



Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Quick Reference Guide, Release 4.0



Note

The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This guide lists TL1 commands and autonomous messages by category. It includes basic descriptions and input and output formats supported by the Cisco ONS 15454 and the Cisco ONS 15327, Release 4.0. Refer to the *Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Guide, Release 4.0* for a complete description of TL1 commands.



TL1 commands conform to the following syntax:

a:b:c:d:e: ...z;

where:

“a” is the Command Code

“b” is the Target Identifier (TID)

“c” is the Access Identifier (AID) or the User Identifier (UID)

“d” is the Correlation Tag (CTAG)

“e: ...z;” are other positions required for various commands

The TID, AID, and CTAG route and control the TL1 command.

Other parameters provide additional information required to complete the action requested by the command.

1 BLSR

Table 1 BLSR

DLT-BLSR: [<TID>]:<AID>:<CTAG>[::]; Deletes the BLSR of the NE
ED-BLSR: [<TID>]:<AID>:<CTAG>:::[RINGID=<RINGID>],[NODEID=<NODEID>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[SRVRTV=<SRVRTV>],[SRVTM=<SRVTM>][:]; Edits the BLSR attributes
ENT-BLSR: [<TID>]:<AID>:<CTAG>:::[RINGID=<RINGID>],NODEID=<NODEID>,MODE=<MODE>,[RVRTV=<RVRTV>],[RVTM=<RVTM>],[SRVRTV=<SRVRTV>],[SRVTM=<SRVTM>],EASTWORK=<EASTWORK>,WESTWORK=<WESTWORK>,[EASTPROT=<EASTPROT>],[WESTPROT=<WESTPROT>]; Creates either a two-fiber or four-fiber BLSR
EX-SW-<OCN_BLSR>: [TID]:<AID>:[CTAG]::[:<ST>]; Exercises the algorithm for switching from a working facility to a protection facility without actually performing a switch.
REPT EVT RING Reports the occurrence of a non-alarmed event against a ring object for a BLSR

Table 1 BLSR (continued)

RTRV-BLSR:[<TID>]:[<AID>]:<CTAG>[:::];

Retrieves all of the BLSR information of the network element (NE)

Output format:

```
SID DATE TIME
M CTAG COMPLD
“[<AID>]:[RINGID=<RINGID>],[NODEID=<NODEID>],[MODE=<MODE>],[
RVRTV=<RVRTV>],[RVTM=<RVTM>],[SRVRTV=<SRVRTV>],[SRVTM=<SRVTM>],[
EASTWORK=<EASTWORK>],[WESTWORK=<WESTWORK>],[
EASTPROT=<EASTPROT>],[WESTPROT=<WESTPROT>]”
;
```

RTRV-COND-RING:[<TID>]:[<AID>]:<CTAG>::[<TYPEREQ>][,];

Retrieves the current standing condition against a ring object for BLSR

Output format:

```
SID DATE TIME
M CTAG COMPLD
“<AID>:[<NTFCNCDE>],<TYPEREP>,[<SRVEFF>],[<OCRDAT>],[
<OCRMTM>][,][<DESC>]”
;
```

RTRV-TRC-<OCN_BLSR>:[<TID>]:<AID>:<CTAG>;

Retrieves the valid J1 expected trace string, retrieved trace string, trace mode, C2 byte, and STS bandwidth of the OCN port only if the port has a BLSR

Output format:

```
SID DATE TIME
M CTAG COMPLD
“<AID>:[LEVEL=<LEVEL>],[EXPTRC=<EXPTRC>],[INCTRC=<INCTRC>],[
TRCMODE=<TRCMODE>],[C2=<C2>]”
;
```

2 Cross Connections

Table 2 Cross Connections

DLT-CRS-<STS_PATH>:[<TID>]:<SRC>,<DST>:<CTAG>[:::];

Deletes a cross-connection between STS paths

DLT-CRS-VT1:[<TID>]:<FROM>,<TO>:<CTAG>[:::];

Deletes the VT1 cross-connections

Table 2 Cross Connections (continued)

ED-CRS-<i><STS_PATH></i>:<i><TID></i>:<i><SRC></i>,<i><DST></i>:<i><CTAG></i>:::<i>[ADD=<i><ADD></i>,]</i> <i>[REMOVE=<i><REMOVE></i>]:<i><PST></i>],[<i><SST></i>];</i> Edits the state of an STS cross-connection
ED-CRS-VT1:<i><TID></i>:<i><SRC></i>,<i><DST></i>:<i><CTAG></i>:::<i>[ADD=<i><ADD></i>,]</i><i>[REMOVE=<i><REMOVE></i>]</i> <i>:<i><PST></i>],[<i><SST></i>];</i> Edits VT cross-connections
ENT-CRS-<i><STS_PATH></i>:<i><TID></i>:<i><SRC></i>,<i><DST></i>:<i><CTAG></i>:::<i><CCT></i>:::<i><PST></i>],[<i><SST></i>]; Creates an STS cross-connection with cross-connection types (CCT)
ENT-CRS-VT1:<i><TID></i>:<i><FROM></i>,<i><TO></i>:<i><CTAG></i>:::<i><CCT></i>:::<i><PST></i>],[<i><SST></i>]; Creates a VT1 cross-connect
RTRV-CRS:<i><TID></i>:<i><AID></i>:<i><CTAG></i>:::<i>[CRSTYPE=<i><CRSTYPE></i>][:];</i> Retrieves all the cross-connections based on the required CRSTYPE (for all STS connections) Output format: SID DATE TIME M CTAG COMPLD “ <i><FROM></i> , <i><TO></i> : <i><CCT></i> , <i><MOD></i> ::: <i><PST></i>],[<i><SST></i>]” ;
RTRV-CRS-<i><STS_PATH></i>:<i><TID></i>:<i><SRC></i>:<i><CTAG></i>[<i>[:];</i>]; Retrieves any connections associated with the entered AID(s) or AID range Output format: SID DATE TIME M CTAG COMPLD “ <i><CROSSCONNECTID></i> , <i><CROSSCONNECTID1></i> : <i><CCT></i> , <i><MOD></i> ::: <i><PST></i>],[<i><SST></i>]” ;
RTRV-CRS-VT1:<i><TID></i>:<i><AID></i>:<i><CTAG></i>[<i>[:];</i>]; Retrieves the VT cross-connection information Output format: SID DATE TIME M CTAG COMPLD “ <i><VT></i> , <i><VT1></i> : <i><CCT></i> ::: <i><PST></i>],[<i><SST></i>]” ;

3 DWDM (Cisco ONS 15454 only)

Table 3 DWDM

DLT-FFP-CLNT: <TID>:<WORKAID>,<PROTAID>:<CTAG>[:::]; Deletes Y-cable protection on client facilities
ED-CLNT: <TID>:<AID>:<CTAG>:::[SFBER=<SFBER>],[SDBER=<SDBER>],[[ALSMODE=<ALSMODE>],[ALSRCINT=<ALSRCINT>],[ALSRCPW=<ALSRCPW>],[[COMM=<COMM>],[MACADDR=<MACADDR>],[SYNCSMSG=<SYNCSMSG>],[[SENDDUS=<SENDDUS>],[RLASER=<RLASER>][SOAK=<SOAK>]:<PST>,<SST>; Edits client facility attributes
ED-DWDM: <TID>:<AID>:<CTAG>:::[PEERID=<PEERID>],[TERMMODE=<TERMMODE>],[[PAYLOAD=<PAYLOAD>],[PWL=<PWL>]; Edits an already pre-provisioned/provisioned MXP/TXP card
ED-FFP-CLNT: <TID>:<AID>:<CTAG>:::[PROTID=<PROTID>],[RVRTV=<RVRTV>],[[RVTM=<RVTM>],[PSDIRN=<PSDIRN>][:]; Edits a Y-cable protection group on client facilities
ED-OCH: <TID>:<AID>:<CTAG>:::[RDIRN=<RDIRN>],[[EXPWLEN=<EXPWLEN>],[VOAATTN=<VOAATTN>],[[VOAPWR=<VOAPWR>],[CALOPWR=<CALOPWR>],[SFBER=<SFBER>],[[SDBER=<SDBER>],[ALSMODE=<ALSMODE>],[ALSRCINT=<ALSRCINT>],[[ALSRCPW=<ALSRCPW>],[COMM=<COMM>],[GCCRATE=<GCCRATE>],[[OSFBER=<OSFBER>],[OSDBER=<OSDBER>],[DWRAP=<DWRAP>],[[FEC=<FEC>],[MACADDR=<MACADDR>],[SYNCSMSG=<SYNCSMSG>],[[SENDDUS=<SENDDUS>],[RLASER=<RLASER>],[SOAK=<SOAK>]:<PST>,<SST>; Edits the attributes (service parameters) and state of an OCH facility
ED-TRC-CLNT: <TID>:<SRC>:<CTAG>:::[EXPTRC=<EXPTRC>],[TRC=<TRC>],[[TRCMODE=<TRCMODE>],[TRCLEVEL=<TRCLEVEL>],[TRCFORMAT=<TRCFORMAT>]; Edits trace-related attributes on client facilities
ED-TRC-OCH: <TID>:<SRC>:<CTAG>:::[EXPTRC=<EXPTRC>],[TRC=<TRC>],[[TRCMODE=<TRCMODE>],[TRCLEVEL=<TRCLEVEL>],[TRCFORMAT=<TRCFORMAT>]; Edits trace-related optical channel facilities
ENT-FFP-CLNT: <TID>:<WORKAID>,<PROTAID>:<CTAG>:::[PROTTYPE=<PROTTYPE>],[[PROTID=<PROTID>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[PSDIRN=<PSDIRN>][:]; Creates Y-cable protection on client facilities
OPR-PROTNSW-CLNT: <TID>:<AID>:<CTAG>:::<SC>[:]; Operates a Y-cable protection switch request

Table 3 DWDM (continued)

RLS-PROTNSW-CLNT:[<TID>]:<AID>:<CTAG>[::];
Releases a Y-cable protection switch on client facilities

RTRV-CLNT:[<TID>]:<AID>:<CTAG>;
Retrieves client facility attributes
Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:.,[<ROLE>],<STATUS>:[COMM=<COMM>],[SFBER=<SFBER>,
[SDBER=<SDBER>],[ALSMODE=<ALSMODE>],[ALSRCINT=<ALSRCINT>,
[ALSRCPW=<ALSRCPW>],[SYNCSMSG=<SYNCSMSG>],[SENDDUS=<SENDDUS>,
[LSRSTAT=<LSRSTAT>],[CLEI=<CLEI>],[PN=<PARTNUM>],[SN=<SERIALNUM>,
[VENDOR=<VENDOR>],[VENDORREV=<VENDORREV>],[OPTICS=<OPTICS>,
[MACADDR=<MACADDR>],[SOAK=<SOAK>]:<PST>,[<SST>]”
;

RTRV-DWDM:[<TID>]:<AID>:<CTAG>;
Retrieves DWDM card-level attributes
Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:<AIDTYPE>,<EQUIP>.,[<STATUS>]:[PEERID=<PEERID>],
[TERMMODE=<TERMMODE>],[PAYLOAD=<PAYLOAD>],
[CARDNAME=<CARDNAME>],[PWL=<PWL>],
[TWL1=<TWL1>],[TWL2=<TWL2>]:[<PST>],[<SST>]”
;

RTRV-FFP-CLNT:[<TID>]:<AID>:<CTAG>[::::];
Retrieves Y-cable protection on client facilities
Output format:

SID DATE TIME
M CTAG COMPLD
“<WORKAID>,<PROTAID>:[PROTOTYPE=<PROTOTYPE>],[PROTID=<PROTID>],
[RVRTV=<RVRTV>],[RVTM=<RVTM>],[PSDIRN=<PSDIRN>]”
;

Table 3 DWDM (continued)

RTRV-OCH:[<TID>]:<AID>:<CTAG>;

Retrieves the attributes (service parameters) and state of an OCH facility

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>:,,, [<STATUS>], [<RDIRN>], [<OPTICALPORTTYPE>], [<POWER>], [<EXPWLEN>],
[<ACTWLEN>]: [ILOSS=<ILOSS>], [VOAMODE=<VOAMODE>], [VOAATTN=<VOAATTN>],
[VOAPWR=<VOAPWR>], [VOAREFATTN=<VOAREFATTN>],
[VOAREFPWR=<VOAREFPWR>], [REFOPWR=<REFOPWR>], [CALOPWR=<CALOPWR>],
[SFBER=<SFBER>], [SDBER=<SDBER>], [ALSMODE=<ALSMODE>],
[ALSRCINT=<ALSRCINT>], [ALSRCPW=<ALSRCPW>], [COMM=<COMM>],
[GCCRATE=<GCCRATE>], [DWRAP=<DWRAP>], [FEC=<FEC>], [OSFBER=<OSFBER>],
[OSDBER=<OSDBER>], [MACADDR=<MACADDR>], [SYNCSMSG=<SYNCSMSG>],
[SENDDUS=<SENDDUS>], [LSRSTAT=<LSRSTAT>], [SOAK=<SOAK>]:<PST>,<SST>”

;

RTRV-PROTNSW-CLNT:[<TID>]:<AID>:<CTAG>[:];

Retrieves protection switch status of client facilities

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>:<SC>,<SWITCHTYPE>”

;

RTRV-TRC-CLNT:[<TID>]:<SRC>:<CTAG>[:<MSGTYPE>],

[<TRCLEVEL>][:];

Retrieves the SONET J0 Section sent trace string, expected trace string, received trace string, trace mode, and the trace level for the client facility

Output format:

SID DATE TIME

M CTAG COMPLD

“[TRCLEVEL=<TRCLEVEL>], [EXPTRC=<EXPTRC>], [TRC=<TRC>], [INCTRRC=<INCTRRC>],
[TRCMODE=<TRCMODE>], [TRCFORMAT=<TRCFORMAT>]”

;

Table 3 DWDM (continued)

RTRV-TRC-OCH: [<TID>]:<SRC>:<CTAG>::[<MSGTYPE>],[<TRCLEVEL>][::];
Retrieves the sent trace string, expected trace string, received trace string, trace mode, and the trace level for the SONET J0 Section, the TTI PATH and SECTION monitoring levels of the DWDM facility
Output format:
SID DATE TIME
M CTAG COMPLD
“[TRCLEVEL=<TRCLEVEL>],[EXPTRC=<EXPTRC>],[TRC=<TRC>],[INCTRC=<INCTRC>],[TRCMODE=<TRCMODE>],[TRCFORMAT=<TRCFORMAT>]”
;

4 Environment Alarms and Controls

Table 4 Environment Alarms and Controls

OPR-ACO-ALL: [<TID>]::<CTAG>;
Operates the cut-off of the office audible alarm indications without changing the local alarm indications
OPR-EXT-CONT: [<TID>]:<AID>:<CTAG>::[<CONTTYPE>],[<DURATION>];
Operates an external control and closes the external control contact
REPT ALM ENV
Reports a user-defined condition on an environmental alarm input
REPT EVT ENV
Reports a non-alarmed event against an environment alarm input
RLS-EXT-CONT: [<TID>]:<AID>:<CTAG>[::];
Releases a forced contact state and returns the control of the contact to an automatic control state
RTRV-ALM-ENV: [<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<ALMTYPE>];
Retrieves the environmental alarms
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>:<NTFCNCDE>,<ALMTYPE>,,,[<DESC>]”
;

Table 4 Environment Alarms and Controls (continued)

RTRV-ATTR-CONT:[<TID>]:<AID>:<CTAG>[::<CONTTYPER>];

Retrieves the attributes associated with an external control

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:[<CONTTYPER>]”

;

RTRV-ATTR-ENV:[<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<ALMTYPE>];

Retrieves the attributes associated with an environmental alarm

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:[<NTFCNCDE>],[<ALMTYPE>],[<DESC>]”

;

RTRV-COND-ENV:[<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<ALMTYPE>][,,,];

Retrieves the environmental conditions

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:[<NTFCNCDE>],[<ALMTYPE>],[<OCRDAT>],[<OCRTM>][,,,],[<DESC>]”

;

RTRV-EXT-CONT:[<TID>]:<AID>:<CTAG>[::<CONTTYPER>];

Retrieves the control state of an external control

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:[<CONTTYPER>],[<DUR>],[<CONTSTATE>]”

;

SET-ATTR-CONT:[<TID>]:<AID>:<CTAG>[::<CONTTYPER>];

Sets the attributes associated with an external control

SET-ATTR-ENV:[<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<ALMTYPE>],[<ALMMSG>];

Sets the attributes associated with an external alarm

5 Equipment

Table 5 Equipment

ALW-SWDX-EQPT: [<TID>]:<AID>:<CTAG>[::];
Allows automatic or manual switching on a duplex system containing duplexed or redundant equipment
ALW-SWTOPROTN-EQPT: [<TID>]:<AID>:<CTAG>[::<DIRN>];
Allows automatic or manual switching of an equipment unit back to a protection status
ALW-SWTOWKG-EQPT: [<TID>]:<AID>:<CTAG>[::<DIRN>];
Allows automatic or manual switching of an equipment unit back to a working status
DLT-EQPT: [<TID>]:<AID>:<CTAG>[::];
Deletes a card from the NE
ED-EQPT: [<TID>]:<AID>:<CTAG>:::[PROTID=<PROTID>],[PRTYPE=<PRTYPE>],[RVRTV=<RVRTV>],[RVTM=<RVTM>][:];
Edits the attributes for a given equipment slot in the NE
ENT-EQPT: [<TID>]:<AID>:<CTAG>::<AIDTYPE>:[PROTID=<PROTID>],[PRTYPE=<PRTYPE>],[RVRTV=<RVRTV>],[RVTM=<RVTM>][:];
Enters the card type and attributes for a given equipment slot in the NE
INH-SWDX-EQPT: [<TID>]:<AID>:<CTAG>[::];
Inhibits the automatic or manual switching on an NE containing duplex equipment
INH-SWTOPROTN-EQPT: [<TID>]:<AID>:<CTAG>[::<DIRN>];
Inhibits automatic or manual switching of an equipment unit to protection
INH-SWTOWKG-EQPT: [<TID>]:<AID>:<CTAG>[::<DIRN>];
Inhibits automatic or manual switching of an equipment unit back to the working unit
REPT ALM EQPT
Reports an alarm condition against an equipment unit or slot
REPT EVT EQPT
Reports the occurrence of a non-alarmed event against an equipment unit or slot
RTRV-ALM-EQPT: [<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>][, , ,];
Retrieves and sends the current status of alarm conditions associated with the equipment units Output format:
SID DATE TIME
M CTAG COMPLD
“[<AID>],[<AIDTYPE>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,,,,:[<DESC>]”
;

Table 5 Equipment (continued)

RTRV-COND-EQPT:[<TID>]:<AID>:<CTAG>::[<TYPEREQ>][,,,];

Retrieves the equipment conditions

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>,<AIDTYPE>:[<NTFCNCDE>],<TYPEREP>,<SRVEFF>,<OCRDAT>,
[<OCRMTM>],,,[<DESC>]”

;

RTRV-EQPT:[<TID>]:<AID>:<CTAG>[:];

Retrieves protection group information and status information for all cards

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:<AIDTYPE>,<EQUIP>,<ROLE>,<STATUS>:[PROTID=<PROTID>,
[PRTYPE=<PRTYPE>],[RVRTV=<RVRTV>],[RVTM=<RVTM>,
[CARDNAME=<CARDNAME>],[IOSCFG=<IOSCFG>]:[<PST>],[<SST>]”

;

SW-DX-EQPT:[<TID>]:<AID>:<CTAG>::[<MODE>][,];

Switches an XC/XCVT/XC10G card with the mate card within the NE

SW-TOPROTN-EQPT:[<TID>]:<AID>:<CTAG>::[<MODE>],[<PROTID>],[<DIRN>];

Performs an equipment unit protection switch

SW-TOWKG-EQPT:[<TID>]:<AID>:<CTAG>::[<MODE>],[<DIRN>];

Switches the protected working unit back to the working unit

6 Fault

Table 6 Fault

REPT ALM <MOD2ALM>

Reports an alarm condition against a facility or a path

REPT ALM COM

Reports an alarm condition when an AID cannot be given

REPT ALM ENV

Reports a customer-defined condition on an environmental alarm input

Table 6 Fault (continued)

REPT ALM RING

Reports an alarm condition against a ring object for BLSR

REPT EVT <MOD2ALM>

Reports the occurrence of a non-alarmed event

REPT EVT COM

Reports a non-alarmed event against an NE when there is no AID associated with it

**RTRV-ALM-<MOD2ALM>:[<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],
[<CONDTYPE>],[<SRVEFF>][,,,];**

Retrieves and sends the current status of the alarm conditions

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>,[<AIDTYPE>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,,,,:[<DESC>]”
;

RTRV-ALM-ALL:[<TID>]::<CTAG>::[<NTFCNCDE>],[<CONDITION>],[<SRVEFF>][,,,];

Retrieves and sends the current status of all active alarm conditions

Output format:

SID DATE TIME
M CTAG COMPLD
“[<AID>],[<AIDTYPE>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,,,,:[<DESC>],[<AIDDET>]”
;

**RTRV-ALM-RING:[<TID>]:[<AID>]:<CTAG>::[<NTFCNCDE>],[<CONDITION>],
[<SRVEFF>][,,,];**

Retrieves and sends the current status of all active alarm conditions against a ring object for BLSR

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,,,,:[<DESC>]”
;

RTRV-COND-<MOD2ALM>:[<TID>]:<AID>:<CTAG>::[<TYPEREQ>][,,,];

Retrieves the current standing condition and/or state associated with an entity

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>,[<AIDTYPE>]:[<NTFCNCDE>],[<TYPEREP>],[<SRVEFF>],[<OCRDAT>],
[<OCRMT>][,,,][<DESC>]”
;

Table 6 Fault (continued)

RTRV-COND-ALL:[<TID>]::<CTAG>::<TYPEREQ>[,,,];

Retrieves the current standing condition for all entities

Output format:

SID DATE TIME
M CTAG COMPLD

“<AID>,<AIDTYPE>:[<NTFCNCDE>],<TYPEREP>,<SRVEFF>,<OCRDAT>],
[<OCRMTM>],,,[<DESC>]”

;

7 IOS

Table 7 IOS

COPY-IOSCFG:[<TID>]:<AID>:<CTAG>::SRC=<SRC>,DEST=<DEST>;

Uploads startup IOS configuration files from the network to the node and downloads startup IOS configuration files from the node to the network (ML-series Ethernet cards)

REPT EVT IOSCFG

Reports the status of copying the IOS configuration file when the COPY-IOSCFG command is issued

8 Log

Table 8 Log

ALW-MSG-DBCHG:[<TID>]::<CTAG>[::,];

Enables REPT DBCHG

INH-MSG-DBCHG:[<TID>]::<CTAG>[::,];

Disables REPT DBCHG

REPT DBCHG

Reports any changes on the NE that result from certain TL1 commands or an external event

Table 8 Log (continued)

RTRV-LOG:[<TID>]::<CTAG>::<LOGNM>;

Retrieves the alarm log of the NE

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>,<ALMNUMBER>:CURRENT=<CURRENT>,[PREVIOUS=<PREVIOUS>,
<CONDITION>,<SRVEFF>,[TIME=<OCRTIME>],[DATE=<OCRDAT>]:<ALMDESCR>”
;

9 Network

Table 9 Network

RTRV-MAP-NETWORK:[<TID>]::<CTAG>;

Retrieves all the NE attributes which are reachable from the GNE

Output format:

SID DATE TIME
M CTAG COMPLD
“<IPADDR>,<NODENAME>,<PRODUCT>”
;

RTRV-NE-IPMAP:[<TID>]:[<AID>]:<CTAG>;

Retrieves the IP address and node name of the NEs that have the DCC connection with this NE

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:<IPADDR>,<NODENAME>”
;

10 Performance

Table 10 Performance

ALW-PMREPT-ALL: [<TID>]::<CTAG>;
Resumes processing all the PM reports that are inhibited
INH-PMREPT-ALL: [<TID>]::<CTAG>;
Inhibits all scheduled PM reporting
INIT-REG-<MOD2>: [<TID>]:<AID>:<CTAG>::, [<LOCN>], [<DIRN>], [<TMPER>][,,];
Initializes the performance monitoring (PM) registers
REPT PM <MOD2>
Reports of performance monitoring statistics as a result of schedule created by SCHED-PMREPT
RTRV-PM-<MOD2>: [<TID>]:<AID>:<CTAG>:: [<MONTYPE>], [<MONLEV>], [<LOCN>], [<DIRN>], [<TMPER>], [<DATE>], [<TIME>];
Retrieves the values of PM parameters for a specified card type
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>,[<AIDTYPE>]:<MONTYPE>,<MONVAL>,[<VLDTY>],[<LOCN>],[<DIRN>], [<TMPER>],[<MONDAT>],[<MONTM>]”
;
RTRV-PMMODE-<STS_PATH>: [<TID>]:<AID>:<CTAG>::<LOCN>;
Retrieves the PM mode that has been previously set in the NE data collection
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>:[<LOCN>],<MODETYPE>”
;
RTRV-PMSCHED-<MOD2>: [<TID>]:<AID>:<CTAG>;
Retrieves the PM reporting schedule that was set for the NE by SCHED-PMREPT
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>,[<AIDTYPE>]:<REPTINVL>,<REPTDAT>,<REPTTM>,[<NUMINVL>],, [<MONLEV>],<LOCN>,, [<TMPER>],[<TMOFST>],[<INHMODE>]”
;

Table 10 Performance (continued)

RTRV-PMSCHED-ALL:[<TID>]::<CTAG>;
Retrieves all the PM reporting schedules that were set for the NE by SCHED-PMREPT
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>,<AIDTYPE>]:<REPTINVL>,<REPTDAT>,<REPTTM>,<NUMINVL>],,
[<MONLEV>],<LOCN>,,<TMPER>],<TMOFST>,<INHMODE>]”
;

RTRV-TH-<MOD2>:[<TID>]:<AID>:<CTAG>::<MONTYPE>],<LOCN>],<TMPER>[::];
Retrieves the current threshold level of one or more monitored parameters
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>,<AIDTYPE>]:<MONTYPE>,<LOCN>],,<THLEV>,<TMPER>]”
;

SCHED-PMREPT-<MOD2>:[<TID>]:<SRC>:<CTAG>::<REPTINVL>],
[<REPTSTATM>],<NUMREPT>],,<MONLEV>],<LOCN>],,<TMPER>],<TMOFST>];
Schedules/reschedules the NE to report the performance monitoring data for a line facility or for an
STS/VT path periodically, using an automatic REPT PM message

SET-PMMODE-<STS_PATH>:[<TID>]:<AID>:<CTAG>::<LOCN>,<MODETYPE>,<PMSTATE>];
Sets the mode and turns the PM data collection mode on or off

SET-TH-<MOD2>:[<TID>]:<AID>:<CTAG>::<MONTYPE>,<THLEV>,<LOCN>],,<TMPER>];
Sets the threshold for PM and sets the alarm thresholds for the MXP/TXP cards

11 Ports

Table 11 Ports

ED-<OCN_TYPE>:[<TID>]:<AID>:<CTAG>::[DCC=<DCC>],[SYNCSMSG=<SYNCSMSG>],
[SENDDUS=<SENDDUS>],[PJMOM=<PJMOM>],[SFBER=<SFBER>],[SDBER=<SDBER>],
[MODE=<MODE>],[MUX=<MUX>],[SOAK=<SOAK>]:<PST>],<SST>];
Edits the attributes and state of an OC-N facility

ED-DS1:[<TID>]:<AID>:<CTAG>[::TACC=<TACC>];
Edits the test access attributes for DS1 access on a DS3XM card

Table 11 Ports (continued)

ED-EC1: [<TID>]:<AID>:<CTAG>:::[PJMOM=<PJMOM>],[LBO=<LBO>],[SOAK=<SOAK>]:[<PST>],[<SST>]; Edits the attributes of an EC1
ED-G1000: [<TID>]:<AID>:<CTAG>:::[MFS=<MFS>],[FLOW=<FLOW>],[OPTICS=<OPTICS>],[ALS=<ALS>],[TRANS=<TRANS>]:[<PST>],[<SST>]; Edits the attributes related to a G1000 port
ED-T1: [<TID>]:<AID>:<CTAG>:::[LINECDE=<LINECDE>],[FMT=<FMT>],[LBO=<LBO>],[TACC=<TACC>],[SOAK=<SOAK>]:[<PST>],[<SST>]; Edits the attributes related a DS1/T1 port
ED-T3: [<TID>]:<AID>:<CTAG>:::[FMT=<FMT>],[LINECDE=<LINECDE>],[LBO=<LBO>],[TACC=<TACC>],[SOAK=<SOAK>]:[<PST>],[<SST>]; Edits the attributes related to a DS3/T3 port
INIT-REG-G1000: [<TID>]:<src>:<CTAG>::,,<LOCATION>,<DIRECTION>,<TMPPER>[,,]; Initializes the performance monitoring registers for the G1000-4 and G1000-2 ports
RMV-<MOD2_IO>: [<TID>]:<AID>:<CTAG>::[<CMDMODE>],[<PST>],[<SST>]; Removes a facility from service
RST-<MOD2_IO>: [<TID>]:<AID>:<CTAG>[::]; Provisions a facility in service
RTRV-<OCN_TYPE>: [<TID>]:<AID>:<CTAG>[::::]; Retrieves the attributes and state of an OC-N facility Output format: SID DATE TIME M CTAG COMPLD “<AID>:,[<ROLE>],[<STATUS>]:[DCC=<DCC>],[TMGREF=<TMGREF>],[SYNCSMSG=<SYNCSMSG>],[SENDDUS=<SENDDUS>],[PJMOM=<PJMOM>],[SFBER=<SFBER>],[SDBER=<SDBER>],[MODE=<MODE>],[WVLEN=<WVLEN>],[RINGID=<RINGID>],[BLSRTYPE=<BLSRTYPE>],[MUX=<MUX>],[UNIC=<UNIC>],[CCID=<CCID>],[NBRIX=<NBRIX>],[SOAK=<SOAK>]:<PST>,[<SST>]” ;
RTRV-DS1: [<TID>]:<AID>:<CTAG>[::::]; Retrieves the test access attributes on a DS1 layer of DS3XM card Output format: SID DATE TIME M CTAG COMPLD “<AID>:[TACC=<TACC>]” ;

Table 11 Ports (continued)

RTRV-EC1:[<TID>]:<AID>:<CTAG>[:];

Retrieves the facility status of an EC1 card

Output format:

```
SID DATE TIME
M CTAG COMPLD
"<AID>::[PJMON=<PJMON>],[LBO=<LBO>],[RXEQUAL=<RXEQUAL>],[
SOAK=<SOAK>]:<PST>,[<SST>]"
;
```

RTRV-FSTE:[<TID>]:<AID>:<CTAG>;

Retrieves the front end port information of the ML100T-12 Ethernet card

Output format:

```
SID DATE TIME
M CTAG COMPLD
"<AID>::[ADMINSTATE=<ADMINSTATE>],[LINKSTATE=<LINKSTATE>],[
MTU=<MTU>],[FLOWCTRL=<FLOWCTRL>],[DUPLEX=<DUPLEX>],[SPEED=<SPEED>]"
;
```

RTRV-G1000:[<TID>]:<AID>:<CTAG>;

Retrieves the G1000 facilities configuration

Output format:

```
SID DATE TIME
M CTAG COMPLD
"<AID>::[MFS=<MFS>],[FLOW=<FLOW>],[LAN=<LAN>],[OPTICS=<OPTICS>]:
<PST>,[<SST>]"
;
```

RTRV-GIGE:[<TID>]:<AID>:<CTAG>;

Retrieves the front end port information for the ML1000-2 Ethernet card

Output format:

```
SID DATE TIME
M CTAG COMPLD
"<AID>::[ADMINSTATE=<ADMINSTATE>],[LINKSTATE=<LINKSTATE>],[MTU=<MTU>],[
FLOWCTRL=<FLOWCTRL>],[OPTICS=<OPTICS>],[DUPLEX=<DUPLEX>],[
SPEED=<SPEED>]"
;
```

Table 11 Ports (continued)

RTRV-POS: [<TID>]:<AID>:<CTAG>;
Retrieves the back end port information for the ML-series Ethernet cards when the back end port is working in POS mode
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>::[ADMINSTATE=<ADMINSTATE>],[LINKSTATE=<LINKSTATE>],[MTU=<MTU>]”
;
RTRV-T1: [<TID>]:<AID>:<CTAG>[:::];
Retrieves the DS1 facilities configuration
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>::[LINECDE=<LINECDE>],[FMT=<FMT>],[LBO=<LBO>],[TACC=<TAP>],[SOAK=<SOAK>]:<PST>,[<SST>]”
;
RTRV-T3: [<TID>]:<AID>:<CTAG>[:::];
Retrieves the facilities properties of a DS3 and DS3XM card
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>::[FMT=<FMT>],[LINECDE=<LINECDE>],[LBO=<LBO>],[TACC=<TAP>],[SOAK=<SOAK>]:<PST>,[<SST>]”
;

12 Security

Table 12 Security

ACT-USER: [<TID>]:<UID>:<CTAG>::<PID>;
Sets up a session with the NE
ALW-MSG-SECU: [<TID>]::<CTAG>;
Allows REPT EVT SECU and REPT ALM SECU

Table 12 Security (continued)

CANC

Reports the occurrence of a session timeout event

Output format:

SID DATE TIME

A ATAG CANC

“<UID>”

;

CANC-USER:[<TID>]:<USERID>:<CTAG>;

Logs a user out of an active session with the NE

DLT-USER-SECU:[<TID>]:<UID>:<CTAG>;

Deletes a user; can only be performed by a Superuser

ED-PID:[<TID>]:<UID>:<CTAG>::<OLDPID>,<NEWPID>;

Allows a user to change his or her own password

ED-USER-SECU:[<TID>]:<UID>:<CTAG>::[<NEWUID>],[<NEWPID>],[<UAP>][:];

Edits a user’s privileges, password, or ID and can only be performed by a Superuser

ENT-USER-SECU:[<TID>]:<UID>:<CTAG>::<PID>,,<UAP>[:];

Adds a user account; can only be performed by a Superuser

INH-MSG-SECU:[<TID>]::<CTAG>;

Inhibits the REPT EVT SECU and REPT ALM SECU messages

REPT EVT SECU

Reports the occurrence of a non-alarmed security event against the NE

REPT EVT SESSION

Reports a non-alarmed event related to establishing a session with the NE

RTRV-USER-SECU:[<TID>]:<UID>:<CTAG>;

Retrieves the security information of a specified user or list of users

Output format:

SID DATE TIME

M CTAG COMPLD

“<UID>;,<UAP>”

;

13 SONET Line Protection

Table 13 SONET Line Protection

DLT-FFP-<OCN_TYPE>:[<TID>]:<WORK>,<PROTECT>:<CTAG>[:::]; Deletes an OCN facility protection group in a 1+1 architecture
ED-FFP-<OCN_TYPE>:[<TID>]:<AID>:<CTAG>:::[PROTID=<PROTID>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[PSDIRN=<PSDIRN>][:]; Edits the optical facility protection
ENT-FFP-<OCN_TYPE>:[<TID>]:<WORK>,<PROTECT>:<CTAG>:::[PROTID=<PROTID>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[PSDIRN=<PSDIRN>][:]; Creates an optical 1+1 protection
OPR-PROTNSW-<OCN_TYPE>:[<TID>]:<AID>:<CTAG>::<SC>,[<SWITCHTYPE>]; Initiates a SONET line protection switch request
RLS-PROTNSW-<OCN_TYPE>:[<TID>]:<AID>:<CTAG>[::]; Releases a SONET line protection switch request
RTRV-FFP-<OCN_TYPE>:[<TID>]:<AID>:<CTAG>[:::]; Retrieves the optical facility protection information Output format: SID DATE TIME M CTAG COMPLD “<WORK>,<PROTECT>::[PROTID=<PROTID>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[PSDIRN=<PSDIRN>]” ;
RTRV-PROTNSW-<OCN_TYPE>:[<TID>]:<AID>:<CTAG>[:::]; Retrieves the switching state of a SONET line specified in the AID Output format: SID DATE TIME M CTAG COMPLD “<AID>:<SC>,[<SWITCHTYPE>]” ;

14 Software Download

Table 14 Software Download

APPLY: [<TID>]::<CTAG>[:<MEM_SW_TYPE>];
Activates or reverts a software load during a software upgrade or downgrade process
COPY-RFILE: [<TID>]:<SRC>:<CTAG>::TYPE=<XFERTYPE>,[SRC=<SRC1>],[DEST=<DEST>];
Downloads a new software package from the location specified by the FTP URL. Also used to backup and restore the system database.
REPT EVT FXFR
Reports the FTP software download status of the start, completion, and completed percentage

15 STS and VT Paths

Table 15 STS and VT Paths

ED-<STS_PATH>: [<TID>]:<SRC>:<CTAG>:::[SFBER=<SFBER>],[SDBER=<SDBER>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[SWPDIP=<SWPDIP>],[HOLDOFFTIMER=<HOLDOFFTIMER>],[EXPTRC=<EXPTRC>],[TRC=<TRC>],[TRCMODE=<TRCMODE>],[TACC=<TACC>]:[<PST>],[<SST>];
Edits the attributes associated with an STS path
ED-VT1: [<TID>]:<SRC>:<CTAG>:::[RVRTV=<RVRTV>],[RVTM=<RVTM>],[HOLDOFFTIMER=<HOLDOFFTIMER>],[TACC=<TACC>]:[<PST>],[<SST>];
Edits the attributes associated with a VT1 path
RTRV-<STS_PATH>: [<TID>]:<AID>:<CTAG>:::[BLSRPTHSTYPE=<BLSRPTHSTYPE>][:];
Retrieves the attributes associated with an STS path
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>:[LEVEL=<LEVEL>],[SFBER=<SFBER>],[SDBER=<SDBER>],[RVRTV=<RVRTV>],[RVTM=<RVTM>],[SWPDIP=<SWPDIP>],[HOLDOFFTIMER=<HOLDOFFTIMER>],[EXPTRC=<EXPTRC>],[TRC=<TRC>],[INCTRC=<INCTRC>],[TRCMODE=<TRCMODE>],[TACC=<TACC>],[UPSRPTHSTATE=<UPSRPTHSTATE>],[C2=<C2>],[BLSRPTHSTATE=<BLSRPTHSTATE>]:[<PST>],[<SST>]”
;

Table 15 STS and VT Paths (continued)

RTRV-PTHTRC-<STS_PATH>:[<TID>]:<AID>:<CTAG>::[<MSGTYPE>][[:<LOCN>]; Retrieves the contents of the SONET path trace message that is transported in the J1 byte of the SONET STS path Output format: SID DATE TIME M CTAG COMPLD “<TRACMSG>” ;
RTRV-VT1:[<TID>]:<SRC>:<CTAG>[:::]; Retrieves the attributes associated with a VT1 path Output format: SID DATE TIME M CTAG COMPLD “<VT>:[RVRTV=<RVRTV>],[RVTM=<RVTM>],[HOLDOFFTIMER=<HOLDOFFTIMER>],[TACC=<TACC>][UPSRPTHSTATE=<UPSRPTHSTATE>]:[<PST>],[<SST>]” ;

16 Synchronization

Table 16 Synchronization

ED-BITS:[<TID>]:<AID>:<CTAG>:::[LINECDE=<LINECDE>],[FMT=<FMT>],[LBO=<LBO>],[SYNCMSG=<SYNCMSG>],[AISTHRSHLD=<AISTHRSHLD>][[:<PST>]; Edits the BITS reference attributes
ED-NE-SYNCN:[<TID>]:<CTAG>:::[TMMD=<TMMD>],[SSMGEN=<SSMGEN>],[QRES=<QRES>],[RVRTV=<RVRTV>],[RVTM=<RVTM>]; Edits the synchronization attributes of the NE
ED-SYNCN:[<TID>]:<AID>:<CTAG>:::[PRI=<PRI>],[SEC=<SEC>],[THIRD=<THIRD>][[:]; Edits the synchronization reference list used to determine the sources for the NE’s reference clock and the BITS output clock
OPR-SYNCNSW:[<TID>]:<AID>:<CTAG>::<SWITCHTO>,[<SC>]; Initiates a switch to the reference specified by the synchronization reference number if the reference supplied is valid
REPT ALM BITS Reports an alarm condition on a BITS facility

Table 16 Synchronization (continued)

REPT ALM SYNCN

Reports an alarm condition against a synchronization reference

REPT EVT BITS

Reports the occurrence of a non-alarmed event against a BITS facility

REPT EVT SYNCN

Reports the occurrence of a non-alarmed event against a synchronization entity

RLS-SYNCNSW:[<TID>]:<AID>:<CTAG>;

Releases the previous synchronization reference provided by the OPR-SYNCNSW command

RTRV-ALM-BITS:[<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>][,,,];

Retrieves and sends the current status of alarm conditions associated with the BITS facility

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>,<AIDTYPE>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,,:[<DESC>”

;

RTRV-ALM-SYNCN:[<TID>]:<AID>:<CTAG>::[<NTFCNCDE>],[<CONDTYPE>],

[<SRVEFF>][,,,];

Retrieves and sends the current status of alarm conditions associated with a synchronization facility

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>,<AIDTYPE>]:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,,:[<DESC>”

;

RTRV-BITS:[<TID>]:<AID>:<CTAG>[:::];

Retrieves the BITS configuration command

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>::[LINECDE=<LINECDE>],[FMT=<FMT>],[LBO=<LBO>],[SYNCSMSG=<SYNCSMSG>],[AISTHRSHLD=<AISTHRSHLD>]:[<PST>”

;

Table 16 Synchronization (continued)

RTRV-COND-BITS:[<TID>]:<AID>:<CTAG>::[<TYPEREQ>][,,,];

Retrieves the standing condition on BITS

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>,[<AIDTYPE>]:[<NTFCNCDE>],<TYPEREP>,[<SRVEFF>],[<OCRDAT>],
[<OCRMTM>][,,,][<DESC>”

;

RTRV-COND-SYNCN:[<TID>]:<AID>:<CTAG>::[<TYPEREQ>][,,,];

Retrieves the synchronization condition

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>,[<AIDTYPE>]:[<NTFCNCDE>],<TYPEREP>,[<SRVEFF>],
[<OCRDAT>],[<OCRMTM>][,,,][<DESC>”

;

RTRV-NE-SYNCN:[<TID>]::<CTAG>[:::];

Retrieves the synchronization attributes of the NE

Output format:

SID DATE TIME
M CTAG COMPLD
“::[TMMD=<TMMD>],[SSMGEN=<SSMGEN>],[QRES=<QRES>],[RVRTV=<RVRTV>],
[RVTM=<RVTM>]”

;

RTRV-SYNCN:[<TID>]:<AID>:<CTAG>[:::];

Retrieves the synchronization reference list used to determine the sources for the NE’s reference clock and the BITS output clock

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:<REF>,<REFVAL>,[<QREF>],[<STATUS>],[<PROTECTSTATUS>]”

;

17 System

Table 17 System

ALW-MSG-ALL: [<TID>]::<CTAG>[::,];
Allows REPT ALM and REPT EVT autonomous messages to be transmitted
ED-DAT: [<TID>]::<CTAG>::[<DATE>],[<TIME>];
Edits the date and the time
ED-NE-GEN: [<TID>]::<CTAG>:::[NAME=<NAME>],[IPADDR=<IPADDR>],[IPMASK=<IPMASK>],[DEFRTR=<DEFRTR>],[IIOPPORT=<IIOPPORT>],[NTP=<NTP>];
Edits the general node attributes of an NE
INH-MSG-ALL: [<TID>]::<CTAG>[::,];
Inhibits REPT ALM and REPT EVT autonomous messages from being transmitted
INIT-SYS: [<TID>]:<AID>:<CTAG>[::];
Initializes the specified card and its associated subsystem(s)
RTRV-HDR: [<TID>]::<CTAG>;
Retrieves the header of a TL1 response message
RTRV-INV: [<TID>]:<AID>:<CTAG>[:::];
Retrieves a listing of the equipment inventory
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>,<AIDTYPE>::[PN=<PN>],[HWREV=<HWREV>],[FWREV=<FWREV>],[SN=<SN>],[CLEI=<CLEI>][TWL1=<TWL1>],[TWL2=<TWL2>],[PLUGINVERNDORID=<PLUGINVERNDORID>],[PLUGINPN=<PLUGINPN>],[PLUGINHWREV=<PLUGINHWREV>],[PLUGINFWREV=<PLUGINFWREV>],[PLUGINSN=<PLUGINSN>],[ILOSSREF=<ILOSSREF>]”
;

Table 17 System (continued)

RTRV-NE-GEN:[<TID>]::<CTAG>;

Retrieves the general NE attributes

Output format:

SID DATE TIME
M CTAG COMPLD
“[IPADDR=<IPADDR>],[IPMASK=<IPMASK>],[DEFRTR=<DEFRTR>],[
[IIOPPORT=<IIOPPORT>],[NTP=<NTP>],[ETHIPADDR=<ETHIPADDR>],[
[ETHIPMASK=<ETHIPMASK>],[NAME=<NAME>],[SWVER=<SWVER>],[LOAD=<LOAD>],[
[PROTSWVER=<PROTSWVER>],[PROTLOAD=<PROTLOAD>],[DEFDESC=<DEFDESC>]
[PLATFORM=<PLATFORM>]”

;

RTRV-TOD:[<TID>]::<CTAG>;

Retrieves the system date and time at the instant the command is executed

Output format:

SID DATE TIME
M CTAG COMPLD
“<YEAR>,<MONTH>,<DAY>,<HOUR>,<MINUTE>,<SECOND>,<TMTYPE>”

;

SET-TOD:[<TID>]::<CTAG>::<YEAR>,<MONTH>,<DAY>,<HOUR>,<MINUTE>,<SECOND>,[<DIFFERENCE>][:DST=<DST>];

Sets the system date and time for the NE

18 Test Access

Table 18 Test Access

CHG-ACCMD-<MOD_TACC>**:**[<TID>]:<TAP>:<CTAG>::<MD>;

Changes the test access mode for the circuit being tested

CONN-TACC-<MOD_TACC>**:**[<TID>]:<AID>:<CTAG>::<TAP>:MD=<MD>;

Connects the STS or VT defined by AID to the STS specified by the TAP number

Output format:

SID DATE TIME
M CTAG COMPLD
“<TAP>”

;

Table 18 Test Access (continued)

DISC-TACC:[<TID>]:<TAP>:<CTAG>;

Disconnects the TAP and puts the connection back to its original state

RTRV-TACC:[<TID>]:<TAP>:<CTAG>;

Retrieves details associated with a TAP

Output format:

SID DATE TIME

M CTAG COMPLD

“<TAP>:<TACC_AID1>,<TACC_AID2>,[<MD>],[<E_CONN>],[<F_CONN>]”

;

19 Testing

Table 19 Testing

OPR-LPBK-*<MOD2>*:[<TID>]:<SRC>:<CTAG>::,,,[<LPBKTYPE>];

Operates a signal loopback on an I/O card or on a cross-connect

RLS-LPBK-*<MOD2>*:[<TID>]:<SRC>:<CTAG>::,,,[<LPBKTYPE>];

Releases a signal loopback on an I/O card or on a cross-connect

20 UCP

Table 20 UCP

DLT-UCP-CC:[<TID>]:<AID>:<CTAG>[:::];

Deletes a UCP IP control channel

DLT-UCP-IF:[<TID>]:<AID>:<CTAG>[:::];

Deletes a UCP interface

DLT-UCP-NBR:[<TID>]:<AID>:<CTAG>[:::];

Deletes a UCP neighbor

ED-UCP-CC:[<TID>]:<AID>:<CTAG>:::[LOCALIPCC=<LOCALIPCC>,
[REMOTEIPCC=<REMOTEIPCC>],[LMPHELLOINT=<LMPHELLOINT>,
[LMPHELLODEADINT=<LMPHELLODEADINT>],[MTU=<MTU>,
[CRCMD=<CRCMD>][:];

Edits UCP IP control channel attributes

Table 20 UCP (continued)

ED-UCP-IF: <TID>[:<AID>:<CTAG>:::[TNATYPE=<TNATYPE>],[TNAADDR=<TNAADDR>],[CORENETWORKID=<CORENETWORKID>]][:]; Edits UCP interface attributes
ED-UCP-NBR: <TID>[:<AID>:<CTAG>:::[NAME=<NAME>],[HELLOEN=<HELLOEN>],[HELLOINT=<HELLOINT>],[REFREDEN=<REFREDEN>]][:]; Edits a UCP neighbor
ED-UCP-NODE: <TID>::<CTAG>:::[NODEID=<NODEID>],[INITRETRY=<INITRETRY>],[MAXRETRY=<MAXRETRY>],[RESTARTTM=<RESTARTTM>],[RECOVTM=<RECOVTM>],[RXMTINT=<RXMTINT>],[RFRSHINT=<RFRSHINT>],[RESVTIMEOUT=<RESVTIMEOUT>],[RESVCONFTIMEOUT=<RESVCONFTIMEOUT>],[SOURCEDIP=<SOURCEDIP>],[DESTINATIONDIP=<DESTINATIONDIP>]][:]; Edits a UCP node level attributes
ENT-UCP-CC: <TID>[:<AID>:<CTAG>:::[NBRIX=<NBRIX>],[CCTYPE=<CCTYPE>],[PORT=<PORT>],[LOCALCCID=<LOCALCCID>],[LOCALIPCC=<LOCALIPCC>],[REMOCCID=<REMOCCID>],[REMOEIPCC=<REMOEIPCC>],[LMPHELLOINT=<LMPHELLOINT>],[LMPHELLODEADINT=<LMPHELLODEADINT>],[MTU=<MTU>],[CRCMD=<CRCMD>],[TUNMD=<TUNMD>]][:]; Creates a UCP IP control channel
ENT-UCP-IF: <TID>[:<AID>:<CTAG>:::[NBRIX=<NBRIX>],[CCID=<CCID>],[LOCALIFID=<LOCALIFID>],[REMOEIFID=<REMOEIFID>],[TNATYPE=<TNATYPE>],[TNAADDR=<TNAADDR>],[CORENETWORKID=<CORENETWORKID>]][:]; Creates a UCP interface
ENT-UCP-NBR: <TID>[:<AID>:<CTAG>:::[NBRIX=<NBRIX>],[NODEID=<NODEID>],[NAME=<NAME>],[NDEN=<NDEN>],[HELLOEN=<HELLOEN>],[HELLOINT=<HELLOINT>],[REFREDEN=<REFREDEN>],[NUMRXMTS=<NUMRXMTS>]][:]; Creates a UCP neighbor
REPT ALM UCP Reports an alarm condition against a UCP object
REPT EVT UCP Reports the occurrence of a non-alarmed event against a UCP object
RTRV-ALM-UCP: <TID>[:<AID >:<CTAG>:::<NTFCNCDE>],[<CONDTYPE>],[<SRVEFF>][,],,]; Retrieves and sends the current status of all active alarm conditions against a UCP object Output format: SID DATE TIME M CTAG COMPLD “<AID>:<NTFCNCDE>,<CONDTYPE>,<SRVEFF>,;,;,<DESC>” ;

Table 20 UCP (continued)

RTRV-COND-UCP:[<TID>]:<AID>:<CTAG>::<TYPEREQ>[,,,,];

Retrieves the current standing condition against a UCP object

Output format:

SID DATE TIME
M CTAG COMPLD
“<AID>:[<NTFCNCDE>],<TYPEREP>,[<SRVEFF>],[<OCRDAT>],
[<OCRMTM>],,,[<DESC>]”
;

RTRV-UCP-CC:[<TID>]:[<AID >]:<CTAG>[::::];

Retrieves UCP IP control channel attributes

Output format:

SID DATE TIME
M CTAG COMPLD
“[<AID>]::NBRIX=<NBRIX>,CCTYPE=<CCTYPE>,[PORT=<PORT>,
LOCALCCID=<LOCALCCID>],LOCALIPCC=<LOCALIPCC>,
REMOTECCID=<REMOTECCID>],[REMOTEIPCC=<REMOTEIPCC>],
LMPHELLOINT=<LMPHELLOINT>],OPERLMPHELLOINT=<OPERLMPHELLOINT>],
LMPHELLODEADINT=<LMPHELLODEADINT>],
OPERLMPHELLODEADINT=<OPERLMPHELLODEADINT>],
[TUNMD=<TUNMD>],[MTU=<MTU>],[CRCMD=<CRCMD>]”
;

RTRV-UCP-IF:[<TID>]:[<AID>]:<CTAG>[::::];

Retrieves UCP interface attributes

Output format:

SID DATE TIME
M CTAG COMPLD
“[<AID>]::NBRIX=<NBRIX>,CCID=<CCID>],LOCALIFID=<LOCALIFID>],
REMOTEIFID=<REMOTEIFID>],TNATYPE=<TNATYPE>],
TNAADDR=<TNAADDR>],CORENETWORKID=<CORENETWORKID>”
;

Table 20 UCP (continued)

RTRV-UCP-NBR: [<TID>]:[<AID>]:<CTAG>[:::];
Retrieves a UCP neighbor
Output format:
SID DATE TIME
M CTAG COMPLD
“<AID>::[NBRIX=<NBRIX>],[NODEID=<NODEID>],[NAME=<NAME>, [NDEN=<NDEN>],[HELLOEN=<HELLOEN>],[HELLOINT=<HELLOINT>, [REFREDEN=<REFREDEN>],[NUMRXMTS=<NUMRXMTS>]”
;
RTRV-UCP-NODE: [<TID>]:<CTAG>[:::];
Retrieves UCP node-level attributes
Output formats:
SID DATE TIME
M CTAG COMPLD
“::[NODEID=<NODEID>],[INITRETRY=<INITRETRY>],[MAXRETRY=<MAXRETRY>, [RESTARTTM=<RESTARTTM>],[RECOVTM=<RECOVTM>],[RXMTINT=<RXMTINT>, [FRSHINT=<FRSHINT>],[RESVTIMEOUT=<RESVTIMEOUT>, [RESVCONFTIMEOUT=<RESVCONFTIMEOUT>, [SOURCEDIP=<SOURCEDIP>],[DESTINATIONDIP=<DESTINATIONDIP>]”
;

21 Path Protection Configuration Switching

Table 21 Path Protection Configuration Switching

OPR-PROTNSW-<STS_PATH>: [<TID>]:<AID>:<CTAG>::<SC>[:];
Initiates a SONET path protection (path protection configuration) switch request
OPR-PROTNSW-VT1: [<TID>]:<AID>:<CTAG>::<SC>[:];
Initiates a SONET path protection switch request
REPT SW
Reports the autonomous switching of a unit in a duplex equipment pair to standby and its mate to the active state
RLS-PROTNSW-<STS_PATH>: [<TID>]:<AID>:<CTAG>[::];
Releases a SONET path protection switch request that was established with the OPR-PROTNSW-<STS_PATH> command

Table 21 Path Protection Configuration Switching (continued)

RLS-PROTNSW-VT1:[<TID>]:<AID>:<CTAG>[::];

Releases a SONET path protection switch request that was established with the OPR-PROTNSW-VT1 command

RTRV-PROTNSW-<STS_PATH>:[<TID>]:<AID>:<CTAG>[::::];

Retrieves the switching state of a SONET path protection configuration STS path specified in the AID

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>:<SC>,[<SWITCHTYPE>]”

;

RTRV-PROTNSW-VT1:[<TID>]:<AID>:<CTAG>[::::];

Retrieves the switching state of a SONET path protection configuration VT path specified in the AID

Output format:

SID DATE TIME

M CTAG COMPLD

“<AID>:<SC>,[<SWITCHTYPE>]”

;



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