

Lucent Technologies
Bell Labs Innovations



DACS II
Release 8.2.3 PDS
2.048 Mb/s Interface
Quick Reference Guide

365-353-243
Issue 1
February 1999

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Issue 1

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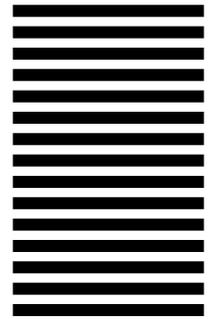
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Contents

About This Document	i
■ Purpose	vii
■ Intended Audiences	vii
■ How to Use This Document	vii
■ Contents	viii
■ Conventions Used	x
■ Related Documentation	x
■ How to Order Documentation	xiv
■ How to Comment on This Document	xvi
■ Electronic Documentation	xvi

1 Link/Login/Logoff Commands	1-1
-------------------------------------	-----

2 Provisioning Commands	2-1
--------------------------------	-----

3 Performance Monitoring Commands	3-1
--	-----

4 Cross-Connect Commands	4-1
---------------------------------	-----

Contents

5 Macro and Map Commands 5-1

6 Roll Commands 6-1

7 Change Commands 7-1

8 Remove Commands 8-1

9 Restore Commands 9-1

10 C-Bit Processing Commands 10-1

11 Test Access Commands 11-1

12 Troubleshooting Commands 12-1

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 1 - Link/Login/Logoff Commands

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

■ Chapter 2 - Provisioning Commands

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

■ Chapter 3 - Performance Monitoring Commands

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

■ Chapter 4 - Cross-connect Commands

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

■ Chapter 5 - Macro and Map Commands

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

■ **Chapter 6 - Roll Commands**

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

■ **Chapter 7 - Change Commands**

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

■ **Chapter 8 - Remove Commands**

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

■ **Chapter 9 - Restore Commands**

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

■ **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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- For technical information, call Lucent Technologies Documentation Support (1-800-334-0404).

Link/Login/Logoff Commands

1

[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::

```

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

```
CHG::

```

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

```
OLD PASSWD: (user enters the old password)
```

```
NEW PASSWD: (user enters the new password)
```

```
PASSWD: (user re-enters the new password for verification)
```

[I.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::

```

[I.39001] Log On To DACS II

```
LOGIN::

```

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

```
LOGIN::

```

DACS II will then 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 uvmpnp, 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.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 uvmpnp, NPCTG rrr!

[l.31381] Provision Test Port NPC

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

[l.31331] Provision Digital Signal Processing Unit NPC

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

[l.31351] Provision Digital Signal Processing Unit NPC

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

[l.31362] Provision NPC

```
GRTH::NPC [s]abc[-[t]def][,TYPE mnxyz][,OPTS\  
(rr/m[,rr/m...])][,IW X'pq[r]]\  
[,AIS {MI|PMA|DMA|PMC}][,LEV s]!  
GRTH::NPC uvmpnp[-uvkqr][,TYPE mnxyz][,OPTS\  
(rr/m[,rr/m...])][,IW X'pq[r]]\  
[,AIS {MI|PMA|DMA|PMC}][,LEV s]!
```

[l.31363] Provision NPC

```
GRTH::NPC [s]abc[-[t]def][,TYPE mnxyz][,OPTS\  
(rr/m[,rr/m...])][,IW X'pq[r]]\  
[,AIS {MI|PMA|DMA|PMC}][,LEV s]!  
GRTH::NPC uvmpnp[-uvkqr][,TYPE mnxyz][,OPTS\  
(rr/m[,rr/m...])][,IW X'pq[r]]\  
[,AIS {MI|PMA|DMA|PMC}][,LEV s]!
```

[l.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[,NPC [0]abc]|TYPE TDxyz}!**
**GRTH::SYNC,TLI m,{TYPE texyz,SSP a,Src\
 p[,NPC uvmp]|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,IMP <imp>!
- [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.27002] Test Port Release
TTST::TPR,ALL[,OOS]!

Performance Monitoring Commands

3

[I.38631] Set Errored Block Threshold Ratio

CHG::ERB ee,TYPE mn!

[I.56011] Utility Clear Counter or State of NPC

UTL::CLR,<parameter>,ALL!

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

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

[I.56001] Utility Clear Counter or State of NPC

UTL::CLR,<parameter>,NPC [s]abc[-[t]def]!

UTL::CLR,<parameter>,NPC uvmp[-wxqr]!

[I.56071] Utility Clear DATA/PA NPC Parameters

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

**UTL::CLR,{NPC uvmp[-wxqr]|ALL},<parameter>,AI aaaaa\
[,MONDAT dddd][,MONTIM tttt]!**

[I.56051] Clear Facility Performance Parameters

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

UTL::CLR,NPC uvmpnp,PARAMS!

[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 1111111111][,MONDAT dddd][,MONTIM tttt]!

UTL::QRY,{NPC uvmpnp[-wxkqr]|ALL},<parameter>,AI aaaaa\
[,LV 1111111111][,MONDAT dddd][,MONTIM tttt]!

[I.51071] Retrieve Performance Monitoring Report Schedule

UTL::QRY,TOD[,CFA][,MONDAT]!

Cross-Connect Commands

4

[I.13002] Broadcast Cross-Connection

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

[I.13021] Broadcast Cross-Connection

```
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-Connection

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

[I.13011] Broadcast Cross-Connection

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

[I.15201] Broadcast Disconnection

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

[I.15231] Broadcast Disconnection

```
BDIS::FROM [s]abc,TO [t]ghi[,OOS][,INCL][,CONV]!
BDIS::FROM uvmpnp,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 uvmpnpddd[-eee],TOX (wxkqrjjj\
[,edhfgnnn, . . .)][,CONV][,OOS][,DCC][,INCL]!
```

[I.15221] Broadcast Disconnection

```
BDIS::FROM [s]abc,TOX ([t]ghi[, [u]jkl][, [v]mno][...])\
[,OOS][,INCL][,CONV]!
BDIS::FROM uvmpnp,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>][,NAM][,{CUS|INCL}][,RDC]!
OCNT::FROM uvmpnpddd[-eee],TO wxkqrjjj[-kkk],\
MPM(fmd,tmd)[,<tc>][,NAM][,{INCL|CUS}][,RDC]!

```

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

```

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

```

[I.12131] Terminated One-Way Cross-Connect

```

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

```

[I.11121] One Way Cross-Connection

```

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

```

[I.11101] One Way Cross-Connection

```

OCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk][,<tc>]\
[,<sc>][,NAM][,RDC][,{CUS|INCL}][,PRIOUT]!
OCON::FROM uvmpnpddd[-eee],TO wxkqrjjj[-kkk][,<tc>]\
[,<sc>][,NAM][,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 Disconnection
 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.12021] Two-Way Cross-Connect Terminate, From, To,
 Multipoint Mode
 TCNT::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
 MPM(fmd,tmd)[,<tc>][,NAM][,NTR m][,RDC][,{CUS|INCL}]!
 TCNT::FROM uvmnpddd[-eee],TO wxkqrjjj[-kkk],\
 MPM(fmd,tmd)[,<tc>][,NAM][,NTR m][,RDC][,{CUS|INCL}]!

- [I.12001] Two-Way Cross-Connection Terminated
 TCNT::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk][,<tc>]\
 [,<sc>][,NAM][,{CUS|INCL}][,RDC][,PRIOUT]!
 TCNT::FROM uvmpnppdd[-eee],TO wxkqrjjj[-kkk][,<tc>]\
 [,<sc>][,NAM][,{CUS|INCL}][,RDC][,PRIOUT]!
- [I.12051] Two Way Cross-Connection Terminate
 TCNT::FROM [s]abcddd,TO [t]ghijjj\
 [, {PFW(abcdefg,ijklmno)|NFW}]!
 TCNT::FROM uvmpnppdd,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 uvmpn,TO wxkqr[,RDC][,{CUS|INCL}][,PRIOUT]!
- [I.11041] Two-Way C-Bit Cross-Connects
 TCON::FROM [s]abc,CB[,CUS][,RDC][,INCL]!
 TCON::FROM uvmpn,CB[,CUS][,RDC][,INCL]!
- [I.11021] Two-Way Cross-Connect From, To Multipoint Mode
 TCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk],\
 MPM(fmd,tmd)[,<tc>][,NAM],[NTR m][,RDC][,{CUS|INCL}]!
 TCON::FROM uvmpnppdd[-eee],TO wxkqrjjj[-kkk],\
 MPM(fmd,tmd)[,<tc>][,NAM],[NTR m][,RDC][,{CUS|INCL}]!
- [I.11001] Two-Way Cross-Connection
 TCON::FROM [s]abcddd[-eee],TO [t]ghijjj[-kkk][,<tc>]\
 [,<sc>][,NAM][,{CUS|INCL}][,RDC][,PRIOUT]!
 TCON::FROM uvmpnppdd[-eee],TO wxkqrjjj[-kkk][,<tc>]\
 [,<sc>][,NAM][,{CUS|INCL}][,RDC][,PRIOUT]!

[l.11051] Two-Way Cross-Connection

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

[l.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]!
```

[l.15004] Disconnect TS16 and C-Bit NPC

```
TDIS::FROM [s]abc,CB[,INCL][,OOS]!  
TDIS::FROM uvmnp,CB[,INCL][,OOS]!
```

[l.15002] Two-Way Disconnection

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

[l.15001] Disconnection, 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]!
```

[l.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 1[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 uvmpddd[-eee],NEW wxkqrjjj[-kkk][,INCL]

[I.14061] Facility Roll - Bridge Command

SW::BCAST,OLD [s]abc,NEW [t]ghi[,INCL]

SW::BCAST,OLD uvmpnp,NEW wxkqr[,INCL]

[I.14041] DS0 Circuit Roll - Disconnect Command

SW::DISC [s]abcddd[-eee][,OOS]

SW::DISC uvmpddd[-eee][,OOS]

[I.14081] Facility Roll - Disconnect Command

SW::DISC [s]abc[,OOS]

SW::DISC uvmpnp[,OOS]

[I.14031] DS0 Circuit Roll- Roll Command

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

SW::ROLL,OLD uvmpnpddd[-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 uvmpnp,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|TOLL|LOCAL}!
```

[I.17011] Change Circuit Parameters

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

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

[I.17002] Change Circuit Parameters

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

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

[I.38281] Change NPC AIS Alarm Option

CHG::NPC [s]abc[-[t]ghi],ALMOPT,AIS {MI|PMA|DMA|PMC}[,LEV s]!

CHG::NPC uvmpnp[-wxkqr],ALMOPT,AIS {MI|PMA|DMA|PMC}[,LEV s]!

[I.38341] Change NPC Loopback

CHG::NPC [s]abc[-[t]def],LPBK [d]t!

CHG::NPC uvmpnp[-wxkqr],LPBK [d]t!

[I.38324] Change NPC Non Frame-Word Setting

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

CHG::NPC uvmpnp[-uvkqr],NFS abcdefghi!

[I.38221] Change NPC Options

CHG::NPC [s]abc,{OPTS(rr/m[,rr/m][...])|THMODE hhh}!

CHG::NPC uvmpnp,{OPTS(rr/m[,rr/m][...])|THMODE hhh}!

[I.38321] Change NPC Time Slot Zero

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

CHG::NPC uvmpnp[-uvkqr],TS0 abcdefgh!

[I.38323] Change Time Slot Zero Monitor

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

CHG::NPC uvmpnp[-wxkqr],TS0M abcdefgh!

- [I.38211] Change NPC Type
CHG::NPC [s]abc,TYPE mnxyz[,IW X'pq[r]]!
CHG::NPC uvmpnp,TYPE mnxyz[,IW X'pq[r]]!
- [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(uvmpddd[,wxkqrjjj,edhfgnnn,...)[,INCL]!
- [I.18011] Change Switch, TOX
CHG::SWCH,TOX([s]ghi[, [t]jkl][, [v]mno][...])[,INCL]!
CHG::SWCH,TOX(uvmpnp[,wxkqr][,edhfg][...])[,INCL]!
- [I.38011] Change Priorities and/or Type, Synchronizer or NPC
CHG::SYNC,TLI m,SSP b,{TYPE texyz|NPC [0]abc}!
CHG::SYNC,TLI m,SSP b,{TYPE texyz|NPC uvmpnp}!
CHG::SYNC,TLI, SRC(i/(a,b)[, j/(c,d)[, k/(e,f)[, l/(g,h)]])!
- [I.38231] Change Type, Options
CHG::TYPE mnxyz,{OPTS(rr/m[,rr/m][...])|THMODE hhh}!
- [I.38291] Change Type and Threshold Mode
CHG::TYPE mn,THMODE hhh!
- [I.38101] Change Connectivity
CHG::UNIT q,CONN(a[,b[,c[,d[,e[,f]]]]])!

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::ETSI S,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 uvmp[-uvkqr][,SIDE s][,INCL]!

[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 All TSIs in Cross-Connect Side (Non-CEF Only)

RMV::TSIS,CCN s,ALL!

[I.33231] Remove All Unit Connected TSIs (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::ETSI S,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.34361] Restore NPC Monitor

RST::NPC [s]abc,MON!

RST::NPC uvmpnp,MON!

[I.34351] Restore NPCs

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

RST::NPC uvmpnp[-uvkqr][,SIDE s]!

[I.34371] Restore NPC Time Slot 0 Monitor

RST::NPC [s]abc,TS0M!

RST::NPC uvmpnp,TS0M!

[I.34211] Restore PMEM and/or SMEM

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

[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 TSI For Unit (Non-CEF Only)

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!

C-Bit Processing Commands

10

[I.38335] Change Bit-C-Off To

CHG::BCOFF,TO [s]abcddd[-eee]!

CHG::BCOFF,TO uvmpddd[-eee]!

[I.38333] Change Bit-C To

CHG::BC X'abcd, TO [s]abcddd[-eee]!

CHG::BC X'abcd, TO uvmpddd[-eee]!

[I.38331] Change Director DACS To

CHG::DD(m,w),TO [s]abcddd[-eee]!

CHG::DD(m,w),TO uvmpddd[-eee]!

Test Access Commands

11

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

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


```
CTST::[,FMODE <fmode>]}[,INCL];  
CTST::[,FMODE <fmode>]}[,INCL];
```


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


```
CTST::[,TO [v]jkl][,AIS][,INCL]!  
CTST::[,TO jklmn][,AIS][,INCL]!
```


```

[I.20031] Non-Channelized Test Hub

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

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

```
CTST::LPBKT,FAD [s]abc[,INCL]!
CTST::LPBKT,FAD uvmpnp[,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 uvmpnp[,OOS]!
CTST::TNR,FAD (uvmpnp[,wxkqr)][,OOS]!
```

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

```
TTST::HUB,TO ([s]abcd, [t]ghij),TG mmm[,<tc>]!
TTST::HUB,TO (uvmpnp,wxkqr),TG mmm[,<tc>]!
```

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

```
TTST::HUB,TO [t]ghij,TP kk[,<tc>][,NAM]!
TTST::HUB,TO uvmpnp,TP kk[,<tc>][,NAM]!
```

[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.21001]        Two-Way Test Access, Monitor  
**TTST::MON[,TO [t]ghi[jjj][,<tc>][,NAM],TP kk!**  
**TTST::MON[,TO uvmpj[jjj][,<tc>][,NAM],TP kk!**
- [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.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 uvmpv[vv],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 uvmpvvv],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]!**

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## Troubleshooting Commands

# 12

---

[I.81001] Query Facility Alarms

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

[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 ETSIs on ECCN Side  
          **DGN::ETSI S,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 uvmpnp-uvkqr!**
- [I.41351]        Diagnose NPC  
          **DGN::NPC [s]abc[ ,SIDE s][ ,CFT X'vwxy]!**  
          **DGN::NPC uvmpnp[ ,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.41321] Diagnose Facility Terminating Module Interface

DGN::UNIT [q]q,FTMI d[,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.56021] Utility Query, Alarm Option, AIS

**UTL::QRY,ALMOPT,NPC [s]abc[-[v]ghi],AIS!**

**UTL::QRY,ALMOPT,NPC uvmpnp[-wxkqr],AIS!**

[I.53111] Utility Query Alarms

**UTL::QRY,ALMS!**

[I.53151] Utility Query Alarms

**UTL::QRY,ALMS,DBASE!**

[I.52101] Query Broadcast All

**UTL::QRY,BCAST,ALL!**

- [I.52111]           Utility Query Broadcast  
    **UTL::QRY,BCAST,FROM [s]abcddd!**  
    **UTL::QRY,BCAST,FROM uvmpnppdd!**
- [I.52121]           Utility Query Broadcast From  
    **UTL::QRY,BCAST,FROM [s]abc!**  
    **UTL::QRY,BCAST,FROM uvmpnp!**
- [I.56351]           Query Bit-C NPC  
    **UTL::QRY,BC s,{NPC [s]abc[-[t]def]|ALL}!**  
    **UTL::QRY,BC s,{NPC uvmpnp[-wxkqr]|ALL}!**
- [I.56353]           Utility Query Bit-C To  
    **UTL::QRY,BC s,TO [s]abcddd!**  
    **UTL::QRY,BC s,TO uvmpnppdd!**
- [I.52011]           Query Partial Cross-Connect Map  
    **UTL::QRY,CMAP [s]abc[-[t]def]!**  
    **UTL::QRY,CMAP uvmpnp[-wxkqr]!**
- [I.51091]           Utility Query Configure  
    **UTL::QRY,CNFR!**
- [I.51031]           Query Date  
    **UTL::QRY,DATE!**
- [I.56341]           Utility Query Director DACS II  
    **UTL::QRY,DD [s]abcddd[-fff]!**  
    **UTL::QRY,DD uvmpnppdd[-fff]!**

- [I.56343]           Utility Query Director DACS NPC  
    **UTL: :QRY, {DD,NPC [s]abc[-[t]def] |DDCT,ALL}!**  
    **UTL: :QRY, {DD,NPC uvwnp[-wxkqr] |DDCT,ALL}!**
- [I.52031]           Query Full Cross-Connect Map  
    **UTL: :QRY, DMAP!**
- [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.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 hrmsc}][,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 uvmp[,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.55511] Query Error Source Register FTMI

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

[I.51121] Query Feature Package

UTL::QRY,FPKG!

[I.52051] Utility Query From

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

UTL::QRY,FROM uvmpddd[-eee]!

[I.52071] Utility Query From

UTL::QRY,FROM [s]abc!

UTL::QRY,FROM uvmp!

[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.54011] Query Log

UTL::QRY,LOG[,ALL]!

[I.53131] Utility Query Loopback

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

UTL::QRY,LPBK,NPC uvmp[-wxkqr]!

[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 uvmpnp[-wxkqr]!

[I.52211] Query Channel Marks

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

UTL::QRY,MARK uvmpnpjjj[-kkk]!

[I.51001] Retrieve Memory Status

UTL::QRY,MEMSTAT!

[I.56324] Query NPC Non Frame-Word Setting

UTL::QRY,NFS,NPC [s]abc[-[t]def]!

UTL::QRY,NFS,NPC uvmpnp[-wxkqr]!

[I.56041] Query Network Processing Circuit Parameter

UTL::QRY,<parameter>,NPC [s]abc[-[t]def]!

UTL::QRY,<parameter>,NPC uvmp[-wxkqr]!

[I.54111] Utility Query NPC Map

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

[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.52081] Utility Query Roll DS0

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

UTL::QRY,ROLL,DS0,{NPC uvmp[-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 uvmp[-wxkqr]|ALL[,UNIT [q]q]}!

[I.54001] Query User/Link Screening Option

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

[I.52601] Query Trunk Signaling Conversion State

UTL::QRY,SIGST abcddd  
UTL::QRY,SIGST uvmpddd

[I.51131] Utility Query Sequence

UTL::QRY,SON!

[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 uvmp[-wxkqr]!

[I.56314] Utility Query NPC State

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

[I.56301] Utility Query Synchronizer State

UTL::QRY,STATE,SYNC!

[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 uvmpddd[-eee]!**
- [I.52061]           Non-Channelized Utility Query To  
          **UTL::QRY,TO [s]abc!**  
          **UTL::QRY,TO uvmp!**
- [I.53061]           Utility Query, Test Ports  
          **UTL::QRY,TPS!**

- [I.56323]           Query Time Slot Zero Monitor  
    **UTL::QRY,TS0M,NPC [s]abc[-[t]def]!**  
    **UTL::QRY,TS0M,NPC uvmpnp[-wxkqr]!**
- [I.56321]           Query NPC Time Slot Zero  
    **UTL::QRY,TS0 s,NPC [s]abc[-[t]def]!**  
    **UTL::QRY,TS0 s,NPC uvmpnp[-wxkqr]!**
- [I.53071]           Utility Query Equalization, Impedance  
    **UTL::QRY,UNIT [q]q,FTMI b[,IMP]!**
- [I.51041]           Utility Query Who  
    **UTL::QRY,WHO!**
- [I.55181]           Query Cross-Connect Status Bus  
    **UTL::QRY,XCSB[,UNIT [q]q]!**
- [I.51081]           Utility, Recover Password  
    **UTL::RCY,PASSWD!**



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## Miscellaneous Commands

# 13

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[I.55711]        Abort  
      **ABT!**

[I.19041]        Append Component Command  
      **APPEND[::<line number>|END]!**

[I.31521]        Copy NPC  
      **COPY::NPC [s]abc,TO [t]def[-[u]ghi]!**  
      **COPY::NPC uvmp,TO wxkqr[-ghikl]!**

[I.37301]        Delete Feature Package Identification  
      **DLT::FPKG nnnnnnnn!**

[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|PRIM X'ghij|MONDAT}]!**
- [I.55731]        Upgrade Frame  
      **UTL::UPGRD!**

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## Denial Codes

# 14

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## Denial Codes

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

**cc** *Explanation*

- 05** Invalid parameter combination  
Invalid use of CONV keyword  
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  
Unpestering 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

**cc** *Explanation*

- 11 NPC not equipped  
PMEM type no longer supported  
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  $\geq$  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  $\geq$  24 hr for SERS opt  
FTMI not equipped, not in service, or failed  
NPC is unequipped
- 16 15 min  $\geq$  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  $\geq$  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  $\geq$  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

**cc** *Explanation*

- Required FLI not equipped, not in service, or failed  
The facility parameter not programmable for specified x or z parameter
- 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 FTMI's
- 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

**cc** *Explanation*

- PDI Version number mismatch
- Unit type error
- 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

**cc** *Explanation*

- No signals active
- Termination is already assigned
- 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

**cc** *Explanation*

- MXR LOS with unselected FLI
- Not enough TSIs for CCB test
- 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

**cc** *Explanation*

- The service FLI is already selected (TOSRVC option)
- 43** (NPC) Hardware mismatch  
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

**cc** *Explanation*

- The Service MMFG is already under protection  
The common bit(s) is(are) not set in both FAC & PRIM  
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

**cc** *Explanation*

- The associated MMFG is under protection (for Service MIUs)  
inconsistent HUB width for specified TG
- 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 substrate 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

**cc** *Explanation*

- Sync source NPC is not inservice  
TO is the backbone leg of a conference
- 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

**cc** *Explanation*

- TG number previously assigned
- User login-id is not DAX
- 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

**cc** *Explanation*

- NPC is a Facility Access Digroup  
The reference map does not exist  
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

**cc** *Explanation*

- 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  
 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

**cc** *Explanation*

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

**cc** *Explanation*

- NPC is not designated for this NPCTP/NPCTG  
Problem occurred while accessing BOTH\_MEM
- 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

| <i>cc</i> | <i>Explanation</i>                                                                                                                                                                                                               |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 92        | <p>Boot TLI failed<br/>           Can't mount or unmount PMEM<br/>           Transmitting port cannot be dropped</p>                                                                                                             |
| 93        | <p>All digroups not out of service<br/>           PA NPC threshold already in inhibit mode<br/>           SMEM is not present<br/>           TB type in hardware mismatches DB<br/>           The conference does not exist</p>  |
| 94        | <p>Conference port is not in conference circuit<br/>           Mate RT/DL mode is different<br/>           PA NPC threshold already in allow mode<br/>           SMEM unit is not restored</p>                                   |
| 95        | <p>Invalid option, mailbox or flag<br/>           Range overlapping between FROM and TO or between two TOs<br/>           TG East/West type inconsistent with each other or circuit</p>                                          |
| 96        | <p>Conference already exists<br/>           Subject PWR to be cleared is not failed<br/>           Unit(s) OOS, and additional backup required<br/>           incompatible HUB feature types</p>                                 |
| 97        | <p>Conference port cannot be dropped out of conference by switch command<br/>           Entity can't be addressed in this configuration<br/>           User quit the menu<br/>           option LOCAL already exists</p>         |
| 98        | <p>Checksums verification failed<br/>           Error in input<br/>           Test Port release failed<br/>           Unable to verify Configuration file since MP DB not loaded<br/>           option REMOTE already exists</p> |
| 99        | <p>G1 SMEM for SMEM-&gt;PMEM w/journals<br/>           No Facility Line Interface (FLI) is In Service<br/>           Unit type (xyz) not supported<br/>           can't change option, protection switch is active</p>           |
| 9A        | <p>Formatter (FMT) on active CCN side is Out-Of-Service<br/>           can't change option, inhibition is active<br/>           hub id not set when MJU pack grown</p>                                                           |

**cc** *Explanation*

- 9B** INCL must be specified for SRDC ckts  
Termination is under test or is a test port or group  
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

**cc** *Explanation*

- Firmware timing invalid for Transmic 1G NPC  
 Illegal BRD SYM combination  
 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

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

**cc** *Explanation*

- Trying to change level in on BBL leg  
Unit 5 denied request  
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 CBTYP NPC equipped
- B9** Cannot perform DMB CHG on input direction B  
No CBTYP 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

**cc** *Explanation*

- Sync stratum is same
- c1** Cannot perform DMB CHG on input direction G  
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

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

**cc** *Explanation*

- D7** Invalid FROM channel number  
CCB is inservice but failed  
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

**cc** *Explanation*

- E4** Broadcast unassigned channel/NPC in QRY,TO  
Invalid NPC addressing scheme specified  
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

| <b>cc</b> | <i>Explanation</i>                                                                                                                            |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>F2</b> | Invalid NPC number specified<br>Not a DACS II compatible Flash Card                                                                           |
| <b>F3</b> | Flash Card is empty<br>Maximum number of CPRs have already been grown for this unit                                                           |
| <b>F4</b> | OLD and NEW channels cannot be the same<br>PMEM and SMEM are different                                                                        |
| <b>F5</b> | Conference first channel doesn't match input<br>Flash Card is not present<br>INCL keyword needed to perform this command                      |
| <b>F6</b> | Flash Card is bad<br>Leg type mismatch<br>T1DM or DMI mode and channel 24 is connected                                                        |
| <b>F7</b> | Can't mount or unmount old_tape<br>Corresponding NPC for virtual channel is not provisioned<br>OLD data channel cannot be parity channel type |
| <b>F8</b> | OLD and NEW Data and Parity channels partially overlap<br>Old_tape is not present                                                             |
| <b>F9</b> | Cannot clear journals for OOS unit<br>Mate NPC (DGA/DGP) is in service<br>Old_tape unit is not restored                                       |
| <b>FA</b> | Bad old_tape DB generic<br>SSC software out of date<br>The mode of the RT is not applicable                                                   |
| <b>FB</b> | Old_tape with journal<br>PMEM verification failed                                                                                             |
| <b>FC</b> | Invalid executable on card<br>Superuser logged on<br>ZBTSI option is only valid with the ESF mode                                             |
| <b>FD</b> | Command not allowed<br>Line Loop Back is active<br>NPC range crosses unit boundary<br>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

| <i>cccc</i> | <i>Explanation</i>                    |
|-------------|---------------------------------------|
| 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                    |

| <i>cccc</i> | <i>Explanation</i>                  |
|-------------|-------------------------------------|
| 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                 |

| <i>cccc</i> | <i>Explanation</i>                           |
|-------------|----------------------------------------------|
| 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         |

| <i>cccc</i> | <i>Explanation</i>                                    |
|-------------|-------------------------------------------------------|
| 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                           |

| <i>cccc</i> | <i>Explanation</i>                                  |
|-------------|-----------------------------------------------------|
| 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                       |

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

| <i>cccc</i> | <i>Explanation</i>                                        |
|-------------|-----------------------------------------------------------|
| 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                             |

| <i>cccc</i> | <i>Explanation</i>                                       |
|-------------|----------------------------------------------------------|
| 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                                 |

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

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

| <b>cccc</b> | <i>Explanation</i>            |
|-------------|-------------------------------|
| <b>E703</b> | CRO frequency offset          |
| <b>E704</b> | CRO declared OOS              |
| <b>E805</b> | TL error cleared              |
| <b>E806</b> | TLI error cleared             |
| <b>EF00</b> | Unknown what sync switched to |
| <b>EF01</b> | SYNC switched to NORMAL mode  |
| <b>EF02</b> | SYNC switched to HOLDOVER     |
| <b>EF03</b> | SYNC switched to FAST mode    |
| <b>EF04</b> | SYNC switched TLI/SSPs        |
| <b>EF05</b> | SYNC switched to cross couple |

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# Index

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## A

Abort, 13-1  
About This Document, i  
Activate, 5-1  
Activate Alternate Maps, 5-1  
Add  
    Link, Protocol, Baud, 1-1  
    Link, X.25, Protocol, Data Link, Layer  
        Parameters, 1-1  
    Network Processing Circuit, 2-1  
    NPC Addressing and Priority, 1-2  
    User, 1-2  
    User/Link Language, 1-2  
    X.25 Link Parameters, 1-2  
Administrative Link, 9-2  
Administrative Link, Restore, 9-2  
Alarm Cutoff, 13-1  
Alarm Option, AIS, 12-4  
Alarms, 12-4  
All, 12-4  
All Common Equipment, 12-4  
All ETSIs, 8-1, 9-1  
All ETSIs on ECCN Side, 12-2  
All TSIs in Cross-Connect Side (Non-  
    CEF Only), 8-2  
All TSIs in Cross-Connect Side (Non-  
    CEF Only, Remove, 8-2  
All Unit Connected TSIs (Non-CEF  
    Only), 8-3  
All Unit Connected TSIs (Non-CEF  
    Only), Remove, 8-3  
Alternate Maps,

Alternate Maps (Continued)

    Activate, 5-1  
    Create Picture, 5-2  
Append Component, 13-1

---

## B

Backup Memory Transfer, 13-2  
Bit-C NPC, 12-5  
Bit-C To, 10-1, 12-5  
Bit-C-Off To, 10-1  
Bridge, 6-1  
Broadcast, 4-1, 4-2, 12-5  
Broadcast All, 12-4  
Broadcast Cross-Connection, 4-1, 4-2  
Broadcast Disconnection, 4-2  
Broadcast From, 12-5

---

## C

CCI and BT Packs, 12-1  
CCNI, 12-1  
CD-ROM Documentation, xvi  
Change, 1-3  
    Bit-C To, 10-1  
    Bit-C-Off To, 10-1  
    Circuit Parameters, 7-1–7-3  
    Connectivity, 7-3  
    Cross-Connect Termination  
        Status, 7-1  
    Director DACS To, 10-1  
    Macro Space, 5-1  
    NPC AIS Alarm Option, 7-2  
    NPC Loopback, 7-2  
    NPC Non Frame-Word Setting, 7-2

- Change (Continued)
  - NPC Options, 7-2
  - NPC Time Slot Zero, 7-2
  - NPC Type, 7-3
  - Options, 7-3
  - Priorities and/or Type, Synchronizer or NPC, 7-3
  - Switch, TOX, 7-3
  - Time Slot Zero Monitor, 7-2
  - Type, Options, 7-3
  - Type/Threshold Mode, 7-3
  - User Password, 1-3
  - User/Link Screening, 1-3
- Change Space, 5-1
- Change Termination Status, 7-1
- Channel Marks, 12-9
- Circuit Disconnection, 4-6
- Circuit Parameters, 7-1–7-3
- Circuit Parameters, Change, 7-2, 7-3
- Circuits, 4-6
- Clear Backup Failure, 12-4
- Clear Facility Performance Parameters, 3-2
- Clear Power Supply, 12-4
- Clock Control Interface, 8-1
- Clock Control Interface, Remove, 8-1
- Clock Reference Oscillator, 2-4, 9-3
- Clock Reference Oscillator, Restore, 9-3
- Common Equipage, 12-6
- Common Equipment Status, 12-10
- Communications Interface, 12-1
- Configure, 12-5
- Configure Digroup Circuits, 6-1
- Configure Frame, 2-1
- Configure Synchronizer, 2-1, 7-1
- Configure Synchronizer Stratum, 7-1
- Connectivity, 7-3
- Contents of Document, viii
- Control and Clock Interface, 9-1
- Control and Clock Interface, Restore, 9-1
- Conventions Used, x
- Copy NPC, 13-1
- Create Picture, 5-2
- Create Picture Alternate Map, 5-2
- Create/Edit, 5-2
- Create/Edit a Macro or Map, 5-2
- Cross, 4-3
- Cross-Connect Buffer, 9-1, 12-1
- Cross-Connect Buffer (Non-CEF Only), 8-1
- Cross-Connect Buffer (Non-CEF Only), Remove, 8-1
- Cross-Connect Buffer, Restore, 9-1
- Cross-Connect Map, Query Full, 12-6
- Cross-Connect Map, Query Partial, 12-5
- Cross-Connect Network Interface, 8-1, 9-1
- Cross-Connect Network Interface, Remove, 8-1
- Cross-Connect Network Interface, Restore, 9-1
- Cross-Connect Status Bar, 12-13
- Cross-Connect Termination Status, 7-1
- Cross-Connection,
  - Broadcast, 4-1, 4-2
  - Change Termination Status, 7-1
  - One-Way, 4-3, 4-4
  - One-Way Non-Channelized Digital Signal, 4-4
  - One-Way Terminated, Multipoint, 4-3
  - One-Way, Terminate, 4-3
  - Two-Way, 4-5, 4-6
  - Two-Way Multipoint, Terminate, 4-4
  - Two-Way Non-Channelized Digital Signal, 4-6
  - Two-Way, C-Bit, 4-5
  - Two-Way, Multipoint, 4-5
  - Two-Way, Terminate, 4-5

## D

- Date, 12-5
- Delete Feature Package
  - Identification, 13-1
- Delete Lines, 5-1
- Delete Lines From Macro, 5-1
- Delete Macro, 5-1
- Delete User, 1-3
- Deprovision,
  - Facility Terminating Module
    - Interface, 2-2
  - NPC, 2-1
  - Synchronizer Time Base, 2-2
  - Synchronizer Timing Link
    - Interface, 2-2
  - Test Access Group, 2-2
  - Test Port, 2-2
  - Test Port NPC, 2-2
  - Test-Access Group NPC, 2-1
  - Unit, 2-2
- Destination Cross-Connect, 12-12
- Diagnose,
  - All ETSIs on ECCN Side, 12-2
  - CCI and BT Packs, 12-1
  - CCNI, 12-1
  - Communications Interface, 12-1
  - Cross-Connect Buffer, 12-1
  - DSPU, 12-3
  - ETSI, 12-2
  - Facility Terminating Module
    - Interface, 12-3
  - Format Converter, 12-3
  - Link, 12-2
  - Main Controller, 12-2
  - Main Processor, 12-2
  - Diagnose (Continued)
    - Memory Card, 12-2
    - Network Processing Circuits, 12-2
    - NPC, 12-2
    - Synchronizer, 12-2, 12-3
    - Synchronizer Timing Link
      - Interface, 12-3
    - Time Slot Interchange, 12-3
    - Time Slot Interchanges, 12-3
    - Unit On UC, 12-3
  - Digital Signal Processing Unit NPC, 2-3
  - Director DACS II, 12-5
  - Director DACS NPC, 12-6
  - Director DACS To, 10-1
  - Disconnect, 6-1, 6-2
  - Disconnect DS0 Circuit Roll, 6-1
  - Disconnect Facility Roll, 6-2
  - Disconnection,
    - Broadcast, 4-2
    - Circuits, 4-6
    - One-Way, 4-4
    - One-Way, Multipoint, 4-4
    - TS16 and C-Bit NPC, 4-6
    - Two-Way, 4-6
  - Document Contents, viii
  - DS0 Circuit Roll, 6-2
    - Bridge, 6-1
    - Disconnect, 6-1
  - DS0 Roll, 12-10
  - DS1 Roll, 12-10
  - DSPU, 12-3

---

## E

ECCN Error Source Register, 12-7  
Edit Delete, 5-1  
Edit Delete Map, 5-1  
Electronic Documentation, xvi  
Emode, Non-Channelized Test  
    FAD, 11-1  
Entity Equipage, 12-6  
Equalization, 12-13  
Equipage Status, 12-6  
Equipment Connectivity, 12-6  
Equipped, 12-6  
Equipped NPCs, 12-6  
Error Recovery, Software/Hardware  
    Query, 12-7  
Error Source Register, 12-7  
Error Source Register FTMI, 12-8  
Error Source Register Main  
    Processor, 12-7  
ESR for FTU/Subrate NPC, 12-7  
ETSI, 8-1, 12-2  
ETSI, Remove, 8-1  
ETSIs, 12-6  
    Restore All, 9-1  
ETSIs, Remove All, 8-1  
Execute, 5-2  
Execute Macro, 5-2  
Expanded Time Slot Interchanger, 9-1  
Expanded Time Slot Interchanger,  
    Restore, 9-1

---

## F

Facility Alarm, Set Daily Reporting  
    Time, 13-2  
Facility Alarms, 12-1  
Facility Roll, 6-2  
    Bridge, 6-1  
    Disconnect, 6-2  
Facility Terminating Module  
    Interface, 2-2, 2-4, 12-3  
Feature Package, 12-8  
Fmode, Non-Channelized Test  
    FAD, 11-1  
Format Converter, 12-3  
Frame, Configure, 2-1  
Frame, Provision, 2-2  
From, 12-8  
FTMI/DSPI, 8-3, 9-3  
FTMI/DSPI, Remove, 8-3  
FTMI/DSPI, Restore, 9-3  
Full Cross-Connect Map, 12-6

---

## G

Group Release, Nx64 kbit/s, 11-3

---

## H

How to Comment on This Document, xvi  
How to Order Documentation, xiv  
How To Use This Document, vii

Hub, Non-Channelized, 11-2  
Hub, Two-Way Test Access, 11-2  
Hub, Two-Way Test Access, Nx64  
kbit/s, 11-2

---

## I

Impedance, 12-13  
Intended Audiences, vii

---

## L

Line Number, 5-2  
Link, 8-2, 12-2  
Link Status and Protocol, 12-11  
Link, Protocol, Baud, 1-1  
Link, Remove, 8-2  
Link, X.25, Protocol, Data Link, Layer  
Parameters, 1-1  
List Contents, 5-2  
List Macro Contents, 5-2  
Location, 12-4  
Log, 12-8  
Log Off User/Link, 1-3  
Log On To DACS II, 1-3  
Loopback, 12-8  
Looped, 11-3  
Looped Test Access, 11-3  
Looped Test Access, Nx64 kbit/s, 11-2  
Looped, Nx64 kbit/s, 11-2

---

## M

Macro, 12-9  
Macro Attributes, 12-9  
Macro List, 12-8  
Macro Space, 5-1  
Macro/Map Space, 12-9  
Macros,  
Change Space, 5-1  
Create/Edit, 5-2  
Delete Lines, 5-1  
Execute, 5-2  
List Contents, 5-2  
Move Lines, 5-2  
Stop, 5-2  
Main Controller, 8-2, 9-2, 12-2  
Main Controller, Remove, 8-2  
Main Controller, Restore, 9-2  
Main Processor, 12-2  
Map, 12-9  
Map List, 12-8  
Maps,  
Create/Edit, 5-2  
Edit Delete, 5-1  
Markings, 12-9  
Memory Card, 12-2  
Memory Status, 12-9  
Monitor, Two-Way Test Access, 11-3  
Move Lines, 5-2  
Move Macro Lines, 5-2

---

## N

Network Processing Circuit, 2-1  
Network Processing Circuit  
  Parameter, 12-10  
Network Processing Circuit, Add, 2-1  
Network Processing Circuits, 12-2  
Non-Channelized FAD,  
  Emode/Fmode, 11-1  
Non-Channelized Loop Test Access  
  Facility, 11-2  
Non-Channelized Test Access, 11-1  
Non-Channelized Test Hub, 11-2  
Non-Channelized Test NPC  
  Release, 11-2  
Non-Channelized, Loop, 11-1  
Non-Channelized, Loop Facility, 11-2  
Non-Channelized, Monitor, 11-1  
Non-Channelized, NPC Release, 11-2  
Non-Channelized, Split, 11-1  
Non-Channelized, To, 12-12  
NPC, 2-1, 2-3, 12-2  
NPC Addressing and Priority, 1-2  
NPC AIS Alarm Option, 7-2  
NPC Loopback, 7-2  
NPC Map, 12-10  
NPC Monitor, 9-2  
NPC Monitor, Restore, 9-2  
NPC Non Frame-Word Setting, 7-2, 12-9  
NPC Options, 7-2, 12-10  
NPC State, 12-11  
NPC Time Slot 0 Monitor, 9-2  
NPC Time Slot 0 Monitor, Restore, 9-2  
NPC Time Slot Zero, 7-2, 12-13  
NPC Type, 7-3  
NPCs, 8-2, 9-2

NPCs, Remove, 8-2  
NPCs, Restore, 9-2  
Nx64 kbit/s, Monitor, 11-3  
Nx64 kbit/s, Split, 11-3  
Nx64 kbit/s, Test Access, 11-2  
Nx64 kbit/s, Two-Way Test Access, 11-3,  
  11-4

---

## O

One-Way, 4-3, 4-4  
One-Way Cross-Connect Terminated  
  Multipoint Circuit, 4-3  
One-Way Cross-Connection, 4-3  
One-Way Cross-Connection,  
  Terminate, 4-3  
One-Way Disconnection, 4-4  
One-Way Multipoint Disconnection, 4-4  
One-Way Non-Channelized Digital  
  Signal, 4-4  
One-Way Non-Channelized Digital  
  Signal Cross-Connect, 4-4  
One-Way Terminated, Multipoint, 4-3  
One-Way, Multipoint, 4-4  
One-Way, Terminate, 4-3  
Options, 7-3

---

## P

Partial Cross-Connect Map, 12-5  
Password Recovery, 12-13  
Performance Monitoring Data for  
  DA/TA/PA Type NPCs, 3-2  
Performance Monitoring Report  
  Schedule, 3-2

PMEM/SMEM, 8-2, 9-2  
PMEM/SMEM, Remove, 8-2  
PMEM/SMEM, Restore, 9-2  
Priorities and/or Type, Synchronizer or NPC, 7-3  
Provision,  
    Clock Reference Oscillator, 2-4  
    Digital Signal Processing Unit NPC, 2-3  
    Facility Terminating Module Interface, 2-4  
    NPC, 2-3  
    Synchronizer Time Base, 2-3  
    Synchronizer Timing Link Interface, 2-4  
    Test Access Group, 2-4  
    Test Access Group NPC, 2-2  
    Test Port, 2-4  
    Test Port NPC, 2-3  
    Unit, 2-4  
Provision Frame, 2-2  
Purpose of Document, vii

---

## Q

Query,  
    Alarm Option, AIS, 12-4  
    Alarms, 12-4  
    All, 12-4  
    All Common Equipment, 12-4  
    Bit-C NPC, 12-5  
    Bit-C To, 12-5  
    Broadcast, 12-5  
    Broadcast All, 12-4  
    Broadcast From, 12-5  
    Channel Marks, 12-9  
    Query (Continued)  
        Common Equipage, 12-6  
        Common Equipment Status, 12-10  
        Configure, 12-5  
        Cross-Connect Status Bar, 12-13  
        Date, 12-5  
        Destination Cross-Connect, 12-12  
        Director DACS II, 12-5  
        Director DACS NPC, 12-6  
        DS0 Roll, 12-10  
        DS1 Roll, 12-10  
        ECCN Error Source Register, 12-7  
        Entity Equipage, 12-6  
        Equalization, 12-13  
        Equipage Status, 12-6  
        Equipment Connectivity, 12-6  
        Equipped, 12-6  
        Equipped NPCs, 12-6  
        Error Source Register, 12-7  
        Error Source Register FTMI, 12-8  
        Error Source Register Main Processor, 12-7  
        ESR for FTU/Subrate NPC, 12-7  
        ETSIs, 12-6  
        Facility Alarms, 12-1  
        Feature Package, 12-8  
        From, 12-8  
        Full Cross-Connect Map, 12-6  
        Impedance, 12-13  
        Line Number, 5-2  
        Link Status and Protocol, 12-11  
        Location, 12-4  
        Log, 12-8  
        Loopback, 12-8  
        Macro, 12-9  
        Macro Attributes, 12-9  
        Macro List, 12-8  
        Macro/Map Space, 12-9  
        Map, 12-9

Query (Continued)

- Map List, 12-8
- Markings, 12-9
- Memory Status, 12-9
- Network Processing Circuit
  - Parameter, 12-10
- Non-Channelized, To, 12-12
- NPC Map, 12-10
- NPC Non Frame-Word Setting, 12-9
- NPC Options, 12-10
- NPC State, 12-11
- NPC Time Slot Zero, 12-13
- Partial Cross-Connect Map, 12-5
- Performance Monitoring Data for DA/TA/PA Type NPCs, 3-2
- Performance Monitoring Report Schedule, 3-2
- Sequence, 12-11
- Software/Hardware Error
  - Recovery, 12-7
- SSP, 12-12
- State, 12-11
- State Alarm Cut Off, 12-11
- Status of Entities/Equipment, 12-10
- Status Register, 12-12
- Synchronizer, 12-12
- Synchronizer State, 12-11
- Test Ports, 12-12
- Test-Access Group, 12-12
- Test-Access Group NPC, 12-10
- Time Slot Zero Monitor, 12-13
- Timing Link Interface, 12-12
- Trunk Signaling Conversion
  - State, 12-11
- User/Link Screening Option, 12-11
- Who, 12-13

---

**R**

- Recover Password, 12-13
- Related Documentation, x
- Release Test Port, 2-4
- Remove,
  - All ETSIs, 8-1
  - All TSIs in Cross-Connect Side (Non-CEF Only), 8-2
  - All Unit Connected TSIs (Non-CEF Only), 8-3
  - Clock Control Interface, 8-1
  - Cross-Connect Buffer (Non-CEF Only), 8-1
  - Cross-Connect Network Interface, 8-1
  - ETSI, 8-1
  - FTMI/DSPI, 8-3
  - Link, 8-2
  - Main Controller, 8-2
  - NPCs, 8-2
  - PMEM/SMEM, 8-2
  - Synchronizer, 8-2
  - Synchronizer Time Base/Clock Reference Oscillator, 8-2
  - Synchronizer TLI/SSP, 8-2
  - Time Slot Interchange, 8-2
  - Unit Controller, 8-3
  - Unit Format Converter, 8-3
- Restore,
  - Administrative Link, 9-2
  - All ETSIs, 9-1
  - Clock Reference Oscillator, 9-3
  - Control and Clock Interface, 9-1
  - Cross-Connect Buffer, 9-1
  - Cross-Connect Network Interface, 9-1
  - Expanded Time Slot Interchanger, 9-1

Restore (Continued)  
  FTMI/DSPI, 9-3  
  Main Controller, 9-2  
  NPC Monitor, 9-2  
  NPC Time Slot 0 Monitor, 9-2  
  NPCs, 9-2  
  PMEM/SMEM, 9-2  
  Synchronizer, 9-2  
  Synchronizer Timing Link  
    Interface, 9-3  
  Time Slot Interchange, 9-3  
  Time Slot Interchanges, 9-3  
  TSI For Unit (Non-CEF Only), 9-3  
  Unit, 9-3  
  Unit Controller, 9-3  
Restore All, 9-1  
Retrieve Memory Status, 12-9  
Retrieve Performance Monitoring Report  
  Schedule, 3-2  
Roll, DS0 Circuit, 6-2  
Roll, Facility, 6-2

---

## S

Save Component, 5-2  
Sequence, 12-11  
Set Daily Facility Alarm Reporting  
  Time, 13-2  
Set Date, 13-2  
Set Errored Block Threshold Ratio, 3-1  
Set Options, 7-3  
Software/Hardware Error Recovery, 12-7  
SSP, 12-12  
State, 12-11  
State Alarm Cut Off, 12-11  
Status of Entities/Equipment, 12-10

Status Register, 12-12  
Stop, 5-2  
Stop Macro, 5-2  
Switch, TOX, 7-3  
Synchronizer, 8-2, 9-2, 12-2, 12-3, 12-12  
Synchronizer State, 12-11  
Synchronizer Time Base, 2-2, 2-3  
Synchronizer Time Base/Clock  
  Reference Oscillator, 8-2  
Synchronizer Time Base/Clock  
  Reference Oscillator, Remove, 8-2  
Synchronizer Timing Link Interface, 2-2,  
  2-4, 9-3, 12-3  
Synchronizer Timing Link Interface,  
  Restore, 9-3  
Synchronizer TLI/SSP, 8-2  
Synchronizer TLI/SSP, Remove, 8-2  
Synchronizer, Configure, 2-1  
Synchronizer, Remove, 8-2  
Synchronizer, Restore, 9-2

---

## T

Terminate-And-Leave-Active, Test  
  Access, 11-4  
Terminate-And-Leave-Release, Test  
  Access, 11-4  
Terminated Multipoint, One-Way Cross-  
  Connection, 4-3  
Test Access,  
  Group Release, Nx64 kbit/s, 11-3  
  Hub, Non-Channelized, 11-2  
  Looped, 11-3  
  Looped, Nx64 kbit/s, 11-2  
  Non-Channelized FAD,  
    Emode/Fmode, 11-1

- Test Access (Continued)
  - Non-Channelized, Loop, 11-1
  - Non-Channelized, Loop Facility, 11-2
  - Non-Channelized, Monitor, 11-1
  - Non-Channelized, NPC
    - Release, 11-2
  - Non-Channelized, Split, 11-1
  - Nx64 kbit/s, Monitor, 11-3
  - Nx64 kbit/s, Split, 11-3
  - Two-Way, 11-3, 11-4
  - Two-Way, Hub, 11-2
  - Two-Way, Monitor, 11-3
  - Two-Way, Nx64 kbit/s, 11-4
  - Two-Way, Nx64 kbit/s, Hub, 11-2
- Test Access Group, 2-2, 2-4
- Test Access Group NPC, 2-2
- Test Port, 2-2, 2-4
- Test Port NPC, 2-2, 2-3
- Test Port Release, 2-4
- Test Ports, 12-12
- Test-Access Group, 12-12
- Test-Access Group NPC, 2-1, 12-10
- Time Slot Interchange, 8-2, 9-3, 12-3
- Time Slot Interchange, Remove, 8-2
- Time Slot Interchange, Restore, 9-3
- Time Slot Interchanges, 9-3, 12-3
- Time Slot Interchanges, Restore, 9-3
- Time Slot Zero Monitor, 7-2, 12-13
- Timing Link Interface, 12-12
- TOX, Change Switch, 7-3
- Trunk Signaling Conversion State, 12-11
- TS16 and C-Bit NPC, 4-6
- TS16 and C-Bit NPC Disconnection, 4-6
- TSI For Unit (Non-CEF Only), 9-3
- TSI For Unit (Non-CEF Only),
  - Restore, 9-3
- Two-Way, 4-5, 4-6, 11-3, 11-4
- Two-Way Cross-Connection, 4-5, 4-6
- Two-Way Cross-Connection, C-Bit, 4-5
- Two-Way Cross-Connection,
  - Multipoint, 4-5
- Two-Way Cross-Connection,
  - Terminate, 4-5
- Two-Way Cross-Connection, Terminate,
  - Multipoint, 4-4
- Two-Way Disconnection, 4-6
- Two-Way Multipoint, Terminate, 4-4
- Two-Way Non-Channelized Digital Signal, 4-6
- Two-Way Non-Channelized Digital Signal Cross-Connection, 4-6
- Two-Way Test Access, 11-3, 11-4
- Two-Way Test Access, Group
  - Release, 11-3
- Two-Way Test Access, Hub, 11-2
- Two-Way Test Access, Monitor, 11-3
- Two-Way Test Access, Monitor Nx64 kbit/s, 11-3
- Two-Way Test Access, Nx64 kbit/s, 11-4
- Two-Way Test Access, Split Nx64 kbit/s, 11-3
- Two-Way, C-Bit, 4-5
- Two-Way, Hub, 11-2
- Two-Way, Monitor, 11-3
- Two-Way, Multipoint, 4-5
- Two-Way, Nx64 kbit/s, 11-4
- Two-Way, Nx64 kbit/s, Hub, 11-2
- Two-Way, Terminate, 4-5
- Type, Options, 7-3
- Type/Threshold Mode, 7-3

---

## U

Unit, 2-2, 2-4, 9-3  
Unit Controller, 8-3, 9-3  
Unit Controller, Remove, 8-3  
Unit Controller, Restore, 9-3  
Unit Format Converter, 8-3  
Unit Format Converter, Remove, 8-3  
Unit On UC, 12-3  
Unit, Restore, 9-3  
Upgrade Frame, 13-2  
User, 1-2  
User Password, 1-3  
User Password, Change, 1-3  
User/Link Language, 1-2  
User/Link Screening, 1-3  
    Change, 1-3  
User/Link Screening Option, 12-11  
Utilities, Alarm Reporting, 3-2  
Utility Boot, 13-2  
Utility Clear Counter, State of NPC, 3-1  
Utility Clear DA/TA/PA NPC  
    Parameters, 3-1  
Utility Clear Hardware/Software Error  
    Recovery Log File, 3-1

---

## W

Who, 12-13

---

## X

X.25 Link Parameters, 1-2  
X.25 Link Parameters, Add, 1-2

