



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

set-sts1:dgr=SignalDegrade; (Release 3 and later)
sets signal degrade alarm threshold of dropped STS-1 channels
dgr=degrade threshold (-9 to -5)

**set-sync:[mdsw=ModeSwitching],[src=SynchronizationSource]
[,omd=OutputMode],[auto=SyncAutoreconfiguration];** (Caution)
sets sync mode to revertive or non revertive
mdsw=mode of switch (revertive or nonrevertive)
src=synchronization source
omd=output mode
auto=syncautoreconfiguration (enabled or disabled)

**set-t3:address:[mode=Mode],[ais=AlarmIndicationSignal]
[,alm=AlarmLevel],[fth=FailureThreshold],[pmmmd=PMMMode]
[,fmt=Format];** (Caution)
provisions parameters of DS3 port(s)
address=DS3 port(s) [(a,b,c,d)-(1-3,all), all]
mode=violation monitor removal mode (vmr,vm, or cc)
ais=alarm indication signal (yes or no)
alm=level of alarm (cr,mj,mn, or na)
fth=fail threshold (-6 or -3)
pmmmd=performance-monitoring (PM) (on or off)
fmt=PMON that appears in DS3 PM report (pbit or fmbit)

TEST

test-alm:[md=Mode],[r=Repeat];
tests office alarms
md=office alarm to test (all,cr,mj,or 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, or optics)

test-led:[address]:[r=Repeat];
tests shelf LEDs
address=slot or user panel
r=number of times (1-10) to repeat test

test-sysctl;
self test of SYSCTL

test-tlm-par:[md=Mode],[r=Repeat];
tests parallel telemetry outputs
md=parallel telemetry output
r=number of times (1-10) to repeat test

test-tlm-ser:[d=Display],[p=Point],[r=Repeat];
tests serial telemetry 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-t3:address:[dir=Direction],[dur=Duration]; (Caution)
test DS3 transmission
address=DS3 port (a,b,c,d)-(1-3)
dir=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.**

DDM-2000 OC-12 Multiplexer System Commands

HELP

? (help)
obtain command/parameter list

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CROSS-CONNECT

dit-crs-sts1:address1,address2[:cct=CrsType];
(Release 3 and later) (Caution)
deletes STS-1 cross-connections
address1=source or "FROM" STS-1 channel
address2=destination or "TO" STS-1 channel
cct=two way or drop and continue cross-connection

ent-crs-sts1:address1,address2[:cct=CrsType],[ring=RingId];
(Release 3 and later) (Caution)
makes STS-1 cross-connections
address1=source or "FROM" STS-1 channel
address2=destination or "TO" STS-1 channel
cct=two way or drop and continue cross-connection
ring=ring identification for drop and continue connections

LOOPBACK

opr-lpbk-ec1:address; (Release 3 and later) (Caution)
loops back STS1E interface towards fiber
address=EC1 port [(a,b,c,d)-(1-3,all)]

ris-lpbk-ec1:address; (Release 3 and later)
releases looped back STS1E port
address=EC1 port [(a,b,c,d,all)-(1-3,all)]

opr-lpbk-t3:address; (Caution)
executes loop on DS3 port toward fiber
address=DS3 port(s) [(a,b,c,d)-(1-3,all)]

ris-lpbk-t3:address;
releases loop on DS3 port
address=DS3 port(s) [(a,b,c,d)-(1-3,all)]

MISCELLANEOUS

cpy-prog:tid=TID; (Release 2.2 and later)
copies local system controller program to remote system controller
tid=target identifier of NE program to be copied into

dit-tadmap:tid=TID; (Release 2 and later)
deletes an NE entry from the DSNE
tid=target identifier of NE to be deleted

**ent-ulsdcc:[address];[L3org=OrganizationID],[L3res=Reserved];
[,L3rou=RoutingData];** (Release 2 and later)
enter upper layer section (3 through 7) of DCC
L3org=company code
L3res=currently not used
L3rou=covers routing domain and area fields

init-pm:reg=Register;
initializes all current day and all qtr. hr. pm registers
reg=register being initialized (day, qh, or all)

init-sys:address; (Caution)
initializes data to factory values
address=all slots or SYSCTL (all or sysctl)

ins-prog:TID;
install new program to SYSCTL
TID=shelf name up to 20 alphanumeric characters

logout;
ends CIT session

opr-aco;
silence audible alarms

reset;
restarts shelf software program

rign:TID;
establishes a remote login session
TID=shelf name up to 20 alphanumeric characters

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

upd; (Caution)
updates system database

RETRIEVE

rtv-alm:[address]:[alm=AlarmLevel]; (Release 2.0 and earlier)
rtv-alm:[alm=AlarmLevel]; (Release 2.1 and later)
displays report of alarms and status
address=one or more slot(s)
alm=alarm level being reported

rtv-attr-alm;
displays current alarm parameters (almdei, clrdel, pmn)

rtv-attr-cont:[address];
displays current misc. discrete control point name
address=control point [cont-(1-4,all)]

rtv-attr-env:[address];
current miscellaneous discrete input name
address=environment input point [env-(1-15,all)]

rtv-crs-sts1:[address]; (Release 3 and later)
displays STS-1 cross-connections
address=sts-1 channel

rtv-ec1:[address]; (Release 3 and later)
report displays information about each EC1 port
address=one or more EC1 ports [all,(a,b,c,d)-(1-3)]

rtv-ecpt:[address];
displays equipage and version information
address=one or more slot(s)

rtv-feat; (Release 2 and later)
report displays enabled feature options

rtv-fecom:[address];
displays state of DCC channel(s)
address=dcc channel

rtv-hsty;
displays most recent events

rtv-ign;
displays login authorization information

rtv-link;
displays CiT link, baud rate, and page length

rtv-ne;
displays network element information (see **set-ne**)

rtv-nmap;
displays map of SONET network with systems and connections

rtv-oc3:[address];
displays OC-3 line configuration
address=OC-3 line address

rtv-oc12:[address];
displays OC-12 line configuration
address=OC-12 line address

rtv-pm-line:[address];
PM STS-3 or STS-12 line status report
address=OC-3, OC-12, or EC-1 line(s)

rtv-pm-sect:[address];
PM OC-3 and OC-12 optics and STS-3 and STS-12 section status report
address=OC-3 or OC-12 line(s)

rtv-pm-sts1:[address];
PM STS-1 status report
address=STS-1 channel(s)

rtv-pm-t3:[address];
PM DS3 status report
address=DS3 port [(a,b,c,d)-(1-3,all)]

rtv-pm-tca;
PM threshold-crossing alert (TCA) report

rtv-pmthres-line;
OC-3 and OC-12 line PM threshold report

rtv-pmthres-sect;
OC-3 and OC-12 section PM threshold report

rtv-pmthres-sts1;
STS-1 PM threshold report

rtv-pmthres-t3;
DS3 signal PM threshold report

rtv-secu;
CiT and DCC port security and timeout information

rtv-state:[address];
port and protection switching state information
address=slot(s)

rtv-state-ecpt:[address]; (Release 3 and later)
displays slot, port, and protn switching state information
address=slot(s) or port(s)

rtv-state-path:[address]; (Release 3 and later)
displays signal path state information for the NE
address=any STS-1 path [all, (mb1,mb2)-(1-12,all)]

rtv-state-sts1:[address]; (Release 2.2 and later)
retrieves STS-1 channel states
address=STS-1 channels [(mb)-(1-12,all)]

rtv-sts1; (Release 3 and later)
displays signal degrade threshold of dropped STS-1 channels

rtv-sync;
sync report - provisioning and operation information

rtv-t3:[address];
DS-3 port provisioning report
address=DS3 port(s) [(a,b,c,d)-(1-3,all)]

rtv-ulsdcc; (Release 2 and later)
retrieves parameter report for NSAP address

SWITCH

switch-fn:address:pri=Priority; (Caution*)
controls function unit pack protection switching
address=function unit (fn-a, b, c, or d)
pri=priority of protection switching request

switch-line:address:pri=Priority; (Caution*)
controls OC-3 and OC-12 line protection switching
address=OC-12 or OC-3 line pair (main-b), fn-(a,b,c,d)
pri=priority of protection switch request

switch-path-sts1:address:pri=Priority; (Release 3 and later)
controls STS1 path switching on path protected ring
address=STS1 path carrying traffic
pri=priority of protection switch request (manual only)

switch-sync:s=SyncFunction:pri=Priority; (Caution*)
controls synchronization protection switch
s=synchronization function
pri=priority of protection switch request

switch-tsi:pri=Priority; (Caution*)
controls TSI protection switching
pri=priority of protection switch request

SET

set-attr-alm:[almDel=AlarmDelay][clrDel=ClearDelay];
sets alarm delay and clear delay
almDel=alarm delay in seconds (00-30)
clrDel=alarm clear delay in seconds (00-30)

set-attr-cont:address:[desc=Description];
provision name of environmental control point
address=control point [cont-(1-4)]
desc=name of 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-(1-15), env-(all))
alm=level of alarm (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 (yyymmdd)
time=hour, minute, and second (hhmmss)

set-ec1:address:[alm=AlarmLevel][dgr=SignalDegradeThreshold];
(Release 3 and later)
sets alarm and signal degrade threshold levels of EC-1 port
address=EC-1 port [all,a-all,b-all,c-all,d-all]
alm=alarm level of incoming EC-1 failure
dgr=signal degrade threshold level (BER of -9 to -5)

set-feat:feat=Feature,act=Action;
feat=feature available to user
sts3c=allows service (concatenated signals)
act=enabled or disabled feature

set-fecom:address:[com=Communications];
enables or disables DCC channel
address=main and/or function unit slots
com=enabled or disabled

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,gne=GNE;
sets target identifier (name) of system
TID=shelf name up to 20 alphanumeric characters
gne=gateway network element (yes or no)

set-oc3:address:[dgr=SignalDegradeThreshold][kbyte=Kbyte][concat=ConcatenationMode]; (Linear Only)
[app=Application]; (Rings Only)
sets parameters of specified OC-3 line pair
address=OC-3 line pair [fn-(a,b,c,d,all),all]
dgr=signal degrade threshold (-9 to -5)
kbyte=K byte overhead for sync messages
concat=provisions concatenation mode
app=provisions function unit for dual 0X1 application

set-oc12:address:[dgr=SignalDegradeThreshold][kbyte=Kbyte];
sets parameters of specified OC-12 line pair
address=OC-12 line pair
dgr=signal degrade threshold (-9 to -5)
kbyte=K byte overhead for sync messages

set-passwd;
changes a user's password

set-pmthres-line:[qhb2cvoc12=nnnn][dayb2cvoc12=nnnnnnn][qhb2cvoc3=nnnnn][dayb2cvoc3=nnnnnnn][qhb2cvec1=nnnnn][dayb2cvec1=nnnnnnn][qhb2es=nnn][dayb2es=nnnnn][qhb2esa=nnn][dayb2esa=nnnnn][qhb2esb=nnn][dayb2esb=nnnnn][qhb2ses=nn][dayb2ses=nnnnn][qhb2uas=nn][dayb2uas=nnnnn][qhpscl=nn][daypscl=nnn];
sets performance parameter thresholds of OC-3 or OC-12 line(s)
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)
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 count (qtr. hr.)
daypscl=line protection switch count (daily)

set-pmthres-sect:[txpwr1db=n][txpwr2db=n][laserbias=n][qhsefs=nn][daysefs=nnnnn];
sets performance-monitoring thresholds of OC-3 and OC-12 section
txpwr1db=transmit pwr. 1 dB [enabled, disabled (0)]
txpwr2db=transmit pwr. 2 dB [enabled, disabled (0)]
laserbias=laser bias [enabled, disabled (0)]
qhsefs=severely errored frame seconds (SEFS) (qtr. hr.)
daysefs=severely errored frame seconds (SEFS) (daily)

set-pmthres-sts1:[qhb3cv=nnnn][dayb3cv=nnnnnnn][qhb3es=nnn][dayb3es=nnnnn][qhb3esa=nnn][dayb3esa=nnnnn][qhb3esb=nnn][dayb3esb=nnnnn][qhb3ses=nn][dayb3ses=nnnnn][qhb3uas=nn][dayb3uas=nnnnn];
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 seconds (SES) count (qtr. hr.)
dayb3ses=severely errored seconds (SES) count (daily)
qhb3uas=unavailable seconds (UAS) count (qtr. hr.)
dayb3uas=unavailable seconds (UAS) count (daily)

set-pmthres-t3:[qhsefs=nnnn][daysefs=nnnnnnn][qhcvp=nnnn][daycvp=nnnnnnn][qhesp=nn][dayesp=nnnnn][qhseps=nn][dayseps=nnnnn][qhuasp=nn][dayuasp=nnnnn];
sets performance parameter thresholds of DS3 signal
qhsefs=severely errored frame seconds count (qtr. hr.)
daysefs=severely errored frame seconds count (daily)
qhcvp=coding violations count (qtr. hr.)
daycvp=coding violations count (daily)
qhesp=errored seconds count for PM format (qtr. hr.)
dayesp=errored seconds count for PM format (daily)
qhseps=severely errored seconds count for PM format (qtr. hr.)
dayseps=severely errored seconds count for PM format (daily)
qhuasp=unavailable seconds count for PM format (qtr. hr.)
dayuasp=unavailable seconds count for PM format (daily)

set-secu:address:sec=Security,to=Timeout;
enables or disables CiT security on CiT and DCC interfaces
address=cit-(1,2,all), dcc-(m-b,a,b,c,d,all)
sec=enable or disable security on CiT and DCC port(s)
to=timeout of inactive session on CiT

set-state-ec1:address:ps=PrimaryState; (Release 3 and later)
sets state of EC-1 ports
address=EC1 port(s) [all, (a,b,c,d)-(1-3,all)]
ps=primary (monitoring) state of port (auto or nmon)

set-state-sts1:address:ps=PrimaryState; (Release 3 and later)
sets state of STS-1 channels
address=STS-1 channel(s) [all,(mb)-(1-12,all)]
ps=primary (monitoring) state of port (auto or nmon)