



## DDM-2000 OC-12 Multiplexer System Commands

### HELP

? (help)  
provides help within a craft dialog on the CIT

### 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

### CROSS-CONNECT

**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 port  
cct=cross-connection type (twoway 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 (twoway, dc, cov, or rtv)

**ent-crs-sts1:Address1,Address2:[cct=CrsType]**  
[,ring=RingId]; (**Caution**)  
enters bidirectional STS-1 cross-connections  
Address1, Address2=Addresses of two STS-1 channels,  
or one STS-1 channel and one DS3/EC-1/OC-3 port  
cct=cross-connection type (twoway or dc)  
ring=ring ID for dc cross-connections (mb1 or mb2)

**ent-crs-sts3c:Address1,Address2:[cct=CrsType]**  
[,ring=RingId]; (**Caution**)  
enters bidirectional or unidirectional STS-3c cross-connections  
Address1, Address2=Addresses of two STS-3c channels  
cct=cross-connection type (twoway, dc, cov, or rtv)  
ring=ring ID for dc cross-connections (mb1 or mb2)

### LOOPBACK

**opr-lpbk-ec1:Address:[lpbktype=LoopbackType];** (**Caution**)  
executes loopback on STS1E interface towards fiber or DSX  
Address=EC1 port(s) (a, b, c, d)-(1-3, all)  
lpbktype=loopback type (terminal or facility)

**rls-lpbk-ec1:Address:[lpbktype=LoopbackType];**  
releases loopback on STS1E interface  
Address=EC1 port(s) [all, (a, b, c, d)-(1-3, 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) (a, b, c, d)-(1-3, all)  
lpbktype=loopback type (terminal or facility)

**rls-lpbk-t3:Address:[lpbktype=LoopbackType];**  
releases loopback on DS3 port  
Address=DS3 port(s) [all, (a, b, c, d)-(1-3, all)]  
lpbktype=loopback type (terminal or facility)

### MISCELLANEOUS

**apply:[date=date][,time=time][,action=action];**  
initiates the installation of a dormant copy of a software  
generic stored in the network elements flash memory  
date=date (YYMMDD)  
time=time (HHMMSS)  
action=enables the execution of command to be  
confirmed or canceled (install, cancel, or NULL)

**cpy-prog:TID;**  
copies system controller program from local NE to  
remote NE  
TID=target identifier of system into which the program  
will be loaded

**dlt-osacmap:vc=VCType,snpa=SNPA;**  
deletes DTE calling addresses of 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;**  
creates entries in X.25 subnetwork application context map  
vc=virtual circuit type X.25 attachment for OS  
(PVC or SVC)  
snpa=subnetwork point of attachment address for OS  
acid=application context ID assigned to a SNPA

**ent-tl1msgmap:acid=ACID,msgtype=MessageType,**  
**action=Action;**  
maps TL1 message types to 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 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-I3:**[L3org=OrganizationID][L3res=Reserved]  
[L3rd=RoutingDomain][L3area=Routing Area]  
[L3lv2is=Level2Router];

enters parameters of layers 3 of the OSI 7-layer protocol stack

L3org=company code field (6-digit hex)  
L3res=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-I4:**[L4tlif=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][L4tdcrd=L4tdcRoutingDomain]  
[L4tdcarea=L4tdcRoutingArea];

enters parameters of layers 4 of the OSI protocol stack

L4tlif=TARP lifetime parameter (1-65535)  
L4ajsys=NSAP system identifier field (12-digit hex)  
L4ajorg=NSAP organization id field (4-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)  
L4tdcrd=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<sup>\*</sup>)**

initializes provisionable parameters to default values  
Address=all slots or SYSCTL (all or sysctl)

**ins-prog:TID;**

install new program into SYSCTL  
TID=target identifier (shelf name) (up to 20 alphanumeric characters)

**logout;**

ends user CIT session

**opr-aco;**

silences audible office alarms

**reset;**

resets system software program

**rgn:TID;**

establishes a remote login session via DCC  
TID=shelf name (up to 20 alphanumeric characters)

**rstr-passwd:login, passwd, user\_type, clr;**

restores login, password, and user type information  
login=login name  
passwd=current 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<sup>\*</sup>)**

updates system database

## RETRIEVE

**rtrv-alm:[alm=AlarmLevel];**

displays report of active alarm and status conditions  
alm=alarm level reported (all, cr, mj, mn, pmn, or other)

**rtrv-attr-alm;**

displays current alarm parameters (almdel, clrdel, pmn)

**rtrv-attr-cont:[Address];**

displays provisioned name of miscellaneous discrete environmental control point  
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-ec1:[Address];**

displays information about each EC1 port  
Address=one or more EC1 port(s)  
[all, (a, b, c, d)-(1-3, 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  
Address=one or more DCC channel(s) or IAO LAN interface

**rtrv-hsty;**

displays event history report

**rtrv-ign;**

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 local NE

**rtrv-map-network:[Level2=*level2*];**  
 displays all NEs in same Level 1 area reachable through 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** and set by switches on SYSCTL

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

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

**rtrv-osacmap;**  
 displays OS Application Context Map information

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

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

**rtrv-pm-sect:Address;**  
 displays PM data for OC-3 and OC-12 optics, and STS-3 and STS-12 section  
 Address=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-t3:Address;**  
 displays PM data for DS3 signals  
 Address=DS3 port [all, (a, b, c, d)-(1-3, all)]

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

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

**rtrv-pmthres-sect;**  
 displays current OC-3 and OC-12 section PM thresholds

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

**rtrv-pmthres-t3;**  
 displays current DS3 PM thresholds

**rtrv-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

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

**rtrv-state-path:[Address];**  
 displays signal path state information for path protected signals dropped at NE  
 Address=any drop or drop and continue STS-1 or STS-3c path

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

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

**rtrv-state-sts3c:[Address];**  
 displays STS-3c channel states  
 Address=STS-3c channel (mb)-(1, 4, 7, 10, all)

**rtrv-sts1:[Address];**  
 displays provisioned parameters of STS-1 channels  
 Address=STS-1 channels (mb)-(1-12, all)

**rtrv-sts3c:[Address];**  
 displays provisioned threshold of dropped STS-3c channels  
 Address=STS-3c channel (mb)-(1, 4, 7, 10, all)

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

**rtrv-t3:[Address];**  
 displays provisioning information for DS3 ports  
 Address=DS3 port(s) [(a, b, c, d)-(1-3, all), all]

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

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

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

**rtrv-ulsdcc-l4:tdc\_rpt=tdc\_rpt];**  
 displays parameters in Layer 4 of OSI stack  
 tdc\_rpt=TARP data cache reporting (yes or no)

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

## SWITCH

**switch-fn:Address:pri=Priority; (Caution<sup>\*</sup>)**  
 controls function unit circuit pack protection switching  
 Address=function unit [fn-(a, b, c, d)]  
 pri=switch request priority (reset, inhibit, forced, or manual)

**switch-line:Address:pri=Priority; (Caution<sup>\*</sup>)**  
 controls OC-3 line protection switching  
 Address=OC-3 lines [fn-(a, b, c, d)]  
 pri=switch request priority (reset, inhibit, 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-sts3c:Address:pri=Priority;**  
 controls STS-3c path switching on path protected ring  
 Address=STS-3c path carrying traffic  
 pri=switch request priority (manual)

**switch-sync:s=SyncFunction:pri=Priority; (Caution<sup>\*</sup>)**  
 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), env-(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 ports  
Address=EC-1 ports (all, a-all, b-all, c-all, d-all)  
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)  
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-ign:** *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]*;  
sets network element characteristics  
tid=shelf name (up to 20 alphanumeric characters)  
shelf=numeric identification of system in a bay (1-8)  
cort=central office (co) or remote terminal (rt)  
idle=AIS or unequipped signal (ais or unequipped)
- set-oc12:** *Address[:dgr=SignalDegrad]* *[,syncmsg=SynchronizationMessaging][,aisalm=Alarm]*;  
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)
- set-oc3:** *Address[:dgr=SignalDegradThreshold]* *[,syncmsg=SynchronizationMessaging][,app=Application][,aisalm=Alarm]*;  
sets parameters of specified OC-3 line or line pair  
Address=OC-3 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)  
app=OC-12 ring FUNCTION UNITS application (0x1, 1+1, or video)  
aisalm=NSA OC-3 line AIS alarm level (cr, mj, mn, or na)
- set-passwd;**  
changes a user's password
- set-pmthres-line:** *[QHB2CVOC12=nnnnn][,DayB2CVOC12=nnnnnn][,QHB2CVOC3=nnnnn][,DayB2CVOC3=nnnnnnn][,QHB2CVEC1=nnnn][,DayB2CVEC1=nnnnn][,QHB2ES=nnn][,DayB2ES=nnnnn][,QHB2ESA=nnn][,DayB2ESA=nnnnn][,QHB2ESB=nnn][,DayB2ESB=nnnnn][,QHB2SES=nn][,DayB2SES=nnnn][,QHB2UAS=nn][,DayB2UAS=nnnn][,QHPSC1=nn][,DayPSC1=nn]*;  
sets PM thresholds for OC-3 or OC-12 line(s)  
QHB2CVOC12=OC-12 qtr. hr. coding violations (0-55365)  
DayB2CVOC12=OC-12 day coding violations (0-5315040)  
QHB2CVOC3=OC-3 qtr. hr. coding violations (0-13841)  
DayB2CVOC3=OC-3 day coding violations (0-1328736)  
QHB2CVEC1=EC-1 qtr. hr. coding violations (0-4613)  
DayB2CVEC1=EC-1 day coding violations (0-442848)  
QHB2ES=qtr. hr. errored seconds (0-900)  
DayB2ES=day errored seconds (0-65535)  
QHB2ESA=qtr. hr. errored seconds type A (0-900)  
DayB2ESA=day errored seconds type A (0-65535)  
QHB2ESB=qtr. hr. errored seconds type B (0-900)  
DayB2ESB=day errored seconds type B (0-65535)  
QHB2SES=qtr. hr. severely errored seconds (0-63)  
DayB2SES=day severely errored seconds (0-4095)  
QHB2UAS=qtr. hr. unavailable seconds (0-63)  
DayB2UAS=day unavailable seconds (0-4095)  
QHPSC1=qtr. hr. line protection switch count (0-63)  
DayPSC1=day line protection switch count (0-255)
- set-pmthres-sect:** *[TxPwr1dB=n][,TxPwr2dB=n][,LaserBias=n][,Qhsefs=nn][,Daysefs=nnnn]*;  
sets PM thresholds for OC-3 and OC-12 sections  
TxPwr1dB=-1 dB threshold for optical transmit power (enabled, disabled)  
TxPwr2dB=-2 dB threshold for optical transmit power (enabled, disabled)  
LaserBias=laser bias threshold (enabled, disabled)  
Qhsefs=qtr. hr. severely errored frame seconds (0-63)  
Daysefs=day severely errored frame seconds (0-4095)
- set-pmthres-sts1:** *[QHB3CV=nnnn][,DayB3CV=nnnnnn][,QHB3ES=nnn][,DayB3ES=nnnnn][,QHB3ESA=nnn][,DayB3ESA=nnnnn][,QHB3ESB=nnn][,DayB3ESB=nnnnn][,QHB3SES=nn][,DayB3SES=nnnn][,QHB3UAS=nn][,DayB3UAS=nnnn]*;  
sets PM thresholds for STS-1 path  
QHB3CV=qtr. hr. coding violations (0-4510)  
DayB3CV=day coding violations (0-432960)  
QHB3ES=qtr. hr. errored seconds (0-900)  
DayB3ES=day errored seconds (0-65535)  
QHB3ESA=qtr. hr. errored seconds type A (0-900)  
DayB3ESA=day errored seconds type A (0-65535)  
QHB3ESB=qtr. hr. errored seconds type B (0-900)  
DayB3ESB=day errored seconds type B (0-65535)  
QHB3SES=qtr. hr. severely errored seconds (0-63)  
DayB3SES=day severely errored seconds (0-4095)  
QHB3UAS=qtr. hr. unavailable seconds (0-63)  
DayB3UAS=day unavailable seconds (0-4095)

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

**set-secu:***Address*[:**sec**=*Security*][**to**=*Timeout*];  
 configures NE system security on CIT and DCC interfaces  
*Address*=CIT and/or DCC ports [dcc-all, cit-(1, 2, all)]  
 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 EC-1 ports  
*Address*=EC1 port(s) [all, (a, b, c, d)-(1-3, all)]  
 ps=primary port state (auto or nmon)

**set-state-oc3:***Address*[:**ps**=*PrimaryState*];  
 sets state of one or more OC-3 lines  
*Address*=OC-3 line(s) [fn-all, fn-(a, b, c, d)-(1-2, all)]  
 ps=primary line state (nmon or is)

**set-state-sts1:***Address*[:**ps**=*PrimaryState*];  
 sets state of STS-1 channels  
*Address*=STS-1 channel(s)  
 ps=primary channel state (auto or nmon)

**set-state-sts3c:***Address*[:**ps**=*PrimaryState*];  
 sets state of STS-3c channels  
*Address*=STS-3c channel(s) (mb)-(1, 4, 7, 10, all)  
 ps=primary channel state (auto or nmon)

**set-state-t3:***Address*[:**ps**=*PrimaryState*];  
 sets state of DS3 ports  
*Address*=DS3 port(s) [(a, b, c, d)-(1-3, all), all]  
 ps=port state (auto or nmon)

**set-sts1:***Address*[:**dgr**=*SignalDegrade*][**nsa**=*Alarm*]  
 [, **sa**=*Alarm*];  
 sets signal degrade alarm threshold of STS-1 channels  
*Address*=STS-1 channel(s) [all, mb-(1-12, all)]  
 dgr=bit error rate (BER) threshold (-9 to -5)  
 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-sts3c:***Address*[:**dgr**=*SignalDegrade*][**nas**=*Alarm*]  
 [, **sa**=*Alarm*];  
 provisions signal degrade alarm threshold of dropped  
 non-terminated STS-3c channels  
*Address*=STS-3c channel(s) [all, (mb)-(1, 4, 7, 10, all)]  
 dgr=bit error rate (BER) threshold (-9 to -5)  
 nsa=provisioned alarm level of non-service affecting  
 STS-3c path AIS (mn or nr)  
 sa=provisioned alarm level of service affecting STS-3c  
 path AIS (cr or na)

**set-sync:**[**mdsw**=*ModeSwitching*]  
 [, **src**=*SynchronizationSource*][**aisthres**=*AISThreshold*]  
 [, **auto**=*SyncAutoreconfiguration*]; (**Caution**)\*  
 sets network element synchronization parameters  
 mdsw=mode of switch (revertive or nonrevertive)  
 src=synchronization source (main-b-1 or main-b-2)  
 aisthres=sets incoming synchronization message  
 quality level (level5, level4, level3, or level2)  
 auto=syncautoreconfiguration (enabled or disabled)

**set-t3:***Address*[:**md**=*Mode*][**ais**=*AlarmIndicationSignal*]  
 [, **alm**=*AlarmLevel*][**fth**=*FailureThreshold*]  
 [, **pmmd**=*PMMMode*][**frame**=*Frame*][**fnt**=*Format*]; (**Caution**)\*  
 sets the characteristic parameters of DS3 port(s)  
*Address*=DS3 port(s) [(a, b, c, d)-(1-3, all), 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)  
 fth=failure threshold (-6 or -3)  
 pmmd=performance-monitoring mode (on or off)  
 frame=performance-monitoring frame (m13 or cbit)  
 fnt=format (pbit, fmbit, or cpbit)

**set-trace-sts1:** *Address*: [**EXPTRC**=*Expected incoming path trace*]  
[, **TRC**=*Outgoing Path Trace*];  
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-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-t3**: *Address*[: **dirn**=*Direction*], [**dur**=*Duration*]; (**Caution**\*)  
tests DS3 transmission  
Address=DS3 port (a, b, c, d)-(1-3)  
dirn=direction of test (mux or demux)  
dur=length of test in minutes (1-120)

## SPECIAL CHARACTERS

At-sign (@) - erases an input line.  
Backspace [<sup>H</sup> **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.**