```

Request PSW, USW, ALW, or INH on SLC® [I.39401]

```
SW-TOPROTN-T1::{NPC-[s]abc|xxx}::\
[RT-ffff]:[INCL];

SW-TOPROTN-T1::{NPC-uv-m-np|xxx}::\
[RT-ffff]:[INCL];
```

Switch FLI To Service [I.35105]

```
SW-TOWKG-EQPT::UNIT-[q]q::FLI;
```

Switch MMFG To Service [I.35121]

```
SW-TOWKG-EQPT::UNIT-[q]q::MMFG-c;
```

Allow Termination of Protection Switching [I.39431]

```
SW-TOWKG-T1::{NPC-[s]abc|DGx}::\
[{RT|DL}-ffff]:[INCL];

SW-TOWKG-T1::{NPC-uv-m-np|DGx}::\
[{RT|DL}-ffff]:[INCL];
```

Upgrade Frame [I.55731]

```
UPGRD-SYS;
```

Denial Codes

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mmmm	*Explanation*
ENEQ	CCB not eqd, not IS, or failed or inactive side CCB not eqd or not IS CPR is not equipped Copy source NPC is not equipped DSPI not equipped, not in service, or failed DSPU is not equipped Database corrupt ETSI not equipped, not in service, or failed FC not eqd, not IS, or failed or inactive side FC not eqd or not IS FMT not eqd, not IS, or failed, or inact side FMT not eqd, or not IS FTMI not equipped, not in service, or failed MIU is not equipped Mate NPC is not equipped NPC not equipped NPC not provisioned as DGA NPCTG not grown NPCTP is not grown No CBTYPE NPC equipped No DSP unit equipped Not enough DSPPs are equipped Protection MIU is not equipped Protection entity is unequipped Required FLI not equipped, not in service, or failed Required MIU not equipped, not in service, or failed

mmmm	*Explanation*
	Required MXR not equipped, not in service, or failed
	SYNC TB is not equipped
	Service MXR is not equipped
	Subject entity is not equipped
	Sync source NPC is not equipped
	TSI not eqd, not IS, or failed or inactive side TSI not eqd or not IS
	The MXR is not grown
	The pair MXR is not equipped
	Unit not equipped, not in service, or failed
	Test group unequipped
	Virtual SLC NPC not provisioned
ENFE	Cross-connect not consistent with feature package
	Software does not contain Enhanced CEPT feature
	Subject NPC does not support CEPT BER feature
ENIE	Option rr/m has not been set up on 2nd database
	Termination is not connected as indicated
	Two confs. were prev. connected or the concat. cause BRD-BBL loop
ENRE	Corresponding NPC for FROM virtual channel is not provisioned
	Corresponding NPC for TO virtual channel is not provisioned
	Corresponding NPC for virtual channel is not provisioned
	FROM NPC is not provisioned as DGA
	Illegal connectivity specified
	NPC not provisioned for CAS
	NPC not provisioned for NSA
	PMEM type no longer supported
	SMEM is a normal SMEM
	SSC circuit pack is still equipped; pull-out/remove SSC
	Subject entity is equipped
	TO NPC is not provisioned as DGA
ERLC	Attempt to remove DGA w/o INCL keyword or prior prot. sw. request
	Customer control or red circuit exists
	DGA protected; use INCL to remove, or unswitch protection

mmmm	*Explanation*
ICNV	PM scheduling report is already allowed for this entity
	PM scheduling report is already inhibited for this entity
	TS0 is crossconnected to TS0
	Bit value not allowed for NPC type
	Current error corrector pack type specified in command
	Current Hub id specified in command
	not allowed for clear 2MB
IDMS	Both FAC and PRIM values(keywords) are required
	INCL keyword needed to perform this command
	INCL must be specified for SRDC ckts
	SIDE must be specified for subrate NPC
	Some priority values required
	Unspecified L2 address
IDNC	FDL selected with width not 1
	Inconsistent or invalid circuit type for Nx64Kbit TA
	Old or new is a non-channelized type in a DS0 command
	One NPC is a non-channelized type and the other is not
	Some priority values not required
	TG width incompatible with circuit
	The two FADS entered are not associated with one another.
	Incompatible HUB feature types
	Inconsistent BCON width for test access
	Inconsistent HUB width for specified TG
	Invalid channel designation for BCON
	Not all FROM channels on same NPC
IDNV	A locally switched channel is specified as BBL, LEG, or BRD
	A subrate circuit pack is specified in the command line
	AIS entered for MONE/MONF/MONEF/SPLTA/SPLTB/SPLTAB
	AIS invalid for cross-connection specified
	AIS keyword incompatible with NPC type
	Adding two digroups from one bank on same DDC
	Alarm option and bank mode don't match
	All NPC(s) are either not valid or not grown

mmmm	*Explanation*
	Attempt to broadcast a locally switched channel
	Attempt to one way cross-connect a locally switched channel
	BER must not be less than 4 for Clear DS1
	Bad PRIM X'efgh values
	Bank id number not found
	CPR circuit pack specified in the command
	Can't Use LCN 0/LGN 0 - designated as a supervisory channel only
	Can't delete because not all associated NPCs of the RT are entered
	Command not allowed
	Conference first channel doesn't match input
	Conference port cannot be dropped out of conference by switch command
	Conference port is not in conference circuit
	Connectivity can not be specified for CEF unit
	Counting sequence and operational mode don't match
	Cross-connect a non Mode I channel to DCLU
	Cross-connect a non SLC channel to DCLU
	DGA and DGB must be specified together in the command
	DGA with NDL option is not provisioned with D4 or ESF framing format
	DGA/DGP of RT/DL Mode I must be assigned to one DDC
	DGC and DGD must be specified together in the command
	DGP designated to bank without data link
	Digroup name and bank id don't match
	Digroups from same bank are added to two different FTUs
	Digroups from same bank have different counting sequence
	Digroups from same bank have different modes
	Duplicate L2 address
	Duplicate ports specified
	ENQ/ACK flow control is supported only on Snider link
	Error in input
	Framing format, digroup name & operational mode don't match
	INCL not specified and at least one NPC In Service

mmmm	*Explanation*
	IU type NPC(s) cannot be provisioned for Minor Alarm
	IW option is not allowed for new type of Clear-DS1 NPC
	Inconsistent Signaling on CEPT NPCTGs
	Inconsistent channel range width
	Invalid CEPT NPC
	Invalid CFT code
	Invalid FPI value
	Invalid FROM channel number
	Invalid MIU/MXR type specified
	Invalid NPC addressing scheme specified
	Invalid SLC Mode-III channel number
	Invalid TC specification
	Invalid TO channel number
	Invalid channel 000 cross-connection specified
	Invalid channel 031 cross-connection specified
	Invalid channel number
	Invalid circuit type
	Invalid keyword(s) combination specified
	Invalid line number
	Invalid link number specified
	Invalid poll time
	Invalid switch request for DCLU
	Leg type mismatch
	MUX or TRB invalid for cross-connection specified
	Mode I RT/DL IDs don't match for DGA/DGP on same DDC
	NAM invalid for cross-connection specified
	NDL option is specified for DGA
	NDL option is used without DGA
	NPC containing channel 000 is invalid type.
	NPC is a DGP
	NPC is channelized type
	NPC is not part of a one-way connection
	NPC number and bank id don't match

mmmm	*Explanation*
	NPC number and digroup name don't match
	NPC parameter only valid with TU type TLI
	NPC type is not DS type
	NPC type option Y is invalid for SLC-96 NPC
	NPC used as a timing reference
	NPC(s) actual type incompatible with TYPE keyword and/or alarm type
	No OOS keyword is given for out-of-service NPC
	No PM data available
	No mapped circuit under test; emode/fmode can't be changed.
	Number of transmitting ports does not match existing conference
	OLD and NEW Data and Parity channels partially overlap
	OLD and NEW channels cannot be the same
	OLD data channel cannot be parity channel type
	Old and new are the same NPC in a DS1 command
	One-way circuit under test; emode can't be changed.
	Operation mode and digroup name don't match
	Option not programmable for this NPC type
	PWR/MISC alarm is specified to a digroup other than DGA
	Parameter only valid with PA, PB, or PC type NPCs
	RT-DCLU cross-connect with different channel number
	RT-DCLU cross-connect with different ids
	RTF keyword and the operation mode does not match
	RTF keyword is used without DGA
	Range entered without FRC keyword
	Range not allowed for circuit type
	SC invalid for cross-connection specified
	Selectable AIS not valid for specified NPC(s) type
	Side specified for non-duplicated NPC
	Signaling processing is not activated for the channel
	Superuser logged on
	TG East/West type inconsistent with each other or circuit
	TS0 specified with width not 1

mmmm	*Explanation*
	TS16 specified for CAS TG
	TS16 specified for test with width not 1
	The RT id entered is not a retrofit one
	The common bit(s) is(are) not set in both FAC & PRIM
	The facility parameter not programmable for specified x or z parameter
	The parameter specified does not match with the NPC type
	The specified parameter is not applicable to operation mode of the RT
	Trunk type is not allowed in the circuit specified
	Unmatched channel range
	Unmatched channel range involving SLC Mode III termination
	Unrunnable CFT code
	Using the 24th channel of a DMI NPC
	Using the 24th channel of a T1DM NPC
	Virtual circuit is not specified for X.25 link
	XON/XOFF flow control is supported only on Snider link
	ZBTSI option is only valid with the ESF mode
	Emode/fmode can't be changed under current test mode.
	x & z parameters on DSxyz are inconsistent
IDRG	Command did not execute for any entity specified in the command
	Ending channel is out of range
	First and Last NPCs are outside a module boundary
	First and Last NPCs are outside unit boundary
	Invalid FROM channel number range
	Invalid TO channel number range
	Invalid range for specified FROM NPC type
	Invalid range for specified NPC type
	Invalid range for specified TO NPC type
	NPC range crosses unit boundary
	OFFSET range is invalid
	Old and New channel on same NPC and within the range
	Only up to 4 historical data registers are allowed
	TG width too large for single NPCTG

mmmm	*Explanation*
	Threshold value is out of range
	Unit type (xyz) not supported
	Input channel out of range (SLC not supported)
IICM	Clear gateway test access disallowed.
	SRDC timeslots are allocated on this NPC
IIDT	AIS not entered for SPLTE/SPLTF/SPLTEF/LOOPE/LOOPF
	Database conference width does not match the range in input command
	Illegal BBL BBL combination
	Illegal BBL SYM combination
	Illegal BRD BRD combination
	Illegal BRD SYM combination
	Illegal LEG LEG combination
	Illegal SYM BBL combination
	Illegal SYM BRD combination
	Invalid change from previous mode
	Invalid change parameter combinations
	Invalid input BBL as fmd in ONE-WAY command
	Invalid input BBL in terminated TWOWAY/ONEWAY command
	Invalid input BRD as tmd in ONE-WAY command
	Invalid test mode for a one-way test session
	Invalid test mode for an unmapped test session
	Invalid use of CONV keyword
	NPC is a channelized NPC
	NPC is a non-channelized NPC
	NPC is not a F-end
	NPC is not a Facility Access Digroup
	NPC is not an E-end
	NPC type mismatch
	No NPC's out of service and OOS keyword used
	No RDLD or CUS circuits and INCL keyword used
	Report interval is not an integral number of accumulation interval
	TO side is not a DMB type NPC

mmmm	*Explanation*
	This NPC type does not allow unframed Clear-DS1
	Transmission parameters in command will not change existing settings
	Trunk conditioning is invalid
IIFM	Bad FAC value entered
	Exceeded depth limit of 6 on broadcast conference concatenation
	FMC cannot be cross-connected in this format
	Invalid FROM NPC type for AIS insertion
	Invalid NPC type for AIS insertion
	Invalid TO NPC type for AIS insertion
	Try to operate a ONE-WAY conference with a TWO-WAY input command
	Try to operate a TWO-WAY conference with an ONE-WAY input command
IPNV	Accumulation Interval field is missing
	Accumulation Interval field is not allowed
	FAC keyword is invalid for this feature
	Historical data can not be specified
	Interval is not valid/not available
	Invalid direction specified for NTST TLA/TLR
	Invalid parameter combination
	Invalid use of INCL keyword
	Level field is not allowed
	MONDAT keyword is invalid for this feature
	MONDAT set to ALL is not allowed
	MONTIM set to ALL is not allowed
	Mismatch between channel 0 crossconnect and keywords
	Monitored Date field is not allowed
	Monitored Time field is not allowed
	NPC is non-channelized
	NPC number out of range
	No PM data available
	Only 15MIN for accumulation interval is allowed
	Only DAILY for accumulation interval is allowed

mmmm	*Explanation*
	Only historical data can be specified
	Only one parameter is allowed
	PRIM keyword is invalid for this feature
	Scheduled reporting for this npc is inhibited
	Scheduling report could not be found
	The MONDAT and MONTIM parameters can not both be specified
	This NPC type does not allow Payload
NCON	No conditions
SAAL	Feature is active
	Manual Pending is Active
	PA NPC threshold already in allow mode
	Protection switching is already allowed
	The switch is allowed (not inhibited)
SAAS	All channels assigned, cannot be grown as NPCTG
	Another NPC is grown and added as this digroup
	BCON BBL has one or more legs under test
	Channel(s) is already registered
	Channels assigned, cannot be grown as test group
	Channels assigned, cannot be grown as test port
	Conference Port is currently registered to a different channel
	New bank id is an assigned one
	TG number previously assigned
	Termination is already assigned
	Termination is in process of being rolled
	The MIU is already equipped
	Channel already under test
	Channel part of a TP or TG
	Circuit contains mapped channels for HUB request
SAIN	Loop back inhibited for digroup
	No mapped slots on a tsi
	No unmapped slots on a bus
	PA NPC threshold already in inhibit mode
	Parity channel cannot be within the range of a DS0 command.

mmmm	*Explanation*
	Protection switching is already inhibited
	Subject entity is pested
	Termination is under test or is a test port or group
	The switch is already inhibited
	Can't change option, inhibition is active
SAIS	Both syncs are in-service
	CCN side s is in service
	CRO is still equipped
	Conference already exists
	DS3U NPC already In-Service
	DSPI is in service
	MIU is already in service
	Mate NPC (DGA/DGP) is in service
	NPC not IU/TI type
	Some TLIs are still equipped
	Some TSIs to degrow are in service
	Subject entity is in service
	TLI 3 or 4 still equipped
	Test group is not idle or frame is not In Service
	Test port is not idle or frame is not inservice
	The MMFG is already In-Service
	The MXR is in service
	The selected FLI is IS and Pested and at least 1 Service MXR is eqd
SAOP	RT's alarm exists
	This signal is already being sent
SAOS	A DMB on the Unit is OOS
	Both syncs are out-of-service
	CCB is out of service
	CCI is out of service
	CCN side s is out of service
	CCNI is out of service
	DSPI out-of-service

mmmm	*Explanation*
	ETSI is out of service
	FC out of service
	FLI is out of service
	FMT is out of service
	FTMI is out of service
	File has already been cleared
	Formatter (FMT) on active CCN side is Out-Of-Service
	IU/TI type NPC failed
	MIU is out of service
	MXR is out of service
	Mate CCN side is out of service
	Mate SYNC is out of service
	NPC out of service or failed
	Protection MIU is out of service
	Protection MXR is out of service
	Protection entity out of service or failed
	SYNC is out of service
	Service MIU is out of service
	Service MXR is out of service
	Subject entity is out of service
	Sync 0 is not in-service
	Sync 1 is not in-service
	The MMFG is Out Of Service
	The mate FLI is OOS and Protection MIU is equipped
	The mate FLI is OOS and Protection MXR is IS
	The mate FLI is OOS and at least one Service MXR is equipped
	The protection FLI is out of service or pested (TOPRTN option)
	The selected MIU associated with the NPC is Out-Of-Service
	The selected MXR associated with the NPC is Out-Of-Service
	The service FLI is out of service or pested (TOSRVC option)
	UC is out of service
SAPS	Frame ID is protected
	The Service MMFG is already under protection

mmmm	*Explanation*
	The protection FLI is already selected (TOPRTN option)
	Can't change option, protection switch is active
SAPV	Option LOCAL already exists
	Option REMOTE already exists
SARB	Exceeded limit of reports with accum. interval of 15 min. or less
	Exceeded maximum limit of PM reports
SARL	No FADs were activated by link n
	No test ports were activated by link n
SATF	Can't run test on active side
SAWS	An autonomous switch is in progress
	C-bit modify function is active
	C-bit operations are enabled
	Conference exists in a DMB
	Mapped slots exist on a tsi
	NPC already allocated as sync timing source
	NPC already grown as non-synchronization source
	NPC already has Equipment Loopback
	NPC is already grown and added as SLC digroup
	The Service MMFG is not under protection
	The service FLI is already selected (TOSRVC option)
SNAS	Connectivity contains unequipped units
SNIS	CPR is out of service
	Cannot clear journals for OOS unit
	DSPU unit controller is out of service
	NPC is OOS for a TGR command and OOS keyword not specified
	NPC unequipped, out of service or failed
	RT/DL has unrestored DGA
	Sync source NPC is not inservice
	TD on one(both) sync(s) is not equipped or not in-service
	Unit(s) OOS, and additional backup required
SNOS	In-service NPC change not allowed
	Subject PWR to be cleared is not failed
SNVS	(Timing Distributor) TLI is not equipped

mmmm *Explanation*

1 hr >= 24 hr for DM opt
15 min >= 24 hr for ERS opt
15 min >= 24 hr for SERS opt
15 min >= 24 hr for SLIP opt
15 min >= 24 hr for US opt
3 Timing Distributor type TLIs are equipped
A DMB mode was assigned to a FTU-type NPC on the input
A loopback is active on the FROM termination
A loopback is active on the TO termination
A user is already logged in on the link/vc
Active CCN side is out of service
Adding DL DGP forbidden for SLC 96 MD 1
Alarm bits cannot be passed through or inverted
All digroups not out of service
Another signal already active prevents this signal from being sent
Assignment of single priority to multiple SSPs
At least one UC is OOS or At least one UC is failed
At least one UC is not the correct type
Attempt to add to a null transmitting port
Attempt to remove a Service MIU which is under protection
Attention: preceding ccode 83 is an anomaly - see problem list
Autonomous loopback is active on DGA
Backup required before executing this command
Bad sync mode
Bad use of INCL, cannot override the current state of the conference
Bad use of INCL, cannot use keyword on conf.-to-conf. connection
Bit 3 provisioned for use as RAI3
Bit 4 provisioned for use as RAIS
Bit 4 provisioned for use as RBER
Bit 5 provisioned for use as SFI
Bit c not settable
Bits 3 through 8 are provisioned for Transmic 1G

mmmm	*Explanation*
	Boot in progress, can't service request
	Both ITS TG bundles must be on same TG193B card
	Both sides of CCN are OOS
	Broadcast unassigned channel/NPC in QRY,TO
	C-bit modify function is disabled
	CATP due to skipping continuity test for FMT
	CCB is inservice but failed
	CCI is inservice but failed
	CCI is not present
	CCNI is inservice but failed
	CPR in buffer overflow condition
	CRO type TLI (SSP portion not required)
	CUS flag doesn't match that of conference
	Can not create any more users
	Can not execute privileged command
	Can not perform DMB CHG on input direction A
	Can not perform DMB CHG on input direction B
	Can not perform DMB CHG on input direction F
	Can not perform DMB CHG on input direction G
	Can not perform DMB CHG on input direction L
	Can not perform DMB CHG on input direction T
	Can not remove Frame administrator
	Can not remove own link
	Can not use 12-th TP when NPCTP is in the T1DM or DMI mode
	Can't disconnect return leg unless entire conference disconnected
	Can't mount or unmount BOTH_MEM
	Can't mount or unmount PMEM
	Can't mount or unmount SMEM
	Can't mount or unmount password recovery card
	Can't perform DMB CHG because NTR flag set on FROM side
	Can't perform DMB CHG because NTR flag set on TO side
	Can’t RST MC CLR when a unit is equipped
	Can't start new session - previous session still verifying

mmmm *Explanation*

Change not valid
Change to T1DM digroup with cross-connect that is not TRSP
Change to non-ESF digroup with 16-state cross-connect
Channel has a FAR, which is within the range
Channel or NPC not bridged
Channel out of bound in a BCON/v.c
Channels and conference port do not match
Clock absent for XPC to loop back
Combination of bit g (b7) and h (b8) is invalid
Command and protocol are inconsistent
Command invalid while backup in progress
Command is Frame administrator (DAX) only.
Conference Port is already registered to the same group of channels
Conference is LPD: has no switchable return leg
Conference is NTR: has no switchable return leg
Conference port is currently connected
Conference port is not registered
Conversion leg is terminated
Cross-connect to CPR is required
Customer controlled circuit, INCL not entered
DB MP or units ram error
DB retrofit fail
DCTN conference channel cannot be rolled
DGA is not added
DGN on subject entity denied
DGP is protecting a primary digroup
DL ffff is used w/ operational mode other than Mode I
DMI combined with T1DM
DSPP not in service, or failed
DSPP pack FTMI Failed or Out of Service
DSPP pack NPC Failed or Out of Service
DSPP pack UC Failed or Out of Service

mmmm *Explanation*

Database is empty
Database is not empty
Database not loaded
Delete or change a leg from a conference that has no leg
Deny Clear-2MB for Alternate Maps
Deny SLC for Alternate maps
Deny SP Type NPCs for Alternate Maps
Deny non-channelized NPCs for Alternate Maps
Designated TG or circuit to be tested in process of being rolled
Different DSxyz types are used for DGA/DGP on same DDC for Mode I
Digroup is protected
Disable not allowed - supports another feature
ETSI cannot be initialized when ECCN side is OOS or inservice but pested
ETSI is inservice but failed
ETSI is not present
Entity can't be addressed in this configuration
FC is inservice but failed
FLI is inservice but failed
FMT is in service but failed
FPI on SMEM does not match one on PMEM
FRC specified for protection, and service MMFG is In Service
FROM is a two-way and no CONV specified
FROM is not a backbone leg
FTMI is PESTED
FTMI is in service but failed
FTMI type error
Feature deactivation would leave system with core software
Feature not enabled
File already exists
File doesn't exist/can't be accessed
File is being accessed
File is empty

mmmm	*Explanation*
	Firmware timing invalid for Transmic 1G NPC
	Flash Card is bad
	Flash Card is empty
	Flash Card is not present
	Frame is not in MCOND
	Frame time is not set
	Framed/Unframed clear 2Mbit/s NPC invalid for Automatic CRC-4
	Framed/Unframed clear 2Mbit/s NPC invalid for Firmware Timing
	Framed/Unframed clear 2Mbit/s NPC invalid for Transmic 1G, 2G
	G1 SMEM for SMEM->PMEM w/journals
	G4 to G4.1 retrofit failed
	Gateway test access not supported
	Hardware mismatch or not present
	INCL keyword needed when restricted Insertion Word specified
	IW is UMUX (18) but NPC not type DE4yz
	IW not allowed to be specified in Clear 2Mbit/s
	Illegal SSP type (not same as other SSPs)
	Illegal priority value
	Illegal test access mode for TS0
	Illegal test access mode for TS16
	Improper roll command sequence
	Inactive side NPC out of service and inactive side in service
	Incompatible types of NPCs on a circuit pack
	Incorrect language/addressing mode
	Incorrect number of parameters
	Incorrect or missing password
	Incorrect pack type in slot
	Initialization of application in progress, retry command later
	Input BRD (BBL) has same NPC and channel as BBL (BRD)
	Insufficient data for setting up a conference
	Integrated Test Set is currently active on TG
	Invalid NPC number specified
	Invalid PWR/MISC alarm level

mmmm	*Explanation*
	Invalid combination of "x" and "y" values
	Invalid combination of "x" and "z" values
	Invalid executable on card
	Invalid option,mailbox or flag
	ITS NPC Hardware Error
	ITS TG Already Generating
	ITS TG Already Monitoring
	ITS TG is Idle
	ITS TG Not Generating
	ITS TG Not Monitoring
	LEG mode was assigned to a DSPU-type NPC on the input
	LLB not initiated
	LPD invalid since existing conference is not already LPD
	Language "F" provisioned for this channel
	Language is not allowed
	Last link in service
	Line Loop Back is active
	Line format types are incompatible
	Link being used is not Link 1
	Logical conflicts found in the map
	Looped Circuit Access not allowed
	MP database not consistent with Configuration file
	Major/Minor BER threshold value is invalid for SLC NPCs
	Maj|Min BER threshold is 7, but not in T1DM or Fe mode
	Map/macro file write deferred until backup is completed
	Mapped parity channel(s) on new
	Mate RT/DL mode is different
	Mate sync pack denied command
	Maximum number of CPRs have already been grown for this unit
	Minor <= major for BER opt
	Minor >= major for COFA opt
	Minor >= major for SLIP opt
	Minor Slip threshold disabled before Major Slip threshold

mmmm *Explanation*

Mismatch between MXR and NPC types
Mismatch between service MXR and protection MXR types
New NPC already cross-connected or mapped channel(s) exist on New
NPC addressing scheme selected is not allowed in the configuration file
NPC as 12th test port can not change to DMI nor T1DM
NPC has active circuit
NPC has been designated as NPCTG
NPC has been designated as NPCTP
NPC invalid type
NPC is NPCTG and chan 24 is used in a TG; Can't change to T1DM or DMI
NPC is NPCTG, changing to CAS/NSA is not allowed
NPC is a Facility Access Digroup
NPC is a test port
NPC is not a NPCTG
NPC is not a NPCTP
NPC is not added
NPC is not designated for this NPCTP/NPCTG
NPC is still provisioned to provide sync timing
NPC not DA or TA type.
NPC not deleted
NPC not designated as sync timing source
NPC providing timing to inservice SSP
NPC type error
NPC type is inconsistent with FTMI type
NPC type option xyz is unassigned or invalid for feature package
NTR invalid since existing conference is not already NTR
New NPC same as existing one
New in CGA or PBA
No CBTYPE NPC capacity remaining
No DL digroups can be added until the associated RT bank is created

mmmm *Explanation*

No Facility Line Interface (FLI) is In Service
No SAFE alarm for DGP
No available timeslots on any inservice NPCS associated with FC/FMT
No edit session active
No equalization for CEPT FTMI
No macro is currently executing
No mapped channel on old
No protection switch is currently active
No signals active
No unmapped time slot
No user is logged in on the link/vc
No user/link needs to be changed
No zeros allowed for DAX privilege
Not Timing Extractor type TLI (not SSP)
Not a CRO TLI
Not a DACS II compatible Flash Card
Not enough DSPPs are in service
Not enough TSIs for CCB test
Not first channel in a BCON/virtual conf
Not valid for frame administrator
Number of DGPs on each unit is limited to 32
Number of SLC RT's on each unit is limited to 80
OLD termination is not mapped
Obsolete circuit type
Old and new channels have not been paired by a BCAST command.
One of the FAR end channels is being rolled
One of the far NPC(s) is SLC
One or more FADs could not be released
One or more test ports could not be released
One way unassigned channel/NPC in QRY,TO
Only one channel allowed to have this language
Option NOT leg can not appear with F, T, or B

mmmm *Explanation*

Option NOT leg is not a FTU leg
Option NOT leg is not in conference
Other FLI is OOS
Other NPC on this DDC not the same digroup for Mode I DGA/DGP
PDI Version number mismatch
PMEM and SMEM are different
PMEM and SMEM synchronization fail
PMEM error, boot from SMEM
PMEM not in service or not ready
PMEM not restored
Parity channel out of bound on new
Password recovery card is not READ-only
Point number mismatch
Priority values are same
Problem occurred while accessing BOTH_MEM
Problem occurred while accessing PMEM
Problem occurred while accessing SMEM or unformatted SMEM
Protection switch existing is autonomous
RCV continuity test won't be run: SYNC OOS or pested
RCV continuity test won't be run: at least one timeslot in use
RCV continuity test won't be run: no DMB timeslots available
RCV continuity test won’t be run: no available IS NPCS for FC/FMT
RDLD flag doesn't match that of conference
RTBC conference exists
Range overlapping between FROM and TO or between two TOs
Ranges of old and new do not match
Reading Feature Package Id from PMEM failed
Red circuit, INCL not entered
Release number mismatch
Report already exists
SLC 96 MD 1 RT DGP requires mate NPC to be unequipped
SMEM error, boot from PMEM

mmmm *Explanation*

SMEM is not present
SMEM unit is not restored
SR NPC was specified - not allowed
SSC Diagnostic Failure
SSP number is illegal
SSP number required
SSP type(options) same
SSP with 0 priority present
SSP with non 0 priority present
SYNC is inservice but failed
Signaling state of the trunk failed for the channel
Skip error summary since adjacent pack not in service or pested
Software Identification Block failed comparison
Software Identification Block is not readable
Some associated NPCs are equipped
Some circuits not activated,cleared or pictured
Source does not contain requested information
Specified width does not match existing conference width
Stratum not allowed
Sync architecture different
Sync architecture is same
Sync mode is same
Sync stratum is same
Syncs are equipped
System macro/map space is full
T1DM or DMI mode and channel 24 is connected
TB type in hardware mismatches DB
Termination is a test port
Termination is protected (RDLD)
Termination is under customer control (CUS)
Termination is under test
Test ports must be on CAS
Test session already exists

mmmm *Explanation*

Testport/testgroup channel cannot be rolled
TG in TSM ON mode
TG not in TSG ON mode
TLA/TLR invalid with ITS test groups
TO is a part of the same conference as a previous TO
TO is already the return leg
TO is not a leg of this/any conference
TO is the backbone leg of a conference
TO side of two-way to be converted is not an FTU NPC
The INCL keyword is needed for DGA
The MMFG is protected
The NDL options are different for DGA's on the same DDC for Mode I
The NPC of VC BBL leg doesn't match that in the input command
The NPC to delete has not been previously added to map
The OLD or NEW NPC is already being rolled.
The associated MMFG is under protection (for Service MIUs)
The associated MXR is In-Service but pested
The conference does not exist
The first channel of VC BBL leg doesn’t match that in the input cmd
The first channel of VC BRD leg doesn’t match that in the input cmd
The input BRD leg is not in VC
The map is not valid
The mode of the RT is not applicable
The reference map does not exist
The requested digroup is carrying service
The selected MIU associated with the NPC is In-Service but failed
The selected MXR associated with the NPC is In-Service but failed
The session is terminated due to maintenance operation
The total number of receiving ports specified exceeds the max.
There are no INS MXRs to run test on
Timeslot channel numbering not allowed with CAS
Timing Extractor type TLI (need SSP info)

mmmm *Explanation*

Timing Extractor type TLIs are present
Transmic 1G NPC designated as SYNC source invalid
Transmitting port cannot be dropped
Tried to disconnect a nonexisting VC
Trunk conditioning doesn't match that of conference
Try to add a BBL to VC,but the VC already has backbone
Try to delete a BBL leg from VC;however, VC has no BBL leg
Try to delete a BRD leg from VC; however, VC has no BRD leg
Trying to add a BBL leg to a conference set up as SYM
Trying to add a BBL to a DMB conference that already has one
Trying to add a SYM leg to conference set up as broadcast
Trying to add a broadcast leg to a conference set up as SYM
Trying to add or delete a leg when a conference is under test
Trying to change in NTR direction
Trying to change level in on BBL leg
Trying to change level out on BRD leg
TS0 connected to nonTS0 in Mode 2 - "a" should be "-" or "b"
Two digroups from same bank added to different FTMIs
UC is in service but failed
Unable to verify Configuration file since MP DB not loaded
Unassigned operational mode
Unframed clear 2Mbit/s NPC invalid for Bit 4 used as RA IS/RBER
Unframed clear 2Mbit/s NPC invalid for TS0 processing
Unit is not FTU type
Unit type error
Unmapped channel(s) on old
Unpesting error registers for subj. entity failed
Use of this NPC is RESERVED for SLC 96 MD 1
User does not exist
User has been created
User has logged in somewhere
User is not logged in
User logged off during session

mmmm	*Explanation*
	User login-id is not DAX
	User macro/map space is full
	User quit the menu
	User still owns files
	Width of existing two way does not match conference width
	Write to CPR failed
	Writing Feature Package Id to PMEM failed
	Wrong SSP type(Timing Extractor type)
	Wrong TLI type
	Wrong TLI type (need CRO grow command)
	X option is illegal
	XMIT continuity test won't be run: CFT code specified
	XMIT continuity test won't be run: no XMIT timeslots available
	Y option is illegal
	Z option is illegal
	Channel is OCON in opposite direction
	Circuit already terminated
	Circuit not terminated
	Hub id not set when MJU pack grown
	Invalid mode for TLA/TLR
	Invalid test access mode
SOSF	All CBTYPE NPCs out of service or failed
	DSPU unit controller is failed
SPFA	No protection is available for the Service MMFG
	Protection switch process failed
SPSW	The Protection MMFG is selected, and auto. switchback is unavailable
	The protection MMFG is serving another facility
SROF	(NPC) Hardware mismatch
	BOOT on subject entity failed
	CCN denied request
	Can't lock or unlock ram database
	Circuits TCONed itself cannot be UTST

mmmm	*Explanation*
	DB can't get the slave mail box
	DB can't send or receive mail
	DGN on subject entity failed
	Failed to boot CI
	Failed to boot CONF file
	Failed to boot DB
	Failed to boot journal--recurrence indicates database corruption
	Failed to boot subject CCN side
	Failed to boot unit
	Failed to switch SYNC side
	General boot failure (vanilla flavor)
	IU/TI type NPC
	MIU is failed
	MXR is failed
	Mismatch between MXR and MIU HDW types
	NPC Failed or Out of Service
	No Memory Backup Has Been Scheduled
	None of the designated NPCTG(s) are equipped
	None of the designated TG(s) are equipped
	PMEM verification failed
	Read/write eeprom error
	RST failed to boot DB
	RST failed to boot program
	SSC software out of date
	Sync not completely reset
	Sync pack denied command
	Syncs failed to cross couple
	The MIU boot failed
	The MIU diagnostics failed
	The MXR boot failed
	The MXR diagnostics failed
	Unit 1 denied request
	Unit 2 denied request

mmmm	*Explanation*
	Unit 3 denied request
	Unit 4 denied request
	Unit 5 denied request
	Unit 6 denied request
	Wrong MXR type grown for this MIU
SRTN	Test Port release failed
	Test group release failed
SWFA	Active CCN side not IS or failed or pested or hardware OOS
	Boot TLI failed
	Checksums verification failed
	DB PMEM error OP-CL-RD-WR-SK
	DB SMEM error OP-CL-RD-WR-SK
	DSPI failed
	Data link failed
	Device failed to format
	Device failed to initialize
	Failed to lock sync to timing reference
	Far end failed to respond
	Hardware database mismatch
	MXR LOS with unselected FLI
	Selected FLI has LOC with at least one inservice MXR
	Sync is not configured yet
	Unselected FLI has LOS with at least one inservice MXR

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