Lucent Technologies
Bell Labs Innovations

DACS II
Release 8.2.3 PDS
1.544 Mb/s Interface

Quick Reference Guide

365-353-223
Issue 1
February 1999

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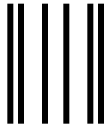

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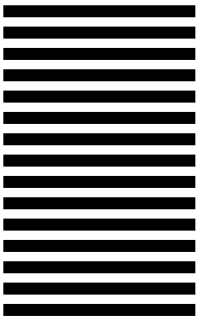

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About This Document

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.

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Link/Login/Logoff Commands

1

[I.36007] Add TABS Link Parameters

```
ADD::LINK j,APPL {ASCS|ASCD|PM}[,L2AD aa][,POLL ttt]!
```

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

```
ADD::LINK j[,K b][,T1 ee][,T3 ggg][,N2 aa][,FRMAD {A|B}]!
```

[I.36001] Add Link, Protocol, Baud

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

If the protocol is Snider:

```
ADD::LINK j,PTCOL S[,BAUD bb][,ALM k]\
[,BS e][,ENQ q][,XON x][,INIT]!
```

If the protocol is X.25:

```
ADD::LINK j,PTCOL X[,ALM k][,INIT]!
```

If the protocol is TABS:

```
ADD::LINK j,PTCOL T[,BAUD bb][,ALM k][,INIT]!
```

If the protocol is Modified Snider:

ADD::LINK j,PTCOL M[,ALM k][,INIT]!

[I.36005] Add X.25 Link Parameters

```
ADD::LINK j[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.36103] Add User/Link Language, NPC Addressing and Priority

```
ADD::{USER <user id>|LINK j[mm][,INCL]|ALL}\
[,LANG {M|P|F}][,NPCAD {E|X|H}][,LEV(a,b,c,d,e,f)]\
[,{RMON|RMOFF}][,RLK {A|I}][,INIT]!
```

[I.36101] Add User

ADD::USER <user id>[,NEW][,PASSWD <user password>]!

If the command is entered on a Snider link:

ADD::USER <user id>[,NEW]!

DACS II then 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.

[I.38301] Change User Password

CHG::PASSWD[,OLD <old password>, NEW <new password>]!

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

CHG::PASSWD!

Then DACS II will 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.38401] Change User/Link Screening

CHG::{USER <user id>|LINK j[mm][,INCL]}
[,SCR n[,GR(a,b,c,d,e,f)]] [,{MCON|MCOFF}][,INIT]!

[I.37101] Delete User

DLT::USER <user id>!

[I.39001] Log On To DACS II

LOGIN::USER <user id>[,PASSWD <user password>]!

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

LOGIN::USER <user id>!

Then DACS II will prompt for the following:

PASSWD: <user enters the user password>

[I.39101] Log Off User or Link

LOGOFF::{USER <user id>|LINK j[mm][,INCL]}!

Provisioning Commands

2

[I.36021] Add Network Processing Circuit

```
ADD::NPC {[s]abc-[t]def|[s]abc[,[s]ghi]...[,[t]def]}!
ADD::NPC {uvmnp-wxkqr|uvmnp[,edfgh]...[,wxkqr]}!
```

[I.35021] Configure Frame

```
CFR::FRAME!
```

[I.35011] Configure Synchronizer

```
CFR::SYNC a,FPLL!
```

[I.32341] Deprovision NPC

```
DGRTH::NPC [s]abc[-[t]def]!
DGRTH::NPC uvmnp[-uvkqr]!
```

[I.32401] Deprovision Test-Access Group NPC

```
DGRTH::NPC [s]abc,NPCTG rrr[,TGR]!
DGRTH::NPC uvmnp,NPCTG rrr[,TGR]!
```

[I.32381] Deprovision Test Port NPC

```
DGRTH::NPC [s]abc,NPCTP n[,TPR]!
DGRTH::NPC uvmnp,NPCTP n[,TPR]!
```

[I.32101] Deprovision Synchronizer Time Base

```
DGRTH::SYNC,TB!
```

[I.32121] Deprovision Synchronizer Timing Link Interface

```
DGRTH::SYNC,TLI m[,SSP a]!
```

[I.32421] Deprovision Test-Access Group

```
DGRTH::TG mmm[-nnn]!
```

[I.32411] Deprovision Test Port

```
DGRTH::TP kk!
```

[I.32211] Deprovision Unit

```
DGRTH::UNIT [q]q!
```

[I.32321] Deprovision Facility Terminating Module Interface

```
DGRTH::UNIT [q]q,FTMI d!
```

[I.32511] Deprovision Multiplexer Interface Unit

```
DGRTH::UNIT [q]q,MIU c[-d]!
```

[I.32501] Deprovision Multiplexer

```
DGRTH::UNIT [q]q,MXR c[-d]!
```

[I.37211] Delete NPC Number With SLC® RT

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

```
DLT::{RT|DL} ffff[,DGA uvjab][,DGB uvkcd]\
[,DGC uvlef][,DGD uvmgh][,DGP uvjpr]!
```

[I.30101] Provision Frame

```
GRTH::FRAME fg[,CHAR m][,UID <uid>]!
```

[I.31401] Provision Test-Access Group NPC

```
GRTH::NPC [s]abc,NPCTG rrr!
GRTH::NPC uvmnp,NPCTG rrr!
```

[I.31381] Provision Test Port NPC

```
GRTH::NPC [s]abc,NPCTP n!
GRTH::NPC uvmnp,NPCTP n!
```

[I.31331] Provision Digital Signal Processing Unit NPC

```
GRTH::NPC [s]abc[-[t]def],TYPE mnxyz!
GRTH::NPC uvmnp[-wxkqr],TYPE mnxyz!
```

[I.31351] Provision Digital Signal Processing Unit NPC

```
GRTH::NPC [s]abc,TYPE mnxyz!
GRTH::NPC uvmnp,TYPE mnxyz!
```

[I.31371] Provision NPC Type DS

```
GRTH::NPC [s]abc[-[t]def],TYPE DSxyz\
[,OPTS(rr/m [,rr/m][...])][,IW X'pq]!
```

```
GRTH::NPC uvmnp[-uvkqr],TYPE DSxyz\
[,OPTS(rr/m [,rr/m][...])][,IW X'pq]!
```

[I.31341] Provision ANSI NPC

```
GRTH::NPC [s]abc[-[t]def],TYPE mnxyz[,OPTS(rr/m[,rr/m]\
[...])][,IW X'pq[,INCL]][,AIS {INFO|MJ|MN}][,PL {ENA|DSA}]!
GRTH::NPC uvmnp[-uvkqr],TYPE mnxyz[,OPTS(rr/m[,rr/m]\
[...])][,IW X'pq[,INCL]][,AIS {INFO|MJ|MN}][,PL {ENA|DSA}]!
```

[I.31352] Provision NPC

```
GRTH::NPC [s]abc[-[t]def][,TYPE mnxyz][,OPTS(rr/m[,rr/m]\
[,...])][,IW X'pq[,INCL]][,AIS {INFO|MJ|MN}]!
GRTH::NPC uvmnp[-uvkqr][,TYPE mnxyz][,OPTS(rr/m[,rr/m]\
[,...])][,IW X'pq[,INCL]][,AIS {INFO|MJ|MN}]!
```

[I.31101] Provision Synchronizer Time Base

```
GRTH::SYNC,TB,TYPE TBpqr!
```

[I.31111] Provision Clock Reference Oscillator

```
GRTH::SYNC,TLI 3,TYPE TBpqr!
```

[I.31121] Provision Synchronizer Timing Link Interface

```
GRTH::SYNC,TLI m,{TYPE texyz,SSP a,SRC p|TYPE TDxyz}!
```

[I.31421] Provision Test-Access Group

```
GRTH::TG mmm,NPCTG (rrr,eee[-fff];sss,www[-xxx])[,<tc>]!
```

[I.31411] Provision Test Port

```
GRTH::TP kk[,<tc>]!
```

[I.31321] Provision Facility Terminating Module Interface

```
GRTH::UNIT [q]q,FTMI d,EQL(l,r)!
```

[I.31501] Provision Multiplexer Interface Unit

```
GRTH::UNIT [q]q,MIU c[-d][,TYPE mnxyz]!
```

[I.31511] Provision Multiplexer

```
GRTH::UNIT [q]q,MXR c[-d][,TYPE mnxyz][,BERM s]\
[,BERT t][,LBO <b>]!
```

[I.31211] Provision a Unit

For DACS II Non-CEF frames:

```
GRTH::UNIT q[,TYPE utxyz][,CONN(a[,b[,c[,d[,e [,f]]]]])]!
```

For DACS II CEF frames:

```
GRTH::UNIT [q]q[,TYPE utxyz]!
```

[I.35311] Inhibit Switch MMFG

```
INHSW::UNIT [q]q,MMFG c[-d],{TOPRTN|TOSRVC}!
```

[I.26141] Facility Loopback Activate

```
OPR::LPBK loop,NPC [s]abc,LOCN locn!
OPR::LPBK loop,NPC uvmnp,LOCN locn!
```

[I.28101] Facility Test Signal Activate

```
OPR::TSIG test,NPC [s]abc!
OPR::TSIG test,NPC uvmnp!
```

[I.26151] Facility Loopback Release

```
RLS::LPBK loop,NPC [s]abc,LOCN locn!
RLS::LPBK loop,NPC uvmnp,LOCN locn!
```

[I.28201] Facility Test Signal Deactivate

```
RLS::TSIG test,NPC [s]abc!
RLS::TSIG test,NPC uvmnp!
```

[I.33401] Remove Facility Line Interface

```
RMV::UNIT [q]q,FLI k!
```

[I.33411] Remove Formatter

```
RMV::UNIT [q]q,FMT s!
```

[I.33431] Remove Multiplexer Interface Unit

```
RMV::UNIT [q]q,MIU c[-d][,INCL]!
```

[I.33421] Remove MMFG

```
RMV::UNIT [q]q,MMFG c[-d][,FRC[,INCL]]!
```

[I.34401] Restore Facility Line Interface

```
RST::UNIT [q]q,FLI k!
```

[I.34411] Restore Formatter

```
RST::UNIT [q]q,FMT s!
```

[I.34431] Restore Multiplexer Interface Unit

```
RST::UNIT [q]q,MIU c[-d][,INCL]!
```

[I.34421] Restore MMFG

RST::UNIT [q]q,MMFG c[-d][,INCL]!

[I.27002] Test Port Release

TTST::TPR,ALL[,OOS]!

Performance Monitoring Commands

3

[I.51171] Allow DS1 Performance Monitoring Report

```
ALW::PMREPT,{NPC [s]abc[-[t]def]|ALL}!
ALW::PMREPT,{NPC uvmnp[-wxkqr]|ALL}!
```

[I.51161] Inhibit DS1 Performance Monitoring Report

```
INH::PMREPT,{NPC [s]abc[-[t]def]|ALL}!
INH::PMREPT,{NPC uvmnp[-wxkqr]|ALL}!
```

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

```
UTL::CLR,<parameter>,ALL!
```

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

```
UTL::CLR,ERR,{HWER|SWER}!
```

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

```
UTL::CLR,{NPC [s]abc[-[t]def]|ALL},<parameter>[,AI aaaaa]\
[,LOCN locn][,MONDAT dddd][,MONTIM tttt]!
```

```
UTL::CLR,{NPC uvmnp[-wxkqr]|ALL},<parameter>[,AI aaaaa]\
[,LOCN locn][,MONDAT dddd][,MONTIM tttt]!
```

[I.56051] Clear Facility Performance Parameters

```
UTL::CLR,NPC [s]abc,PARAMS!
UTL::CLR,NPC uvmnp,PARAMS!
```

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

```
UTL::CLR,<parameter>,{NPC [s]abc[-[t]def]|RT ffff|DL ffff}!
UTL::CLR,<parameter>,{NPC uvmnp[-wxkqr]|RT ffff|DL ffff}!
```

[I.51101] Utilities, Alarm Reporting

```
UTL::INIT,ALM a!
```

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

```
UTL::QRY,{NPC [s]abc[-[t]def]|ALL},<parameter>,\
AI aaaaa [,LV lllllllll][,LOCN locn]\
[,MONDAT dddd][,MONTIM tttt]!
```

```
UTL::QRY,{NPC uvmnp[-wxkqr]|ALL},<parameter>,\
AI aaaaa [,LV lllllllll][,LOCN locn]\
[,MONDAT dddd][,MONTIM tttt]!
```

[I.51071] Retrieve Performance Monitoring Report Schedule

```
UTL::QRY,TOD,CFA!
```

[I.51141] Schedule DS1 Performance Monitoring Report

```
UTL::SCHED,PMREPT,NPC [s]abc[-[t]def],RI rrrrr,ST ssss,\
NI nn,<parameter>,LV lllllllll,LOCN locn,AI aaaaa,\
TOF ttttt[-ooooo][,LK p[vv][ q[vv]]]!
```

```
UTL::SCHED,PMREPT,NPC uvmnp[-wxkqr],RI rrrrr,ST ssss,NI nn,\
<parameter>,LV lllllllll,LOCN locn,AI aaaaa,\
TOF ttttt[-ooooo][,LK p[vv][ q[vv]]]!
```

Cross-Connect Commands

4

[I.14001] Alternate Cross-Connections

```
ACON::OLD [s]abcddd,NEW [t]ghijjj[,INCL]!
ACON::OLD uvmnpddd,NEW wxkqrjjj[,INCL]!
```

[I.13002] Broadcast Cross-Connection

```
BCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
<tc>[,{NTR|LPD|CONV}][,{CUS|INCL}][,RDC]!
BCON::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
<tc>[,{NTR|LPD|CONV}][,{CUS|INCL}][,RDC]!
```

[I.13021] Broadcast Connect

```
BCON::FROM [s]abc,TO [t]def[,RDC][,{CUS|INCL}]\
[,{NTR|LPD|CONV}]!
BCON::FROM uvmnp,TO wxkqr[,RDC][,{CUS|INCL}]\
[,{NTR|LPD|CONV}]!
```

[I.13001] Broadcast Cross-Connections

```
BCON::FROM [s]abcddd[-eee],TOX ([t]ghijjj[,[t]klmnnn,...]),\
<tc>[,{NTR|LPD|CONV}][,{CUS|INCL}][,RDC]!
BCON::FROM uvmnpddd[-eee],TOX (wxkqrjjj[,edhfgnnn,...]),\
<tc>[,{NTR|LPD|CONV}][,{CUS|INCL}][,RDC]!
```

[I.13011] Broadcast Connect

```
BCON::FROM [s]abc,TOX ([t]def[,[u]ghi][,[v]jkl][...])[,RDC]\
[,{CUS|INCL}][,{NTR|LPD|CONV}]!
BCON::FROM uvmnp,TOX (wxkqr[,edfhg][,stmno][,...])[,RDC]\
[,{CUS|INCL}][,{NTR|LPD|CONV}]!
```

[I.15201] Broadcast Disconnections

```
BDIS::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk][,CONV]\
[,OOS][,DCC][,INCL]!
BDIS::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk][,CONV]\
[,OOS][,DCC][,INCL]!
```

[I.15231] Broadcast Disconnection

```
BDIS::FROM [s]abc,TO [t]ghi[,OOS][,INCL][,CONV]!
BDIS::FROM uvmnp,TO wxkqr[,OOS][,INCL][,CONV]!
```

[I.15211] Broadcast Disconnection

```
BDIS::FROM [s]abcddd[-eee],TOX ([t]ghijjj\
[,[u]klmnnn . . .])[,CONV][,OOS][,DCC][,INCL]!
BDIS::FROM uvmnpddd[-eee],TOX (wxkqrjjj\
[,edhfgnnn, . . .])[,CONV][,OOS][,DCC][,INCL]!
```

[I.15221] Broadcast Disconnect

```
BDIS::FROM [s]abc,TOX ([t]ghi[,[u]jkl][,[v]mno][...])\
[,OOS][,INCL][,CONV]!
BDIS::FROM uvmnp,TOX (wxkqr[,edhfg][,opqrs][...])\
[,OOS][,INCL][,CONV]!
```

[I.12121] One-Way Cross-Connect Terminated Multipoint Circuit

```
OCNT::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
MPM(fmd,tmd),<tc>[,{CUS|INCL}][,RDC]!
OCNT::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
MPM(fmd,tmd),<tc>[,{INCL|CUS}][,RDC]!
```

[I.12101] One-Way Cross-Connection Terminate

```
OCNT::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
<tc>[,RDC][,{CUS|INCL}][,PRIOUT]!
OCNT::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
<tc>[,RDC][,{CUS|INCL}][,PRIOUT]!
```

[I.12131] Terminated One-Way Cross Connect

```
OCNT::FROM [s]abc,TO [t]ghi[,RDC][,{CUS|INCL}][,PRIOUT]!
OCNT::FROM uvmnp,TO wxkqr[,RDC][,{CUS|INCL}][,PRIOUT]!
```

[I.11121] One Way Cross-Connections

```
OCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
MPM(fmd,tmd),<tc>[,{CUS|INCL}][,RDC]!
OCON::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
MPM(fmd,tmd),<tc>[,{INCL|CUS}][,RDC]!
```

[I.11101] One Way Cross-Connections

```
OCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
<tc>[,RDC][{,CUS|,INCL}][,PRIOUT]!
```

```
OCON::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
<tc>[,RDC][{,CUS|,INCL}][,PRIOUT]!
```

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

```
OCON::FROM [s]abc,TO [t]ghi[,RDC][,{CUS|INCL}][,PRIOUT]!
OCON::FROM uvmnp,TO wxkqr[,RDC][,{CUS|INCL}][,PRIOUT]!
```

[I.15102] One-Way Multipoint Disconnections

```
ODIS::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk]\
[,INCL][,OOS][,DCC]!
```

```
ODIS::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk]\
[,INCL][,OOS][,DCC]!
```

[I.15101] One-Way Disconnect

```
ODIS::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk][,INCL]\
[,OOS][,DCC][,PRIOUT]!
```

```
ODIS::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk][,INCL]\
[,OOS][,DCC][,PRIOUT]!
```

[I.15111] One-Way Disconnect

```
ODIS::FROM [s]abc,TO [t]ghi[,OOS][,INCL][,PRIOUT]!
ODIS::FROM uvmnp,TO wxkqr[,OOS][,INCL][,PRIOUT]!
```

[I.12001] Two-Way Cross-Connection Terminated

```
TCNT::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
<tc>[,AIS][,{CUS|INCL}][,RDC][,PRIOUT]!
```

```
TCNT::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
<tc>[,AIS][,{CUS|INCL}][,RDC][,PRIOUT]!
```

[I.12021] Two-Way Cross-Connect Terminate, From, To, Multipoint Mode

```
TCNT::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],MPM(fmd,tmd),\
<tc>[,NTR m][,RDC][,{CUS|INCL}]!

TCNT::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],MPM(fmd,tmd),\
<tc>[,NTR m][,RDC][,{CUS|INCL}]!
```

[I.12051] Two-Way Cross-Connection Terminate

```
TCNT::FROM [s]abcddd,TO [t]ghijjj\\
[,{PFW(abcdefg,ijklmno)|NFW}]!
TCNT::FROM uvmnpddd,TO wxkqrjjj\\
[,{PFW(abcdefg,ijklmno)|NFW}]!
```

[I.12031] Terminated Two-Way Cross Connect

```
TCNT::FROM [s]abc,TO [t]ghi[,RDC][,{CUS|INCL}][,PRIOUT]!
TCNT::FROM uvmnp,TO wxkqr[,RDC][,{CUS|INCL}][,PRIOUT]!
```

[I.11001] Two-Way Cross-Connection

```
TCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
<tc>[,AIS][,{CUS|INCL}][,RDC][,PRIOUT]!

TCON::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
<tc>[,AIS][,{CUS|INCL}][,RDC][,PRIOUT]!
```

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

```
TCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
MPM(fmd,tmd),<tc>,[NTR m][,RDC][,{CUS|INCL}]!

TCON::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
MPM(fmd,tmd),<tc>,[NTR m][,RDC][,{CUS|INCL}]!
```

[I.11051] Two-Way Cross-Connections

```
TCON::FROM [s]abcddd,TO [t]ghijjj\\
[,{PFW(abcdefg,ijklmno)|NFW}]!
TCON::FROM uvmnpddd,TO wxkqrjjj\\
[,{PFW(abcdefg,ijklmno)|NFW}]!
```

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

```
TCON::FROM [s]abc,TO [t]ghi[,RDC][,{CUS|INCL}][,PRIOUT]!
TCON::FROM uvmnp,TO wxkqr[,RDC][,{CUS|INCL}][,PRIOUT]!
```

[I.15002] Two-Way Disconnections

```
TDIS::FROM [s]abcddd,TO [t]ghijjj[,INCL][,OOS][,DCC]!
TDIS::FROM uvmnpddd,TO wxkqrjjj[,INCL][,OOS][,DCC]!
```

[I.15001] Disconnections, Cross-Connect Circuits

```
TDIS::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk][,INCL]\
[,OOS][,DCC][,PRIOUT]!
TDIS::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk][,INCL]\
[,OOS][,DCC][,PRIOUT]!
```

[I.15011] Two-Way Disconnection

```
TDIS::FROM [s]abc,TO [t]ghi[,OOS][,INCL][,PRIOUT]!
TDIS::FROM uvmnp,TO wxkqr[,OOS][,INCL][,PRIOUT]!
```

Macro and Map Commands

5

[I.39201] Activate Alternate Maps

```
ACT::MAP <map name>[,CLR][,INCL]!
```

[I.38501] Change Macro Space

```
CHG::{MACRO|MAP},SPACE sss!
```

[I.19051] Delete Lines From Macro

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

[I.37201] Delete Macro

```
DLT::{MACRO <macro name>|MAP <map name>}[,USER <user id>]!
```

[I.37001] Edit Delete Map

```
DLT::NPC {[s]abc-[t]def|[s]abc[,[s]ghi]...[,[t]def]}!
DLT::NPC {uvmnp-wxkqr|uvmnp[,abcde]...[,wxkqr]}!
```

[I.19031] Create Picture Alternate Map

```
ED::CRET,MAP <new map name>,PIC <reference map name>!
```

[I.19001] Create or Edit A Macro Or Map

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

[I.39301] Execute Macro

```
EXC::MACRO <macro name>\
[,(<p1>[,<p2>[,<p3>[,...[,<p10>]]]])]!
```

[I.19071] Query Line Number

```
LINE!
```

[I.19061] List Macro Contents

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

[I.19091] Move Macro Lines

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

[I.19081] Save Component Commands

```
SAVE!
```

[I.39311] Stop Macro

```
STOP::MACRO[,LINK l[mm]]!
```

Roll Commands

6

[I.35001] Configure Digroup Circuits

```
CFR::XC s[,INCL]!
```

[I.14021] DS0 Circuit Roll - Bridge Command

```
SW::BCAST,OLD [s]abcddd[-eee],NEW [t]ghijjj[-kkk][,INCL]!
SW::BCAST,OLD uvmnpddd[-eee],NEW wxkqrjjj[-kkk][,INCL]!
```

[I.14061] Facility Roll - Bridge Command

```
SW::BCAST,OLD [s]abc,NEW [t]ghi[,INCL]!
SW::BCAST,OLD uvmnp,NEW wxkqr[,INCL]!
```

[I.14041] DS0 Circuit Roll - Disconnect Command

```
SW::DISC [s]abcddd[-eee][,OOS]!
SW::DISC uvmnpddd[-eee][,OOS]!
```

[I.14081] Facility Roll - Disconnect Command

```
SW::DISC [s]abc[,OOS]!
SW::DISC uvmnp[,OOS]!
```

[I.14031] DS0 Circuit Roll- Roll Command

```
SW::ROLL,OLD [s]abcddd[-eee],NEW [t]ghijjj[-kkk]\
[,INCL][,FRC][,OOS]!
```

```
SW::ROLL,OLD uvmnpddd[-eee],NEW wxkqrjjj[-kkk]\
[,INCL][,FRC][,OOS]!
```

[I.14071] Facility Roll - Roll Command

```
SW::ROLL,OLD [s]abc,NEW [t]ghi[,INCL][,FRC][,OOS][,TWAY]!
SW::ROLL,OLD uvmnp,NEW wxkqr[,INCL][,FRC][,OOS][,TWAY]!
```

Change Commands

7

[I.35013] Configure Synchronizer

CFR::SYNC,{MASTER|SLAVED}!

[I.35012] Configure Synchronizer Stratum

CFR::SYNC,STRATUM {STR2|STR3}!

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

CHG::DS1ALMDS3 {ON|OFF}!

[I.38611] Change Unprotected Alarm Setting

CHG::DS3UNPROTALM {ON|OFF}!

[I.38261] Change Subrate Error Correction Location

CHG::ECLOC,TYPE {MJU|SRM}!

[I.17011] Change Circuit Parameters

```
CHG::FROM [s]abc,TO [t]ghi[,NOT [u]rst],\
{TLA|TLR} {F|T|B|A}[,INCL]!
```

```
CHG::FROM uvmnp,TO wxkqr[,NOT edhfg],\
{TLA|TLR} {F|T|B|A}[,INCL]!
```

[I.17001] Change Cross-Connect Termination Status

```
CHG::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk]\
[,NOT [u]rstvvv],{TLA|TLR} {F|T|B|L|G|A}[,INCL]!
```

```
CHG::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk]\
[,NOT edhfgvvv],{TLA|TLR} {F|T|B|L|G|A}[,INCL]!
```

[I.17002] Change Circuit Parameters

```
CHG::FROM [s]abcddd,TO [t]ghijjj[,TLP(snn,smm)]\
[,NG nn][,ES ee][,INCL]!
```

```
CHG::FROM uvmnpddd,TO wxkqrjjj[,TLP(snn,smm)]\
[,NG nn][,ES ee][,INCL]!
```

[I.38251] Change Hub Identification

```
CHG::HUBID O'ab!
```

[I.38281] Change NPC AIS Alarm Option

```
CHG::NPC [s]abc[-[t]ghi],{ALMOPT|PLOPT},\
{AIS {INFO|MJ|MN}|PL {ENA|DSA}}!
```

```
CHG::NPC uvmnp[-wxkqr],{ALMOPT|PLOPT},\
{AIS {INFO|MJ|MN}|PL {ENA|DSA}}!
```

[I.38324] Change NPC Frame-Word Setting

```
CHG::NPC [s]abc[-[t]def],NFS abcdefghi!
CHG::NPC uvmnp[-uvkqr],NFS abcdefghi!
```

[I.38221] Change NPC Options

```
CHG::NPC [s]abc,OPTS(rr/m[,rr/m][...])!
CHG::NPC uvmnp,OPTS(rr/m[,rr/m][...])!
```

[I.38241] Change Options

```
CHG::{NPC [s]abc|RT ffff|DL ffff|TYPE mnxyz},\
OPTS(rr/m[,rr/m,...])!
CHG::{NPC uvmnp|RT ffff|DL ffff|TYPE mnxyz},\
OPTS(rr/m[,rr/m,...])!
```

[I.38321] Change NPC Time Slot Zero

```
CHG::NPC [s]abc[-[t]def],TS0 abcdefgh!
CHG::NPC uvmnp[-uvkqr],TS0 abcdefgh!
```

[I.38323] Change Time Slot Zero Monitor

```
CHG::NPC [s]abc[-[t]def],TS0M abcdefgh!
CHG::NPC uvmnp[-wxkqr],TS0M abcdefgh!
```

[I.38211] Change NPC Type

```
CHG::NPC [s]abc,TYPE mnxyz[,IW X'pq[,INCL]]!
CHG::NPC uvmnp,TYPE mnxyz[,IW X'pq[,INCL]]!
```

[I.38271] Change DS3U NPC Type

```
CHG::NPC [s]abc[-[t]def],TYPE mnxyz[,IW X'pq[,INCL]]!
CHG::NPC uvmnp[-uvkqr],TYPE mnxyz[,IW X'pq[,INCL]]!
```

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

```
CHG::NPC [s]abc,TYPE mnxyz[,IW X'pq[r]]!
CHG::NPC uvmnp,TYPE mnxyz[,IW X'pq[r]]!
```

[I.38351] Change Bank Number

```
CHG::{RT|DL} ffff,TO gggg!
```

[I.38481] Change RT/DL

```
CHG::{RT|DL} ffff,{ZCS|B8ZS}!
```

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

```
CHG::RT ffff,[{sss|RTF}][,SWMN x]!
```

[I.19581] Change Subrate Cross-Connection

```
CHG::SCON,OLD [s]abcddd[/ff],NEW [t]ghijjj[/ll]!
CHG::SCON,OLD uvmnpddd[/ff],NEW wxkqrjjj[/ll]!
```

[I.19591] Change Subrate Cross-Connection

```
CHG::SCON,OLD [s]abcddd[/ff],NEW [t]ghijjj[/ll],MPTM!
CHG::SCON,OLD uvmnpddd[/ff],NEW wxkqrjjj[/ll],MPTM!
```

[I.19501] Change Subrate Established Channel

```
CHG::SECH,OLD [s]abcddd[-eee],NEW [t]ghijjj[-kkk]\
[,PCH ppp][,DCC]!
CHG::SECH,OLD uvmnpddd[-eee],NEW wxkqrjjj[-kkk]\
[,PCH ppp][,DCC]!
```

[I.38201] Change/Set Options

```
CHG::SETOP rr,{TYPE mn|ALL},NPCOP(set1,set2,set3)!
```

[I.18001] Change Circuit Parameters

```
CHG::SWCH,TOX([s]abcddd[,[t]ghijjj,[u]klmnnn,...])[,INCL]!
CHG::SWCH,TOX(uvmnpddd[,wxkqrjjj,edhfgnnn,...])[,INCL]!
```

[I.18011] Change Switch, TOX

```
CHG::SWCH,TOX([s]ghi[,[t]jkl][,[v]mno][...])[,INCL]!
CHG::SWCH,TOX(uvmnp[,wxkqr][,edhfg][...])[,INCL]!
```

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

```
CHG::SYNC,TLI m,SSP b,TYPE texyz!
CHG::SYNC,TLI,SRC(i/(a,b)[,j/(c,d)[,k/(e,f)[,l/(g,h)]]])!
```

[I.19551] Change Subrate Terminate and Leave

```
CHG::{TLA|TLR} m,TO [s]abcddd[/ff]!
CHG::{TLA|TLR} m,TO uvmnpddd[/ff]!
```

[I.19561] Change Terminate and Leave

```
CHG::{TLA|TLR} m,TO [s]abcddd[/ff],MJU ssss[,BRi]!
CHG::{TLA|TLR} m,TO uvmnpddd[/ff],MJU ssss[,BRi]!
```

[I.38231] Change Type, Options

```
CHG::TYPE mnxyz,OPTS(rr/m[,rr/m][...])!
```

[I.38101] Change Connectivity

```
CHG::UNIT q,CONN(a[,b[,c[,d[,e[,f]]]]])!
```

[I.38601] Change DS3 Parameters

```
CHG::UNIT [q]q,DS3 c[-d][,BERM s][,BERT t][,LBO <b>]\
[,TYPE mnxyz]!
```

[I.38111] Change FTMI Equalization

```
CHG::UNIT [q]q,FTMI d,EQL(l,r)!
```

Remove Commands

8

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

RMV::CCB sf!

[I.33251] Remove Clock Control Interface

RMV::CCI s!

[I.33201] Remove Cross-Connect Network Interface

RMV::CCNI s!

[I.33261] Remove ETSI

RMV::ETSI sqq!

[I.33271] Remove ETSIS All

RMV::ETSIS,ECCN s,ALL!

[I.33011] Remove Link

```
RMV::LINK j!
```

[I.33001] Remove Main Controller

```
RMV::MC!
```

[I.33351] Remove NPCs

```
RMV::NPC [s]abc[-[t]def][,SIDE s][,INCL]!
RMV::NPC uvmnp[-uvkqr][,SIDE s][,INCL]!
```

[I.33481] Remove RT/DL

```
RMV::{RT|DL} ffff!
```

[I.33211] Remove PMEM or SMEM

```
RMV::{SMEM|PMEM}!
```

[I.33101] Remove Synchronizer

```
RMV::SYNC a!
```

[I.33111] Remove Synchronizer Time Base AS A Clock Reference Oscillator

```
RMV::SYNC,TLI 3,CRO!
```

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

```
RMV::SYNC a,TLI m[,SSP b]!
```

[I.33221] Remove Time Slot Interchange

```
RMV::TSI sft!
```

[I.33241] Remove Time Slot Interchange (Non-CEF Only)

```
RMV::TSIS,CCN s,ALL!
```

[I.33231] Remove Time Slot Interchange Connected to Unit (Non-CEF Only)

```
RMV::TSIS,CCN s,UNIT q[,CONN(a[,b[,c[,d[,e[,f]]]]])]!
```

[I.33331] Remove Unit Format Converter

```
RMV::UNIT [q]q,FC sb!
```

[I.33321] Remove FTMI or DSPI

```
RMV::UNIT [q]q,{FTMI d|DSPI}!
```

[I.33311] Remove Unit Controller

```
RMV::UNIT [q]q,UC!
```

Restore Commands

9

[I.34202] Restore Cross-Connect Buffer

RST::CCB sf!

[I.34251] Restore Control and Clock Interface

RST::CCI s!

[I.34201] Restore Cross-Connect Network Interface

RST::CCNI s!

[I.34261] Restore Expanded Time Slot Interchanger

RST::ETSI sqq!

[I.34271] Restore All ETSIS

RST::ETSIS,ECCN s,ALL!

[I.34011] Restore Administrative Link

RST::LINK j!

[I.34001] Restore Main Controller

For Normal Operations:

RST::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::MC,CLR[,ALL]!

[I.34351] Restore NPCs

RST::NPC [s]abc[-[t]def][,SIDE s]!
RST::NPC uvmnp[-uvkqr][,SIDE s]!

[I.34211] Restore PMEM and/or SMEM

RST::{PMEM|SMEM[{,CLR|[,FRC][,BKGRND]}]}!

[I.34481] Restore RT/DL

RST::{RT|DL} ffff!

[I.34101] Restore Synchronizer

RST::SYNC a!

[I.34111] Restore Clock Reference Oscillator

RST::SYNC,TLI 3,CRO!

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

RST::SYNC a,TLI m[,SSP b]!

[I.34221] Restore Time Slot Interchange

RST::TSI sft!

[I.34241] Restore Time Slot Interchanges

RST::TSIS,CCN s,ALL!

[I.34231] Restore Time Slot Interchange Connected to a Unit

RST::TSIS,CCN s,UNIT q [,CONN(a[,b[,c[,d[,e[,f]]]]])]!

[I.34331] Restore Unit

RST::UNIT [q]q,FC sb!

[I.34321] Restore FTMI or DSPI

RST::UNIT [q]q,{FTMI d|DSPI}!

[I.34311] Restore Unit Controller

RST::UNIT [q]q,UC!

Subrate Commands

10

[I.19321] Subrate Terminated Cross-Connection

```
SCNT::[RATE rr,]MPTM [s]abcddd[/ff],MJU ssss[,MA(tttt,u)],\
<branch>[,<branch>][,<branch>][,<branch>]!

SCNT::[RATE rr,]MPTM uvmnpddd[/ff],MJU ssss[,MA(tttt,u)],\
<branch>[,<branch>][,<branch>][,<branch>]!
```

[I.19301] Subrate Terminated Cross-Connection

```
SCNT::RATE rr[,TPT],FROM [s]abcddd[/ff],TO [t]ghijjj[/ll]!
SCNT::RATE rr[,TPT],FROM uvmnpddd[/ff],TO wxkqrjjj[/ll]!
```

[I.19311] Subrate Terminated Cross-Connection

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

```
SCNT::RATE rr[,TPT],FROM [s]abcddd-eee[/01],\
TO [t]ghijjj-kkk][/01]!
```

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

```
SCNT::RATE rr[,TPT],FROM [s]abcddd/ff-mm,TO [t]ghijjj/ll-nn!
```

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

```
SCNT::RATE rr[,TPT],FROM uvmnpddd-eee[/01],\
TO wxkqrjjj-kkk[/01]!
```

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

```
SCNT::RATE rr[,TPT],FROM uvmnpddd/ff-mm,TO wxkqrjjj/ll-nn!
```

[I.19221] Subrate Cross-Connection

```
SCON::[RATE rr,]MPTM [s]abcddd[/ff],MJU ssss[,MA(tttt,u)]\
[,<branch>][,<branch>][,<branch>][,<branch>]!
SCON::[RATE rr,]MPTM uvmnpddd[/ff],MJU ssss[ ,MA(tttt,u)]\
[,<branch>][,<branch>][,<branch>][,<branch>]!
```

[I.19201] Subrate Cross-Connection

```
SCON::RATE rr[,TPT],FROM [s]abcddd[/ff],TO [t]ghijjj[/ll]!
SCON::RATE rr[,TPT],FROM uvmnpddd[/ff],TO wxkqrjjj[/ll]!
```

[I.19211] Subrate Cross-Connection

For a DS0A Channel

```
SCON::RATE rr,[TPT,]FROM [s]abcddd-eee[/01],\
TO [t]ghijjj-kkk[/01]!
```

For a DS0B Channel

```
SCON::RATE rr,[TPT,]FROM [s]abcddd/ff-mm,TO [t]ghijjj/ll-nn!
```

For a DS0A Channel

```
SCON::RATE rr,[TPT,]FROM uvmnpddd-eee[/01],\
TO wxkqrjjj-kkk[/01]!
```

For a DS0B Channel

```
SCON::RATE rr,[TPT,]FROM uvmnpddd/ff-mm,TO wxkqrjjj/ll-nn!
```

[I.19151] Subrate Disestablish Channel

```
SDCH::TO [s]abcddd[-eee][,PCH[ ppp]][,DCC]!
SDCH::TO uvmnpddd[-eee][,PCH[ ppp]][,DCC]!
```

[I.19421] Subrate Disconnection

```
SDIS::[RATE rr,]MPTM [s]abcddd[/ff],MJU ssss,\
<branch>[,<branch>][,<branch>][,<branch>]!
SDIS::[RATE rr,]MPTM uvmnpddd[/ff],MJU ssss,\
<branch>[,<branch>][,<branch>][,<branch>]!
```

[I.19431] Subrate Disconnection

```
SDIS::[RATE rr,]MPTM [s]abcddd[/ff],MJU ssss [,ALL]!
SDIS::[RATE rr,]MPTM uvmnpddd[/ff],MJU ssss [,ALL]!
```

[I.19401] Subrate Disconnection

```
SDIS::[RATE rr[,TPT],] FROM [s]abcddd[/ff],\
TO [t]ghijjj[/ll]!
SDIS::[RATE rr[,TPT],] FROM uvmnpddd[/ff],\
TO wxkqrjjj[/ll]!
```

[I.19411] Subrate Disconnection

```
SDIS::[RATE rr,][TPT,] FROM [s]abcddd{-eee[/01]|/ff-mm},\
TO [t]ghijjj{-kkk[/01]|/ll-nn}!
SDIS::[RATE rr,][TPT,] FROM uvmnpdd{-eee[/01]|/ff-mm},\
TO wxkqrjjj{-kkk[/01]|/ll-nn}!
```

[I.19101] Subrate Establish Channel

```
SECH::TO [s]abcddd[-eee],{DS0A rr|DS0B nn}\
[,{SEC|PCH[ ppp]}]!
SECH::TO uvmnpddd[-eee],{DS0A rr|DS0B nn}\
[,{SEC|PCH[ ppp]}]!
```

[I.19111] Subrate Establish Channel

```
SECH::TO [s]abcddd[-eee],RATE rr[,DP][,PCH[ ppp]]!
SECH::TO uvmnpddd[-eee],RATE rr[,DP][,PCH[ ppp]]!
```

[I.19621] Subrate Test Access

```
STST::MON,TO [s]abcddd[/ff],MJU ssss,[BRi,]TP kk!
STST::MON,TO uvmnpddd[/ff],MJU ssss,[BRi,]TP kk!
```

[I.19601] Subrate Test Access

```
STST::MON[,TO [s]abcddd[/ff]],TP kk!
STST::MON[,TO uvmnpddd[/ff]],TP kk!
```

[I.19651] Subrate Test Access Split

```
STST::SPL,TO [s]abcddd[/ff],MJU ssss,[BRi,],TP kk!
STST::SPL,TO uvmnpddd[/ff],MJU ssss,[BRi,],TP kk!
```

[I.19631] Subrate Split Test Access

```
STST::SPL[,TO [s]abcddd[/ff]],TP kk!
STST::SPL[,TO uvmnpddd[/ff]],TP kk!
```

[I.19661] Subrate Test Access

```
STST::{TLA|TLR} m,TP kk!
```

[I.19671] Subrate Test Access

```
STST::TPR,TP kk!
```

Test Access Commands

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

```
CTST::<tmode>,FAD ([s]abc[,[t]def])[,AIS][,INCL]!
CTST::<tmode>,FAD (uvmnp[,wxkqr])[,AIS][,INCL]!
```

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

```
CTST::FAD ([s]abc[,[t]def]){[,EMODE <emode>]\
[,FMODE <fmode>]}[,INCL];

CTST::FAD (uvmnp[,wxkqr]){[,EMODE <emode>]\
[,FMODE <fmode>]}[,INCL];
```

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

```
CTST::<tmode>,FAD ([s]abc[,[t]def]),\
FROM [u]ghi[,TO [v]jkl][,AIS][,INCL]!

CTST::<tmode>,FAD (uvmnp[,wxkqr]),\
FROM eghij[,TO jklmn][,AIS][,INCL]!
```

[I.20031] Non-Channelized Test Hub

```
CTST::HUB,FAD [s]abc,TO [t]jkl[,INCL]!
CTST::HUB,FAD uvmnp,TO wxkqr[,INCL]!
```

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

```
CTST::LPBKT,FAD [s]abc[,INCL]!
CTST::LPBKT,FAD uvmnp[,INCL]!
```

[I.20202] Non-Channelized Test NPC Release

```
CTST::TNR,ALL[,OOS]!
```

[I.20201] Non-Channelized Test NPC Release

There are two alternate formats depending upon the number of FADs specified.

```
CTST::TNR,FAD [s]abc[,OOS]!
CTST::TNR,FAD ([s]abc[,[t]def])[,OOS]!
```

```
CTST::TNR,FAD uvmnp[,OOS]!
CTST::TNR,FAD (uvmnp[,wxkqr])[,OOS]!
```

[I.26161] Hybrid DS3 Loopback

```
OPR::LPBK d[t],UNIT [q]q,MMFG a!
```

[I.19681] Disconnect Test Access Time Slot

```
STST::TPR,{ALL|LINKS}!
```

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

```
TTST::HUB,TO ([s]abcddd,[t]ghijjj),TG mmm[,<tc>]!
TTST::HUB,TO (uvmnpddd,wxkqrjjj),TG mmm[,<tc>]!
```

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

```
TTST::HUB,<tc>,TO [t]ghijjj,TP kk!
TTST::HUB,<tc>,TO uvmnpjjj,TP kk!
```

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

```
TTST::LPD,TG mmm[,<tc>]!
```

[I.29001] Looped Test Access

```
TTST::LPD,TP kk,<tc>!
```

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

```
TTST::MON,TG mmm!
```

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

```
TTST::MON,TO [t]ghi(jjj[-kkk][,lll,...])[,<tc>],TG mmm!
TTST::MON,TO wxkqr(jjj[-kkk][,lll,...])[,<tc>],TG mmm!
```

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

```
TTST::MON[,TO [t]ghijjj][,<tc>],TP kk!
TTST::MON[,TO uvmnpjjj][,<tc>],TP kk!
```

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

```
TTST::RT ffff,{DGA|DGB|DGC|DGD|DGP},\
LLB[,{TO|FROM}],{INI|TRM|ALW|INH}!
```

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

```
TTST::SPL,TG mmm!
```

[I.23001] Two-Way Test Access

```
TTST::SPL,TP kk!
```

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

```
TTST::TGR,TG mmm[-nnn][,OOS]!
```

[I.25101] Two-Way Test Access

```
TTST::TLA m[,NOT [t]rstvvv],TP kk!
TTST::TLA m[,NOT uvmnpvvv],TP kk!
```

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

```
TTST::TLA m,TG mmm!
```

[I.25501] Two-Way Test Access

```
TTST::TLR m[,NOT [t]rstvvv],TP kk!
TTST::TLR m[,NOT uvmnpvvv],TP kk!
```

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

```
TTST::TLR m,TG mmm!
```

[I.27001] Two-Way Test Access

```
TTST::TPR,TP kk[,OOS]!
```

Troubleshooting Commands

12

[I.81001] Query Facility Alarms

AUD::QRY,{CFA|CGA|LOS}!

[I.41211] Diagnose Cross-Connect Buffer

DGN::CCB sf[,CFT X'vwxy]!

[I.41251] Diagnostics, CCI and BT Packs

DGN::CCI s[,CFT X'vwxy]!

[I.41201] Diagnose CCNI

DGN::CCNI s[,CFT X'vwxy]!

[I.41031] Diagnose Communications Interface

DGN::CI[,CFT X'vwxy]!

[I.41261] Diagnose ETSI

```
DGN::ETSI sqq[,CFT X'vwxy]!
```

[I.41271] Diagnose All Expanded Time Slot Interchangers on ECCN Side

```
DGN::ETSIS,ECCN s,ALL!
```

[I.41011] Diagnose Link

```
DGN::LINK a[,CFT X'vwxy]!
```

[I.41001] Diagnose Main Controller

```
DGN::MC[,CFT X'vwxy]!
```

[I.41021] Diagnose Main Processor

```
DGN::MP[,CFT X'vwxy]!
```

[I.41361] Diagnose Network Processing Circuits

```
DGN::NPC [s]abc-[t]def!
DGN::NPC uvmnp-uvkqr!
```

[I.41351] Diagnose NPC

```
DGN::NPC [s]abc[,SIDE s][,CFT X'vwxy]!
DGN::NPC uvmnp[,SIDE s][,CFT X'vwxy]!
```

[I.41051] Diagnose Memory Card

```
DGN::{PMEM|SMEM}[,{CFT X'vwxy|EXCT|DBASE}][,VERIFY]!
```

[I.41101] Diagnose Synchronizer

DGN::SYNC a!

[I.41111] Diagnose Synchronizer

DGN::SYNC,TLI 3,CRO!

[I.41121] Diagnose Synchronizer Timing Link Interface

DGN::SYNC a,TLI m[,SSP b]!

[I.41221] Diagnose Time Slot Interchange

DGN::TSI sft[,CFT X'vwxy]!

[I.41241] Diagnose Time Slot Interchanges

DGN::TSIS,CCN s,ALL!

[I.41232] Diagnose Time Slot Interchanges

DGN::TSIS,CCN s,UNIT q,[,CONN(a[,b[,c[,d[,e[,f]]]]])]!

[I.41341] Diagnose DSPU

DGN::UNIT [q]q,DSPI[,CFT X'vwxy]!

[I.41331] Diagnose Format Converter

DGN::UNIT [q]q,FC sb[,CFT X'vwxy]!

[I.41401] Diagnose FLI

DGN::UNIT [q]q,FLI k[,CFT X'vwxy]!

[I.41411] Diagnose FMT

DGN::UNIT [q]q,FMT s[,CFT X'vwxy]!

[I.41321] Diagnose Facility Terminating Module Interface

DGN::UNIT [q]q,FTMI d[,CFT X'vwxy]!

[I.41431] Diagnose MIU

DGN::UNIT [q]q,MIU c[,CFT X'vwxy]!

[I.41421] Diagnose MXR

DGN::UNIT [q]q,MXR c[,DEV devc[,CFT X'vwxy]]!

[I.41311] Diagnose Unit On UC

DGN::UNIT [q]q,UC[,CFT X'vwxy]!

[I.56052] Clear Power Supply or Backup Failure

UTL::CLR,PWR pp!

[I.56401] Utility Location

UTL::LOC,<entity>!

[I.56031] Utility Query All

UTL::QRY,<parameter>,ALL!

[I.53104] Query All Common Equipment

UTL::QRY,ALL,COMMON!

[I.53101] Query All

```
UTL::QRY,ALL[,UNIT [q]q]!
```

[I.56331] Query DS3 Alarms

```
UTL::QRY,ALM,DS3!
```

[I.56021] Utility Query, Alarm Option, AIS

```
UTL::QRY,ALMOPT,NPC [s]abc[-[v]ghi],AIS!
UTL::QRY,ALMOPT,NPC uvmnp[-wxkqr],AIS!
```

[I.53111] Utility Query Alarms

```
UTL::QRY,ALMS!
```

[I.53151] Utility Query Alarms

```
UTL::QRY,ALMS,DBASE!
```

[I.53141] Utility Query Alarms

```
UTL::QRY,ALMS,{RT|DL} ffff!
```

[I.52101] Query Broadcast All

```
UTL::QRY,BCAST,ALL!
```

[I.52111] Utility Query Broadcast

```
UTL::QRY,BCAST,FROM [s]abcddd!
UTL::QRY,BCAST,FROM uvmnpddd!
```

[I.52121] Utility Query Broadcast From

```
UTL::QRY,BCAST,FROM [s]abc!
UTL::QRY,BCAST,FROM uvmnp!
```

[I.52011] Query Partial Cross-Connect Map

```
UTL::QRY,CMAP [s]abc[-[t]def]!
UTL::QRY,CMAP uvmnp[-wxkqr]!
```

[I.51091] Utility Query Configure

```
UTL::QRY,CNFGR!
```

[I.53121] Utility Query Circuit Status, NPC

```
UTL::QRY,CS,NPC [s]abc!
UTL::QRY,CS,NPC uvmnp!
```

[I.51031] Query Date

```
UTL::QRY,DATE!
```

[I.52031] Query Full Cross-Connect Map

```
UTL::QRY,DMAP!
```

[I.53221] Utility Query DS3 Bit Error Rate

```
UTL::QRY,DS3,BERMT[,UNIT [q]q]!
```

[I.53231] Query DS3 Line Build Out

```
UTL::QRY,DS3,LBO!
```

[I.51511] Query Error Correction Location

UTL::QRY,ECLOC!

[I.53109] Utility Query Equipage, Common

UTL::QRY,EQD,COMMON!

[I.53031] Utility Query, Equipment Connectivity

UTL::QRY,EQD,CONN!

[I.53022] Utilities, ETSIS

UTL::QRY,EQD,ETSIS!

[I.53201] Query Equipped Multiplexer Interface Units

UTL::QRY,EQD,MIUS!

[I.53211] Utilities, Query, Equipped Multiplexers

UTL::QRY,EQD,MXRS!

[I.53041] Query Equipped NPCs

UTL::QRY,EQD,NPCS[,{TOTAL|UNIT [q]q}]!

[I.53021] Utility Query Equipped

UTL::QRY,EQD,TSIS!

[I.53108] Utility Query Entity Equipage

UTL::QRY,EQD[,UNIT [q]q]!

[I.53011] Utilities, Equipage Status

```
UTL::QRY,EQD,UNITS!
```

[I.55011] Query Software/Hardware Error Recovery

```
UTL::QRY,ERR,{SWER|HWER}[,{INT mn|[DATE moda[ce]yr,]\
TOD hrmnsc}][,TN X'dddd][,EVENT X'eeee]\
[,ERCL{HARD|TRANS|APPINT}][,ENTY <entity>]!
```

[I.55401] Utility Query Error Source Register

```
UTL::QRY,ESR,CCN s!
```

[I.55411] Query ECCN Error Source Register

```
UTL::QRY,ESR,ECCN s!
```

[I.55111] Query Error Source Register Main Processor

```
UTL::QRY,ESR,MP!
```

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

```
UTL::QRY,ESR,NPC [s]abc[,SIDE s]!
UTL::QRY,ESR,NPC uvmnp[,SIDE s]!
```

[I.55501] Utility Query Error Source Register

```
UTL::QRY,ESR,UNIT [q]q!
```

[I.55531] Query Error Source Register

```
UTL::QRY,ESR,UNIT [q]q,DSPI!
```

[I.55521] Query Error Source Register

```
UTL::QRY,ESR,UNIT [q]q,FC sb!
```

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

```
UTL::QRY,ESR,UNIT [q]q,FLI k!
```

[I.55811] Query Error Source Register Formatter

```
UTL::QRY,ESR,UNIT [q]q,FMT s!
```

[I.55511] Query Error Source Register FTMI

```
UTL::QRY,ESR,UNIT [q]q,FTMI d!
```

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

```
UTL::QRY,ESR,UNIT [q]q,MIU c!
```

[I.55821] Query Error Source Register Multiplexer

```
UTL::QRY,ESR,UNIT [q]q,MXR c!
```

[I.51121] Query Feature Package

```
UTL::QRY,FPKG!
```

[I.52051] Utility Query From

```
UTL::QRY,FROM [s]abcddd[-eee]!
UTL::QRY,FROM uvmnpddd[-eee]!
```

[I.52071] Utility Query From

```
UTL::QRY,FROM [s]abc!
UTL::QRY,FROM uvmnp!
```

[I.51501] Utility Query Hub Identifier

```
UTL::QRY,HUBID!
```

[I.54131] Utility Query List Macro

```
UTL::QRY,LIST,MACRO <macro name>[,USER <user id>]!
```

[I.54101] Utility Query List Map

```
UTL::QRY,LIST,MAP <name>[,USER <user id>]!
```

[I.52581] Utility Query, Load

```
UTL::QRY,LOAD,{NPC [s]abc|TOTAL}!
UTL::QRY,LOAD,{NPC uvmnp|TOTAL}!
```

[I.54011] Query Log

```
UTL::QRY,LOG[,ALL]!
```

[I.53131] Utility Query Loopback

```
UTL::QRY,LPBK,NPC [s]abc[-[t]def]!
UTL::QRY,LPBK,NPC uvmnp[-wxkqr]!
```

[I.53181] Utility Query Hybrid DS3 Loopback

```
UTL::QRY,LPBK,UNIT [q]q!
```

[I.54211] Query Macro Attributes

```
UTL::QRY,MACRO,ATTR[,{USER <user id>|ALL}]!
```

[I.54221] Utility Query Macro/Map Space

```
UTL::QRY,{MACRO|MAP},SPACE[,{USER <user id>|ALL|SYSTEM}]!
```

[I.54121] Utility Query Macro

```
UTL::QRY,MACRO <name>[,USER <user id>]!
```

[I.54201] Utility Query Map

```
UTL::QRY,MAP,ATTR[,{ALL|USER <user id>|MAPNM <name>}]!
```

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

[I.52201] Utility Query Markings

```
UTL::QRY,MARK [s]abc[-[t]def]!
UTL::QRY,MARK uvmnp[-wxkqr]!
```

[I.52211] Query Channel Marks

```
UTL::QRY,MARK [s]abcjjj[-kkk]!
UTL::QRY,MARK uvmnpjjj[-kkk]!
```

[I.51001] Retrieve Memory Status

```
UTL::QRY,MEMSTAT!
```

[I.54111] Utility Query NPC Map

```
UTL::QRY,NPC,MAP <name>[,USER <user id>]!
```

[I.56041] Query Network Processing Circuit Parameter

```
UTL::QRY,<parameter>,\
{NPC [s]abc[-[t]def]|RT ffff|DL ffff}!
UTL::QRY,<parameter>,\
{NPC uvmnp[-wxkqr]|RT ffff|DL ffff}!
```

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

```
UTL::QRY,NPCTG rrr[-sss]!
```

[I.53051] Utility Query Options NPCs

```
UTL::QRY,OPT[,{TYPE mn|ALL}],NPCS!
```

[I.53105] Utility Query Status Common Equipment

```
UTL::QRY,{PEST|FAIL|OOS},COMMON!
```

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

```
UTL::QRY,{PEST|FAIL|OOS}[,UNIT [q]q]!
```

[I.51151] Query DS1 Performance Monitoring Report Schedule

```
UTL::QRY,PMSCHED,{NPC [s]abc[-[t]def]|ALL}!
UTL::QRY,PMSCHED,{NPC uvmnp[-wxkqr]|ALL}!
```

[I.56511] Query Unit Protection State

```
UTL::QRY,PSTATE,UNIT [q]q!
```

[I.52081] Utility Query Roll DS0

```
UTL::QRY,ROLL,DS0,{NPC [s]abc[-[t]def]|ALL[,UNIT [q]q]}!
UTL::QRY,ROLL,DS0,{NPC uvmnp[-wxkqr]|ALL[,UNIT [q]q]}!
```

[I.52091] Utility Query Roll DS1

```
UTL::QRY,ROLL,DS1,{NPC [s]abc[-[t]def]|ALL[,UNIT [q]q]}!
UTL::QRY,ROLL,DS1,{NPC uvmnp[-wxkqr]|ALL[,UNIT [q]q]}!
```

[I.52311] Utility Query, RTMAP, DLMAP

```
UTL::QRY,{RTMAP|DLMAP}[ ffff]!
```

[I.52511] Utility Query Subrate Far End Information

```
UTL::QRY,SCON,CH,TO [s]abcddd[-eee]!
UTL::QRY,SCON,CH,TO uvmnpddd[-eee]!
```

[I.52521] Query Subrate Cross-Connect

```
UTL::QRY,SCON,TO [s]abcddd[/ff]!
UTL::QRY,SCON,TO uvmnpddd[/ff]!
```

[I.54001] Query User|Link Screening Option

```
UTL::QRY,SCR,{LINK j[mm[-jnn]]|USER <user id>|LINKS|USERS}!
```

[I.52501] Utility Query

```
UTL::QRY,SECH,TO [s]abcddd[-eee]!
UTL::QRY,SECH,TO uvmnpddd[-eee]!
```

[I.52601] Query Trunk Signaling Conversion State

```
UTL::QRY,SIGST abcddd
UTL::QRY,SIGST uvmnpddd
```

[I.51131] Utility Query Sequence

```
UTL::QRY,SQN!
```

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

```
UTL::QRY,SRHDW,TO [s]abcddd[/ff]!
UTL::QRY,SRHDW,TO uvmnpddd[/ff]!
```

[I.56501] Utility Query Subrate Framing Status

```
UTL::QRY,SROOF,{TO [s]abcddd[-eee]|ALL}!
UTL::QRY,SROOF,{TO uvmnpddd[-eee]|ALL}!
```

[I.54340] Utility Query State Alarm Cut Off

```
UTL::QRY,STATE,ACO!
```

[I.56311] Utility Query State

```
UTL::QRY,STATE,NPC [s]abc[-[t]def]!
UTL::QRY,STATE,NPC uvmnp[-wxkqr]!
```

[I.56314] Utility Query NPC State

```
UTL::QRY,STATE,NPC [s]abc[-[t]def]!
UTL::QRY,STATE,NPC uvmnp[-wxkqr]!
```

[I.52321] Utility Query SCDG

```
UTL::QRY[,STATE],SCDG,{NPC [s]abc|RT ffff|DL ffff|ALL}!
UTL::QRY[,STATE],SCDG,{NPC uvmnp|RT ffff|DL ffff|ALL}!
```

[I.56301] Utility Query

```
UTL::QRY,STATE,SYNC!
```

[I.56361] Query State Unit DS3

```
UTL::QRY,STATE,UNIT [q]q,DS3 c[-d]!
```

[I.55113] Query Link Status and Protocol

```
UTL::QRY,STR,LINK j[mm[-jnn]]!
```

[I.55201] Utility Query, Synchronizer

```
UTL::QRY,STR,SYNC a!
```

[I.55311] Utility Query, Timing Link Interface

```
UTL::QRY,STR,SYNC a,TLI m!
```

[I.55321] Utility Query SSP

```
UTL::QRY,STR,SYNC a,TLI m,SSP b!
```

[I.55191] Utility Query, Status Register

```
UTL::QRY,STR,XC a!
```

[I.53001] Utility Query, Synchronizer

```
UTL::QRY,SYNC,TYPE!
```

[I.53081] Utility Query Test-Access Group

```
UTL::QRY,TGS mmm[-nnn]!
```

[I.52041] Query Destination Cross-Connect

```
UTL::QRY,TO [s]abcddd[-eee]!
UTL::QRY,TO uvmnpddd[-eee]!
```

[I.52061] Non-Channelized Utility Query To

```
UTL::QRY,TO [s]abc!
UTL::QRY,TO uvmnp!
```

[I.53061] Utility Query, Test Ports

```
UTL::QRY,TPS!
```

[I.53161] Query ANSI NPC Test Signal

```
UTL::QRY,TSIG,NPC [s]abc[-[t]def]!
UTL::QRY,TSIG,NPC uvmnp[-wxkqr]!
```

[I.56323] Query Time Slot Zero Monitor

```
UTL::QRY,TS0M,NPC [s]abc[-[t]def]!
UTL::QRY,TS0M,NPC uvmnp[-wxkqr]!
```

[I.56321] Query NPC Time Slot Zero

```
UTL::QRY,TS0 s,NPC [s]abc[-[t]def]!
UTL::QRY,TS0 s,NPC uvmnp[-wxkqr]!
```

[I.53071] Utility Query Equalization, Impedance

```
UTL::QRY,UNIT [q]q,FTMI b[,EQL]!
```

[I.51041] Utility Query Who

```
UTL::QRY,WHO!
```

[I.55181] Query Cross-Connect Status Bus

```
UTL::QRY,XCSB[,UNIT [q]q]!
```

[I.51081] Utility, Recovery, Password

```
UTL::RCY,PASSWD!
```

Miscellaneous Commands

13

[I.55711] Abort

ABT!

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

ADD::{RT|DL} ffff,MD g[g][,DGA [s]aaa][,DGB [s]bbb]
[,DGC [s]ccc][,DGD [s]ddd][,DGP[s]ppp][,{sss|NDL|RTF}]!

ADD::{RT|DL} ffff,MD g[g][,DGA uvjab][,DGB uvkcd]
[,DGC uvlef][,DGD uvmgh][,DGP uvjpr][,{sss|NDL|RTF}]!

[I.35301] Allow Switch of MMFG

ALWSW::UNIT [q]q,MMFG c[-d],{TOPRTN|TOSRVC}!

[I.19041] Append Component Command

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

[I.31521] Copy NPC

COPY::NPC [s]abc,TO [t]def[-[u]ghi]!
COPY::NPC uvmnp,TO wxkqr[-ghikl]!

[I.37301] Delete Feature Package Identification

DLT::FPKG nnnnnnnn!

[I.39401] Switch

SW::{NPC [s]abc|RT ffff,xxx},{PSW|USW|ALW|INH}[,FRC][,INCL]!
SW::{NPC uvmnp|RT ffff,xxx},{PSW|USW|ALW|INH}[,FRC][,INCL]!

[I.35101] Switch FLI To Protection

SW::UNIT [q]q,FLI,TOPRTN!

[I.35105] Switch FLI To Service

SW::UNIT [q]q,FLI,TOSRVC!
See I.35101

[I.35111] Switch MMFG To Protection

SW::UNIT [q]q,MMFG c,TOPRTN[,FRC]!

[I.35121] Switch MMFG To Service

SW::UNIT [q]q,MMFG c,TOSRVC!

[I.51111] Alarm Cutoff

UTL::ACO!

[I.55701] Backup Memory Transfer

UTL::BMTR,FROM <from>,TO <to>[,{EXCT|INCL}]!

[I.58001] Utility Boot

UTL::BOOT,FRAME[,CLR]!

[I.51021] Set Date

UTL::DATE <new-date>[,FORMAT ggg][,INT ii]!

[I.51011] Set DACS II System Clock or Daily Facility Alarm Reporting Time

UTL::[TOD hrmnsc][,{CFA|FAC X'abcdef|PRIM X'ghij|MONDAT}]!

[I.55731] Upgrade Frame

UTL::UPGRD!

Denial Codes

14

cc	*Explanation*
00	No conditions
01	Assignment of single priority to multiple SSPs
	Backup required before executing this command
	Invalid range for specified NPC type
	No FADs were activated by link n
	No test ports were activated by link n
	Subject entity is equipped
02	Invalid NPC type for AIS insertion
	Manual Pending is Active
	One or more FADs could not be released
	One or more test ports could not be released
	Subject entity is not equipped
03	DS3U NPC already In-Service
	No RDC or CUS circuits and INCL keyword used
	Subject entity is in service
	This NPC type does not allow unframed Clear-DS1
04	MONDAT keyword is invalid for this feature
	No NPC's out of service and OOS keyword used
	Subject entity is out of service
	This NPC type does not allow Payload
05	Invalid parameter combination
	Invalid use of CONV keyword

cc *Explanation*

Subject entity is pested
This NPC type does not allow unframed Clear-DS1

06 Device failed to format
Invalid range for specified FROM NPC type
Mismatch between MXR and MIU HDW types

07 Device failed to initialize
Invalid range for specified TO NPC type
Mismatch between MXR and NPC types

08 Cannot remove own link
Invalid FROM NPC type for AIS insertion
Mismatch between service MXR and protection MXR types

09 Invalid TO NPC type for AIS insertion
Last link in service
Wrong MXR type grown for this MIU

0A All CBTYPE NPCs out of service or failed
DGN on subject entity failed
Minor Slip threshold disabled before Major Slip threshold

0B Another signal already active prevents this signal from being sent
BOOT on subject entity failed
Invalid CEPT NPC

0C DGN on subject entity denied
PM scheduling report is already inhibited for this entity
The MONDAT and MONTIM parameters can not both be specified

0D PM scheduling report is already allowed for this entity
Unpesting error registers for subj. entity failed

0E No equalization for CEPT FTMI
Only one parameter is allowed
The specified parameter is not applicable to operation mode of the RT

0F Frame time is not set
Side specified for non-duplicated NPC

10 NPC out of service or failed
RT's alarm exists
Unit is not equipped

11 NPC not equipped
PMEM type no longer supported

cc *Explanation*

UC is out of service

12 Active CCN side not IS or failed or pested or hardware OOS
First and Last NPCs are outside unit boundary
UC is in service but failed

13 FTMI is not equipped
First and Last NPCs are outside a module boundary
UNIT not equipped, not in service, or failed

14 1 hr >= 24 hr for DM opt
CCB not eqd, not IS, or failed or inactive side CCB not eqd or not IS
FTMI is out of service
OFFSET range is invalid

15 15 min >= 24 hr for SERS opt
FTMI not equipped, not in service, or failed
NPC is unequipped

16 15 min >= 24 hr for ERS opt
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
Only up to 4 historical data registers are allowed
SYNC TB is not equipped

17 15 min >= 24 hr for US opt
Command did not execute for any entity specified in the command
SYNC is out of service
TSI not eqd, not IS, or failed or inactive side TSI not eqd or not IS

18 15 min >= 24 hr for SLIP opt
CCNI is out of service
DSPI not equipped, not in service, or failed
DSPI not in service or failed
Exceeded limit of reports with accum. interval of 15 min. or less

19 Exceeded maximum limit of PM reports
Mate CCN side is out of service
Test ports must be on CAS

1A Mate SYNC is out of service
Report already exists
Required FLI not equipped, not in service, or failed
The facility parameter not programmable for specified x or z parameter

cc *Explanation*

1B CCN side s is in service
Historical data can not be specified
Required MXR not equipped, not in service, or failed
Two digroups from same bank added to different FTMIs

1C CCN side s is out of service
Reqd FMT not eqd,not IS,or failed,or inact side FMT not eqd, or not IS

1D Level field is not allowed
Required MIU not equipped, not in service, or failed

1E Customer control or red circuit exists
Monitored Date field is not allowed
Monitored Date field is not allowed

1F FTMI is in service but failed
Scheduled reporting for this npc is inhibited

20 Line format types are incompatible
Only DAILY for accumulation interval is allowed
Only DAILY for accumulation interval is allowed
Option rr/m has not been set up on 2nd database
Software Identification Block is not readable

21 Minor >= major for SLIP opt
Only 15MIN for accumulation interval is allowed
Only 15MIN for accumulation interval is allowed
Software Identification Block failed comparison
Trunk conditioning is invalid

22 FMC cannot be cross-connected in this format
FTMI is PESTED
Minor <= major for BER opt
Release number mismatch

23 Minor >= major for COFA opt
No PM data available
No PM data available
Point number mismatch

24 Monitored Time field is not allowed
Monitored Time field is not allowed
PDI Version number mismatch
Unit type error

cc *Explanation*

25 Accumulation Interval field is missing
FTMI type error
Invalid FPI value

26 Feature deactivation would leave system with core software
NPC type error

27 Disable not allowed - supports another feature
Illegal connectivity specified
Only historical data can be specified

28 Connectivity contains unequipped units
Feature is active
Scheduling report could not be found

29 Feature not enabled
IW is UMUX (18) but NPC not type DE4yz
This signal is already being sent

2A DMI combined with T1DM
Database not loaded
Deny Clear-2MB for Alternate Maps
Incorrect pack type in slot

2B Bit c not settable
Database corrupt
Maj|Min BER threshold is 7, but not in T1DM or Fe mode
Reading Feature Package Id from PMEM failed

2C Write to CPR failed
Writing Feature Package Id to PMEM failed
not allowed for clear 2MB

2D RTF keyword is used without DGA
TS0 is crossconnected to TS0

2E RTF keyword and the operation mode does not match
bit value not allowed for NPC type

2F Channels assigned, cannot be grown as test port
TS0 connected to nonTS0 in Mode 2 - "a" should be "-" or equal to "b"
The RT id entered is not a retrofit one

30 NPC not provisioned for CAS
No signals active
Termination is already assigned

cc *Explanation*

Unit is not FTU type

31 Accumulation Interval field is not allowed
Failed to switch SYNC side
NPC not provisioned for NSA

32 Bit 3 provisioned for use as RAI3
Termination is under test
Threshold value is out of range

33 Bit 4 provisioned for use as RAIS
NPC not DA or TA type.
Termination is a test port
Wrong TLI type

34 NPC type option xyz is unassigned
NPC type option xyz is unassigned or invalid for feature package
Termination is under customer control (CUS)

35 Invalid use of INCL keyword
NPC has active circuit
Termination is protected (RDC)
The mate FLI is OOS and Protection MIU is equipped

36 DSPI not equipped
INCL keyword needed when restricted Insertion Word specified
TD on one(both) sync(s) is not equipped or not in-service
Termination is not connected as indicated
The mate FLI is OOS and Protection MXR is IS

37 DSPI out-of-service
Major/Minor BER threshold value is invalid for SLC NPCs
Selected FLI has LOC with at least one inservice MXR
The mate FLI is OOS and at least one Service MXR is equipped
Two confs. were prev. connected or the concat. cause BRD-BBL loop

38 Deny SP Type NPCs for Alternate Maps
FC not equipped
The selected FLI is IS and Pested and at least 1 Service MXR is eqd
Unselected FLI has LOS with at least one inservice MXR

39 An autonomous switch is in progress
MXR LOS with unselected FLI
Not enough TSIs for CCB test

cc	*Explanation*
	Signaling state of the trunk failed for the channel
3A	Bit 4 provisioned for use as RBER
	Invalid FPI value
	Invalid poll time
	No unmapped slots on a bus
3B	Bit 5 provisioned for use as SFI
	Not valid for frame administrator
	Unspecified L2 address
3C	Bits 3 through 8 are provisioned for Transmic 1G
	Duplicate L2 address
	TS0 specified with width not 1
3D	Alarm bits cannot be passed through or inverted
	Illegal test access mode for TS0
	No mapped slots on a tsi
3E	DSPI failed
	Mapped slots exist on a tsi
	TS16 specified for test with width not 1
3F	Conference exists in a DMB
	G4 to G4.1 retrofit failed
	Illegal test access mode for TS16
40	CCN denied request
	FC out of service
	Not enough DSPPs are equipped
	Only one channel allowed to have this language
	Signaling processing is not activated for the channel
	The service FLI is out of service or pested (TOSRVC option)
41	Failed to boot subject CCN side
	Language "F" provisioned for this channel
	Not enough DSPPs are in service
	The protection FLI is out of service or pested (TOPRTN option)
42	Change not valid
	DSPP not in service, or failed
	RST failed to boot program
	The service FLI is already selected (TOSRVC option)
43	(NPC) Hardware mismatch

cc *Explanation*

RST failed to boot DB
The protection FLI is already selected (TOPRTN option)
Trying to change in NTR direction

44 Invalid direction specified for NTST TLA/TLR
NPC not IU/TI type
Service MXR is not equipped

45 A DMB on the UNIT is OOS
IU/TI type NPC failed
NPC not provisioned as DGA
Service MXR is out of service

46 Failed to boot CONF file
NPC Failed or Out of Service
Service MIU is out of service
virtual SLC NPC not provisioned

47 Failed to boot DB
IU/TI type NPC
Invalid channel number
Protection MXR is out of service

48 Bad PRIM X'efgh values
Failed to boot journal--recurrence indicates database corruption
Invalid SLC Mode-III channel number
Protection MIU is not equipped

49 FAC keyword is invalid for this feature
Failed to boot unit
Protection MIU is out of service
test group unequipped

4A PRIM keyword is invalid for this feature
Red circuit, INCL not entered
SMEM error, boot from PMEM
The protection MMFG is serving another facility
channel part of a TP or TG

4B Customer controlled circuit, INCL not entered
PMEM error, boot from SMEM
The Service MMFG is already under protection
The common bit(s) is(are) not set in both FAC & PRIM

cc	*Explanation*
	channel already under test
4C	BCON BBL has one or more legs under test
	Both FAC and PRIM values(keywords) are required
	Failed to boot CI
	The Service MMFG is not under protection
4D	DSPI is in service
	Gateway test access not supported
	MP database not consistent with Configuration file
	The switch is allowed (not inhibited)
4E	IW option is not allowed for new type of Clear-DS1 NPC
	RTBC conference exists
	The switch is already inhibited
4F	BER must not be less than 4 for Clear DS1
	NPC is not part of a one-way connection
	inconsistent BCON width for test access
50	CPR in buffer overflow condition
	Can't run test on active side
	Invalid MIU/MXR type specified
	Trunk conditioning doesn't match that of conference
	invalid channel designation for BCON
51	C-bit modify function is disabled
	CUS flag doesn't match that of conference
	General boot failure (vanilla flavor)
	TG width incompatible with circuit
	The pair MXR is not equipped
52	CPR is not equipped
	Database is empty
	FDL selected with width not 1
	RDC flag doesn't match that of conference
	The MMFG is protected
53	CPR is out of service
	Database is not empty
	TO side of two-way to be converted is not an FTU NPC
	The associated MMFG is under protection (for Service MIUs)
	inconsistent HUB width for specified TG

cc *Explanation*

54 Conversion leg is terminated
Cross-connect to CPR is required
The MIU is already equipped
invalid mode for TLA/TLR

55 Invalid CFT code
Some associated NPCs are equipped
Width of existing two way does not match conference width
circuit already terminated

56 FROM is a two-way and no CONV specified
The MXR is in service
Unrunnable CFT code
circuit not terminated

57 Designated TG or circuit to be tested in process of being rolled
FROM is not a backbone leg
SIDE must be specified for subrate NPC

58 DSPU is not equipped
NPC is OOS for a TGR command and OOS keyword not specified
SLC 96 MD 1 RT DGP requires mate NPC to be unequipped
Specified width does not match existing conference width

59 DSPU unit controller is out of service
Invalid TC specification
NTR invalid since existing conference is not already NTR
Number of DGPs on each unit is limited to 32

5A DSPU unit controller is failed
LPD invalid since existing conference is not already LPD
NPC not in service or failed

5B C-bit modify function is active
TO is not a leg of this/any conference
channel is OCON in opposite direction

5C Can’t disconnect return leg unless entire conference disconnected
Inconsistent or invalid circuit type for Nx64Kbit TA
NPC providing timing to inservice SSP

5D Inconsistent Signaling on CEPT NPCTGs
Sync source NPC is not inservice
TO is the backbone leg of a conference

cc *Explanation*

5E Sync source NPC is not equipped
TO is a part of the same conference as a previous TO
invalid test access mode

5F Conference is NTR: has no switchable return leg
input channel out of range (SLC not supported)

60 Conference is LPD: has no switchable return leg
Selectable AIS not valid for specified NPC(s) type
User macro/map space is full
circuit contains mapped channels for HUB request

61 All NPC(s) are either not valid or not grown
System macro/map space is full
TO is already the return leg
not all FROM channels on same NPC

62 File is being accessed
IU type NPC(s) cannot be provisioned for Minor Alarm
Invalid channel number
NPC type mismatch
None of the designated NPCTG(s) are equipped

63 File already exists
NPC is a DGP
NPC is a channelized NPC
None of the designated TG(s) are equipped

64 File doesn't exist/can't be accessed
Frame is not in MCOND
NPC is a non-channelized NPC
NPC is already grown and added as SLC digroup
TG width too large for single NPCTG

65 Another NPC is grown and added as this digroup
Command invalid while backup in progress
Ending channel is out of range
Link being used is not Link 1

66 DGP designated to bank without data link
Map/macro file write deferred until backup is completed
TG number previously assigned
User login-id is not DAX

cc *Explanation*

67 DGA is not added
Improper roll command sequence
NPC(s) actual type incompatible with TYPE keyword and/or alarm type
User logged off during session

68 Incorrect language/addressing mode
NDL option is used without DGA
NEW NPC already cross-connect or mapped channel(s) on new

69 Incorrect number of parameters
Mapped parity channel(s) on new
Use of this NPC is RESERVED for SLC 96 MD 1

6A NPC type is not DS type
New in CGA or PBA
No macro is currently executing

6B Invalid line number
No mapped channel on old
Operation mode and digroup name don't match

6C File is empty
Framing format, digroup name & operational mode don't match
Old and new chan on same NPC and within the range

6D Counting sequence and operational mode don't match
One NPC is a non-channelized type and the other is not

6E DGA with NDL option is not provisioned with D4 or ESF framing format
No edit session active
Old or new is a non-channelized type in a DS0 command

6F Adding two digroups from one bank on same DDC
The OLD or NEW NPC is already being rolled.
The session is terminated due to maintenance operation

70 Digroups from same bank have different modes
NPC invalid type
One of the FAR end channels is being rolled
Some circuits not activated,cleared or pictured
Try to add a BBL to VC,but the VC already has backbone

71 Digroups from same bank have different counting sequence
NPC is a Facility Access Digroup
The reference map does not exist

cc	*Explanation*
	Try to delete a BBL leg from VC;however, VC has no BBL leg
	Unmapped channel(s) on old
72	Digroups from same bank are added to two different FTUs
	Invalid test mode for an unmapped test session
	One of the far NPC(s) is SLC
	The NPC of VC BBL leg doesn't match that in the input command
	The map is not valid
73	Both sides of CCN are OOS
	Channel has a FAR, which is within the range
	Invalid PWR/MISC alarm level
	Invalid test mode for a one-way test session
	The first channel of VC BBL leg doesn't match that in the input command
74	At least one UC is OOS or At least one UC is failed
	Old and new are the same NPC in a DS1 command
	PWR/MISC alarm is specified to a digroup other than DGA
	Try to delete a BRD leg from VC; however, VC has no BRD leg
75	At least one UC is not the correct type
	Old and new channels have not been paired by a BCAST command.
	Test session already exists
	The input BRD leg is not in VC
76	AIS not entered for SPLTE/SPLTF/SPLTEF/LOOPE/LOOPF
	Alarm option and bank mode don't match
	Channel or NPC not bridged
	The first channel of VC BRD leg doesn't match that in the input command
77	Obsolete circuit type
	Tried to disconnect a nonexisting VC
	Unassigned operational mode
78	Protection switch process failed
	Ranges of old and new do not match
	Try to operate a ONE-WAY conference with a TWO-WAY input command
79	DCTN conference channel cannot be rolled
	DGA/DGP of RT/DL Mode I must be assigned to one DDC
	NPC is not a Facility Access Digroup
	Try to operate a TWO-WAY conference with an ONE-WAY input command
7A	Mode I RT/DL IDs don't match for DGA/DGP on same DDC

cc *Explanation*

NPC is not an E-end
Testport/testgroup channel cannot be rolled
The NPC to delete has not been previously added to map

7B Channel out of bound in a BCON/v.c
Invalid change from previous mode
Other NPC on this DDC not the same digroup for Mode I DGA/DGP

7C Different DSxyz types are used for DGA/DGP on same DDC for Mode I
Logical conflicts found in the map
NPC is not a F-end
Parity channel out of bound on new

7D Can't start new session - previous session still verifying
Not first channel in a BCON/virtual conf
The NDL options are different for DGA's on the same DDC for Mode I

7E Bank id number not found
Framed/Unframed clear 2Mbit/s NPC invalid for Automatic CRC-4
Insufficient data for setting up a conference

7F NPC is not added
No OOS keyword is given for out-of-service NPC
Unframed clear 2Mbit/s NPC invalid for TS0 processing

80 Database conference width does not match the range in input command
Framed/Unframed clear 2Mbit/s NPC invalid for Transmic 1G, 2G
Inconsistent channel range width
NPC number and bank id don't match
Some TSIs to degrow are in service

81 Conference Port is currently registered to a different channel
Frame ID is protected
Framed/Unframed clear 2Mbit/s NPC invalid for Firmware Timing
Invalid input BBL as fmd in ONE-WAY command
NPC number and digroup name don't match

82 Can not use 12-th TP when NPCTP is in the T1DM or DMI mode
DL ffff is used w/ operational mode other than Mode I
Invalid input BRD as tmd in ONE-WAY command
Unframed clear 2Mbit/s NPC invalid for Bit 4 used as RA IS/RBER

83 Attention: preceding ccode 83 is an anomaly - see problem list
Conference Port is already registered to the same group of channels

cc *Explanation*

Invalid input BBL in terminated TWOWAY/ONEWAY command
Language is not allowed
NPC type is inconsistent with FTMI type
Option not programmable for this NPC type

84 Channel(s) is already registered
Incompatible types of NPCs in a DDC
Mate NPC is not equipped
NPC is non-channelized
Problem occurred while accessing SMEM or unformatted SMEM
Trying to add or delete a leg when a conference is under test

85 IW not allowed to be specified in Clear 2Mbit/s
Input BRD (BBL) has same NPC and channel as BBL (BRD)
NPC has been designated as NPCTP
New bank id is an assigned one
Problem occurred while accessing PMEM
Using the 24th channel of a T1DM NPC

86 Attempt to remove DGA w/o INCL keyword or prior prot. sw. request
NPC is NPCTG and chan 24 is used in a TG;Can't change to T1DM or DMI
NPC number out of range
Source does not contain requested information
Using the 24th channel of a DMI NPC

87 Copy source NPC is not equipped
DGP is protecting a primary digroup
NPC as 12th test port can not change to DMI nor T1DM
Old_tape is a special install tape

88 Conference port is not registered
NPC is not a NPCTP
Report interval is not an integral number of accumulation interval
SMEM is a normal SMEM

89 Can't delete because not all associated NPCs of the RT are entered
Conference port is currently connected
Interval is not valid/not available
Interval is not valid/not available
NPC is not designated for this NPCTP/NPCTG
Problem occurred while accessing BOTH_MEM

cc	*Explanation*
8A	Mismatch between channel 0 crossconnect and keywords NPCTP is not grown x & z parameters on DSxyz are inconsistent
8B	Channels and conference port do not match Digroup name and bank id don't match PMEM not in service or not ready Test port is not idle or frame is not inservice
8C	DB MP or units ram error Digroup is protected The two FADS entered are not associated with one another.
8D	Clear gateway test access disallowed. DB PMEM error OP-CL-RD-WR-SK RT/DL has unrestored DGA
8E	Attempt to add to a null transmitting port DB can't send or receive mail DGA protected; use INCL to remove, or unswitch protection No mapped circuit under test; emode/fmode can't be changed.
8F	Can't lock or unlock ram database NPC not deleted Number of transmitting ports does not match existing conference One-way circuit under test; emode can't be changed.
90	Can't mount or unmount BOTH_MEM DB can't get the slave mail box Invalid change parameter combinations NDL option is specified for DGA The total number of receiving ports specified exceeds the max. emode/fmode can't be changed under current test mode.
91	Can't mount or unmount SMEM Can't mount or unmount password recovery card Duplicate ports specified Option not programmable for this NPC type SR NPC was specified - not allowed Sync is not configured yet
92	Boot TLI failed Can't mount or unmount PMEM

cc	*Explanation*
	Transmitting port cannot be dropped
93	All digroups not out of service
	PA NPC threshold already in inhibit mode
	SMEM is not present
	TB type in hardware mismatches DB
	The conference does not exist
94	Conference port is not in conference circuit
	Mate RT/DL mode is different
	PA NPC threshold already in allow mode
	SMEM unit is not restored
95	Invalid option,mailbox or flag
	Range overlapping between FROM and TO or between two TOs
	TG East/West type inconsistent with each other or circuit
96	Conference already exists
	Subject PWR to be cleared is not failed
	Unit(s) OOS, and additional backup required
	incompatible HUB feature types
97	Conference port cannot be dropped out of conference by switch command
	Entity can’t be addressed in this configuration
	User quit the menu
	option LOCAL already exists
98	Checksums verification failed
	Error in input
	Test Port release failed
	Unable to verify Configuration file since MP DB not loaded
	option REMOTE already exists
99	G1 SMEM for SMEM->PMEM w/journals
	No Facility Line Interface (FLI) is In Service
	Unit type (xyz) not supported
	can’t change option, protection switch is active
9A	Formatter (FMT) on active CCN side is Out-Of-Service
	can’t change option, inhibition is active
	hub id not set when MJU pack grown
9B	INCL must be specified for SRDC ckts
	Termination is under test or is a test port or group

cc	*Explanation*
	The MXR is not grown
9C	Parity channel cannot be within the range of a DS0 command.
	SRDC timeslots are allocated on this NPC
	The MMFG is already In-Service
9D	Attempt to remove a Service MIU which is under protection
	NPC containing channel 000 is invalid type.
	current hub id specified in command
9E	MONDAT set to ALL is not allowed
9F	MONTIM set to ALL is not allowed
	current error corrector pack type specified in command
A0	Illegal LEG LEG combination
	No SAFE alarm for DGP
	Not a CRO TLI
	TS16 specified for CAS TG
	The selected MXR associated with the NPC is Out-Of-Service
A1	CRO type TLI (SSP portion not required)
	Illegal BBL BBL combination
	Loop back inhibited for digroup
	NPC has been designated as NPCTG
	The parameter specified does not match with the NPC type
	The selected MXR associated with the NPC is In-Service but failed
A2	All channels assigned, cannot be grown as NPCTG
	Illegal BRD BRD combination
	SSP number is illegal
	The requested digroup is carrying service
	The selected MIU associated with the NPC is Out-Of-Service
A3	Channels assigned, cannot be grown as test group
	Illegal SYM BRD combination
	LLB not initiated
	SSP number required
	The selected MIU associated with the NPC is In-Service but failed
	Transmic 1G NPC designated as SYNC source invalid
A4	Both syncs are in-service
	Firmware timing invalid for Transmic 1G NPC
	Illegal BRD SYM combination

cc	*Explanation*
	NPC is not a NPCTG
	The MXR diagnostics failed
A5	(Timing Distributor) TLI is not equipped
	AIS keyword incompatible with NPC type
	Autonomous loopback is active on DGA
	FPI on SMEM does not match one on PMEM
	Illegal BBL SYM combination
	Test group is not idle or frame is not In Service
A6	Deny SLC for Alternate maps
	Illegal SYM BBL combination
	Invalid switch request for DCLU
	Test group release failed
	The MIU diagnostics failed
A7	Deny non-channelized NPCs for Alternate Maps
	LEG mode was assigned to a DSPU-type NPC on the input
	NPC has been designated as NPCTP
	Sync 0 is not in-service
	The MIU boot failed
A8	A DMB mode was assigned to a FTU-type NPC on the input
	NPCTG not grown
	Sync 1 is not in-service
	The MMFG is Out Of Service
A9	Both syncs are out-of-service
	Circuits TCONed itself cannot be UTST
	Cross-connect not consistent with feature package
	INCL not specified and at least one NPC In Service
	No unmapped time slot
	Trying to add a BBL to a DMB conference that already has one
AA	DSPP pack UC Failed or Out of Service
	NPC is NPCTG, changing to CAS/NSA is not allowed
	Range entered without FRC keyword
	Syncs are equipped
	Trying to add a broadcast leg to a conference set up as SYM
AB	Bad sync mode
	DSPP pack FTMI Failed or Out of Service

cc	*Explanation*
	FRC specified for protection, and service MMFG is In Service
	Trying to add a SYM leg to conference set up as broadcast
AC	DSPP pack NPC Failed or Out of Service
	No protection is available for the Service MMFG
	Timing Extractor type TLI (need SSP info)
	Trying to add a BBL leg to a conference set up as SYM
AD	Not Timing Extractor type TLI (not SSP)
	The Protection MMFG is selected, and auto. switchback is unavailable
AE	A subrate circuit pack is specified in the command line
	MXR is failed
	NPC used as a timing reference
	Wrong TLI type (need CRO grow command)
AF	3 Timing Distributor type TLIs are equipped
	Delete or change a leg from a conference that has no leg
	MIU is failed
	Number of SLC RT's on each unit is limited to 80
B0	Bad use of INCL, cannot override the current state of the conference
	Combination of bit g (b7) and h (b8) is invalid
	FLI is out of service
	Unit 1 denied request
B1	Bad use of INCL, cannot use keyword on conf.-to-conf. connection
	FMT is out of service
	Illegal priority value
	Unit 2 denied request
B2	Illegal SSP type (not same as other SSPs)
	MXR is out of service
	Transmission parameters in command will not change existing settings
	Unit 3 denied request
B3	MIU is already in service
	Trying to change level out on BRD leg
	Unit 4 denied request
	X option is illegal
B4	NPC is channelized type
	Trying to change level in on BBL leg
	Unit 5 denied request

cc	*Explanation*
	Y option is illegal
B5	CPR circuit pack specified in the command
	NPC is a test port
	Unit 6 denied request
	Z option is illegal
B6	C-bit operations are enabled
	Sync architecture is same
	TO side is not a DMB type NPC
	The MXR boot failed
B7	Cannot perform DMB CHG on input direction F
	No DSP unit equipped
	Some TLIs are still equipped
	The associated MXR is In-Service but pested
B8	CRO is still equipped
	Cannot perform DMB CHG on input direction T
	No CBTYPE NPC equipped
B9	Cannot perform DMB CHG on input direction B
	No CBTYPE NPC capacity remaining
	Timing Extractor type TLIs are present
BA	Inactive side NPC out of service and inactive side in service
	TLI 3 or 4 still equipped
BB	Timeslot channel numbering not allowed with CAS
BC	DGA and DGB must be specified together in the command
	SSP with 0 priority present
BD	DGC and DGD must be specified together in the command
	Looped Circuit Access not allowed
	SSP with non 0 priority present
BE	Hardware mismatch or not present
	NPC type option Y is invalid for SLC-96 NPC
BF	MIU is not equipped
	Sync mode is same
C0	Cannot perform DMB CHG on input direction L
	NPC addressing scheme selected is not allowed in the configuration file
	Sync stratum is same
C1	Cannot perform DMB CHG on input direction G

cc *Explanation*

Stratum not allowed

C2 Cannot perform DMB CHG on input direction A
ETSI cannot be initialized when ECCN side is OOS or inservice but pested
SSP type(options) same

C3 Can't perform DMB CHG because NTR flag set on FROM side
Wrong SSP type(Timing Extractor type)
XMIT continuity test won't be run: CFT code specified

C4 Can't perform DMB CHG because NTR flag set on TO side
Sync architecture different
XMIT continuity test won't be run: no XMIT timeslots available

C5 Option NOT leg can not appear with F, T, or B
RCV continuity test won't be run: no available inservice NPCS for FC/FMT
Some priority values required

C6 No available timeslots on any of the inservice NPCS associated with FC/FMT
Option NOT leg is not a FTU leg
Some priority values not required

C7 Option NOT leg is not in conference
Priority values are same
RCV continuity test won't be run: no DMB timeslots available

C8 Exceeded depth limit of 6 on broadcast conference concatenation
RCV continuity test won't be run: at least one timeslot in use
Sync pack denied command

C9 CATP due to skipping continuity test for FMT
In-service NPC change not allowed
Syncs failed to cross couple
The INCL keyword is needed for DGA

CA Connectivity can not be specified for CEF unit
Mate sync pack denied command
New NPC same as existing one
No protection switch is currently active

CB NPC parameter only valid with TU type TLI
Protection entity out of service or failed
Skip error summary since adjacent pack not in service or pested
Sync not completely reset

CC NPC is still provisioned to provide sync timing

cc	*Explanation*
	Protection entity is unequipped
	RCV continuity test won't be run: SYNC OOS or pested
CD	Data link failed
	NPC not designated as sync timing source
	Subject NPC does not support CEPT BER feature
CE	CCI is out of service
	Far end failed to respond
	NPC already allocated as sync timing source
CF	MIU is out of service
	NPC already grown as non-synchronization source
	SYNC is inservice but failed
D0	Command is Frame administrator (DAX) only.
	FROM NPC is not provisioned as DGA
D1	CCI is not present
	Cannot create any more users
	Protection switch existing is autonomous
	TO NPC is not provisioned as DGA
D2	ETSI is not present
	Protection switching is already inhibited
	User has been created
D3	CCNI is inservice but failed
	Corresponding NPC for FROM virtual channel is not provisioned
	Protection switching is already allowed
	User does not exist
D4	A user is already logged in on the link/vc
	Active CCN side is out of service
	CCI is inservice but failed
	Corresponding NPC for TO virtual channel is not provisioned
D5	Boot in progress, can't service request
	CCB is not equipped
	No user is logged in on the link/vc
D6	CCB is out of service
	Incorrect or missing password
	Invalid FROM channel number
D7	CCB is inservice but failed

cc	*Explanation*
	Cannot execute privileged command
	Invalid TO channel number
D8	Cannot remove Frame administrator
	ETSI is not equipped
D9	ETSI is out of service
	Invalid FROM channel number range
	User has logged in somewhere
DA	ETSI is inservice but failed
	Invalid TO channel number range
	User is not logged in
DB	FC is inservice but failed
	User still owns files
DC	A loopback is active on the FROM termination
	No zeros allowed for DAX privilege
DD	A loopback is active on the TO termination
	FMT is in service but failed
	Password recovery card is not READ-only
DF	Command and protocol are inconsistent
	FLI is inservice but failed
	Unmatched channel range
E0	Bad FAC value entered
	ETSI not equipped, not in service, or failed
	Hardware database mismatch
	Unmatched channel range involving SLC Mode III termination
E1	A locally switched channel is specified as BBL, LEG, or BRD
	No Memory Backup Has Been Scheduled
	Virtual circuit is not specified for X.25 link
E2	Attempt to one way cross-connect a locally switched channel
	Invalid link number specified
E3	Attempt to broadcast a locally switched channel
	Can’t Use LCN 0/LGN 0 - designated as a supervisory channel only
	Invalid keyword(s) combination specified
	One way unassigned channel/NPC in QRY,TO
E4	Broadcast unassigned channel/NPC in QRY,TO
	Invalid NPC addressing scheme specified

cc *Explanation*

NPC already has Equipment Loopback
RT-DCLU cross-connect with different ids

E5 Adding DL DGP forbidden for SLC 96 MD 1
Invalid combination of "x" and "z" values
No user/link needs to be changed
RT-DCLU cross-connect with different channel number

E6 Cross-connect a non Mode I channel to DCLU
DB SMEM error OP-CL-RD-WR-SK
No DL digroups can be added until the associated RT bank is created

E7 Cross-connect a non SLC channel to DCLU
Invalid combination of "x" and "y" values
PMEM not restored

E8 Other FLI is OOS
SC invalid for cross-connection specified

E9 MUX or TRB invalid for cross-connection specified
There are no INS MXRs to run test on

EA AIS invalid for cross-connection specified
XON/XOFF flow control is supported only on Snider link

EB ENQ/ACK flow control is supported only on Snider link
NAM invalid for cross-connection specified

EC Invalid channel 000 cross-connection specified

ED Invalid channel 031 cross-connection specified
OLD termination is not mapped

EE Trunk type is not allowed in the circuit specified

EF Invalid circuit type
SSC circuit pack is still equipped; pull-out/remove SSC
Software does not contain Enhanced CEPT feature

F0 Clock absent for XPC to loop back
Range not allowed for circuit type
SSC Diagnostic Failure

F1 File has already been cleared
PMEM and SMEM synchronization fail
Parameter only valid with PA, PB, or PC type NPCs

F2 Invalid NPC number specified
Not a DACS II compatible Flash Card

cc *Explanation*

F3 Flash Card is empty
Maximum number of CPRs have already been grown for this unit

F4 OLD and NEW channels cannot be the same
PMEM and SMEM are different

F5 Conference first channel doesn't match input
Flash Card is not present
INCL keyword needed to perform this command

F6 Flash Card is bad
Leg type mismatch
T1DM or DMI mode and channel 24 is connected

F7 Can't mount or unmount old_tape
Corresponding NPC for virtual channel is not provisioned
OLD data channel cannot be parity channel type

F8 OLD and NEW Data and Parity channels partially overlap
Old_tape is not present

F9 Cannot clear journals for OOS unit
Mate NPC (DGA/DGP) is in service
Old_tape unit is not restored

FA Bad old_tape DB generic
SSC software out of date
The mode of the RT is not applicable

FB Old_tape with journal
PMEM verification failed

FC Invalid executable on card
Superuser logged on
ZBTSI option is only valid with the ESF mode

FD Command not allowed
Line Loop Back is active
NPC range crosses unit boundary
Problem occurred while accessing old_tape

cc *Explanation*

FE AIS entered for MONE/MONF/MONEF/SPLTA/SPLTB/SPLTAB
Change to non-ESF digroup with 16-state cross-connect
Fail transfer DB from old_tape to SMEM

FF Change to T1DM digroup with cross-connect that is not TRSP
DB retrofit fail
Termination is in process of being rolled

cccc *Explanation*

0000 No conditions
0001 CEC bit on PRISM not cleared
0002 Firmware error
0003 Transmit underrun threshold exceeded
0004 Bad EMXR Acknowledgement
0005 Timeout while waiting for msg from EMXR
0006 RAM data error
0007 Invalid code checksum
0008 Error in PRISM register
0009 Error in HSCC register
000A EPROM checksum error
000B Timer 1 error
000C Timer 2 error
000D DUART error
000E MIU access error
000F CPU internal bus error
0010 CPU parallel bus parity error
0011 CPU serial bus parity error
0012 FLI register bit stuck
0013 FLI lock and key alarm
0014 MXR DS3 loss of signal
0015 MXR unknown error
0020 BX Access Error
0021 BX Ram Parity Over Low Byte
0022 BX Ram Parity Over High Byte
0023 Fan Bank Zero Error Flag

cccc	*Explanation*
0024	D5 Spare Bit Error
0025	Fan Bank One Error Flag
0026	D7 Spare Bit Error
0027	BX stuck summary bit
0028	Unknown interrupt from BX
0029	Error from side 0 bus extension
002A	Error from side 1 bus extension
002B	Unknown interrupt from MTC
002C	MTC stuck summary bit
002D	Unused bits on MTC pack
002E	Error due to unused bit
002F	Error due unknown reasons
0030	Power Failure
0031	Sanity Time-out
0032	BX stuck CCNI summary bit
0033	FMT TF control bus error
0034	MXR M23 summary stuck error
0035	FMT multiple TF network data error
0036	FMT single TF network data error
0037	FMT TF device or clock receiver error
0038	FMT multiple TF clock error
0039	FMT single TF sync error
003A	FMT multiple TF sync error
003B	FLI access error
003C	FLI communication link error
003D	DPC ROM error
003E	DPC loss of timing
003F	OOS RAM test ran while IS
0040	Bus Error Alarm
0041	CIA Device Error
0042	CIB Device Error
0043	CIC Device Error
0044	Pack can’t be accessed
0045	Loss of timing alarm
0046	Chip ID Comparison

cccc	*Explanation*
0047	Data Strobe Signal
0048	Address Parity Error
0049	FC Stuck Bit on FTMI
004A	DDC Stuck Bit on FTMI
004B	FTMI lost clock
004C	FC can't be accessed
004D	Timer Error
004E	Circuit ID Error
004F	Transmit Formatter Error
0050	Receiver Formatter Error
0051	Sanity Timer Interrupt
0052	RF bus error
0053	NPC bus error
0054	NPC can not be accessed
0055	NPC is alarming on FC
0056	Facility Processor Sanity Error
0057	SYNC Error
0058	Channel controller loss of clock
0059	Channel controller frame sync error
005A	CC configuration register error
005B	CC instruction ram error
005C	CC parity error
005D	CC transmit data error
005E	CC receiver data error
005F	CC exercise error
0060	CC summary bit error
0061	Hard RAM error
0062	Hard ROM check error
0063	Hard Error stuck bit
0064	Transceiver A stuck bit
0065	Transceiver A transmit slip
0066	Transceiver A Error
0067	Transceiver B stuck bit
0068	Transceiver B transmit slip
0069	Transceiver B Error

cccc	*Explanation*
006A	Circuit ID Error
006B	Facility errors
006C	NPC address parity error
006D	DSPI access error (e.g. pack not there)
006E	DSPI bus data parity error
006F	DSPI bus address parity error
0070	DMB access error (e.g. pack not there)
0071	DMB serial access error (pack not there)
0072	DMB parallel access error
0073	DMB bits stuck in exercise register
0074	DMB data processing error
0075	Multiple data parity error, CCB problem
0076	DMB clock error
0077	Multiple clock errors, CCB/SYNC problem
0078	DMB FIFO error
0079	Possible power failure on side
007A	DMB control memory error 0 (used for trans)
007B	DMB control memory error 1 (used for trans)
007C	Control Memory 0 control ram parity error
007D	Control Memory 1 control ram parity error
007E	Control Memory 0 control interface error
007F	Control Memory 1 control interface error
0080	Control Memory 0 loss of sync error
0081	Control Memory 1 loss of sync error
0082	Control Memory 0 DMB input data parity error
0083	Control Memory 1 DMB input data parity error
0084	DMB conference error 0 (used for trans)
0085	DMB conference error 1 (used for trans)
0086	Conference 0 control interface error
0087	Conference 1 control interface error
0088	Conference 0 control ram parity error
0089	Conference 1 control ram parity error
008A	Conference 0 DMB input data parity error
008B	Conference 1 DMB input data parity error
008C	Conference 0 DMB device (chip) error

cccc	*Explanation*
008D	Conference 1 DMB device (chip) error
008E	Bad Ram Data in DMB device (bits alarms)
008F	Bad Ram Data in DMB device (bits alarms)
0090	CCNI access error (cannot access pack)
0091	High data byte bus parity error
0092	Low data byte bus parity error
0093	Address bus parity error
0094	Autonomous switch enable error
0095	Bus status register parity error
0096	CCNI stuck register bit, summary set, no other alarms
0097	MXR communication link error
0098	CPR serial access error
0099	CPR clock error
009A	CPR processor interface failure
009B	CPR input data interface error
009C	CPR D-Bit interface parity error
009D	CPR control memory failure
009E	CPR control memory or state machine failure
009F	CPR FIFO FRDY/FFULL stuck bit
00A0	CCB packid error, wrong pack, can’t read pack
00A1	CCB sync pulse error
00A2	CCB clock error
00A3	CCB input port alarm error
00A4	CCB zero bit is stuck at 1
00A5	Corresponding CCNI bit is stuck
00A6	MXR channel controller transmit data error
00A7	MXR channel controller receiver data error
00A8	MXR channel controller exercise error
00A9	MXR channel controller stuck bit error
00AA	MXR transceiver framer error
00AB	MXR transceiver receive sync error
00AC	MXR transceiver transmitter error
00AD	MXR M23 device error
00AE	MXR M12 device error
00AF	MXR M12 summary stuck error

cccc	*Explanation*
00B0	Pack id error, can't read pack
00B1	TSI stuck bit, summary bit set, no devices alarming
00B2	TSI device error
00B3	TSI device id error, cannot read device
00B4	Illegal exercise bits set
00B5	Bus address error
00B6	Device clock error
00B7	Device control ram parity error
00B8	Output data parity error (from an FTM)
00B9	Corresponding CCNI bit is stuck
00BA	FLI loss of clock
00BB	FLI loss of signal
00BC	FLI circuit id error
00BD	FLI frame sync or internal error
00BE	FLI address bus parity error
00BF	MJU serial access error
00C0	MJU clock error
00C1	MJU processor interface failure
00C2	MJU input data interface failure
00C3	MJU error correction circuitry failure
00C4	MJU control memory failure
00C5	MJU output block failure
00C6	MJU sampling circuitry failure
00C7	MJU control memory or state machine failure
00C8	SRM serial access error
00C9	SRM clock error
00CA	SRM processor interface failure
00CB	SRM input data interface failure
00CC	SRM error correction block failure
00CD	SRM control memory failure
00CE	SRM multiplexor block failure
00CF	SRM output block failure
00D0	CPU RAM Parity error
00D1	Source of error is unknown
00D2	Source of error was not found

cccc	*Explanation*
00D3	Stuck bit in register
00D4	Bad UBX pack
00D5	Illegal/unknown condition code
00D6	MIU communication link error
00D7	FMT communication link error
00D8	MXR ROM error
00D9	MXR LCA error
00DA	MXR queue overflow
00DB	MXR channel controller loss of clock
00DC	MXR channel controller frame sync error
00DD	MXR channel controller configuration register error
00DE	MXR channel controller instruction ram error
00DF	MXR channel controller parity error
00E0	Hardware database mismatch
00E1	Hardware Failure
00E2	Hardware Boot Failed
00E3	Can't access link
00E4	Transmit Time-out
00E5	Receiver Time-out
00E6	softerr failure which forces link removal
00E7	Unit could not be reset
00E8	Unit failed sanity check
00E9	failure to insert TCC
00EA	failure to remove TCC
00EB	failed to switch CCN sides
00EC	NPC's facility queue overflow condition
00ED	Duplex entity failed diagnostics
00EE	Lost Clear-To-Send signal on X.25 links
00EF	Frame Audit reboot DDC failure
00F0	FMT access error
00F1	FMT timing error
00F2	FMT link id error
00F3	FMT bus timeout
00F4	FMT serial address parity error
00F5	FMT 0-4TF timing error

cccc	*Explanation*
00F6	FMT 0-4TF timing error
00F7	FMT error summary 1 stuck bit
00F8	FMT timing error, RF data parity
00F9	FMT error summary 2 stuck bit
00FA	FMT lock override, active select or kill parity
00FB	FMT FIFO or control PROM error
00FC	FMT RF control bus error
00FD	FMT RF port and monitor alarms
00FE	FMT RF port alarm; no monitor alarms
0101	CCI pack is not present
0102	Can't communicate to CCI pack(incorrect version number)
0103	CCI pack's summary is set but has no errors
0104	CCIERR bit is stuck in system status reg
0105	TSIERR bit is stuck in system status reg
0106	PUERR bit is stuck in system status reg
0107	Bus Terminator pack is not present
0108	The 32 MHz clock is out of lock
0109	CCI 240 sync is misaligned with frame sync
010A	CCI loss of 240 Frame Sync
010B	CCI loss of 8 KHz Frame Sync
010C	CCI detected Address Parity error
010D	CCI detected low byte data parity error
010E	CCI detected high byte data parity error
010F	CCI -5.2 power supply has failed
0110	CCI detected Bus Status Parity error
0111	CCI Peripheral Unit Alarm
0112	SYNC summary is set on CCI circuit pack
0120	ETSI pack is not present
0121	Can't communicate to ETSI pack (incorrect version number)
0122	ETSI pack's summary is set on CCI but has no errors
0123	ETSI loss of 32.768 MHz clock
0124	ETSI loss of 240 frame sync
0125	ETSI Rcv MDX summary stuck bit
0126	ETSI control RAM summary stuck bit
0127	ETSI TX MDX summary stuck bit

cccc	*Explanation*
0128	ETSI loss of Vdd (3.3v) power
0129	Peripheral unit port alarm (RCV MDX)
012A	Receive MDX data source time slot parity error
012B	Receive MDX sync error
012C	Receive MDX address parity error
012D	Receive MDX write data parity error
012F	Receive MDX can't be accessed (incorrect chip Id
0130	Transmit MDX data parity error
0131	Transmit MDX data source time slot parity error
0132	Transmit MDX sync error
0133	Transmit MDX address parity error
0134	Transmit MDX write data parity error
0135	Transmit MDX can't be accessed (incorrect chip Id
0137	Control RAM parity error
0138	Control RAM sync alarm
0139	Control RAM port alarm
013A	Control RAM BIST flag is set
013B	Data RAM BIST flag is set
013C	Control RAM address parity error
013D	Control RAM write data parity error
013E	Control RAM device can't be accessed (incorrect chip Id)
013F	Control RAM circuit pack parity
0140	Control RAM device is in reset state
0141	Control RAM port alarm summary is stuck
0142	ETSI TRD3ST exercise bit is set
0143	ETSI ready high error on CCI
0144	ETSI ready time-out error on CCI(ETSI can't be accessed)
0145	Control RAM stuck bit error
016D	Invalid FPA state
016E	Invalid DDC pack id
01E1	MXR access error (can't access pack)
01E2	MXR hard error stuck bit
01E3	MXR facility error stuck bit
01E4	MXR pack is in reset state
01E5	MXR PIF Bus Parity Error

cccc	*Explanation*
01E6	MXR loss of clock from unselected FLI
01E7	MXR 45MHz is not phase locked to system clock
01E8	MXR firmware error
01E9	MXR HSCC device error
01EA	MXR PIF I/O device error
01EB	MXR M13 summary stuck bit error
01EC	MXR transceiver summary stuck bit error
01ED	MXR program error
01EF	MXR RAM error
01F0	EMXR Timer error
01F1	EMXR DUART error
01F2	MIU got reset
01F3	Timeout for Yellow Inhibit/Enable Request
01F4	Queue overflow error
01F5	Packet layer parameters are mismatched between DACS II and the network
01F6	Failed to write XPC register
01F7	Transmit time-out because Clear To Send lost
01F8	R20 counter reaches limit
01F9	T3 timer expires
01FA	Too many interrupts or illegal interrupt from XPC
06B3	Initialization of application in progress, retry command later
E000	CCNI summary bit set; no more info
E001	Sync says its down
E002	Sync says its time base is down
E003	SYNC autonomously restarted itself
E004	MP-SYNC communications failure
E100	Unknown DPLL error
E101	ROM checksum error
E102	RAM data error, RAM address line stuck
E103	Phase/frequency output latch error
E104	Loss of energy on output of frequency synth.
E105	Loss of energy on output of phase shifter
E106	Loss of energy on generated SYNC pulse
E107	Loss of energy on time base strobe signal

cccc	*Explanation*
E108	Interrupt controller error
E109	Interrupt holding register error
E10A	Uart error
E10B	Control data readable output latch error
E200	Unknown time base error
E201	Time base loss of energy detector
E202	TB i/o err. cant read TB packid or oven monitor
E203	Time base frequency drift
E204	Both syncs time base oven is cold
E205	Time base oven is cold
E300	Unknown PLL error,link went down before reading status
E301	PLL end of range
E302	PLL excessive phase error (125 uSec out of phase)
E303	PLL real time violations
E304	PLL fast start time out
E305	PLL end of range implicating TL
E400	Unknown mate error, link went down before read status
E401	Mate out of service
E402	Mate sync hardware error
E403	Cross couple loss of energy
E404	Cross couple loss of energy
E405	Mate link down
E406	Cross couple real time violation
E407	Cross couple fast lock range
E408	Cross couple frequency offset error
E409	Cross couple out of lock
E500	TLI error, link went down before status read
E501	TLI hardware error
E600	TL error reported, unknown
E601	TL out of service or loss of signal
E602	Timing Extractor type TLI has hardware problem
E603	Timing Extractor type TLI has autobaud failure
E700	CRO error, unknown due to link, SYNC error
E701	CRO loss of energy detected SYNC error
E702	CRO loss of energy CRO error

cccc *Explanation*

E703 CRO frequency offset
E704 CRO declared OOS
E805 TL error cleared
E806 TLI error cleared
EF00 Unknown what sync switched to
EF01 SYNC switched to NORMAL mode
EF02 SYNC switched to HOLDOVER
EF03 SYNC switched to FAST mode
EF04 SYNC switched TLIs/SSPs
EF05 SYNC switched to cross couple

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