DDM-2000 FiberReach Wideband Shelf System Commands Quick Reference Guide - 363-206-302 - Issue 3

1. DDM-2000 FiberReach Wideband Shelf System Commands Quick Reference Guide

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
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 OC-1 line
        cct=two-way or drop and continue cross-connections
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 or T1 port
        cct=twoway or locked cross-connections
ent-crs-sts1:*Address1,Address2*:[**cct=***CrsType*];
    sets bidirectional STS-1 cross-connections
        Address1 and 2=addresses of two STS-1 channels
        cct=two-way 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 or T1 port
        cct=two-way or locked cross-connections
        ring=ring identification for locked cross-connections

LOOPBACK
opr-lpbk-t1:*Address*:[**lpbktype=***LoopbackType*];(**Caution***)
    loops back DS1 or T1 port toward fiber
        Address=DS1 or T1 port(s)
        lpbktype=terminal loopback
rls-lpbk-t1:*Address*;
    releases loopback on DS1 or T1 port
        Address=DS1 or T1 port(s)

MISCELLANEOUS
cpy-prog:_TID_;
   copies local NE system controller program to remote
   NE system controller
     tid=target identifier of NE program is to be copied into
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
     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-{1-15},env-{all})
rtrv-crs-sts1:[*Address*];
   retrieves STS-1 cross-connections
      Address=one or more STS-1 channels (m-{1-3,all})
rtrv-crs-vt1:[*Address*];
   retrieves VT1.5 (DS1) cross-connections
      Address=VT1.5 channels or DS1 or T1 ports
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-passwd;
   displays logins, passwords (encrypted), and user type
rtrv-pm-line:[*Address*];
   displays PM OC-1 or OC-3 lines terminated
   on system
      Address=OC-1 or OC-3 line(s)

rtrv-pm-sect:[*Address*];
   displays PM OC-1 and OC-3 optics, STS-1 and
   STS-3 (within OC-3 line only)
      Address=OC-1 or OC-3 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 or T1 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 and OC-3 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 path
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-tl1msgmap;
   displays the OS ACID to TL1 autonomous message types
rtrv-t1:[*Address*];
   displays DS1 or T1 port provisioning report
     Address=DS1 or T1 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

SWITCH
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-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 (mode or src)
     pri=priority of protection switch request (reset or 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-{1-15},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-feat:feat=*Feature*,**act=***Action*;

```
        configure NE for feature options licensed for use
            feat=feature options licensed for use (vtpm or 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-lgn:[**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*][**,cort=***CO/RT*]
  [**,tbaddr=***TBOSAddress*][**,tblink=***TBOSLink*]
  [**,tbrem=***TBOSRemote*][**,idle=***IdleChannelSignal*];
```
     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)
         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*]
  [**,syncmsg=***SynchronizationMessaging*][**,aisalm=***Alarm*];
```
     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)
         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)
```
set-passwd;
```
     changes a user's password
```
set-pmthres-line:[**,QHB2CVOC3=***nnnnn*][**,DayB2CVOC3=***nnnnn*]
  [**,QHB2CVOC1=***nnnnn*][**,DayB2CVOC1=***nnnnn*][**,QHB2ES=***nnn*]
  [**,DayB2ES=***nnnnn*][**,QHB2ESA=***nnn*][**,DayB2ESA=***nnnnn*]

```
        [,QHB2ESB=nnn][,DayB2ESB=nnnnn][,QHB2SES=nn]
        [,DayB2SES=nnnn][,QHB2UAS=nn][,DayB2UAS=nnnn];
         sets performance parameter thresholds of OC-3 or OC-1 line
            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)
            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)
  set-pmthres-sect:[,Qhsefs=nn][,Daysefs=nnnn];
         sets performance parameter thresholds of OC-1 section
            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=nnnn][,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];(R2.0 & 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];
```

```
    (R2.1 & 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-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)
        sec=security on specified CIT or DCC port(s) (enabled,
        disabled,lockout)
        to=timeout of inactive session on CIT (minutes)
  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 or T1 ports
        Address=DS1 or T1 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 or na)
```
set-sync:[mdsw=_ModeSwitching_]
```
   [,src=SynchronizationSource]
   [,auto=SyncAutoreconfiguration];(R2.2 & Later)(Caution*)
    provisions the synchronization mode switching and
    synchronization source of timing signals
        mdsw=mode of switch (revertive or nonrevertive)
        src=synchronization source (main-1 or main-2)
        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 or T1 ports
        Address=DS1 or T1 port(s)
        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-vt1:_Address:_**dgr=**_SignalDegrade_[,**nsa=**_Alarm_]
```
   [,sa=Alarm];
    sets signal degrade alarm threshold of VT1.5 channels
        Address=VT1.5 channels(R2.1 & Later)
        dgr=degrade threshold (-8 to -5)
        nsa=provisioned alarm level of non-service affecting
        VT path AIS (mn or nr)(R2.1 & Later)
        sa=provisioned alarm level of service affecting
        VT path AIS (mj or na)(R2.1 & Later)
```

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-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
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 or T1 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.