Lucent Technologies
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Quick Reference Guide
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DDM-2000 OC-3 Multiplexer System Commands

HELP

? (help)
obtain command/parameter list

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

cnvt-crs:*Address1,Address2*;(**Caution***)
converts 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 & 2=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=two-way or drop and continue cross-connections

dlt-crs-sts3c:*Address1,Address2*:[**cct=***CrsType*];(**Caution***)
deletes STS-3c cross-connections
Address1 & 2=addresses of two STS-3c channels
cct=two-way cross-connection

dlt-crs-vt1:*Address1,Address2*:[**cct=***CrsType*];(**Caution***)
deletes VT1.5 (DS1) cross-connections
Address1 and 2=addresses of two VT1.5 channels or one VT1.5 channel and one DS1 port
cct=twoway, drop and continue, or locked cross-connections

ent-crs-sts1:*Address1,Address2*:[**cct=***CrsType*][,**ring=***RingID*];
sets bidirectional STS-1 cross-connections
Address1 and 2=addresses of two STS-1 channels or one STS-1 channel and one DS3/EC-1/OC-3/OC-1/MXRVO/TMUX port
cct=two-way, drop and continue, or locked cross-connections
ring=ring identification for drop and continue or locked cross-connections

ent-crs-vt1:*Address1,Address2*:[**cct=***CrsType*][,**ring=***RingID*];
sets bidirectional VT1.5 (DS1) cross-connections
Address1 and 2=addresses of two VT1.5 channels or one VT1.5 channel and one DS1 port
cct=two-way, drop and continue, or locked cross-connections
ring=ring identification for drop and continue and locked cross-connections

LOOPBACK

opr-lpbk-ec1:*Address*:[**lpbktype=***LoopbackType*];(**Caution***)
loops back STS1E towards fiber or DSX
Address=EC1 port(s) (a,b,c,all)
lpbktype=terminal or facility loopback

opr-lpbk-t1:*Address*:[**lpbktype=***LoopbackType*];(**Caution***)
loops back DS1 port toward fiber or DSX
Address=DS1 port(s)
lpbktype=terminal or facility loopback

opr-lpbk-t3:*Address*:[**lpbktype=***LoopbackType*];(**Caution***)
loops back DS3 port toward fiber or DSX
Address=DS3 port(s)
lpbktype=terminal or facility loopback

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

rls-lpbk-t1:*Address*;(R11.0 & Earlier)
rls-lpbk-t1:*Address*:[**lpbktype=***LoopbackType*];(R11.1 & Later)
releases loopback on DS1 port
Address=DS1 port(s)
lpbktype=terminal or facility loopback

rls-lpbk-t3:*Address*;(R11.0 & Earlier)
rls-lpbk-t3:*Address*:[**lpbktype=***LoopbackType*];(R11.1 & Later)
releases loopback on DS3 port
Address=DS3 port(s)
lpbktype=terminal or facility loopback

MISCELLANEOUS

apply:(R9.1 Only)
apply:[time=*time*][,**date=***date*][,**action=***action*];(R11.0 & Later)
initiate installation of dormant copy of software generic stored in NE's flash memory
time=time software is to be installed (HHMMSS)
date=date software is to be installed (YYMMDD)
action=enables execution of command (install,cancel,null)

cpy-prog:*TID*;
copies local NE system controller program to remote NE system controller(R9.0 & Earlier) or software to copied may be a non-executing, dormant copy(R9.1 & Later)
tid=target identifier of NE program is to be copied into

dlt-tadrmap:tid=*TID*;
deletes an NE entry from the DSNE map
tid=target identifier of NE to be deleted

dlt-osacmap:vc=*VCType*,**snpa=***SNPA*;
deletes DTE calling addresses of OSs that are assigned to the SVC or PVC in the X.25 subnetwork application context map
vc=virtual circuit type X.25 attachment for OS (PVC or SVC)
snpa=X.25 subnetwork point of attachment for OS

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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=X.25 subnetwork point of attachment for OS
acid=snpa ID (up to 23 alphanumeric characters)
ent-tl1msgmap:acid=*ACID*,**msgtype=***MessageType*,
action=*Action*;
maps TL1 message types to OS for NE
ACID=OS function (up to 23 alphanumeric characters)
msgtype=supported class of TL1 messages
action= enabled or disabled
ent-ulsdcc:[**L3org=***OrganizationID*][,**L3res=***Reserved*]
[,**L3rou=***RoutingData*];
enter upper layer section (3 thru 7) of OSI stack
L3org=company code (6-digit)
L3res=currently not used
L3rou=covers routing domain and area fields (8-digit)
init-pm:reg=*Register*;
initializes current day & qh pm registers
reg=register being initialized (day,qh,all)
init-sys:*Address*;(**Caution***)
initializes provisionable parameters to default values
Address=SYSCTL or all slots (sysctl or all)
ins-prog:*TID*;
installs new program into the SYSCTL(R9.0 & Earlier)
or installs non-executing dormant copy into the SYSCTL
(R9.1 & Later)
TID=shelf name
logout;
ends CIT session
opr-aco;
silence audible office alarms
reset;
resets shelf software program
rlgn:*TID*;
sets up remote login session via SONET DCC
TID=target identifier of the desired remote shelf
rstr-passwd:*login,passwd,user_type,clr*;
restores the login, password, and user type information
login=login name
passwd=current encrypted and encoded password
user_type=privileged, general, maintenance, or reports-only
clr=indicates whether existing login data 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 alarms and status of NE
alm=alarm level being reported (all,cr,mj,mn,pmn,other)
rtrv-attr-alm;
displays current alarm attributes (Alarm Delay,
Clear Delay, PMN)
rtrv-attr-cont:[*Address*];
displays name of current misc. discrete environmental
control points
Address=environmental control pt. (cont-{1-4,all})
rtrv-attr-env:[*Address*];
displays current misc. discrete environmental
alarm/status pts.
Address=env. input pt. (env-{1-21},env-{all})
rtrv-crs-sts1:[*Address*];
retrieves STS-1 cross-connections
Address=one or more STS-1 channels
rtrv-crs-vt1:[*Address*];
retrieves VT1.5 (DS1) cross-connections
Address=VT1.5 channels or DS1 ports
rtrv-ec1:[*Address*];
retrieves information about each EC1 port
Address=one or more EC1 ports (a,b,c,all)
rtrv-eqpt:[*Address*];
displays circuit pack type and version information
Address=one or more slot(s)
rtrv-feat:
report displays enabled feature options
rtrv-fecom:[*Address*];
displays provisioned state of NE's DCC channel(s)
Address=address of the DCC
rtrv-hsty;
displays history report of most recent events
rtrv-lgn;
report displays login authorization information
rtrv-link;
displays CIT Link, PageLength, and Baud rate
rtrv-ne;
displays NE provisioning information
rtrv-map-neighbor;
displays NEs that can be accessed by the
local NE and its immediate DCC neighbors
rtrv-map-network;
displays all NEs, their product type, and if
they are DSNE
rtrv-oc1:[*Address*];
displays configuration of OC-1 line(s)
Address=OC-1 line(s)
rtrv-oc3:[*Address*];
displays configuration of OC-3 line(s)
Address=OC-3 line(s)
rtrv-oc12:[*Address*];
displays configuration of OC-12 line(s)
Address=OC-12 line(s)
rtrv-osacmap;
displays OS application context map
rtrv-ow;
displays orderwire routing and mode for NE
rtrv-passwd;
displays logins, passwords (encrypted), and user type
rtrv-pm-line:[*Address*];
displays PM OC-1, OC-3, OC-12, or EC-1 lines
terminated on system
Address=OC-1, OC-3, OC-12, or EC-1 line(s)
rtrv-pm-sect:[*Address*];
displays PM OC-3 and OC-12 optics, STS-1(within
OC-1 line only), STS-3, STS-12 section
Address=OC-1, OC-3, or OC-12 line(s)
rtrv-pm-sts1:[*Address*];
displays PM STS-1 status report
Address=STS-1 channels

rtrv-pm-t1:[*Address*];
displays PM DS1 status report
Address=DS1 port(s)
rtrv-pm-t3:[*Address*];
displays PM DS3 status report
Address=DS3 port(s)
rtrv-pm-tca;
displays PM threshold crossing alert (TCA) report
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 threshold report
rtrv-pmthres-sect;
displays section PM threshold report
rtrv-pmthres-sts1;
displays STS-1 path PM threshold report
rtrv-pmthres-t1;
displays DS1 path and line PM threshold report
rtrv-pmthres-t3;
displays DS3 PM threshold report
rtrv-pmthres-vt1;
displays VT1.5 PM threshold report
rtrv-secu;
displays CIT and DCC port security and timeout information report
rtrv-state-eqpt:[*Address*];
displays slot, port, and protection switching state information for NE
Address=one or more slot(s)
rtrv-state-path:[*Address*];
displays signal path state information for paths dropped at NE
Address=any connected VT1.5 or STS-1 path
rtrv-state-oc1:[*Address*];
displays OC-1 line states
Address=any OC-1 line
rtrv-state-sts1:[*Address*];
displays STS-1 channel states
Address=any STS-1 channel
rtrv-state-vt1:[*Address*];
displays VT1.5 channel states
Address=any VT1.5 channel
rtrv-sts1:[*Address*];
displays provisioned parameters for STS-1 channels
Address=any STS-1 channel
rtrv-sync;
displays sync report, provisioning and operational information
rtrv-trace-sts1:*Address*;
displays the provisioned transmit and receive path traces for the STS cross-connected STS-1 channel
Address=STS-1 channel for which path trace is assigned
rtrv-tl1msgmap;
displays the OS ACID to TL1 autonomous message types
rtrv-t1:[*Address*];
displays DS1 port provisioning report
Address=DS1 port(s)
rtrv-t3:[*Address*];
displays DS3 port provisioning report
Address=DS3 port(s)
rtrv-ulsdcc;
displays upper layer section DCC report for NSAP address
rtrv-vt1:[*Address*];
displays provisioned values for terminated or dropped VT1.5 channels
Address=VT1.5 channels
rtrv-x25;
displays X.25 link packet size, status, and event history

SWITCH

switch-fn:*Address*:**pri=***Priority*;(**Caution***)
controls function unit circuit pack protection switching
Address=function unit slot pair (fn-{a,b,c})
pri=priority of protection switch request (reset,inhibit,forced,manual)
switch-line:*Address*:**pri=***Priority*;(**Caution***)
controls OC-3 line protection switching
Address=OC-3 line pair
pri=priority of protection switch request (reset,inhibit,lockout,forced,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,manual)
switch-path-sts1:*Address*:**pri=***Priority*;
controls STS-1 path switching on path protected ring configurations
Address=STS-1 path carrying traffic
pri=priority of protection switch request (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,src)
pri=priority of protection switch request (reset,inhibit,manual)

SET

set-attr-alm:[**almdel=***AlarmDelay*][,**clrdel=***ClearDelay*] [,**pmn=***PowerMinor*];
sets alarm holdoff and clear delays
almdel=alarm delay in sec. (0-30)
clrdel=alarm clear delay in sec. (0-30)
pmn=power minor alarm level (MN or MJ)
set-attr-cont:*Address*:**desc=***Description*;
provision name of environmental control points
Address=control point (cont-{1-4})
desc=name (up to 26 alphanumeric characters)
set-attr-env: Address:[**alm=***Alarm*][,**almtype=***AlarmType*] [,**desc=***Description*];
provision alarm level of environmental input points
Address=environmental point (env-{1-21},env-{all})
alm=level of alarm (cr,mj,mn,na)
almtype=alarm type (up to 10 alphanumeric characters)
desc=name (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=***SignalDegradeThreshold*];
sets alarm and signal degrade threshold levels of EC-1 port
Address=one or more EC-1 port (a,b,c,all)
alm=alarm level of incoming EC-1 signal failure (cr,mj,mn,na)
dgr=signal degrade threshold level (BER of -9 to -5)

set-feat:feat=*Feature*,**act=***Action*;
configure NE for feature options licensed for use
feat=feature options licensed for use (sts3c,vtpm,ds1pm)
act=enabled or disabled feature

set-fecom:*Address*:[**com=***Communication*]
[,**nsus=***NS/US*];
enables or disables DCC channel
Address=address of the DCC
com=communication over DCC (enabled or disabled)
nsus=NetworkSide/UserSide DCC identity (ns or us)

set-ign:[**act=***Action*];
enters, edits, and deletes logins and passwords
act=enter, edit, or delete

set-link:pg=*PageLength*;
sets vertical page size
pg=page size in lines (3-150)

set-ne:tid=*TID*:[**dsne=***DSNE*][,**almgrp=***AlarmGroup*]
[,**agne=***AGNE*][,**site=***Site*][,**ne=***NE*][,**shelf=***Shelf*]
[,**crs=***CrsMode*][,**cort=***CO/RT*][,**tbaddr=***TBOSAddress*]
[,**tblink=***TBOSLink*][,**tbrem=***TBOSRemote*]
[,**idle=***IdleChannelSignal*];(R8.0/8.1 Only)

set-ne:tid=*TID*:[**dsne=***DSNE*][,**almgrp=***AlarmGroup*]
[,**agne=***AGNE*][,**site=***Site*][,**ne=***NE*][,**shelf=***Shelf*]
[,**cort=***CO/RT*][,**tbaddr=***TBOSAddress*][,**tblink=***TBOSLink*]
[,**tbrem=***TBOSRemote*][,**idle=***IdleChannelSignal*];(R9.0 & Later)
sets network element parameters of DDM-2000
tid=shelf name (up to 20 alphanumeric characters)
dsne=directory services network element (yes or no)
almgrp=alarm group (1-255)
agne=alarm gateway network element (yes or no)
site=numeric identification of NEs at same site (1-64)
ne=numeric identification of system at a site (1-5)
shelf=numeric identification of system in a bay at a site (1-8)
crs=cross-connect mode (default or manual)
cort=parameter for central office or remote terminal
tbaddr=TBOS display address of NE (1-8)
tblink=TBOS link function (normal,primary,secondary,noTBOS)
tbrem=TBOS remote reporting status (enabled or disabled)
idle=whether AIS or unequipped signal is inserted in VT1.5 or STS-1 channels that are not cross connected

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,na)

set-oc3:*Address*:[**dgr=***SignalDegradeThreshold*][,**kbyte=***Kbyte*]
[,**aisalm=***Alarm*][,**radio=***Radio*]
[,**concat=***ConcatenationMode*];(R8.0 Only)

set-oc3:*Address*:[**dgr=***SignalDegradeThreshold*]
[,**syncmsg=***SynchronizationMessaging*][,**aisalm=***Alarm*]
[,**radio=***Radio*][,**concat=***ConcatenationMode*];(R8.1 Only)

set-oc3:*Address*:[**dgr=***SignalDegradeThreshold*][,**kbyte=***Kbyte*]
[,**aisalm=***Alarm*];(R9.0 Only)

set-oc3:*Address*:[**dgr=***SignalDegradeThreshold*]
[,**syncmsg=***SynchronizationMessaging*][,**aisalm=***Alarm*];
(R9.1 & Later)
sets several parameters of specified OC3 line or line pair
Address=OC-3 line(s) or line pair(s)
dgr=signal degrade threshold (-9 to -5)
kbyte=K byte overhead for sync messages (enabled or disabled)
syncmsg=allows timing to be reconfigured in a network upon a node or fiber failure (Kbyte,Sbyte,disabled)
aisalm=provisioned alarm level of OC-3 line AIS (cr,mj,mn,na)
radio=indicates whether a Radio Frequency Unit is connected to the SONET subsystem (yes or no)
concat=concatenation mode of OC-3 line (enabled or disabled)

set-oc12:*Address*:[**dgr=***SignalDegradeThreshold*]
[,**syncmsg=***SynchronizationMessaging*][,**aisalm=***Alarm*];
sets several 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,disabled)
aisalm=provisioned alarm level of OC-12 line AIS (cr,mj,mn,na)

set-ow:[**owrt=***OrderWireRouting*];
sets order wire routing for NE
owrt=order wiring routing parameter for NE

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=***nnnn*][,**QHB2UAS=***nn*]
[,**DayB2UAS=***nnnn*][,**QHPSCL=***nn*][,**DayPSCL=***nn*]
[,**QHJC=***nnnnn*][,**DayPJC=***nnnnnnn*];
sets performance parameter thresholds of OC-12, OC-3, or OC-1 line
QHB2CVOC12=OC-12 coding violations count (qtr. hr.)
DayB2CVOC12=OC-12 coding violations count (daily)
QHB2CVOC3=OC-3 coding violations count (qtr. hr.)
DayB2CVOC3=OC-3 coding violations count (daily)
QHBb2CVOC1=OC-1 coding violations count (qtr. hr.)
DayB2CVOC1=OC-1 coding violations count (daily)
QHB2CVEC1=EC-1 coding violations count (qtr. hr.)
DayB2CVEC1=EC-1 coding violations count (daily)
QHB2ES=errored seconds (ES) count (qtr. hr.)
DayB2ES=errored seconds (ES) count (daily)
QHB2ESA=errored seconds (ES) type A count (qtr. hr.)
DayB2ESA=errored seconds (ES) type A count (daily)
QHB2ESB=errored seconds (ES) type B count (qtr. hr.)
DayB2ESB=errored seconds (ES) type B count (daily)
QHB2SES=severely errored seconds (SES) count (qtr. hr.)
DayB2SES=severely errored seconds (SES) count (daily)
QHB2UAS=unavailable seconds (UAS) count (qtr. hr.)
DayB2UAS=unavailable seconds (UAS) count (daily)
QHPSCL=line protection switch counts (qtr. hr.)
DayPSCL=line protection switch counts (daily)
QHPJC=pointer justification counts (qtr. hr.)
DayPJC=pointer justification counts (daily)

set-pmthres-sect:[TxPwr1db=*n***][,TxPwr2dB=***n***]**
[,LaserBias=*n***][,Qhsefs=***nn***][,Daysefs=***nnnn***];**
sets performance parameter thresholds of OC-12, OC-3, and OC-1 sections
TxPwr1dB=transmit pwr. 1dB (enabled or disabled)
TxPwr2dB=transmit pwr. 2dB (enabled or disabled)
LaserBias=laserbias [enabled or disabled]
Qhsefs=severely errored frame seconds (SEFS) (qtr. hr.)
Daysefs=severely errored frame seconds (SEFS) (daily)

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 performance parameter thresholds of STS-1 path
QHB3CV=coding violations count (qtr. hr.)
DayB3CV=coding violations count (daily)
QHB3ES=errored seconds (ES) count (qtr. hr.)
DayB3ES=errored seconds (ES) count (daily)
QHB3ESA=errored seconds (ES) type A count (qtr. hr.)
DayB3ESA=errored seconds (ES) type A count (daily)
QHB3ESB=errored seconds (ES) type B count (qtr. hr.)
DayB3ESB=errored seconds (ES) type B count (daily)
QHB3SES=severely errored frame seconds (SEFS) count (qtr. hr.)
DayB3SES=severely errored frame seconds (SEFS) count (daily)
QHB3UAS=unavailable seconds count (qtr. hr.)
DayB3UAS=unavailable seconds count (daily)

set-pmthres-t1:[DayESL=*nnnn***][,DayCVPSF=***nnnn***]**
[,DayCVPESF=*nnnn***][DayESP=***nnnnn***][,DaySESP=***nnnnnnn***]**
[,DayUASP=*nnn***][,DayCVPFE=***nnnn***][,DayESPFE=***nnnnn***]**
[,DaySESPFE=*nnn***][,DayUASPFE=***nnnnn***];**(R9.0 & Earlier)

set-pmthres-t1:[QHESL=*nnn***][,DayESL=***nnnnn***]**
[,QHCVPSF=*nnnnn***][,DayCVPSF=***nnnnnnn***][,QHCVPESF=***nnnnn***]**
[,DayCVPESF=*nnnnnnn***][,QHESP=***nnn***][,DayESP=***nnnnn***]**
[,QHSESP=*nn***][,DaySESP=***nnnn***][,QHUASP=***nn***]**
[,DayUASP=*nnnn***][,QHCVPFE=***nnnnn***][,DayCVPFE=***nnnnnnn***]**
[,QHESPFE=*nnn***][,DayESPFE=***nnnnn***][,QHSESPFE=***nn***]**
[,DaySESPFE=*nnnn***][,QHUASPFE=***nn***][,DayUASPFE=***nnnn***];**
(R9.1 & Later)
sets performance monitoring thresholds of DS1 signal
QHESL=errored seconds line (ESL) count (qtr. hr.)
DayESL=errored seconds line (ESL) count (daily)
QHCVPSF=code violations path SF (CVPSF) count (qtr. hr.)
DayCVPSF=code violations path SF (CVPSF) count (daily)
QHCVPESF=code violations path ESF (CVPESF) count (qtr. hr.)
DayCVPESF=code violations path ESF (CVPESF) count (daily)
QHESP=errored seconds path (ESF) count (qtr. hr.)
DayESP=errored seconds path (ESF) count (daily)
QHSESP=severely errored seconds path (SESP) count (qtr. hr.)
DaySESP=severely errored seconds path (SESP) count (daily)
QHUASP=unavailable seconds path (UASP) count (qtr. hr.)
DayUASP=unavailable seconds path (UASP) count (daily)
QHCVPFE=code violations path far-end (CVPFE) count (qtr. hr.)
DayCVPFE=code violations path far-end (CVPFE) count (daily)
QHESPFE=errored seconds path far-end (ESPFE) count (qtr. hr.)
DayESPFE=errored seconds path far-end (ESPFE) count (daily)
QHSESPFE=severely errored seconds path far-end (ESPFE) count (qtr. hr.)
DaySESPFE=severely errored seconds path far-end (ESPFE) count (daily)
QHUASPFE=unavailable seconds path far-end (UASPFE) count (qtr. hr.)
DayUASPFE=unavailable seconds path far-end (UASPFE) count (daily)

set-pmthres-t3:[QHCVL=*nnnnn***][,DayCVL=***nnnnnnn***]**
[,QHESL=*nnn***][,DayESL=***nnnnn***][,QHSESL=***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=***nnnn***][,QHCPFE=***nnnnn***]**
[,DayCPFE=*nnnnnnn***][,QHESPFE=***nnn***][,DayESPFE=***nnnnn***]**
[,QHSESPFE=*nn***][,DaySESPFE=***nnnn***][,QHUASPFE=***nn***]**
[,DayUASPFE=*nnnn***];**
sets performance parameter thresholds of DS3 signal
QHCVL=coding violations count for DS3 line (qtr. hr.)
DayCVL=coding violations count for DS3 line (daily)
QHESL=errored seconds (ES) count for DS3 line (qtr. hr.)
DayESL=errored seconds (ES) count for DS3 line (daily)
QHSESL=severely errored seconds (SES) count for DS3 line (qtr. hr.)
DaySESL=severely errored seconds (SES) count for DS3 line (daily)
QHSEFS=severely errored frame seconds count (qtr. hr.)
DaySEFS=severely errored frame seconds count (daily)
QHPCV=coding violations count for P-bit format (qtr. hr.)
DayPCV=coding violations count for P-bit format (daily)
QHFMCV=coding violations count for F&M bit format (qtr. hr.)
DayFMCV=coding violations count for F&M bit format (daily)
QHCP=coding violations count for near-end CP-bit format (qtr. hr.)
DayCP=coding violations count for near-end CP-bit format (daily)
QHESP=errored seconds count for P-bit, FM-bit, & CP-bit format (qtr. hr.)
DayESP=errored seconds count for P-bit, FM-bit, & CP-bit format (daily)
QHSESP=severely errored seconds count for P-bit, FM-bit, & CP-bit format (qtr. hr.)
DaySESP=severely errored seconds count for P-bit, FM-bit, & CP-bit format (daily)
QHUASP=unavailable seconds count for P-bit, FM-bit, & CP-bit format (qtr. hr.)
DayUASP=unavailable seconds count for P-bit, FM-bit, & CP-bit format (daily)
QHSEFSFE=severely errored frame seconds for far-end CP-bit format (qtr. hr.)
DaySEFSFE=severely errored frame seconds for far-end CP-bit format (daily)
QHCPFE=coding violations count for far-end CP-bit format (qtr. hr.)
DayCPFE=coding violations count for far-end CP-bit format (daily)
QHESPFE=errored seconds count for far-end CP-bit format (qtr. hr.)
DayESPFE=errored seconds count for far-end CP-bit format (daily)
QHSESPFE=severely errored seconds count for far-end CP-bit format (qtr. hr.)
DaySESPFE=severely errored seconds count for far-end CP-bit format (daily)
QHUASPFE=unavailable seconds count for far-end CP-bit format (qtr. hr.)
DayUASPFE=unavailable seconds count for far-end CP-bit format (daily)

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

set-secu:*Address*[:**sec=***Security*][,**to=***Timeout*];
enables or disables CIT security on CIT and DCC interfaces
Address=one or more CIT and/or DCC ports (dcc-all, cit-{1,2,all})
sec=security on specified CIT or DCC port(s) (enabled, disabled,lockout)
to=timeout of inactive session on CIT (minutes)

set-state-ec1:*Address*:**ps=***PrimaryState*;
sets state of EC-1 ports
Address=EC-1 port(s) (all,a,b,c)
ps=port state (auto or nmon)

set-state-oc1:*Address*:**ps=***PrimaryState*;
sets state of OC-1 line(s)
Address=OC-1 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*];
provisions signal degrade threshold of dropped STS-1 channels
Address=STS-1 channels
dgr=degrade 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 path AIS (cr,mn,na,nr)

set-sync:[**mdsw=***ModeSwitching*]
[,**src=***SynchronizationSource*][,**omd=***OutputMode*]
[,**aisthres=***AISThreshold*](R9.1 & Later)
[,**auto=***SyncAutoreconfiguration*];(**Caution***)
provisions the synchronization mode switching, synchronization source, and output mode of timing signals
mdsw=mode of switch (revertive or nonrevertive)
src=synchronization source (main,main-1,main-2,fn-c)
omd=output mode (lock1,lock2,track)
aisthres=sets incoming synchronization message quality level (level5,level4,level3,level2)
auto=syncautoreconfiguration (enabled or disabled)

set-t1:*Address*:[**lc=***LineCode*][,**alm=***AlarmLevel*]
[,**fth=***FailureThreshold*][,**dlc=***DLCBPVtoLOS*]
[,**ais=***AlarmIndicationSignal*][,**pmmd=***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,noOverride)
alm=level of alarm (mj,mn,na)
fth=fail threshold (–8,–7,–6,–3)
dlc=inc. sig. fail translated to LOS (yes or no)
ais=alarm indication signal (yes or no)
pmmd=performance monitoring mode of ports (off or on)
fmt=format to be monitored (sf,esf,esfn)

set-t3:*Address*:[**md=***Mode*][,**ais=***AlarmIndicationSignal*]
[,**alm=***AlarmLevel*][,**fth=***FailureThreshold*][,**pmmd=***PMMode*]
[,**frame=***Frame*][,**fmt=***Format*];(R11.0 & Earlier)(**Caution***)

set-t3:*Address*:[**md=***Mode*][,**ais=***AlarmIndicationSignal*]
[,**alm=***AlarmLevel*][,**fth=***FailureThreshold*][,**pmmd=***PMMode*]
[,**frame=***Frame*][,**fmt=***Format*][,**xbit=**Xbit];(R11.1 & Later)(**Caution***)
provisions parameters of DS3 ports
Address=DS3 port(s) (a,b,c,all)
md=violation monitor removal mode (vmr,vm,cc)
ais=alarm indication signal (yes or no)
alm=level of alarm (cr,mj,mn,na)
fth=fail threshold (-6 or –3)
pmmd=performance monitoring mode of ports (off or on)
frame=framing type (m13 or cbit)
fmt=format to be monitored (pbit,fmbit,cpbit)
xbit=value of both X-bits in outgoing DS3 signal (towards DSX) (1 or 0)

set-trace-sts1:*Address*:[,**EXPTRC=***Expectedincomingpathtrace*]
[,**TRC=***OutgoingPathTrace*];
assigns user-selectable alphanumeric character strings to the transmit and receive path trace fields of a STS-1 cross-connected signal
Address=STS-1 channel
EXPTRC=incoming path trace message (62 or less alphanumeric characters)
TRC=outgoing path trace message (62 or less 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=degrade threshold (–8 to –5)
nsa=provisioned alarm level of non-service affecting VT path AIS (mn or nr) (Rings Only)
sa=provisioned alarm level of service affecting VT path AIS (cr,mn,na,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 audible and visible office alarms and associated user panel LEDs
md=office alarm to test (all,cr,mj,mn)
r=number of times (1-10) to repeat test

test-auto:md=*Mode*;(**Caution***)
does auto turnup tests
md=type of turnup test (local,dsx,optics)

test-led:[*Address*]:[**r=***Repeat*];
tests shelf LEDs
Address=slot(s) or userpanel
r=number of times (1-10) to repeat test
test-sysctl;
self test of SYSCTL and OHCTL
test-tlm-par:[**md=***Mode*][**,r=***Repeat*];
tests parallel telemetry output(s)
md=parallel telemetry output(s)
r=number of times (1-10) to repeat test
test-tlm-ser:[**d=***Display*][**,p=***Point*][**,r=***Repeat*];
tests serial telemetry TBOS outputs
d=TBOS display being used
p=TBOS display point(s) to be tested
r=number of times (1-10) to repeat test
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***)
test DS3 transmission
Address=DS3 port
dirn=direction of test (mux or demux)
dur=length of test in min. (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.