



DDM-2000 OC-3 Multiplexer System Commands

HELP

? (help)

provides help within a craft dialog on the CIT

SPECIAL CHARACTERS

At-sign (@) - erases an input line.

Backspace [[^]H h (Ctrl h)] or underbar () - erases a character.

Question mark (?) - help

Semicolon (;) - ends a command.

Carriage return or - ends line of input

CANcel or DELeTe - aborts a command

CROSS-CONNECT

cnvt-crs:*Address1,Address2;* (**Caution**^{*})

converts existing STS-1 cross-connections to 28 individual VT1.5 cross-connections with the same endpoints

Address1=first STS1 channel to be converted

Address2=second STS1 channel to be converted

dlt-crs-sts1:*Address1,Address2:[cct=CrsType];* (**Caution**^{*})

deletes STS-1 cross-connections

Address1, Address2=Addresses of two STS-1 channels or one STS-1 channel and one DS3/EC-1/OC-3/MXRVO /TMUX port or OC-1 line

cct=cross-connection type (two-way or dc)

dlt-crs-sts3c:*Address1,Address2:[cct=CrsType];* (**Caution**^{*})

deletes STS-3c cross-connections

Address1, Address2=Addresses of two STS-3c channels

cct=cross-connection type (two-way)

dlt-crs-vt1:*Address1,Address2:[cct=CrsType];* (**Caution**^{*})

deletes VT1.5 (DS1) cross-connections

Address1, Address2=addresses of two VT1.5 channels or one VT1.5 channel and one DS1 or "internal" DS1 (within TMUX circuit pack) port

cct=cross-connection type (two-way, dc, or locked)

ent-crs-sts1:*Address1,Address2:[cct=CrsType]*

[,ring=RingID]; (**Caution**^{*})

sets bidirectional STS-1 cross-connections between main and function units slots

Address1, Address2=Addresses of two STS-1 channels or one STS-1 channel and one DS3/EC-1 /OC-3/MXRVO/TMUX port or OC-1 line or same time slot for pass-through traffic

cct=cross-connection type (two-way, dc, or locked line)

ring=ring ID for dc cross-connections (m1 or m2)

ent-crs-sts3c:*Address1,Address2:[cct=CrsType];*

(**Caution**^{*})

sets bidirectional pass-through STS-3c cross-connections

Address1, Address2=Addresses of two STS-3c channels

cct=cross-connection type (two-way)

ent-crs-vt1:*Address1,Address2:[cct=CrsType]*

[,ring=RingID]; (**Caution**^{*})

sets bidirectional VT1.5 (DS1) cross-connections between main and function units slots

Address1, Address2=addresses of two VT1.5 channels or one VT1.5 channel and one DS1 or "internal" DS1

(within TMUX circuit pack) port

cct=cross-connection type (two-way, dc, or locked)

ring=ring ID for drop and continue and locked

cross-connections (m1 or m2)

LOOPBACK

opr-lpbk-ec1:*Address:[lpbktype=LoopbackType];* (**Caution**^{*})

executes loopback on low-speed STS1E interface towards fiber or DSX

Address=EC1 port(s) (a, b, c, all)

lpbktype=loopback type (terminal or facility)

opr-lpbk-t1:*Address:[lpbktype=LoopbackType];* (**Caution**^{*})

loops back DS1 port toward fiber or DSX

Address=DS1 port(s)

lpbktype=loopback type (terminal or facility)

rls-lpbk-ec1:*Address:[lpbktype=LoopbackType];*

releases loopback on STS1E interface

Address=EC1 port(s) (a, b, c, all)

lpbktype=loopback type (terminal or facility)

opr-lpbk-t3:*Address:[lpbktype=LoopbackType];* (**Caution**^{*})

executes loopback on DS3 port toward fiber or DSX

Address=DS3 port(s)

lpbktype=loopback type (terminal or facility)

rls-lpbk-t3:*Address:[lpbktype=LoopbackType];*

releases loopback on DS3 port

Address=DS3 port(s)

lpbktype=loopback type (terminal or facility)

rls-lpbk-t1:*Address:[lpbktype=LoopbackType];*

releases loopback on DS1 port or an "internal" DS1 port in a TMUX circuit pack

Address=DS1 port(s)

lpbktype=loopback type (terminal or facility)

MISCELLANEOUS

apply:*[date=date][,time=time][,action=action];*(R13)

apply:*[pgmtype=ProgramType][,Address=AID][,date=date]*

[,time=time][,action=action];(R15)

initiates the installation of a dormant copy of a software generic stored in the network elements flash memory

programtype=network element (nesw) or IMA LAN (lansw)

software generic

Address=low speed slot(s) equipped with IMA LAN

circuit pack

- date=date (YYMMDD)
time=time (HHMMSS)
action=enables the execution of command to be confirmed or canceled (install, cancel, NULL)
- cpy-prog:** *TID*; (R13)
cpy-prog: *TID*, *pgmtype=ProgramType*; (R15)
copies system controller program from local NE to remote NE
TID=target identifier (shelf name) into which the program will be loaded
ProgramType=network element (nesw) or IMA LAN (lansw) software generic
- dlt-osacmap:** *vc=VCType*, *snpa=SNPA*;
deletes DTE calling addresses of operations systems (OS)
vc=virtual circuit type X.25 attachment for OS (PVC or SVC)
snpa=X.25 subnetwork point of attachment for OS
- ent-osacmap:** *vc=VCType*, *snpa=SNPA*, *acid=ACID*; (R13)
ent-osacmap: [*Address*]; [*porttype=porttype*], *vc=VCType* [*snpa=SNPA*], [*acid=ACID*]; (R15)
creates entries in X.25 subnetwork application context map
address=CIT port or an Asynchronous X.25 port (cit-{1,2} or x25)
porttype=specifies whether CIT port is used for CIT or TL1 application or X.25 port is synch or asynch
vc=virtual circuit type X.25 attachment for OS (PVC or SVC)
snpa=X.25 subnetwork point of attachment address for OS
acid=application context ID assigned to a SNPA address
- ent-tl1msgmap:** *acid=ACID*, *msgtype=MessageType*, *action=Action*;
maps TL1 message types to operations systems (OS)
acid=application context ID
msgtype=supported classes of TL1 messages
action=associates MessageType to OS (enabled or disabled)
- dlt-ulsdcc-14:** [*L4ajsys=AJSystemID*], [*L4tdctid=TDCTID*];
deletes provisionable parameters of Layers 3 through 7 of the open systems interconnection (OSI) 7-layer protocol stack
L4ajsys=specifies the NSAP System Identifier field of the TARP adjacent NE to be deleted from the TARP Manual Adjacency list of the local NE (12-digit hex)
L4tdctid=TID of NE for which the row of data is to be deleted from the TARP data cache
- ent-ulsdcc-13:** [*L3org=OrganizationID*], [*L3res=Reserved*] [*L3rd=RoutingDomain*], [*L3area=Routing Area*] [*L3lv2is=Level2Router*];
provisions parameters of Layers 3 of the open systems interconnection (OSI) 7-layer protocol stack
L3org=company code field (6-digit hex)
L3res=reserved (currently not used) (4-digit hex)
L3rd=NSAP routing domain field (4-digit hex)
L3area=NSAP area field (4-digit hex)
L3lv2is=level 2 IS-IS routing (enable or disable)
- ent-ulsdcc-14:** [*L4lif=LifeTime*], [*L4ajsys=AJSystemID*] [*L4ajorg=AJOrganizationID*], [*L4ajres=AJReserved*] [*L4ajrd=AJRoutingDomain*], [*L4ajarea=AJRouting Area*] [*L4t1tm=TimerT1*], [*L4t2tm=TimerT2*], [*L4t3tm=TimerT3*] [*L4t4tm=TimerT4*], [*L4lftm=LDBFlushTimer*] [*L4etdc=L4etdc*], [*L4tdcsys=L4tdcSystem*] [*L4tdctid=L4tdctid*], [*L4tdcorg=L4tdcOrganizationID*] [*L4tdcres=L4tdcReserved*], [*L4tdcprd=L4tdcRoutingDomain*] [*L4tdcarea=L4tdcRoutingArea*];
provisions parameters of Layers 4 of the open systems interconnection (OSI) 7-layer protocol stack
L4lif=TARP lifetime parameter (1-65535)
L4ajsys=NSAP system identifier field (12-digit hex)
L4ajorg=NSAP organization id field (6-digit hex)
L4ajres=NSAP reserved field (4-digit hex)
L4ajrd=NSAP routing domain field (4-digit hex)
L4ajarea=NSAP area field (4-digit hex)
L4t1tm=TARP timer 1 (1-3600 secs)
L4t2tm=TARP timer 2 (1-3600 secs)
L4t3tm=TARP timer 3 (1-3600 secs)
L4t4tm=TARP timer 4 (1-3600 secs)
L4lftm=TARP loop detection buffer flush timer (1-1440 secs)
L4etdc=TARP data cache (enable or disable)
L4tdcsys=NSAP system identifier field of NE manually entered into TARP data cache (12-hex digit)
L4tdctid=Target identifier (TID) of NE manually entered into TARP data cache (up to 20 alphanumeric characters)
L4tdcorg=NSAP organization id field of NE manually entered into TARP data cache
L4tdcres=NSAP reserved field of NE manually entered into TARP data cache (4-digit hex)
L4tdcprd=NSAP routing domain field of NE manually entered into TARP data cache (4-digit hex)
L4tdcarea=NSAP area field of NE manually entered into TARP data cache (4-digit hex)
- init-pm:** *reg=Register*;
initializes all current day and/or current qtr. hr. PM registers
reg=register being initialized (day, qh, or all)
- init-sys:** *Address*; (**Caution**)
initializes provisionable parameters to default values
Address=all slots or SYSCTL (all or sysctl)
- ins-prog:** *TID*; (R13)
ins-prog: *TID*, *pgmtype=ProgramType*; (R15)
install new program into SYSCTL
TID=target identifier (system name)
pgmtype=network element (nesw) or IMA LAN (lansw) software generic
- logout;**
terminates user CIT session
- opr-aco;**
silences audible office alarms
- reset;**
resets system software program
- rign:** *TID*;
establishes a remote login session via DCC
TID=target identifier (system name)

rstr-passwd: *login,passwd,user_type,clr;*
 restores login, password, and user type information
 login=login name
 password=current encrypted and encoded password
 user_type=assigned user access (privileged, general, maintenance, or reports-only)
 clr=indicates whether login should be deleted (clear or noclear)

toggle or **Ctrl t (Ctrl t)**
 toggles between local and remote sessions

upd; (**Caution***)
 updates system database

RETRIEVE

rtrv-alm: [*alm=AlarmLevel*];
 displays report of active alarm and status conditions at the local network element
 alm=alarm level reported (all, cr, mj, mn, pmn, or other)

rtrv-attr-alm;
 displays current alarm parameters (almdel, clrdel, and pmn)

rtrv-attr-cont: [*Address*];
 displays provisioned name of miscellaneous discrete environmental control points
 Address=control point [cont-{1-4,all}]

rtrv-attr-env: [*Address*];
 displays provisioned alarm, name, and alarm type of miscellaneous environmental alarm/status points
 Address=environment input point [env-{1-21,all}]

rtrv-crs-sts1: [*Address*];
 displays STS-1 cross-connections
 Address=one or more STS-1 channel(s)

rtrv-crs-sts3c: [*Address*];
 displays STS-3c cross-connections
 Address=one or more STS-3c channel(s)

rtrv-crs-vt1: [*Address*];
 retrieves VT1.5 (DS1) cross-connections
 Address=VT1.5 channels or DS1 ports

rtrv-ec1: [*Address*];
 displays information about each EC1 port
 Address=one or more EC1 port(s) (a, b, c, all)

rtrv-eqpt: [*Address*];
 displays circuit pack type and version information
 Address=one or more slot(s)

rtrv-feat;
 displays list of active feature options

rtrv-fecom: [*Address*];
 displays provisioned state of NE's DCC channel(s) and IAO LAN interface
 Address=one or more DCC channel(s) or IAO LAN interface

rtrv-hsty;
 displays event history report

rtrv-lan: [*Address*];
 displays data associated with the IMA LAN circuit pack
 Address=IMA LAN port on the IMA LAN circuit pack

rtrv-lgn;
 displays login authorization information

rtrv-link;
 displays provisioned parameters for CIT link

rtrv-map-neighbor;
 displays immediate DCC and/or IAO LAN neighbors reachable by the local NE

rtrv-map-network: [*Level2=level2*];
 displays all NEs in same Level 1 area reachable by the local NE through DCC or IAO LAN
 level2=all reachable NEs provisioned as Level 2 ISs across multiple areas within a subnetwork (Y or N)

rtrv-ne;
 displays information provisioned by **set-ne** command and set by switches on SYSCTL

rtrv-oc1: [*Address*];
 displays provisioned OC-1 line configuration
 Address=OC-1 line(s)

rtrv-oc3: [*Address*];
 displays provisioned OC-3 line configuration
 Address=one or all OC-3 line(s)

rtrv-oc12: [*Address*];
 displays provisioned OC-12 line configuration
 Address=one or all OC-12 line(s)

rtrv-osacmap;
 displays Open Systems Application Context Map information

rtrv-passwd;
 displays logins, passwords, and user type for all logins

rtrv-pm-lan: [*Address*];
 displays PM data for IMA LAN circuit pack
 Address=LAN port on the IMA LAN circuit pack

rtrv-pm-line: [*Address*];
 displays PM data for OC-1, OC-3, OC-12, or EC-1 lines
 Address=OC-1, OC-3, OC-12, or EC-1 line(s)

rtrv-pm-sect: [*Address*];
 displays PM data for OC-3 and OC-12 optics, STS-1 within OC-1 line, and STS-3 and STS-12 section
 Address=OC-1, OC-3, or OC-12 line(s)

rtrv-pm-sts1: [*Address*];
 displays PM data for STS-1 signals
 Address=one or all STS-1 channel(s)

rtrv-pm-t1: [*Address*];
 displays PM DS1 status report
 Address=DS1 port(s)

rtrv-pm-t3: [*Address*];
 displays PM data for DS3 signals
 Address=DS3 port(s)

rtrv-pm-tca;
 displays PM threshold-crossing alerts (TCA) for signals terminating in or passing through the system

rtrv-pm-vt1: [*Address*];
 displays PM status report for one or more VT1.5 channels
 Address=one or more VT1.5 channels

rtrv-pmthres-line;
 displays current OC-1, OC-3, and OC-12 line PM thresholds

rtrv-pmthres-sect;
 displays current section PM thresholds

rtrv-pmthres-sts1;
 displays current STS-1 path PM thresholds

rtvr-pmthres-t1;
displays current DS1 path and line PM thresholds

rtvr-pmthres-t3;
displays current DS3 PM thresholds

rtvr-pmthres-vt1;
displays current VT1.5 PM thresholds

rtvr-secu;
displays CIT and DCC port security and timeout information, users who are currently logged into NE via CIT and DCC ports, and users logged into NE via X.25 PCVs and/or SVCs

rtvr-state-reqpt:[Address];
displays slot, port, and protection switching state information
Address=one or more slot(s)

rtvr-state-path:[Address];
displays signal path state information for paths dropped at NE
Address=any connected VT1.5 or STS-1 protected signals path

rtvr-state-oc1:[Address];
displays OC-1 line states
Address=any OC-1 line

rtvr-state-sts1:[Address];
displays STS-1 channel states
Address=STS-1 channels

rtvr-state-vt1:[Address];
displays VT1.5 channel states
Address=any VT1.5 channel

rtvr-sts1:[Address];
displays provisioned parameters of STS-1 channels
Address=STS-1 channels

rtvr-sync;
displays provisioning and operation information on synchronization attributes of DDM-2000

rtvr-t1:[Address];
displays configuration information and attributes of one or more DS1 or "internal" DS1 (within TMUX) ports
Address=DS1 or "internal" DS1 (within TMUX) port(s)

rtvr-t3:[Address];
displays provisioning information for DS3 ports
Address=DS3 port(s)

rtvr-tl1msgmap;
displays table that associates OS Application Context Identifier (ACID) to TL1 autonomous message types

rtvr-trace-sts1:Address;
displays provisioned transmit and receive path traces for the STS-1 channel
Address=STS-1 channels

rtvr-ulsdcc-l3;
displays parameters in Layers 3 through 7 of OSI stack

rtvr-ulsdcc-l4[:tdc_rpt=tdc_rpt];
displays parameters in Layer 4 of OSI stack
tdc_rpt=TARP data cache reporting (yes or no)

rtvr-vt1:[Address];
displays provisioned parameters of dropped VT1.5 channels
Address=VT1.5 channels

rtvr-x25;
displays X.25 link packet size, X.25 communication status, and X.25 event history reports

SWITCH

switch-fn:Address:pri=Priority; (Caution^{*})
controls function unit circuit pack protection switching
Address=function unit [fn-{a, b, c}]
pri=switch request priority (reset, inhibit, forced, or manual)

switch-line:Address:pri=Priority; (Caution^{*})
controls OC-3 line protection switching
Address=OC-3 lines
pri=switch request priority (reset, inhibit, lockout, forced, or manual)

switch-ls:Address:pri=Priority; (Caution^{*})
controls low speed circuit pack protection switching
Address=low-speed slot(s)
pri=priority of protection switch request (reset, lockout, forced, or manual)

switch-path-sts1:Address:pri=Priority;
controls STS-1 path switching on path protected ring
Address=STS-1 path carrying traffic
pri=switch request priority (manual)

switch-path-vt1:Address:pri=Priority;
controls VT1.5 path switching on path protected ring configurations
Address=VT1.5 path carrying traffic
pri=priority of protection switch request (manual)

switch-sync:s=SyncFunction:pri=Priority; (Caution^{*})
controls synchronization protection switching
s=synchronization function (reference, mode, circuitpack, or src)
pri=switch request priority (reset, inhibit, or manual)

SET

set-attr-alm:[almdel=AlarmDelay][,clrdel=ClearDelay][,pmn=PMN];
sets alarm holdoff and clear delays
almdel=alarm delay in seconds (00-30)
clrdel=alarm clear delay in seconds (00-30)
pmn=power minor alarm level (mn or mj)

set-attr-cont:Address:desc=Description;
provisions name of environmental control points
Address=control point [cont-{1-4}]
desc=name of control point (up to 26 alphanumeric characters)

set-attr-env:Address[:alm=Alarm][,almtype=AlarmType][,desc=Description];
sets alarm level of environmental input points
Address=environment input point [env-{1-21,all}]
alm=alarm level (cr, mj, mn, or na)
almtype=type of alarm (up to 10 alphanumeric characters)
desc=name for point (up to 26 alphanumeric characters)

set-date:[date=Date][,time=Time];
sets date and time
date=year, month, and day (YYMMDD)
time=hour, minute, and second (HHMMSS)

set-ec1:Address[:alm=AlarmLevel][,dgr=SignalDegradThreshold];
sets alarm and signal degrade threshold levels of EC-1 port
Address=EC-1 ports
alm=alarm level (cr, mj, mn, or na)
dgr=signal degrade threshold level (-9 to -5)

set-feat:feat=Feature,act=Action;
sets network element feature options
feat=feature available to user (sts3c, vtpm, or ds1pm)
act=action (enabled or disabled)

set-fecom:Address:[com=Communications]
[,nsus=NS/US][,lanreset=lanreset];
enables or disables communication over section
DCC channel or IAO LAN
Address=DCC channels or IAO LAN
com=communications over specified DCC or
IAO LAN interface (enabled or disabled)
nsus=network side/user side DCC ID for NE (ns or us)
lanreset=reset NE's LAN interface (y or n)

set-lan:Address:grpid=imagroupid,aa15=aa15fmt,
vpi=virtualpathid,vci=virtualchannelid,
scrambler=atmscrambler,polynomial=atmpolynomial,
length=framelength,fcs=framechecking,
alm=alarmlevel,pmmd=pmmode];
sets IMA LAN internal parameters
Address=low speed slots equipped with IMA LAN
circuit pack
grpid=IMA group identifier (0-255)
aa15=ATM adaptation layer 5 (llc or vcmux)
vpi=ATM virtual path identifier (0-255)
vci=virtual channel identifier (0-65535)
length=IMA frame length (32, 64, 128, or 256)
scrambler=ATM scrambler (on or off)
polynomial=ATM polynomial (on or off)
fcs=frame check sequence preservation disable
(enable or disable)
alm=Alarm level (mj, mn, or na)
pmmd=PM mode of IMA LAN circuit pack (on or off)

set-lgn:[act=Action];
enters, edits, and deletes logins and passwords
act=action (enter, edit, or delete)

set-link:pg=pagelength;
sets configuration of CIT link
pg=vertical page size in lines (3-150)

set-ne:tid=TID[,shelf=Shelf][,cort=CO/RT]
[,idle=IdleChanelSignal];(R13)

set-ne:tid=TID[,rnestat=RneStat][,almgrp=AlarmGroup]
[,agne=AGNE][,shelf=Shelf]
[,idle=IdleChanelSignal][,cort=CO/RT];(R15)
sets network element characteristics
tid=target identifier (shelf name)
(up to 20 alphanumeric characters)
rnestat=remote NE status (enabled or disabled)
almgrp=alarm group (1-255)
agne=alarm gateway element (yes or no)
shelf=numeric identification of system in a bay (1-8)
idle=AIS or unequipped signal (ais or unequipped)
cort=central office (co) or remote terminal (rt)

set-oc12:Address:[dgr=SignalDegrade]
[,syncmsg=SynchronizationMessaging][,aisalm=Alarm]
[,dcc=DccMode];
sets parameters of specified OC-12 line or line pair
Address=OC-12 line or line pair
dgr=signal degrade threshold (-9 to -5)
syncmsg=allows timing to be reconfigured in a network
upon a node or fiber failure (Kbyte, Sbyte, or disabled)
aisalm=NSA OC-12 line AIS alarm level (cr, mj, mn, or na)
dcc=configures an OC-12 ring interface to interwork
with either a ring or 1+1 application

set-oc3:Address:[dgr=SignalDegradeThreshold]
[,syncmsg=SynchronizationMessaging][,aisalm=Alarm];(R13)

set-oc3:Address:[dgr=SignalDegradeThreshold]
[,syncmsg=SynchronizationMessaging][,aisalm=Alarm]
[,dcc=DccMode][,app=Application];(R15)
sets parameters of specified OC-3 line or line pair
Address=OC-3 line(s) or line pair(s)
dgr=signal degrade threshold (-9 to -5)
syncmsg=allows timing to be reconfigured in a network
upon a node or fiber failure (Kbyte, Sbyte, or disabled)
aisalm=NSA OC-3 line AIS alarm level (cr, mj, mn, or na)
dcc=configures an OC-3 ring interface to interwork
with either a ring or 1+1 application
app=ring application (0x1 or 1+1)

set-oc1:Address:[dgr=SignalDegradeThreshold]
[,aisalm=Alarm];
sets parameters for OC-1 line
Address=OC-1 line(s)
dgr=signal degrade threshold (-9 to -5)
aisalm=provisioned alarm level of OC-1 line (cr, mj,
mn, or na)

set-passwd;
changes a user's password

set-pmthres-line:[QHB2CVOC12=nnnnn]
[,DayB2CVOC12=nnnnnn]
[,QHB2CVOC3=nnnnn][,DayB2CVOC3=nnnnn]
[,QHB2CVOC1=nnnnn][,DayB2CVOC1=nnnnn]
[,QHB2CVEC1=nnnn][,DayB2CVEC1=nnnnn]
[,QHB2ES=nnn][,DayB2ES=nnnnn][,QHB2ESA=nnn]
[,DayB2ESA=nnnnn][,QHB2ESB=nnn][,DayB2ESB=nnnnn]
[,QHB2SES=nn][,DayB2SES=nnnnn][,QHB2UAS=nn]
[,DayB2UAS=nnnnn][,QHPSCl=nn][,DayPSCl=nn]
[,QHPJC=nnnnn][,DayPJC=nnnnnnn];
sets PM thresholds for OC-1, OC-3, or OC-12 line(s)
QHB2CVOC12=OC-12 qtr. hr. coding violations (0-55365)
DayB2CVOC12=OC-12 daily coding violations (0-5315040)
QHB2CVOC3=OC-3 qtr. hr. coding violations (0-13841)
DayB2CVOC3=OC-3 daily coding violations (0-1328736)
QHB2CVOC1=OC-1 qtr. hr. coding violations (0-4613)
DayB2CVOC1=OC-1 daily coding violations (0-442848)
QHB2CVEC1=EC-1 qtr. hr. coding violations (0-4613)
DayB2CVEC1=EC-1 daily coding violations (0-442848)
QHB2ES=qtr. hr. errored seconds type A (0-900)
DayB2ES=daily errored seconds type A (0-65535)
QHB2ESA=qtr. hr. errored seconds type A (0-900)
DayB2ESA=daily errored seconds type A (0-65535)
QHB2ESB=qtr. hr. errored seconds type B (0-900)
DayB2ESB=daily errored seconds type B (0-65535)
QHB2SES=qtr. hr. severely errored seconds (0-63)
DayB2SES=daily severely errored seconds (0-4095)
QHB2UAS=qtr. hr. unavailable seconds (0-63)
DayB2UAS=daily unavailable seconds (0-4095)
QHPSCl=qtr. hr. line protection switch count (0-63)
DayPSCl=daily line protection switch count (0-255)
QHPJC=qtr. hr. STS pointer justification count (0-65535)
DayPJC=daily STS pointer justification count (0-9999999)

set-pmthres-sect:[TxPwr1dB=*n*],[TxPwr2dB=*n*]
 [,LaserBias=*n*],[Qhsefs=*nn*],[Daysefs=*nnnnn*];
 sets PM thresholds for OC-1, OC-3, and OC-12 sections
 TxPwr1dB=-1 dB threshold for optical transmit power (enabled or disabled)
 TxPwr2dB=-2 dB threshold for optical transmit power (enabled or disabled)
 LaserBias=laser bias threshold (enabled or disabled)
 Qhsefs=qtr. hr. severely errored frame seconds (0-63)
 Daysefs=daily severely errored frame seconds (0-4095)

set-pmthres-sts1:[QHB3CV=*nnnnn*],[DayB3CV=*nnnnnn*]
 [,QHB3ES=*nnn*],[DayB3ES=*nnnnnn*],[QHB3ESA=*nnn*]
 [,DayB3ESA=*nnnnnn*],[QHB3ESB=*nnn*],[DayB3ESB=*nnnnnn*]
 [,QHB3SES=*nn*],[DayB3SES=*nnnnn*],[QHB3UAS=*nn*]
 [,DayB3UAS=*nnnn*];
 sets PM thresholds for STS-1 path
 QHB3CV=qtr. hr. coding violations (0-4510)
 DayB3CV=daily coding violations (0-432960)
 QHB3ES=qtr. hr. errored seconds (0-900)
 DayB3ES=daily errored seconds (0-65535)
 QHB3ESA=qtr. hr. errored seconds type A (0-900)
 DayB3ESA=daily errored seconds type A (0-65535)
 QHB3ESB=qtr. hr. errored seconds type B (0-900)
 DayB3ESB=daily errored seconds type B (0-65535)
 QHB3SES=qtr. hr. severely errored seconds (0-63)
 DayB3SES=daily severely errored seconds (0-4095)
 QHB3UAS=qtr. hr. unavailable seconds (0-63)
 DayB3UAS=daily unavailable seconds (0-4095)

set-pmthres-t1:[QHESL=*nnn*],[DayESL=*nnnnn*]
 [,QHCVPFSF=*nnnnn*],[DayCVPSF=*nnnnnnn*],[QHCVPESF=*nnnnn*]
 [,DayCVPESF=*nnnnnnn*],[QHESP=*nnn*],[DayESP=*nnnnn*]
 [,QHSESP=*nn*],[DaySESP=*nnnnn*],[QHUASP=*nn*]
 [,DayUASP=*nnnn*],[QHCVPFE=*nnnnn*],[DayCVPFE=*nnnnnnn*]
 [,QHESPFE=*nnn*],[DayESPFE=*nnnnn*],[QHSESPFE=*nn*]
 [,DaySESPFE=*nnnnn*],[QHUASPFE=*nn*],[DayUASPFE=*nnnn*];
 sets performance monitoring thresholds of DS1 signal
 QHESL=qtr. hr. errored seconds line count (0-900)
 DayESL=daily errored seconds line count (0-65535)
 QHCVPFSF=qtr. hr. code violations path SF count (0-16383)
 DayCVPSF=daily code violations path SF count (0-1048575)
 QHCVPESF=qtr. hr. code violations path ESF count (0-16383)
 DayCVPESF=daily code violations path ESF count (0-1048575)
 QHESP=qtr. hr. errored seconds path count (0-900)
 DayESP=daily errored seconds path count (0-65535)
 QHSESP=qtr. hr. severely errored seconds path count (0-63)
 DaySESP=daily severely errored seconds path count (0-4095)
 QHUASP=qtr. hr. unavailable seconds path count (0-63)
 DayUASP=daily unavailable seconds path count (0-4095)
 QHCVPFE=qtr. hr. code violations path far-end count (0-16383)
 DayCVPFE=daily code violations path far-end count (0-1048575)
 QHESPFE=qtr. hr. errored seconds path far-end count (0-900)
 DayESPFE=daily errored seconds path far-end count (0-65535)
 QHSESPFE=qtr. hr. severely errored seconds path far-end count (0-63)
 DaySESPFE=daily severely errored seconds path far-end count (0-4095)
 QHUASPFE=qtr. hr. unavailable seconds path far-end count (0-63)
 DayUASPFE=daily unavailable seconds path far-end count (0-4095)

set-pmthres-t3:[QHCVL=*nnnnn*],[DayCVL=*nnnnnnn*]
 [,QHESL=*nnn*],[DayESL=*nnnnn*],[QHESL=*nn*]
 [,DaySESL=*nnnn*],[QHSEFS=*nn*],[DaySEFS=*nnnn*]
 [,QHPCV=*nnnnn*],[DayPCV=*nnnnnnn*],[QHFMCV=*nnnnn*]
 [,DayFMCV=*nnnnnnn*],[QHCP=*nnnnn*],[DayCP=*nnnnnnn*]
 [,QHESP=*nnn*],[DayESP=*nnnnn*],[QHSESP=*nn*]
 [,DaySESP=*nnnn*],[QHUASP=*nn*],[DayUASP=*nnnn*]
 [,QHSEFSFE=*nn*],[DaySEFSFE=*nnnnn*],[QHCPFE=*nnnnn*]
 [,DayCPFE=*nnnnnnn*],[QHESPFE=*nnn*],[DayESPFE=*nnnnn*]
 [,QHSESPFE=*nn*],[DaySESPFE=*nnnn*],[QHUASPFE=*nn*]
 [,DayUASPFE=*nnnn*];
 sets PM thresholds for DS3 signals
 QHCVL=qtr. hr. B3ZS coding violations (0-16383)
 DayCVL=daily B3ZS coding violations (0-1048575)
 QHESL=qtr. hr. errored seconds (0-900)
 DayHESL=daily errored seconds (0-65535)
 QHESL=qtr. hr. severely errored seconds (0-63)
 DaySESL=daily severely errored seconds (0-4095)
 QHSEFS=qtr. hr. severely errored frame seconds (0-63)
 DaySEFS=daily severely errored frame seconds (0-4095)
 QHPCV=qtr. hr. pbit coding violations (0-16383)
 DayPCV=daily pbit coding violations (0-1048575)
 QHFMCV=qtr. hr. fmbit coding violations (0-16383)
 DayFMCV=daily fmbit coding violations (0-1048575)
 QHCP=qtr. hr. cpbit coding violations (0-16383)
 DayCP=daily cpbit coding violations (0-1048575)
 QHESP=qtr. hr. PM errored seconds (0-900)
 DayESP=daily PM errored seconds (0-65535)
 QHSESP=qtr. hr. PM severely errored seconds (0-63)
 DaySESP=daily PM severely errored seconds (0-4095)
 QHUASP=qtr. hr. PM unavailable seconds (0-63)
 DayUASP=daily PM unavailable seconds (0-4095)
 QHSEFSFE=qtr. hr. severely errored frame seconds for the far-end cpbit format (0-63)
 DaySEFSFE=daily severely errored frame seconds for the far-end cpbit format (0-4095)
 QHCPFE=qtr. hr. coding violations for far-end cpbit format (0-16383)
 DayCPFE=daily coding violations for far-end cpbit format (0-1048575)
 QHESPFE=qtr. hr. errored seconds for far-end cpbit format (0-900)
 DaySPFE=daily errored seconds for far-end cpbit format (0-65535)
 QHSESPFE=qtr. hr. severely errored seconds for far-end cpbit format (0-63)
 DaySESPFE=daily severely errored seconds for far-end cpbit format (0-4095)
 QHUASPFE=qtr. hr. unavailable seconds for far-end cpbit format (0-63)
 DayUASPFE=daily unavailable seconds for far-end cpbit format (0-4095)

set-pmthres-vt1:[QHV5ES=*nnnnn*],[DayV5ES=*nnnnnnn*]
 [,QHV5SES=*nnn*],[DayV5SES=*nnnnn*],[QHV5UAS=*nnn*]
 [,DayV5UAS=*nnnnn*];
 sets performance parameter thresholds of VT1.5 signal
 QHV5ES=qtr. hr. errored seconds count (0-900)
 DayV5ES=daily errored seconds count (0-65535)
 QHV5SES=qtr. hr. severely errored seconds count (0-63)
 DayV5SES=daily severely errored seconds count (0-4095)
 QHV5UAS=qtr. hr. unavailable seconds count (0-63)
 DayV5UAS=daily unavailable seconds count (0-4095)

set-secu:Address:[sec=Security][,to=Timeout];(R13)

set-secu:Address:[porttype=PortType]

[,baudrate=Baudrate][,echo=echo][,sec=Security]
[,to=Timeout];(R15)

configures NE system security on CIT and DCC interfaces
Address=CIT and/or DCC ports [dcc-all, cit-{1, 2, all}, x25]
porttype=specifies whether CIT port is used for CIT
or TL1 application or X.25 port is synch or asynch
baudrate=specifies the baudrate in which TL1 messages
are received/transmitted
echo=specifies whether character entered needs to be
echoed back or not
sec=security on specified port (enable, disable, or lockout)
to=timeout of inactive session on CIT (0-120 minutes)

set-state-ec1:Address:ps=PrimaryState;

sets state of low speed EC-1 ports
Address=EC1 port(s) (all, a, b, c)
ps=port state (auto or nmon)

set-state-oc1:Address:ps=PrimaryState;

sets state of OC-1 lines
Address=OC-1 line(s)
ps=line state (nmon or is)

set-state-oc3:Address:ps=PrimaryState;

sets state of OC-3 lines
Address=OC-3 line(s)
ps=line state (nmon or is)

set-state-sts1:Address:ps=PrimaryState;

sets state of STS-1 channels
Address=STS-1 channel(s)
ps=channel state (auto or nmon)

set-state-t1:Address:ps=PrimaryState;

sets state of DS1 ports
Address=DS1 port(s)
ps=port state (auto or nmon)

set-state-t3:Address:ps=PrimaryState;

sets state of DS3 ports
Address=DS3 port(s)
ps=port state (auto or nmon)

set-state-vt1:Address:ps=PrimaryState;

sets state of VT1.5 channels
Address=VT1.5 channel(s)
ps=channel state (auto or nmon)

set-sts1:Address:dgr=SignalDegrade

:sfail=SignalFailure[,nsa=Alarm][,sa=Alarm];

sets signal degrade alarm threshold of STS-1 channels
Address=STS-1 channel(s)
dgr=bit error rate (BER) threshold (-9 to -5)
sfail=BER of STS-1 channel (-3 or -6)
nsa=provisioned alarm level of non-service affecting
STS-1 path AIS (mn or nr)
sa=provisioned alarm level of service affecting STS-1
AIS (cr, mn, na, or nr)

set-sync:[mdsw=ModeSwitching]

[,src=SynchronizationSource][,omd=OutputMode]

[,aisthres=AISThreshold][,auto=SyncAutoreconfiguration];
(Caution^{*})

sets network element synchronization parameters
mdsw=mode of switch (revertive or nonrevertive)
src=synchronization source (main-1, main-2, or fn-c)
omd=output mode (lock1, lock2, or track)
aisthres=sets incoming synchronization message
quality level (level5, level4, level3, or level2)
auto=syncautoreconfiguration (enabled or disabled)

set-t1:Address:[lc=LineCode][,alm=AlarmLevel]

[,fth=FailureThreshold][,dlc=DLCBPVtoLOS]

[,ais=AlarmIndicationSignal][,pmm=PMMode]

[,fmt=Format]; (Caution^{*})

provisions parameters of DS1 ports

Address=DS1 port(s) [all, {a, b, c}-{1-7, all}-{1-4, all}]
lc=line code (ami, b8zs, or noOverride)
alm=level of alarm (mj, mn, or na)
fth=fail threshold (-8, -7, -6, or -3)
dlc=inc. sig. fail translated to LOS (yes or no)
ais=alarm indication signal (yes or no)
pmm=performance monitoring mode of ports (off or on)
fmt=format to be monitored (sf, esf, or esfn)

set-t3:Address:[md=Mode][,ais=AlarmIndicationSignal]

[,alm=AlarmLevel][,aisalm=AISAlarmLevel]

[,fth=FailureThreshold][,pmm=PMMode]

[,frame=Frame][,fmt=Format][,xbit=Xbit]; (Caution^{*})

sets the characteristic parameters of DS3 port(s)

Address=DS3 port(s) (a, b, c, all)
md=violation monitor removal mode (vmr, vm, or cc)
ais=alarm indication signal (yes or no)
alm=alarm level (cr, mj, mn, or na)
aisalm=alarm level for incoming DS3 AIS (cr, mj,
mn, or na)
fth=failure threshold (-6 or -3)
pmm=performance-monitoring mode (on or off)
frame=performance-monitoring frame (m13 or cbit)
fmt=format (pbit, fmbit, or cpbit)
xbit= value of both X-bits in outgoing DS3 signal
(towards DSX) (1 or 0)

set-trace-sts1:Address:[EXPTRC=ExpectedIncomingPathTrace]

[,TRC=OutgoingPathTrace];

sets the transmit and receive path trace fields

Address=STS-1 channel(s)
EXPTRC=expected incoming path trace message
(up to 62 alphanumeric characters)
TRC=outgoing path trace message (up to 62 alphanumeric
characters)

set-vt1:Address:dgr=SignalDegrade[,nsa=Alarm]

[,sa=Alarm];

sets signal degrade alarm threshold of VT1.5 channels
Address=VT1.5 channels
dgr=BER threshold of VT1.5 signals (-6)
nsa=provisioned alarm level of non-service affecting
VT path AIS (mn or nr)
sa=provisioned alarm level of service affecting
VT path AIS (cr, mn, na, or nr)

set-x25:PKT=pkt;

sets the packet size of X.25 link
pkt=packet size (128 or 256)

TEST

test-alm:[md=Mode][,r=Repeat];

tests office audible and visible alarms
md=office alarm to test (all, cr, mj, or mn)
r=number of times (1-10) to repeat test

test-led:[Address]:[r=Repeat];

tests shelf LEDs
Address=slot or user panel
r=number of times (1-10) to repeat test

test-sysctl;

tests the entire control system

test-trmsn-t1:Address[:dirn=Direction][,dur=Duration];**(Caution*)**

test DS1 transmission

Address=DS1 port {a, b, c}-{1-7}-{1-4}

dirn=direction of test (mux or demux)

dur=length of test in min. (1-120)

test-trmsn-t3:Address[:dirn=Direction][,dur=Duration];**(Caution*)**

tests DS3 transmission

Address=DS3 port

dirn=direction of test (mux or demux)

dur=length of test in minutes (1-120)

SPECIAL CHARACTERS

At-sign (@) - erases an input line.

Backspace [^H **Ctrl** h (Ctrl h)] or underbar (_) - erases a character.

Question mark (?) - help

Semicolon (;) - ends a command.

Carriage return **RETURN** or **ENTER** - ends line of input

CANcel or DELeTe - aborts a command

* **Caution! Execution of this command may affect service.**