Lucent Technologies
Bell Labs Innovations

DACS II
Release 8.2.3 MML
1.544 Mb/s Interface

Quick Reference Guide

365-353-233
Issue 1
February 1998

Copyright © 1999 Lucent Technologies
All Rights Reserved
Printed in U.S.A

Notice

Every effort was made to ensure that the information in this document was complete and accurate at the time of printing. However, information is subject to change.

Mandatory Information

Security Statement

In rare instances, unauthorized individuals make connections to the telecommunications network through the use of remote access features. In such event, applicable tariffs require that the customer pay all network charges for traffic. Lucent Technologies cannot be responsible for such charges, and will not make any allowance or give any credit for charges that result from unauthorized access.

Acknowledgements

This document was developed by the Lucent Technologies Customer Training and Information Products Organization.

Documentation Ordering Information

The ordering number for this document is Lucent Technologies 365-353-233. To order this document, call the Lucent Technologies Customer Information Center in Indianapolis, Indiana, on 1-888-582-3688. For more ordering information, refer to "How to Order Documentation" in the section "About this Document."

Technical Support Telephone Number

The Lucent Technologies Regional Technical Assistance Center (RTAC) provides a technical assistance telephone number which is staffed 24 hours a day. For technical assistance, simply call 1-800-225-RTAC.

Documentation Support Telephone Number

Lucent Technologies provides a telephone number for you to report errors or to ask questions about the information in this document. The support telephone numbers are:

Outside North Carolina - 1-800-334-0404
Inside North Carolina - 1-910-727-6681.

Developed by The Lucent Technologies Customer Training & Information Products Organization

How Are We Doing?

Document Title: DACS II Release 8.2.3 MML 1.544 Mb/s Interface Quick Reference Guide

Document No.: 365-353-233

Issue 1 Date: February 1998

Lucent Technologies welcomes your feedback on this document.

1. Please rate the effectiveness of this document in the following areas:

	Excellent	Good	Fair	Poor	Not Applicable
Ease of Use					////////////////////
Clarity					////////////////////
Completeness					////////////////////
Accuracy					////////////////////
Organization					////////////////////
Appearance					////////////////////
Examples					
Illustrations					
Overall Satisfaction					////////////////////

2. Feel free to write any comments below or on an attached sheet.

_____

_____

_____

_____

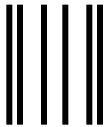
If we may contact you concerning your comments, please complete the following:

Name: _____ Telephone Number: _____

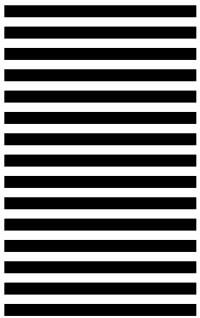
Company/Organization: _____ Date: _____

Address: _____

When you have completed this form, please return to the address on the back or Fax to: 910-727-3043.



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



Lucent Technologies
Bell Labs Innovations

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 1999 GREENSBORO, N.C.

POSTAGE WILL BE PAID BY ADDRESSEE

DOCUMENTATION SERVICES
2400 Reynolda Road
Winston-Salem, NC 27199-2029

Contents

Contents

Contents

About This Document

Purpose

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

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.

Before you use this document, you should have completed the DACS II Operation and Maintenance course (TR3521). If you were not able to take the 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*.

Contents

- **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.

- **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.

Conventions Used

This manual uses special fonts for the user to differentiate computer input/output. The **`constant width 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

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.

- DACS II Release 8.2.3 Operation and Maintenance Manuals:
  - 365-353-221 (PDS)
  - 365-353-231 (MML)
  - 365-353-241 (PDS 2.048-Mb/s Interface)
  - 365-353-251 (MML 2.048-Mb/s Interface)

  Audience: End-user maintenance personnel

  Contents: Procedures to operate and maintain the DACS II.
- DACS II Release 8.2.3 Command and Message Manuals:
  - 365-353-222 (PDS)
  - 365-353-232 (MML)
  - 365-353-242 (PDS 2.048-Mb/s Interface)
  - 365-353-252 (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.
- DACS II Release 8.2.3 Quick Reference Guides:
  - 365-353-223 (PDS)
  - 365-353-233 (MML)
  - 365-353-243 (PDS 2.048-Mb/s)
  - 365-353-253 (MML 2.048-Mb/s)

  Audience: End-user maintenance personnel

  Content: Abbreviated list of system commands and parameters.

- DACS II Release 8.2.3 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.

- 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.

- 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.

- 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.

How to Order Documentation

To order additional copies of this document, send or call in an order as follows:

- To order by Mail:

  Lucent Technologies
  Customer Information Center
  Attention: Order Entry Section
  2855 N. Franklin Road
  P. O. Box 19901
  Indianapolis, IN 46219

- To order by Telephone (Monday through Friday);

  Within the United States of America:
  1-888-LUCENT-8 (7:30 a.m. to 6:30 p.m. EST)
  (1-888-582-3688)

  FAX within the United States of America:
  1-317-322-6484

  Australia and all European countries:
  Toll 317-322-6416

  Far East, North America, and other:
  Toll 317-322-6646

  FAX for all international:
  Toll 317-322-6699

Regional Bell Operating Companies and Bell Operating Companies must process orders through their company documentation coordinator.

For commercial customers, a check, money order, purchase order number, or charge card number (*VISA** bank card, *American Express*† credit card services, or *Master Card*‡ bank card) is required with all orders. Checks must be made payable to Lucent Technologies.

Lucent Technologies entities should use Form IND 1-80.80 FA, available through the Customer Information Center.

One-time orders include a binder (if applicable) and the document contents for the current issue in effect at the time of order. After placing a one-time order, you can request a standing order for any document revisions *of that software release*. Documents for new software releases do *not* go to standing-order customers. You will only get those documents if you order the new software release.

* Registered trademark of VISA International Service Association

† Registered trademark of American Express Company

‡ Registered trademark of Mastercard International Incorporated

How to Comment on This Document

A feedback form is located at the beginning of this publication, immediately after the title page. Please fill out the feedback form and return it (postage free) to the address on the back.

If the feedback form is missing, send comment on this publication to:

Lucent Technologies
DACS II Documentation Coordinator
Attn: Tabatha Wright
Room 1B-320
101 Crawfords Corner Road
Holmdel, NJ 07733-3030 USA

Electronic Documentation

Documentation for DACS II 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.

CD-ROM is available by annual subscription (on standing order).

- To order, call your Technical Information Resource Manager, your Lucent Technologies Account Executive, or the Lucent Technologies Customer Information Center (1-888-582-3688).
- For pricing information, contact your Lucent Technologies Network Systems Account Executive or the Lucent Technologies Customer Information Center (1-888-582-3688).
- For technical information, call Lucent Technologies Documentation Support (1-800-334-0404).

Link/Login/Logoff Commands

1

[I.38301] Change User Password

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)

[I.36101] Add User

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.

[I.37101] Delete User

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

[I.36007] Add TABS Link Parameters

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

[I.36003] Add Link, X.25, Protocol, Data Link, Layer Parameters

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

[I.36001] Add Link, Protocol, Baud

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];

[I.36005] Add X.25 Link Parameters

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];

[I.39001] Log On To DACS II

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)

[I.39101] Log Off User or Link

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

[I.38401] Change User/Link Screening

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

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

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

[I.31211] Provision a Unit

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];

[I.31331] Provision Digital Signal Processing Unit NPC

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

[I.31351] Provision Digital Signal Processing Unit NPC

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

Caution 1: 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. 32341 (DISC-EQPT::NPC).

Caution 2: 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."

[I.31371] Provision NPC Type DS

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];

[I.31341] Provision ANSI NPC

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}];

[I.31352] Provision NPC

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}];

[I.31401] Provision Test-Access Group NPC

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

[I.31381] Provision Test Port NPC

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

[I.31101] Provision Synchronizer Time Base

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

[I.31111] Provision Clock Reference Oscillator

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

[I.31121] Provision Synchronizer Timing Link Interface

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

[I.31421] Provision Test-Access Group

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

[I.31411] Provision Test Port

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

[I.31321] Provision Facility Terminating Module Interface

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

[I.31501] Provision Multiplexer Interface Unit

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

[I.31511] Provision Multiplexer

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

[I.32341] Deprovision NPC

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

[I.32401] Deprovision Test-Access Group NPC

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

[I.32381] Deprovision Test Port NPC

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

[I.32101] Deprovision Synchronizer Time Base

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

[I.32121] Deprovision Synchronizer Timing Link Interface

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

[I.32421] Deprovision Test-Access Group

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

[I.32411] Deprovision Test Port

```
DISC-EQPT::TP-kk;
```

[I.32211] Deprovision Unit

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

[I.32321] Deprovision Facility Terminating Module Interface

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

[I.32511] Deprovision Multiplexer Interface Unit

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

[I.32501] Deprovision Multiplexer

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

[I.27002] Test Port Release

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

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

```
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;
```

[I.36021] Add Network Processing Circuit

```
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]};
```

[I.30101] Provision Frame

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

[I.35011] Configure Synchronizer

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

[I.35311] Inhibit Switch MMFG

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

[I.35021] Configure Frame

INIT-SYS::FRAME;

[I.26141] Facility Loopback Activate

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

[I.28101] Facility Test Signal Activate

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

[I.26151] Facility Loopback Release

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

[I.28201] Facility Test Signal Deactivate

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

[I.33401] Remove Facility Line Interface

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

[I.33411] Remove Formatter

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

[I.33431] Remove Multiplexer Interface Unit

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

[I.33421] Remove MMFG

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

[I.34401] Restore Facility Line Interface

RST-EQPT::UNIT-[q]q::FLI-k;

[I.34411] Restore Formatter

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

[I.34431] Restore Multiplexer Interface Unit

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

[I.34421] Restore MMFG

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

Performance Monitoring Commands

3

[I.51171] Allow DS1 Performance Monitoring Report

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

[I.51161] Inhibit DS1 Performance Monitoring Report

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

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

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

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

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

[I.56051] Clear Facility Performance Parameters

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

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

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

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

```
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];
```

[I.51071] Retrieve Performance Monitoring Report Schedule

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

[I.56091] Query Performance Monitoring Data for DA, TA, and PA Type NPCs

```
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];
```

[I.51141] Schedule DS1 Performance Monitoring Report

```
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]]];
```

[I.51101] Utilities, Alarm Reporting

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

Cross-Connect Commands

4

[I.13001] Broadcast Cross-Connections

```
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];
```

[I.13002] Broadcast Cross-Connection

```
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];
```

[I.13011] Broadcast Cross-Connection

```
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}];
```

[I.13021] Broadcast Cross-Connection

```
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}];
```

[I.11101] One Way Cross-Connections

```
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];
```

[I.11121] One Way Cross-Connections

```
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}];
```

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

```
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];
```

[I.11051] Two-Way Cross-Connections

```
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}];
```

[I.11001] Two-Way Cross-Connection

```
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];
```

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

```
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}];
```

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

```
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];
```

[I.15201] Broadcast Disconnection

```
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];
```

[I.15211] Broadcast Disconnection

```
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];
```

[I.15221] Broadcast Disconnection

```
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];
```

[I.15231] Broadcast Disconnection

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

[I.15102] One-Way Multipoint Disconnections

```
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];
```

[I.15101] One-Way Disconnect

```
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];
```

[I.15111] One-Way Disconnect

```
DISC-CRS1-T1::[s]abc,[t]ghi::[INCL]:[OOS]:[PRIOUT];
DISC-CRS1-T1::uv-m-np,wx-k-qr::[INCL]:[OOS]:[PRIOUT];
```

[I.15002] Two-Way Disconnections

```
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];
```

[I.15001] Disconnections, Cross-Connect Circuits

```
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];
```

[I.15011] Two-Way Disconnection

```
DISC-CRS-T1::[s]abc,[t]ghi::[INCL]:[OOS]:[PRIOUT];
DISC-CRS-T1::uv-m-np,wx-k-qr::[INCL]:[OOS]:[PRIOUT];
```

[I.14001] Alternate Cross-Connections

```
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

[I.39311] Stop Macro

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

[I.19051] Delete Lines From Macro

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

[I.37201] Delete Macro

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

[I.37001] Edit Delete Map

```
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]};
```

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

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

[I.38501] Change Macro Space

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

[I.19031] Create Picture Alternate Map

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

[I.39301] Execute Macro

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

[I.39201] Activate Alternate Maps

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

[I.19071] Query Line Number

```
LINE;
```

[I.19061] List Macro Contents

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

[I.19091] Move Macro Lines

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

[I.19081] Save Component Commands

```
SAVE;
```

Roll Commands

6

[I.14021] DS0 Circuit Roll - Bridge Command

```
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];
```

[I.14061] Facility Roll - Bridge Command

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

[I.14041] DS0 Circuit Roll - Disconnect Command

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

[I.14081] Facility Roll - Disconnect Command

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

[I.35001] Configure Digroup Circuits

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

[I.14031] DS0 Circuit Roll- Roll Command

```
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];
```

[I.14071] Facility Roll - Roll Command

```
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

[I.18001] Change Circuit Parameters

```
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];
```

[I.18011] Change Switch, TOX

```
CHG-RPATH-T1::[s]ghi[&[t]jkl][&[v]mno][...]::[INCL];
CHG-RPATH-T1::uv-m-np[&wx-k-qr][&ed-h-fg][...]::[INCL];
```

[I.38101] Change Connectivity

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

[I.19581] Change Subrate Cross-Connection

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

[I.19591] Change Subrate Cross-Connection

```
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;
```

[I.19501] Change Subrate Established Channel

```
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];
```

[I.38201] Change/Set Options

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

[I.38221] Change NPC Options

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

[I.38281] Change NPC AIS Alarm Option

```
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}};
```

[I.38211] Change NPC Type

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

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

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

[I.38271] Change DS3U NPC Type

```
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]];
```

[I.38324] Change NPC Frame-Word Setting

```
ED-PRMTR-EQPT::NPC-[s]abc[&&-[t]def]::NFS-abcdefghi;
ED-PRMTR-EQPT::NPC-uv-m-np[&&&-uv-k-qr]::NFS-abcdefghi;
```

[I.38321] Change NPC Time Slot Zero

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

[I.38323] Change Time Slot Zero Monitor

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

[I.38241] Change Options

```
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...];
```

[I.38351] Change Bank Number

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

[I.38481] Change RT/DL

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

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

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

[I.35013] Configure Synchronizer

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

[I.35012] Configure Synchronizer Stratum

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

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

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]]];

[I.38231] Change Type, Options

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

[I.38111] Change FTMI Equalization

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

[I.38261] Change Subrate Error Correction Location

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

[I.38251] Change Hub Identification

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

[I.17001] Change Cross-Connect Termination Status

```
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];
```

[I.17002] Change Circuit Parameters

```
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];
```

[I.17011] Change Circuit Parameters

```
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];
```

[I.38601] Change DS3 Parameters

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

[I.38611] Change Unprotected Alarm Setting

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

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

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

[I.19561] Change Terminate and Leave

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;

[I.19551] Change Subrate Terminate and Leave

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

Remove Commands

8

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

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

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

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

[I.33251] Remove Clock Control Interface

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

[I.33201] Remove Cross-Connect Network Interface

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

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

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

[I.33261] Remove ETSI

RMV-EQPT::ETSI-sqq;

[I.33271] Remove ETSIS All

RMV-EQPT::ETSIS,ECCN-s;

[I.33011] Remove Link

RMV-EQPT::LINK-j;

[I.33001] Remove Main Controller

RMV-EQPT::MC;

[I.33351] Remove NPCs

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

[I.33211] Remove PMEM or SMEM

RMV-EQPT::{PMEM|SMEM};

[I.33481] Remove RT/DL

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

[I.33101] Remove Synchronizer

RMV-EQPT::SYNC-a;

[I.33121] Remove Synchronizer's TLI or SSP

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

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

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

[I.33221] Remove Time Slot Interchange

RMV-EQPT::TSI-sft;

[I.33331] Remove Unit Format Converter

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

[I.33321] Remove FTMI or DSPI

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

[I.33311] Remove Unit Controller

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

Restore Commands

9

[I.34231] Restore TSI That Connects Units (Non-CEF Only)

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

[I.34202] Restore Cross-Connect Buffer

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

[I.34251] Restore Control and Clock Interface

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

[I.34201] Restore Cross-Connect Network Interface

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

[I.34261] Restore Expanded Time Slot Interchanger

```
RST-EQPT::ETSI-sqq;
```

[I.34271] Restore All ETSIS

RST-EQPT::ETSIS,ECCN-s;

[I.34011] Restore Administrative Link

RST-EQPT::LINK-j;

[I.34001] Restore Main Controller

For Normal Operations:

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

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

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

[I.34351] Restore NPCs

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

[I.34211] Restore PMEM and/or SMEM

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

[I.34481] Restore RT/DL

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

[I.34101] Restore Synchronizer

RST-EQPT::SYNC-a;

[I.34121] Restore Synchronizer's Timing Link Interface

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

[I.34111] Restore Clock Reference Oscillator

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

[I.34221] Restore Time Slot Interchange

RST-EQPT::TSI-sft;

[I.34241] Restore Time Slot Interchanges

RST-EQPT::TSIS,CCN-s;

[I.34331] Restore Unit

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

[I.34321] Restore FTMI or DSPI

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

[I.34311] Restore Unit Controller

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

Subrate Commands

10

[I.19661] Subrate Test Access

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

[I.19221] Subrate Cross-Connection

```
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];
```

[I.19321] Subrate Terminated Cross-Connection

```
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;
```

[I.19201] Subrate Cross-Connection

```
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];
```

[I.19211] Subrate Cross-Connection

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];
```

[I.19301] Subrate Terminated Cross-Connection

```
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;
```

[I.19311] Subrate Terminated Cross-Connection

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;
```

[I.19601] Subrate Test Access

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

[I.19621] Subrate Test Access

```
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];
```

[I.19631] Subrate Split Test Access

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

[I.19651] Subrate Test Access Split

```
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];
```

[I.19101] Subrate Establish Channel

```
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]}];
```

[I.19111] Subrate Establish Channel

```
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]}];
```

[I.19421] Subrate Disconnection

```
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>];
```

[I.19431] Subrate Disconnection

```
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];
```

[I.19401] Subrate Disconnection

```
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];
```

[I.19411] Subrate Disconnection

```
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];
```

[I.19671] Subrate Test Access

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

[I.19151] Subrate Disestablish Channel

```
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

[I.26101] Two-Way Test Access Line Loopback

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

[I.20101] Non-Channelized Test, Monitor, Split, Loop

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

[I.21011] Two-Way Test Access Monitor Test Port

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

[I.23001] Two-Way Test Access

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

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

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

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

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

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

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

[I.19626] Change Test Access Time Slot

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

[I.19656] Change Subrate Test Access Split

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

[I.25101] Two-Way Test Access

```
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];
```

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

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

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

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

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

```
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>];
```

[I.20031] Non-Channelized Test Hub

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

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

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

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

```
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;
```

[I.20001] Non-Channelized Test Access (Monitor, Split, or Loop)

```
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];
```

[I.27001] Two-Way Test Access

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

[I.25501] Two-Way Test Access

```
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];
```

[I.27021] Nx64 kbit/s Two-Way Test Access, Test-Access Group Release

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

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

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

[I.20202] Non-Channelized Test NPC Release

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

[I.20201] Non-Channelized Test NPC Release

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

[I.19681] Disconnect Test Access Time Slot

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

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

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

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

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

[I.19681] Disconnect Test Access Time Slot

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

[I.29001] Looped Test Access

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

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

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

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

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

[I.20301] Non-Channelized Loop Test Access Facility

OPR-LPBK-T1::[s]abc::LPBKT:[INCL];
OPR-LPBK-T1::uv-m-np::LPBKT:[INCL];

[I.26131] Two-Way Test Access Line Loopback

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

Troubleshooting Commands

12

[I.41211] Diagnose Cross-Connect Buffer

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

[I.41251] Diagnostics, CCI and BT Packs

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

[I.41201] Diagnose CCNI

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

[I.41031] Diagnose Communications Interface

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

[I.41261] Diagnose ETSI

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

[I.41271] Diagnose All ETSIs on ECCN Side

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

[I.41011] Diagnose Link

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

[I.41001] Diagnose Main Controller

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

[I.41021] Diagnose Main Processor

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

[I.41361] Diagnose Network Processing Circuits

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

[I.41351] Diagnose NPC

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

[I.41051] Diagnose Memory Card

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

[I.41101] Diagnose Synchronizer

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

[I.41111] Diagnose Synchronizer

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

[I.41121] Diagnose Synchronizer Timing Link Interface

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

[I.41241] Diagnose Time Slot Interchanges

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

[I.41232] Diagnose Time Slot Interchanges

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

[I.41221] Diagnose Time Slot Interchange

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

[I.41341] Diagnose DSPU

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

[I.41331] Diagnose Format Converter

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

[I.41401] Diagnose FLI

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

[I.41411] Diagnose FMT

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

[I.41321] Diagnose Facility Terminating Module Interface

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

[I.41431] Diagnose MIU

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

[I.41421] Diagnose MXR

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

[I.41311] Diagnose Unit On UC

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

[I.56052] Clear Power Supply or Backup Failure

INIT-REG::PWR-pp:;

[I.51081] Utility Recover Password

RST-PASSWD;

[I.53111] Utility Query Alarms

RTRV-ALM-EQPT:<xy>;

[I.53151] Utility Query Alarms

RTRV-ALM-EQPT::::DBASE;

[I.81001] Query Facility Alarms

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

[I.53141] Utility Query Alarms

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

[I.56331] Query DS3 Alarms

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

[I.52111] Utility Query Broadcast

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

[I.52101] Query Broadcast All

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

[I.52121] Utility Query Broadcast From

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

[I.53031] Utility Query Equipment Connectivity

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

[I.53121] Utility Query Circuit Status, NPC

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

[I.52011] Query Partial Cross-Connect Map

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

[I.52031] Query Full Cross-Connect Map

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

[I.52311] Utility Query RTMAP, DLMAP

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

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

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

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

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

[I.56501] Utility Query Framing Status of Subrate Multiplexor

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

[I.51121] Query Feature Package

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

[I.51031] Query Date

```
RTRV-HDR;
```

[I.51041] Utility Query Who

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

[I.56401] Utility Query Location

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

[I.55011] Query Software/Hardware Error Recovery

```
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>];
```

[I.54121] Utility Query Macro

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

[I.54131] Utility Query List Macro

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

[I.54101] Utility Query List Map

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

[I.54111] Utility Query NPC Map

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

[I.51001] Retrieve Memory Status

```
RTRV-MEMSTAT;
```

[I.53051] Utility Query Options NPCs

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

[I.51151] Query DS1 Performance Monitoring Report Schedule

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

[I.52581] Utility Query Load

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

[I.56031] Utility Query All

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

[I.56021] Utility Query Alarm Option, AIS

```
RTRV-PRMTR-EQPT::NPC-[s]abc[&&-[v]ghi]::ALMOPT:AIS;
RTRV-PRMTR-EQPT::NPC-uv-m-np[&&&-wx-k-qr]::ALMOPT:AIS;
```

[I.56041] Query Network Processing Circuit Parameter

```
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];
```

[I.52321] Utility Query SCDG

```
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}];
```

[I.55113] Query Link Status and Protocol

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

[I.54211] Query Macro Attributes

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

[I.54221] Utility Query Macro/Map Space

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

[I.54201] Utility Query Map

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

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

[I.51091] Utility Query Configure

RTRV-PRMTR-NE;

[I.51511] Query Error Correction Location

RTRV-PRMTR-NE::::ECLOC;

[I.51501] Utility Query Hub Identifier

RTRV-PRMTR-NE::::HUBID;

[I.51131] Utility Query Sequence

RTRV-PRMTR-SQN;

[I.52051] Utility Query From

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

[I.52211] Query Channel Marks

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

[I.52601] Query Trunk Signaling Conversion State

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

[I.52041] Query Destination Cross-Connect

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

[I.52071] Utility Query From

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

[I.52201] Utility Query Markings

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

[I.52061] Non-Channelized Utility Query To

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

[I.53231] Query DS3 Line Build Out

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

[I.53221] Utility Query DS3 Bit Error Rate

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

[I.52521] Query Subrate Cross-Connect

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

[I.54001] Query User|link Screening Option

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

[I.54011] Query Log

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

[I.55401] Utility Query Error Source Register

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

[I.55411] Query ECCN Error Source Register

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

[I.55111] Query Error Source Register Main Processor

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

[I.55601] Utility Query ESR for FTU or Subrate NPC

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

[I.55201] Utility Query Synchronizer

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

[I.55321] Utility Query SSP

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

[I.55311] Utility Query Timing Link Interface

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

[I.55531] Query Error Source Register

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

[I.55501] Utility Query Error Source Register

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

[I.55521] Query Error Source Register

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

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

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

[I.55811] Query Error Source Register Formatter

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

[I.55511] Query Error Source Register FTMI

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

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

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

[I.55821] Query Error Source Register Multiplexer

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

[I.55181] Query Cross-Connect Status Bus

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

[I.55191] Utility Query Status Register

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

[I.52081] Utility Query Roll DS0

```
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]};
```

[I.52091] Utility Query Roll DS1

```
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]};
```

[I.53104] Query All Common Equipment

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

[I.53109] Utility Query Equipage, Common

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

[I.53105] Utility Query Status Common Equipment

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

[I.54340] Utility Query State Alarm Cut Off

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

[I.53022] Utility Query Equipage of ETSIs

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

[I.53201] Query Equipped Multiplexer Interface Units

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

[I.53211] Utility Query Equipped Multiplexers in DS3 Unit

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

[I.56311] Utility Query State

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

[I.56314] Utility Query NPC State

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

[I.53041] Query Equipped NPCs

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

[I.53131] Utility Query Loopback

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

[I.53161] Query ANSI NPC Test Signal

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

[I.56321] Query NPC Time Slot Zero

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

[I.56323] Query Time Slot Zero Monitor

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

[I.56301] Utility Query Synchronizer State

RTRV-STATE-EQPT::SYNC;

[I.53001] Utility Query Synchronizer Provisioning

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

[I.53021] Utility Query Equipped TSIs

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

[I.53101] Query All

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

[I.53011] Utility Query Equipage Status

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

[I.53108] Utility Query Entity Equipage

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

[I.53071] Utility Query Equalization, Impedance

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

[I.53181] Utility Query Hybrid DS3 Loopback

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

[I.53103] Utility Query Status of Entities/Equipment

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

[I.56511] Query Unit Protection State

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

[I.56361] Query State Unit DS3

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

[I.52501] Utility Query Subrate Channels

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

[I.53091] Utility Query Test-Access Group NPC

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

[I.53081] Utility Query Test-Access Group

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

[I.53061] Utility Query Test Ports

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

Miscellaneous Commands

13

[I.55711] Abort

```
ABT-CMD;
```

[I.35301] Allow Switch of MMFG

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

[I.39411] Protection Switching

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

[I.19041] Append Component Command

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

[I.31521] Copy NPC

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

[I.55701] Backup Memory Transfer

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

[I.37301] Delete Feature Package Identification

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

[I.51021] Set Date

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

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

```
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}];
```

[I.39421] Switch Inhibition for SLC®

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

[I.51111] Alarm Cutoff

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

[I.51011] Set Daily Facility Alarm Reporting Time

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

[I.58001] Utility Boot

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

[I.35101] Switch FLI To Protection

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

[I.35111] Switch MMFG To Protection

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

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

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

[I.35105] Switch FLI To Service

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

[I.35121] Switch MMFG To Service

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

[I.39431] Allow Termination of Protection Switching

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

[I.55731] Upgrade Frame

```
UPGRD-SYS;
```

Denial Codes

14

mmmm *Explanation*

ENEQ
CCB is not equipped
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
DSPI not equipped, not in service, or failed
DSPI not in service or failed
DSPU is not equipped
Database corrupt
ETSI is not equipped
ETSI not equipped, not in service, or failed
FC not eqd, not IS, or failed or inactive side FC not eqd or not IS
FC not eqd, not IS, or failed or inactive side FC not eqd or not IS
FC not equipped
FTMI is not equipped
FTMI not equipped, not in service, or failed
MIU is not equipped
Mate NPC is not equipped
NPC is unequipped
NPC not equipped
NPC not provisioned as DGA
NPCTG not grown

mmmm	*Explanation*
	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
	Reqd FMT not eqd,not IS,or failed,or inact side FMT not eqd, or not IS
	Required FLI not equipped, not in service, or failed
	Required MIU not equipped, not in service, or failed
	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
	Unit is not equipped
	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
	Old_tape is a special install tape

mmmm	*Explanation*
	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
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

mmmm *Explanation*

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
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

mmmm *Explanation*

Framing format, digroup name & operational mode don't match
INCL not specified and at least one NPC In Service
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
TS16 specified for CAS TG
TS16 specified for test with width not 1
The RT id entered is not a retrofit one

mmmm	*Explanation*
	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 chan on same NPC and within the range
	Only up to 4 historical data registers are allowed
	TG width too large for single NPCTG
	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

mmmm	*Explanation*
	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
	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

mmmm	*Explanation*
	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
	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 Date field is not allowed
	Monitored Time 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 15MIN for accumulation interval is allowed
	Only DAILY for accumulation interval is allowed
	Only DAILY for accumulation interval is allowed
	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

mmmm	*Explanation*
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.
	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

mmmm	*Explanation*
	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
SA0P	RT's alarm exists
	This signal is already being sent
SA0S	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
	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

mmmm	*Explanation*
	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
	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

mmmm	*Explanation*
	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 not in 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
	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

mmmm *Explanation*

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 old_tape DB generic
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
Boot in progress, can't service request
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 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 old_tape
Can't mount or unmount password recovery card

mmmm *Explanation*

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 start new session - previous session still verifying
Cannot create any more users
Cannot execute privileged command
Cannot perform DMB CHG on input direction A
Cannot perform DMB CHG on input direction B
Cannot perform DMB CHG on input direction F
Cannot perform DMB CHG on input direction G
Cannot perform DMB CHG on input direction L
Cannot perform DMB CHG on input direction T
Cannot remove Frame administrator
Cannot remove own link
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

mmmm *Explanation*

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
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

mmmm *Explanation*

FTMI type error
Fail transfer DB from old_tape to SMEM
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
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 in a DDC
Incorrect language/addressing mode
Incorrect number of parameters
Incorrect or missing password
Incorrect pack type in slot

mmmm *Explanation*

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
Invalid NPC number specified
Invalid PWR/MISC alarm level
Invalid combination of "x" and "y" values
Invalid combination of "x" and "z" values
Invalid executable on card
Invalid option,mailbox or flag
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
Mismatch between MXR and NPC types
Mismatch between service MXR and protection MXR types

mmmm *Explanation*

NEW NPC already cross-connect or mapped channel(s) 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
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
No Facility Line Interface (FLI) is In Service
No SAFE alarm for DGP
No available timeslots on any of the inservice NPCS associated with FC/FMT
No edit session active
No equalization for CEPT FTMI
No macro is currently executing

mmmm *Explanation*

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.
Old_tape is not present
Old_tape unit is not restored
Old_tape with journal
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
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

mmmm *Explanation*

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
Problem occurred while accessing old_tape
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 inservice 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
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

mmmm *Explanation*

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
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
TS0 connected to nonTS0 in Mode 2 - "a" should be "-" or equal to "b"
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
Testport/testgroup channel cannot be rolled
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

mmmm *Explanation*

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 command
The first channel of VC BRD leg doesn't match that in the input command
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)
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

mmmm *Explanation*

Trying to change level out on BRD leg
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
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

mmmm	*Explanation*
	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
	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
	RST failed to boot DB

mmmm	*Explanation*
	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
	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
	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

mmmm	*Explanation*
NCON	No conditions
SAOP	SYNC autonomously restarted itself
SAOS	CRO declared OOS
	Mate link down
	Mate out of service
	TL out of service or loss of signal
SARL	TL error cleared
	TLI error cleared
SAWS	SYNC switched TLIs/SSPs
	SYNC switched to FAST mode
	SYNC switched to HOLDOVER
	SYNC switched to NORMAL mode
	SYNC switched to cross couple
SROF	BX Access Error
	BX stuck CCNI summary bit
	BX stuck summary bit
	Both syncs time base oven is cold
	CCNI summary bit set; no more info
	CPR serial access error
	DMB access error (e.g. pack not there)
	FC can't be accessed
	FLI access error
	FMT access error
	Invalid DDC pack id
	Invalid FPA state
	MIU access error
	MJU serial access error
	MXR access error (can't access pack)
	NPC can not be accessed
	NPC is alarming on FC
	Pack can't be accessed
	SRM serial access error
	TB i/o err. cant read TB packid or oven monitor
	Time base frequency drift
	Time base oven is cold

mmmm	*Explanation*
	Unknown what sync switched to
SWFA	Address Parity Error
	Address bus parity error
	Autonomous switch enable error
	BX Ram Parity Over High Byte
	BX Ram Parity Over Low Byte
	Bad EMXR Acknowledgement
	Bad Ram Data in DMB device (bits alarms)
	Bad UBX pack
	Bus Error Alarm
	Bus Terminator pack is not present
	Bus address error
	Bus status register parity error
	CC configuration register error
	CC exercise error
	CC instruction ram error
	CC parity error
	CC receiver data error
	CC summary bit error
	CC transmit data error
	CCB clock error
	CCB input port alarm error
	CCB packid error, wrong pack, can’t read pack
	CCB sync pulse error
	CCB zero bit is stuck at 1
	CCI -5.2 power supply has failed
	CCI 240 sync is misaligned with frame sync
	CCI Peripheral Unit Alarm
	CCI detected Address Parity error
	CCI detected Bus Status Parity error
	CCI detected high byte data parity error
	CCI detected low byte data parity error
	CCI loss of 240 Frame Sync
	CCI loss of 8 KHz Frame Sync
	CCI pack is not present

mmmm *Explanation*

CCI pack's summary is set but has no errors
CCIERR bit is stuck in system status reg
CCNI access error (cannot access pack)
CCNI stuck register bit, summary set, no other alarms
CEC bit on PRISM not cleared
CIA Device Error
CIB Device Error
CIC Device Error
CPR D-Bit interface parity error
CPR FIFO FRDY/FFULL stuck bit
CPR clock error
CPR control memory failure
CPR control memory or state machine failure
CPR input data interface error
CPR processor interface failure
CPU RAM Parity error
CPU internal bus error
CPU parallel bus parity error
CPU serial bus parity error
CRO error, unknown due to link, SYNC error
CRO frequency offset
CRO loss of energy CRO error
CRO loss of energy detected SYNC error
Can't access link
Can't communicate to CCI pack(incorrect version number)
Can't communicate to ETSI pack (incorrect version number)
Channel controller frame sync error
Channel controller loss of clock
Chip ID Comparison
Circuit ID Error
Conference 0 DMB device (chip) error
Conference 0 DMB input data parity error
Conference 0 control interface error
Conference 0 control ram parity error
Conference 1 DMB device (chip) error

mmmm *Explanation*

Conference 1 DMB input data parity error
Conference 1 control interface error
Conference 1 control ram parity error
Control Memory 0 DMB input data parity error
Control Memory 0 control interface error
Control Memory 0 control ram parity error
Control Memory 0 loss of sync error
Control Memory 1 DMB input data parity error
Control Memory 1 control interface error
Control Memory 1 control ram parity error
Control Memory 1 loss of sync error
Control RAM BIST flag is set
Control RAM address parity error
Control RAM circuit pack parity
Control RAM device can't be accessed (incorrect chip Id)
Control RAM device is in reset state
Control RAM parity error
Control RAM port alarm
Control RAM port alarm summary is stuck
Control RAM stuck bit error
Control RAM sync alarm
Control RAM write data parity error
Control data readable output latch error
Corresponding CCNI bit is stuck
Cross couple fast lock range
Cross couple frequency offset error
Cross couple loss of energy
Cross couple out of lock
Cross couple real time violation
D5 Spare Bit Error
D7 Spare Bit Error
DDC Stuck Bit on FTMI
DMB FIFO error
DMB bits stuck in exercise register
DMB clock error

mmmm *Explanation*

DMB conference error 0 (used for trans)
DMB conference error 1 (used for trans)
DMB control memory error 0 (used for trans)
DMB control memory error 1 (used for trans)
DMB data processing error
DMB parallel access error
DMB serial access error (pack not there)
DPC ROM error
DPC loss of timing
DSPI access error (e.g. pack not there)
DSPI bus address parity error
DSPI bus data parity error
DUART error
Data RAM BIST flag is set
Data Strobe Signal
Device clock error
Device control ram parity error
Duplex entity failed diagnostics
EMXR DUART error
EMXR Timer error
EPROM checksum error
ETSI Rcv MDX summary stuck bit
ETSI TRD3ST exercise bit is set
ETSI TX MDX summary stuck bit
ETSI control RAM summary stuck bit
ETSI loss of 240 frame sync
ETSI loss of 32.768 MHz clock
ETSI loss of Vdd (3.3v) power
ETSI pack is not present
ETSI pack's summary is set on CCI but has no errors
ETSI ready high error on CCI
ETSI ready time-out error on CCI(ETSI can't be accessed)
Error due to unused bit
Error due unknown reasons
Error from side 0 bus extension

mmmm *Explanation*

Error from side 1 bus extension
Error in HSCC register
Error in PRISM register
FC Stuck Bit on FTMI
FLI address bus parity error
FLI circuit id error
FLI communication link error
FLI frame sync or internal error
FLI lock and key alarm
FLI loss of clock
FLI loss of signal
FLI register bit stuck
FMT 0-4TF timing error
FMT FIFO or control PROM error
FMT RF control bus error
FMT RF port alarm; no monitor alarms
FMT RF port and monitor alarms
FMT TF control bus error
FMT TF device or clock receiver error
FMT bus timeout
FMT communication link error
FMT error summary 1 stuck bit
FMT error summary 2 stuck bit
FMT link id error
FMT lock override, active select or kill parity
FMT multiple TF clock error
FMT multiple TF network data error
FMT multiple TF sync error
FMT serial address parity error
FMT single TF network data error
FMT single TF sync error
FMT timing error
FMT timing error, RF data parity
FTMI lost clock
Facility Processor Sanity Error

mmmm *Explanation*

Facility errors
Failed to write XPC register
Fan Bank One Error Flag
Fan Bank Zero Error Flag
Firmware error
Frame Audit reboot DDC failure
Hard Error stuck bit
Hard RAM error
Hard ROM check error
Hardware Boot Failed
Hardware Failure
Hardware database mismatch
High data byte bus parity error
Illegal exercise bits set
Illegal/unknown condition code
Interrupt controller error
Interrupt holding register error
Invalid code checksum
Loss of energy on generated SYNC pulse
Loss of energy on output of frequency synth.
Loss of energy on output of phase shifter
Loss of energy on time base strobe signal
Loss of timing alarm
Lost Clear-To-Send signal on X.25 links
Low data byte bus parity error
MIU communication link error
MIU got reset
MJU clock error
MJU control memory failure
MJU control memory or state machine failure
MJU error correction circuitry failure
MJU input data interface failure
MJU output block failure
MJU processor interface failure
MJU sampling circuitry failure

mmmm *Explanation*

MP-SYNC communications failure
MTC stuck summary bit
MXR 45MHz is not phase locked to system clock
MXR DS3 loss of signal
MXR HSCC device error
MXR LCA error
MXR M12 device error
MXR M12 summary stuck error
MXR M13 summary stuck bit error
MXR M23 device error
MXR M23 summary stuck error
MXR PIF Bus Parity Error
MXR PIF I/O device error
MXR RAM error
MXR ROM error
MXR channel controller configuration register error
MXR channel controller exercise error
MXR channel controller frame sync error
MXR channel controller instruction ram error
MXR channel controller loss of clock
MXR channel controller parity error
MXR channel controller receiver data error
MXR channel controller stuck bit error
MXR channel controller transmit data error
MXR communication link error
MXR facility error stuck bit
MXR firmware error
MXR hard error stuck bit
MXR loss of clock from unselected FLI
MXR pack is in reset state
MXR program error
MXR queue overflow
MXR transceiver framer error
MXR transceiver receive sync error
MXR transceiver summary stuck bit error

mmmm *Explanation*

MXR transceiver transmitter error
MXR unknown error
Mate sync hardware error
Multiple clock errors, CCB/SYNC problem
Multiple data parity error, CCB problem
NPC address parity error
NPC bus error
NPC's facility queue overflow condition
OOS RAM test ran while IS
Output data parity error (from an FTM)
PLL end of range
PLL end of range implicating TL
PLL excessive phase error (125 uSec out of phase)
PLL fast start time out
PLL real time violations
PUERR bit is stuck in system status reg
Pack id error, can't read pack
Packet layer parameters are mismatched between DACS II and the network
Peripheral unit port alarm (RCV MDX)
Phase/frequency output latch error
Possible power failure on side
Power Failure
Queue overflow error
R20 counter reaches limit
RAM data error
RAM data error, RAM address line stuck
RF bus error
ROM checksum error
Receive MDX address parity error
Receive MDX can't be accessed (incorrect chip Id
Receive MDX data source time slot parity error
Receive MDX sync error
Receive MDX write data parity error
Receiver Formatter Error
Receiver Time-out

mmmm *Explanation*

SRM clock error
SRM control memory failure
SRM error correction block failure
SRM input data interface failure
SRM multiplexor block failure
SRM output block failure
SRM processor interface failure
SYNC Error
SYNC summary is set on CCI circuit pack
Sanity Time-out
Sanity Timer Interrupt
Source of error is unknown
Source of error was not found
Stuck bit in register
Sync says its down
Sync says its time base is down
T3 timer expires
TL error reported, unknown
TLI error, link went down before status read
TLI hardware error
TSI device error
TSI device id error, cannot read device
TSI stuck bit, summary bit set, no devices alarming
TSIERR bit is stuck in system status reg
The 32 MHz clock is out of lock
Time base loss of energy detector
Timeout for Yellow Inhibit/Enable Request
Timeout while waiting for msg from EMXR
Timer 1 error
Timer 2 error
Timer Error
Timing Extractor type TLI has autobaud failure
Timing Extractor type TLI has hardware problem
Too many interrupts or illegal interrupt from XPC
Transceiver A Error

mmmm *Explanation*

Transceiver A stuck bit
Transceiver A transmit slip
Transceiver B Error
Transceiver B stuck bit
Transceiver B transmit slip
Transmit Formatter Error
Transmit MDX address parity error
Transmit MDX can't be accessed (incorrect chip Id
Transmit MDX data parity error
Transmit MDX data source time slot parity error
Transmit MDX sync error
Transmit MDX write data parity error
Transmit Time-out
Transmit time-out because Clear To Send lost
Transmit underrun threshold exceeded
Uart error
Unit could not be reset
Unit failed sanity check
Unknown DPLL error
Unknown PLL error,link went down before reading status
Unknown interrupt from BX
Unknown interrupt from MTC
Unknown mate error, link went down before read status
Unknown time base error
Unused bits on MTC pack
failed to switch CCN sides
failure to insert TCC
failure to remove TCC
softerr failure which forces link removal

Index

A

B

C

D

E

F

G

H

I

L

M

N

O

P

Q

R

S

T

U

W

X