

Nortel

Optical Metro 5100/5200

TL1 Interface, Part 3 of 4

Standard Release 8.0 Issue 1 April 2005

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See Part 2 for the following:

Facility loopback commands, Protection switching commands, Operational measurement commands, Performance monitoring commands

See Part 4 for the following:

TL1 messages, Comms module commands, Switch module commands

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About this document

ATTENTION

This document is presented in four parts: Part 1, Part 2, Part 3, and Part 4. Each part has its own table of contents. The table of contents in Part 1 contains topics found in Part 1 only. The table of contents in Part 2 contains topics found in Part 2 only. The table of contents in Part 3 contains topics found in Part 3 only. The table of contents in Part 4 contains topics found in Part 4 only. Parts 1, 2, and 3 do not include TL1 commands for the Enhanced Trunk Switch (ETS); Part 4 contains all the TL1 commands for the ETS.

You are reading Part 3 of the *TL1 Interface*, 323-1701-190.

Part 3 of the *TL1 Interface* covers further TL1 detailed command descriptions, autonomous messages, error codes, and the shelf backup and restore procedures.

Audience for this document

This document is for the following audience:

- planners
- provisioners
- network administrators
- transmission standard engineers
- maintenance personnel

Optical Metro 5100/5200 library

The Optical Metro 5100/5200 library consists of the *Nortel Optical Metro 5100/5200 Technical Publications*, NT0H65AM.

Technical Publications

The *Optical Metro 5100/5200 Nortel Technical Publications* (NTP) consist of descriptive information and procedures.

Descriptive information

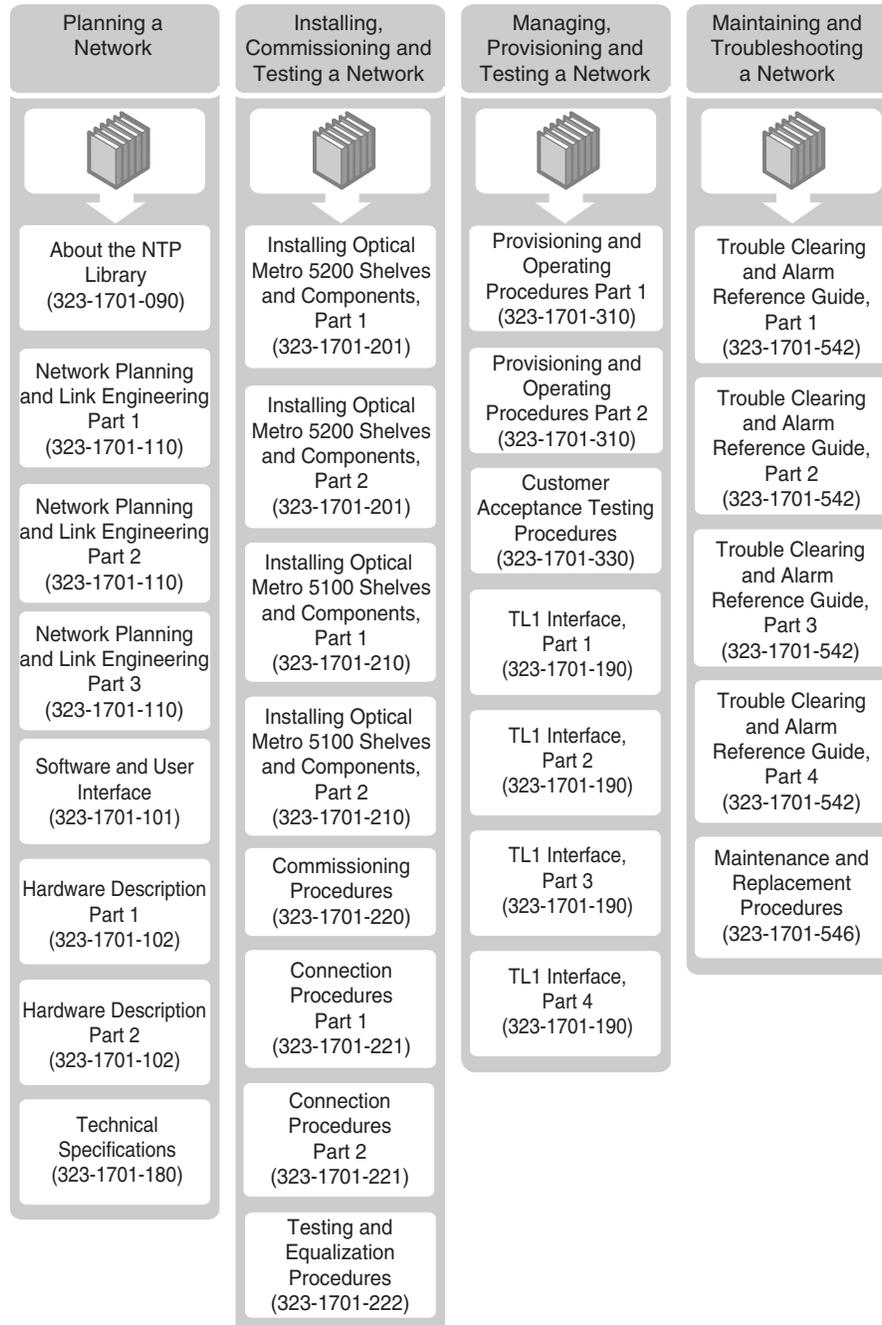
These NTPs provide detailed descriptive information about the Optical Metro 5100/5200, including system software and hardware descriptions, technical specifications, ordering information, and TL1 user information.

Procedures

These NTPs contain all procedures required to install, provision, and maintain the Optical Metro 5100/5200.

The following roadmap lists the documents in the Optical Metro 5100/5200 library.

OM2805p



Technical assistance service telephone numbers

For technical support and information from Nortel Networks, refer to the following table.

Technical Assistance Service	
For service-affecting problems: For 24-hour emergency recovery or software upgrade support, that is, for: <ul style="list-style-type: none">• restoration of service for equipment that has been carrying traffic and is out of service• issues that prevent traffic protection switching• issues that prevent completion of software upgrades	North America: 1-800-4NORTEL (1-800-466-7835) International: 001-919-992-8300
For non-service-affecting problems: For 24-hour support on issues requiring immediate support or for 14-hour support (8 a.m. to 10 p.m. EST) on upgrade notification and non-urgent issues.	North America: 1-800-4NORTEL (1-800-466-7835) Note: You require an express routing code (ERC). To determine the ERC, see our corporate Web site at www.nortel.com . Click on the Express Routing Codes link. International: Varies according to country. For a list of telephone numbers, see our corporate Web site at www.nortel.com . Click on the Contact Us link.
Global software upgrade support:	North America: 1-800-4NORTEL (1-800-466-7835) International: Varies according to country. For a list of telephone numbers, see our corporate Web site at www.nortel.com . Click on the Contact Us link.

Alarm and event commands

This chapter is an alphabetical summary of all TL1 commands related to alarms and events. The command descriptions in this chapter identify each command, and describe the command purpose, syntax, variables, and response.

For information about clearing Optical Metro 5100/5200 alarms, refer to the *Trouble Clearing and Alarm Reference Guide*, 323-1701-542.



CAUTION

Mismatch between TL1 and System Manager (SMI) alarms

TL1 standards do not distinguish between intermittent and active alarm states. Both states are reported as active alarms in TL1, while the System Manager (SMI) displays them as intermittent or active alarms.

Commands in this chapter

Table 11-1 lists the alarm, event, and external control commands in this chapter.

Table 11-1

Alarm, event and external control commands

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ALW-DBREPT-ALL (allow database change reporting)

Use the ALW-DBREPT-ALL command to allow database change (DBCHG) message reporting. Admin class user enables both security and non-security DBCHG messages. Non-admin class users enables only non-security DBCHG messages. Observer class user enables, by default, non-security DBCHG messages.

Security level

Level 1

Input syntax

ALW-DBREPT-ALL: [TID] : [<AID>] : [CTAG] ;

Table 11-2
ALW-DBREPT-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	Unused	Unused
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

ALW-MSG-ALL (allow messages)

Use the ALW-MSG-ALL command to allow alarms, and events messages to be sent from the NE specified by the TID. If TID is blank, messages are enabled from the current NE.

The ALW-MSG-ALL command instructs the network element to resume previously inhibited autonomous reporting of alarm messages: REPT ALM, REPT ALM ENV, and REPT EVT. When a TL1 session begins (for an Admin or Operator user), these messages are disabled by default. For an Observer user, these messages are enabled by default.

Automatic messages resume toward any operations system designated to receive these messages. The INH-MSG-ALL command inhibits these messages.

Security level

Level 1

Input syntax

ALW-MSG-ALL: [TID] : [<aid>] : [CTAG] :: [<ntfcode>] , [<condtype>] , [<tmper>] ;

Table 11-3
ALW-MSG-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	Unused	Unused
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFCODE	Notification code	Unused	Unused
CONDTYPE	Condition type	Unused	Unused
TMPER	Time period	Unused	Unused

Example input

Allow autonomous messages from the network element CHICAGO:

```
ALW-MSG-ALL:CHICAGO::142;
```

ALW-MSG-SECU (allow messages security)

Use the ALW-MSG-SECU command to allow security-specific alarms and events to be sent from the NE specified by the TID. If TID is blank, messages are enabled from the current NE.

Security level

Level 3

Input syntax

```
ALW-MSG-SECU: [TID] :: [CTAG] :: [<secualmtype>];
```

Table 11-4

ALW-MSG-SECU input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
SECUALMTYPE	Security alarm type	Unused	Unused

ALW-UPSN (allow user provisionable slot numbering)

Use the ALW-UPSN command to allow user-provisionable slot numbering on the network element specified by the TID. If the TID is blank, user-provisionable slot numbering is enabled on the current NE.

Security level

Level 1

Input syntax

```
ALW-UPSN: [TID] :: [CTAG];
```

Table 11-5

ALW-UPSN input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

CLR-ALM-SECU (clear alarm security)

Use the CLR-ALM-SECU command to manually clear security alarms.

Security level

Level 3

Input syntax

CLR-ALM-SECU: [TID] :: [CTAG] :: [<secualmtype>] ;

Table 11-6
CLR-ALM-SECU input syntax definitions

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
SECUALMTYPE	Security alarm type	Intrusion A null value is equivalent to ALL	Intrusion A null value is equivalent to ALL

Example input

Clear the Intrusion security alarms raised at network element WASHINGTON.

CLR-ALM-SECU:WASHINGTON::123::INTRUSION;

INH-DBREPT-ALL (inhibit database change reporting)

Use the INH-DBREPT-ALL command to inhibit database change (DBCHG) message reporting.

Security level

Level 1

Input syntax

INH-DBREPT-ALL: [TID] : [<AID>] : [CTAG] ;

Table 11-7
INH-DBREPT-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	Unused	Unused
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

INH-MSG-ALL (inhibit messages all)

The INH-MSG-ALL command prevents alarms and events messages from being sent to the current user including all REPT ALM, REPT ALM ENV, and REPT EVT autonomous messages. You can use this command during maintenance to unclutter the terminal screen. When a TL1 session begins, REPT ALM, REPT ALM ENV, and REPT EVT messages are inhibited by default for the Admin or Operator user. To resume messages, see the ALW-MSG-ALL command.

This command does not have any effect on indicators in the office where the network element resides or on the network element itself.

Security level

Level 1

Input syntax

```
INH-MSG-ALL: [TID] : [<aid>] : [CTAG] :: [<ntfcode>] , [<condtype>] ,
[<tmper>];
```

Table 11-8
INH-MSG-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	Unused	Unused
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFCODE	Notification code	Unused	Unused
CONDTYPE	Condition type	Unused	Unused
TMPER	Time period	Unused	Unused

Example input

Inhibit autonomous messages on network element HALIFAX:

```
INH-MSG-ALL: HALIFAX: : 1234;
```

INH-MSG-SECU (inhibit messages security)

The INH-MSG-SECU command prevents security-related alarms and events from being sent to the current user.

Security level

Level 3

Input syntax

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

Table 11-9
INH-MSG-SECU input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
SECUALMTYPE	Security alarm type type	Unused	Unused

INH-UPSN (inhibit user provisionable slot numbering)

Use the INH-UPSN command to disable user-provisionable slot numbering on the NE specified by the TID. If the TID is blank, user-provisionable slot numbering is disabled on the current NE.

Security level

Level 1

Input syntax

INH-UPSN: [TID] :: [CTAG];

Table 11-10
INH-UPSN input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

OPR-ACO-COM (operate alarm cutoff)

The OPR-ACO-COM command temporarily stops the office audible alarm indications on a network element. The alarm is turned off for the current alarm event only. Any subsequent alarms will result in the audible alarm being turned on again.

Security level

Level 2

Input syntax

OPR-ACO-COM: [TID] :: [CTAG];

Table 11-11
OPR-ACO-COM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Stop the alarm in network element WINDSOR:

```
OPR-ACO-COM:WINDSOR::364;
```

RTRV-ACO-COM (retrieve alarm cutoff)

The RTRV-ACO-COM command retrieves the audible alarm cut-off mode.

Security level

Level 1

Input syntax

```
RTRV-ACO-COM:[TID]::[CTAG];
```

Table 11-12
RTRV-ACO-COM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Retrieve the ACO mode for the network element CALGARY:

```
RTRV-ACO-COM:CALGARY::265;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<acomd>"
;
```

Table 11-13
RTRV-ACO-COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
ACOMD	Alarm cutoff mode	IMED = Immediately turns off the audible alarm when raised (ACO is disabled) MAN = Audible alarm requires user to manually activate the alarm cut off (ACO is enabled)	IMED = Immediately turns off the audible alarm when raised (ACO is disabled) MAN = Audible alarm requires user to manually activate the alarm cut off (ACO is enabled)

Example output

```
CALGARY 98-06-20 14-30-00
M 265 COMPLD
"IMED"
;
```

RTRV-ALM-ALL (retrieve alarms all)

The RTRV-ALM-ALL command generates a report on the current state of all alarm conditions on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-ALL: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-14
RTRV-ALM-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for all the equipment, facility, and comm alarms	ALL = all the equipment and facility AIDs	ALL = all the equipment and facility AIDs
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-14 (continued)
RTRV-ALM-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Table 11-15 lists possible values for the parameter CONDTYPE (condition type).

Table 11-15
Condition type parameters

Value	Type	Description
ADDEQPT	Event	Add Equipment
AIS	Event	Alarm Indication Signal Detected Event A traffic-related defect from another shelf has been detected at the optical receiver of the indicated OCLD.
AIS-BIF	Event	Band Alarm Indication Signal
AIS-OFA	Event	Amplifier Alarm Indication Signal
AIS-P	Event	Path Alarm Indication Signal
AIS-SRM	Event	SRM Port Alarm Indication Signal
AIS-TX	Event	Tx Alarm Indication Signal
AIS-WRP	Alarm	Wrapper Alarm Indication Signal
AIS-WSC	Event	WSC Alarm Indication Signal
ALMCKT	Alarm	Missing or Failed VAC (visual alarm card) The system cannot read the MAC address.
ALROFF	Event	Automatic Laser Recovery Disabled
ALRON	Event	Automatic Laser Recovery Enabled
ALSACT	Alarm	Automatic Laser Shutdown Active
ALSOFF	Event	Automatic Laser Shutdown Disabled
ALSON	Event	Automatic Laser Shutdown Enabled
ALSRACT	Alarm	Remote Automatic Laser Shutdown Active

11-12 Alarm and event commands

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
ALSSUM	Event	ALS Active Laser Summary
APSEPEF	Event	Automatic Path Switch to East path - Equipment Fault
APSEPFOOF	Event	Automatic Path Switch to East path - Facility Out Of Service
APSEPRM	Event	Automatic Path Switch to East path - Remote
APSEPRV	Event	Automatic Path Switch to East path - Revert
APSEPSD	Event	Automatic Path Switch to East path - Signal Degrade
APSEPSF	Event	Automatic Path Switch to East path - Signal Fail
APMISMATCH	Alarm	Auto Provisioning Mismatch The specified circuit pack is installed in a slot type for which it is not provisioned.
APS	Event	Automatic Protection Switch An automatic equipment protection switch has occurred.
APSATO	Alarm	Automatic Protection Switch Acknowledge Timeout
APSB	Alarm	Automatic Protection Switch Byte Failure
APSCM	Alarm	Automatic Protection Switch Channel Match Failure
APSM	Alarm	Automatic Protection Switch Mode Mismatch
APSSM	Alarm	Automatic Protection Switch Scheme Mismatch
APSWPEF	Event	Automatic Path Switch to West path - Equipment Fault
APSWPFOOF	Event	Automatic Path Switch to West path - Facility Out Of Service
APSWPMM	Alarm	Automatic Protection Switch - Working/Protection Fiber Mismatch
APSWPRM	Event	Automatic Path Switch to West path - Remote
APSWPRV	Event	Automatic Path Switch to West path - Revert
APSWPSD	Event	Automatic Path Switch to West path - Signal Degrade
APSWPSF	Event	Automatic Path Switch to West path - Signal Fail
AUTOPROV	Event	Auto Provisioning Event The SP has automatically provisioned the indicated circuit pack with default configuration data.
AUTOSWTOPRI	Event	Automatic Synchronization Switch To Primary reference on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
AUTOSWTOSEC	Event	Automatic Synchronization Switch To Secondary reference on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
BDI	Alarm	Backward Defect Indication
BDM	Event	Bit Disparity Monitored
BER	Alarm	Bit Error Rate Degrade
BID	Event	Band Input Signal Degrade The OCLDs provisioned with the indicated OMX have experienced degraded optical input.
BIF	Alarm	Band Input Failure The optical inputs of the OCLDs are not receiving a signal from the indicated OMX.
BIF-1E	Alarm	Band 1 Input Failure East
BIF-1W	Alarm	Band 1 Input Failure West
BIF-2E	Alarm	Band 2 Input Failure East
BIF-2W	Alarm	Band 2 Input Failure West
BIF-3E	Alarm	Band 3 Input Failure East
BIF-3W	Alarm	Band 3 Input Failure West
BIF-4E	Alarm	Band 4 Input Failure East
BIF-4W	Alarm	Band 4 Input Failure West
BIF-5E	Alarm	Band 5 Input Failure East
BIF-5W	Alarm	Band 5 Input Failure West
BIF-6E	Alarm	Band 6 Input Failure East
BIF-6W	Alarm	Band 6 Input Failure West
BIF-7E	Alarm	Band 7 Input Failure East
BIF-7W	Alarm	Band 7 Input Failure West
BIF-8E	Alarm	Band 8 Input Failure East
BIF-8W	Alarm	Band 8 Input Failure West
BIFMASK	Event	Band Input Failure Alarm Masked
BIFUNMASK	Event	Band Input Failure Alarm Unmasked

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
BIFW	Event	Band Input Failure Warning
BKUPC	Event	Database Backup Completed
BKUPF	Alarm	Database Backup Failure
BKUPI	Event	Database Backup In Progress
BLMAX	Event	APBE Band Set to Maximum Loss
BPSF	Alarm	Backplane Signal Failure
BRKTRIP	Alarm	Breaker A/B Tripped The circuit breaker is tripped.
BROWNOUT	Alarm	Brownout The shelf/OFA has experienced a power brownout.
CHNGERN	Event	Equipment Ring Number Changed
CHNGERNSTA	Event	Change Equipment Ring Number status
CLFAN	Alarm	Cooling Unit Failed/Missing
CLKCHAPRI	Event	Primary Synchronization Reference Clock Changed on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKCHASEC	Event	Secondary Synchronization Reference Clock Changed on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKDEPROVPRI	Event	Primary Synchronization Reference Clock Deprovisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKDEPROVSEC	Event	Secondary Synchronization Reference Clock Deprovisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKNOTPROV	Alarm	Synchronization Reference Clocks Not Provisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKNOTPROVPRI	Alarm	Primary Synchronization Reference Clock Not Provisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE
CLKNOTPROVSEC	Alarm	Secondary Synchronization Reference Clock Not Provisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKPROVPRI	Event	Primary Synchronization Reference Clock Provisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.
CLKPROVSEC	Event	Secondary Synchronization Reference Clock Provisioned on SONET/SDH SRM OCI or SONET/SDH SRM OCI LTE.

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
CMNTY	Event	SNMP Community Name Changed for admin, operator or observer class
COLDRESTART	Event	Circuit Pack Cold Restart The indicated circuit pack has been manually restarted.
CONTBUS	Alarm	SBUS failure
CRPTDATA	Event	Corrupted Data
CSM	Alarm	Client Service Mismatch
CTNEQPT	Alarm	Inter-card Communication Failure Communications between the SP card and the indicated card have terminated.
DB1OOS	Alarm	Database Redundancy is Unavailable
DB2OOS	Alarm	All Database Copies are Unavailable
DBMEMTRF	Alarm	Database Recovery Failure The SP has failed to recover configuration data from the OCM(s).
DBSTA	Event	Database agent started
DLTCID	Event	End-to-End Channel Assignment ID Deleted
DLTEQPT	Event	Delete Equipment
DUPLERN	Alarm	Duplicated equipment ring number
EDCID	Event	End-to-End Channel Assignment ID Modified
EFEW	Event	Expected far end wavelength
ENETACC		Ethernet Port 2 access control filter, encrypt or disabled
ENTCID	Event	End-to-End Channel Assignment ID Created
EnvironmentCondition	Alarm	Parallel Telemetry Scan points 1-8
EQCOMPL	Event	Band Equalization Completed
EQPT	Alarm	Circuit Pack Failed The indicated circuit pack has had an equipment failure.
EQPT-FAIL	Alarm	Circuit Pack Failed - Pluggable
EQPT-ICSUS	Alarm	Inter-card Communication Failure - Pluggable
EQPT-INCMPPROV	Alarm	Incompatible Provisioning - Pluggable

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
EQPT-INSERTED	Alarm	Circuit Pack Inserted - Pluggable
EQPT-MISMATCH	Alarm	Circuit Pack Mismatch - Pluggable
EQPT-MISSING	Alarm	Circuit Pack Missing - Pluggable
EQPT-REMOVED	Alarm	Circuit Pack Removed - Pluggable
EQPT-UNKNOWN	Alarm	Circuit Pack Unknown - Pluggable
EQPTSWOCMA	Event	Equipment Switch to OCM A Traffic has been switched to OCM in slot 9.
EQPTSWOCMB	Event	Equipment Switch to OCM B Traffic has been switched to OCM in slot 10.
EQPTW	Alarm	Circuit Pack Failed Warning
FACTERM	Alarm	SRM Port Failure
FECRF	Alarm	Far End Client Rx Signal Failure
FEPRLF	Alarm	Far End Protection Line Failure
FFERR	Event	Flash File Error
FFLOCK	Event	Flash File Locked
FFRF	Event	Flash File System Reformatted The flash file system has been reformatted.
FMISMATCH	Alarm	Fiber Mismatch
FMISMATCH-EW	Alarm	East/West Fiber Mismatch
FRCDSWOCMA	Event	Forced Switch to OCM 9
FRCDSWOCMB	Event	Forced Switch to OCM 10
FRCDWKSOCMA	Alarm	Forced Working Switch to OCM 9
FRCDWKSOCMB	Alarm	Forced Working Switch to OCM 10
FRCDWKSWPR	Alarm	Forced Path Switch
FSMFS	Alarm	Fault Sectionalization Multiple Faults Suspected
FTPBIG	Event	FTP File Too Big
FTPF	Event	FTP Failed
HBER	Alarm	High Bit Error Rate

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
HBER-Tx	Alarm	Tx High Bit Error Rate
HCC	Event	Health Check Completed
HCF	Event	Health Check Failed
HCI	Event	Health Check In Progress
HIGHOP	Alarm	High Optical Power An optical power overload has been detected at the optical receiver of the indicated circuit pack (does not apply to OCI cards).
HIGHOPW	Alarm	High Optical Power Warning Optical power can exceed the overload threshold at the optical receiver of the indicated circuit pack (not applicable to OCI circuit packs).
HIRFLCT	Alarm	High Reflection
IFSCLR	Event	Clearing Fault Sectionalization Alarms
IFSCLRCOMPL	Event	Clearing Fault Sectionalization Alarms Completed
IFSCOM	Alarm	Intra-site Fault Sectionalization Communication failure
IFSNERMV	Event	Shelf Removed from Intra-site Fault Sectionalization
IFSOFF	Event	Intra-site Fault Sectionalization Feature Disabled
IFSON	Event	Intra-site Fault Sectionalization Feature Enabled
IFSRFI	Alarm	Remote Fault Sectionalization Not Responding
ILC	Alarm	Insufficient Link Capacity
INCOMPLERN	Event	Incompatible Equipment Ring Number
INCOMPLPROV	Alarm	Incomplete Provisioning
INSERT	Event	Circuit pack Inserted A circuit pack has been inserted into a slot.
INTRUSION	Alarm	Intrusion attempt detected
INVDATA	Alarm	Invalid Data
INVPROV	Alarm	Invalid Provisioning
INVSIGN	Alarm	Invalid Signal
INVSIGN-OSC	Alarm	OSC Invalid Signal

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
INVSIGN-R	Alarm	Remote Invalid Signal
LANLINK	Alarm	LAN Link Down
LASERACT	Event	Laser Activated
LFD	Alarm	Loss of Frame Delineation
LFLT	Alarm	Local Fault
LFLT-TX	Alarm	Tx Local Fault
LOA	Alarm	Loss of Activity
LOALIGN	Alarm	Loss of Alignment
LOCKOUTOFPR	Alarm	Lockout of Protection Switch
LOF	Alarm	Loss of Frame
LOF-OSC	Alarm	OSC Loss of Frame
LOF-R	Alarm	Remote Loss of Frame
LOF-TX	Alarm	Tx Loss of Frame
LOF-WRP	Alarm	Wrapper Loss of Frame
LOGIN	Event	Login request
LOGIN-FAILED	Event	Login Failed attempt
LOGOUT	Event	Logout request
LOL	Alarm	Loss of Lock The receiver of the indicated circuit pack cannot lock on the data stream from the optical input signal.
LOLNK	Alarm	Loss of Link
LOM	Alarm	Loss of Multiframe
LOP	Alarm	Loss of Pointer
LOS	Alarm	Loss of Signal There is no signal at the input of the optical receiver of the indicated circuit pack.
LOS-OSC	Alarm	OSC Loss of Signal
LOS-R	Alarm	Remote Loss of Signal
LOSMASK	Event	Loss of Signal Masked

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
LOSUNMASK	Event	Loss of Signal Unmasked
LOSYNC	Alarm	Loss of Synchronization
LOSYNC-Tx	Alarm	Tx Loss of Synchronization
LOWOP	Alarm	Low Optical Power
LOWOPW	Alarm	Low Optical Power Warning Optical power has fallen below the degrade threshold at the optical receiver of the indicated circuit pack.
LPBKFACILITY	Alarm	Facility Loopback The data stream being received at the optical receiver of the indicated circuit pack is being looped back through its optical transmitter.
LPBKTERM	Alarm	Terminal Loopback The data stream on the backplane receiver of the indicated circuit pack is being looped back on the backplane.
LSROUTDGR	Alarm	Tranceiver Degrade The laser on the indicated circuit pack is beginning to fail. The circuit pack is still operating within an acceptable performance range but must be replaced.
MANSWEAST	Event	Manual Switch to East path
MANSWOCMA	Event	Manual Switch to OCM 9
MANSWOCMB	Event	Manual Switch to OCM 10
MANSWTOPRI	Event	Manual Synchronization Switch to Primary Reference on OCI SRM SONET/SDH or OCI SRM SONET/SDH LTE
MANSWTOSEC	Event	Manual Synchronization Switch to Secondary Reference on OCI SRM SONET/SDH or OCI SRM SONET/SDH LTE
MANSWWEST	Event	Manual Switch to West path
MANWKSWEAST	Event	Manual Switch to East path active
MANWKSWPR	Event	Manual Switch to Protection
MANWKSWEST	Event	Manual Switch to West path active
MAXEVT	Event	Max Event

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
MISMATCH	Alarm	Circuit pack, Optical tray or Equipment Inventory Unit Mismatch This alarm is raised for one of the following reasons: <ul style="list-style-type: none"> • the indicated hardware is in a slot provisioned for another type of hardware/equipment • the two OCMs are mismatched, such as one OCM is 1.25 G/bits and the other is 2.5 Gbit/s • the indicated OMX does not match the OMX provisioned for the specified direction
MISMATCHDNS	Event	DNS Suffix Mismatch
MISMATCHERN	Alarm	Equipment Ring Number Mismatch
MUX	Alarm	SRM Port Mapping Fault
NET	Alarm	Ethernet port 10Base-T 1X/2X Failure The specified 10Base-T Ethernet input has failed.
NILALARM		Invalid or Nil Alarm
NILEVT	Event	Nil Event
NORESP	Event	No Response SP could not communicate with this hardware.
OHFAIL	Alarm	Overhead Channel Link Failure
OHFAIL-E	Alarm	East Overhead Channel Link Failure
OHFAIL-ER	Alarm	East Remote Overhead Channel Link Failure
OHFAIL-W	Alarm	West Overhead Channel Link failure
OHFAIL-WR	Alarm	West Remote Overhead Channel Link Failure
OHFRMERR	Event	Overhead Channel Invalid Frame Code Error
OHINVCODE	Event	Overhead Channel Invalid Code Error N coding errors have been detected on the indicated overhead channel during a 1 second period.
OHSYNCLLOSS	Alarm	Loss of Overhead Channel Synchronization
OPRH	Alarm	Optical Power Receive High - TCA
OPRL	Alarm	Optical Power Receive Low - TCA
OPSTATIS	Event	Facility/Equipment Administrative State changed to IS

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
OPSTATOOS	Event	Operational State changed to OOS
OPTH	Alarm	Optical Power Transmit High - TCA
OPTL	Alarm	Optical Power Transmit Low - TCA
OROVLD	Alarm	Optical Receiver Overload
ORXDGR	Alarm	Optical Receiver Degrade
OSFOOS	Alarm	Optical Signal Failure - Facility Out Of Service
OSFR	Alarm	Optical Signal Failure Rx
OSFT	Alarm	Optical Signal Failure Tx
OTXDGR	Alarm	Optical Transmitter Degrade
PATHPROTNA	Alarm	Path Protection Not Available
PATHSWEAST	Event	Automatic Path Switch to East Traffic has been automatically switched to the east path.
PATHSWWEST	Event	Automatic Path switch to West Traffic has been automatically switched to the west path.
PFEAST	Alarm	Forced Switch to East path
PFWEST	Alarm	Forced Switch to West path
PLM	Alarm	Payload Label Mismatch
PLOCK	Alarm	Path Lockout
PMTMF	Alarm	Performance Monitoring Timer Failed
PROTNA	Alarm	Protection Not Available
PWR	Alarm	Power feed A/B Low/Missing There is low power or no power feed connected to the breaker.
PWROORH	Alarm	Power Out of Range High
PWROORL	Alarm	Power Out of Range Low
RADIUSPU	Alarm	Primary Radius Server Unavailable
RADIUSSU	Alarm	Secondary Radius Server Unavailable
RADIUSU	Alarm	Radius Server(s) Unavailable
RDI	Alarm	Remote Defect Indication

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
RDI-GFP	Alarm	GFP Remote Defect Indication
RDISA	Alarm	Remote Defect Indication - Service Affecting
REMOVE	Event	Circuit pack removed A circuit pack has been removed from its slot.
REPLUNITMISS	Alarm	Circuit pack, OMX, Optical tray or Equipment Inventory Unit missing The circuit pack provisioned for the indicated slot is missing. The provisioned OMX is missing for the indicated direction.
RESTART	Event	Card Restart The indicated circuit pack has restarted.
RFLT	Alarm	Remote Fault
RFLT-TX	Alarm	Tx Remote Fault
RFN	Event	Remote Fault Notification (enable/disable)
RSTC	Event	Restore Completed
RSTCANC	Event	Restore Cancel Completed
RSTCANF	Event	Restore Cancel Failed
RSTCMTC	Event	Restore Commit Completed
RSTCMTF	Event	Restore Commit Failed
RSTF	Alarm	Restore Failed
RSTI	Event	Restore In Progress
RTCLK	Event	Real Time Clock
RXINVSIGN	Alarm	Invalid RX Signal The signal received from the optical input signal has faults or is invalid.
SD	Alarm	Signal Degrade
SF	Alarm	Signal Failure
SIF	Alarm	Shelf Input Failure
SITEIF	Alarm	Site Input Failure
SQM	Alarm	Loss of Sequence
SSMDPRI	Event	Sync Status Messaging Degraded Primary

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
SSMDSEC	Event	Sync Status Messaging Degraded Secondary
SUMAIS	Alarm	Summary Alarm Indication Signal
SUMLOP	Alarm	Summary Loss of Pointer
SUMPLM	Alarm	Summary Payload Label Mismatch
SUMRDI	Alarm	Summary Remote Defect Indication
SUMTCA-1DAY	Alarm/Event	Summary TCA 1 day
SUMTCA-1DAY	Alarm/Event	Summary TCA 1 day
SUMUEQ	Alarm	Summary Unequipped
SWFTDWN	Event	Software Download In Progress
SWLOAD	Alarm	Software Load Missing There is no software library available for a software generic upgrade.
SWLOADBELOW	Alarm	Software Below Baseline
SWLOADCHKSUM	Event	Software Load Checksum
SWLOADE	Event	Software Load Missing or Not Existing
SWLOADHINV	Event	Software Load Header Invalid
SWLOADMISMATCH	Event	Software Load Mismatch
SWLOADREM	Event	Software Distributed Loads Removed
SWLOADTRF	Event	Software Load Transfer from NE/server Incomplete
SWT	Event	Software Error
SWTOFREERUN	Event	Reference Clock Switch to Freerun mode
SWTONHOLDOVER	Event	Reference Clock Switch to Holdover mode
SWTONSA	Event	Switch to NSA severity
SWTOSA	Event	Switch to SA severity
SYNC	Alarm	Loss of Timing Reference
SYNCOOS	Alarm	Loss of Timing on both Primary and Secondary References on SONET/SDH SRM OCI AND SONET/SDH SRM OCI LTE.
SYNCPRI	Alarm	Loss of Timing on Primary Synchronization Reference on SONET/SDH SRM OCI AND SONET/SDH SRM OCI LTE.

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
SYNCSEC	Alarm	Loss of Timing on Secondary Synchronization Reference on SONET/SDH SRM OCI AND SONET/SDH SRM OCI LTE.
T-CV	PM Event	TCA-Coding Violation - non-standard
T-CV-LFE	PM Event	TCA-Coding Violation - Line Far-End
T-CV-PFE	PM Event	TCA-Coding Violation - Path Far-End
T-CVL	PM Event	TCA-Coding Violation - Line
T-CVP	PM Event	TCA-Coding Violation - Path
T-CVS	PM Event	TCA-Coding Violation - Section (SONET)
T-EB-LFE	PM Event	TCA-Errored Bytes - Lne Far-End
T-EB-PFE	PM Event	TCA-Errored Bytes - Path Far-End
T-EBL	PM Event	TCA-Errored Bytes - Line
T-EBP	PM Event	TCA-Errored Bytes - Path
T-EBS	PM Event	TCA-Errored Bytes - Section (SDH)
T-ES	PM Event	TCA-Errored Seconds - non-standard
T-ES-LFE	PM Event	TCA-Errored Seconds - Line Far-End
T-ES-PFE	PM Event	TCA-Errored Seconds - Path Far-End
T-ESL	PM Event	TCA-Errored Seconds - Line
T-ESP	PM Event	TCA-Errored Seconds - Path
T-ESS	PM Event	TCA-Errored Seconds - Section
T-FC	PM Event	TCA-Failure Count - non-standard
T-FEC-CE	PM Event	TCA-Forward Error Correction - Corrected Errors - non-standard
T-FEC-UF	PM Event	TCA-Forward Error Correction - Uncorrected Frames - non-standard
T-OFSS	PM Event	TCA-Out of Frame Second - Section (SDH)
T-SEFS	PM Event	TCA-Severely Errored Frame Second - non-standard
T-SEFSS	PM Event	TCA-Severely Errored Frame Second - Section (SONET)
T-SES	PM Event	TCA-Severely Errored Second - non-standard
T-SES-LFE	PM Event	TCA-Severely Errored Second - Line Far-End

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
T-SES-PFE	PM Event	TCA-Severely Errored Second - Path Far-End
T-SESL	PM Event	TCA-Severely Errored Second - Line
T-SESP	PM Event	TCA-Severely Errored Second - path
T-SESS	PM Event	TCA-Severely Errored Seconds - Section (SONET/SDH)
T-UAS	PM Event	TCA-Unavailable Seconds - non-standard
T-UAS-LFE	PM Event	TCA-Unavailable Seconds - Line Far-End
T-UAS-PFE	PM Event	TCA-Unavailable Seconds - Path Far-End
T-UASL	PM Event	TCA-Unavailable Seconds - Line
T-UASP	PM Event	TCA-Unavailable seconds - Path
T-UASS	PM Event	TCA-Unavailable seconds - Section (SONET/SDH)
TELOPR	Event	Parallel Telemetry Output Operated
TELREL	Event	Parallel Telemetry Output Released
TEMP	Alarm	Temperature Out of Range The shelf and OFA temperature significantly exceeds the expected operating range.
TEMPW	Alarm	Temperature Out of Range Warning The shelf temperature is outside the normal operating range.
TPWRNAH	Alarm	Target Power Not Attainable High
TPWRNAL	Alarm	Target Power Not Attainable Low
TXINVSIGN	Alarm	Tx invalid signal
TXINVSIGN-10	Alarm	Tx invalid signal on slot #10
TXINVSIGN-9	Alarm	Tx invalid signal on slot #9
UBOUTC	Event	Upgrade Backout Completed
UBOUTF	Event	Upgrade Backout Failure
UBOUTI	Event	Upgrade Backout In Progress
UBOUTS	Event	Upgrade Backout Started
UCANCC	Event	Upgrade Cancel Completed
UCANCF	Event	Upgrade Cancel Failure
UCANCI	Event	Upgrade Cancel In Progress

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
UCANCS	Event	Upgrade Cancel Started
UCMMTC	Event	Upgrade Commit Completed
UCMMTF	Event	Upgrade Commit Failure
UCMMTI	Event	Upgrade Commit In Progress
UCMMTS	Event	Upgrade Commit Started
UDISTC	Event	Upgrade Distribute Completed
UDISTF	Event	Upgrade Distribute Failure
UDISTI	Event	Upgrade Distribute In Progress
UDISTS	Event	Upgrade Distribute Started
UNASGNERN	Alarm	Unassigned Equipment Ring Number
UNEQ	Alarm	Unequipped
UNEQRP	Alarm	Unequipped or OOS Remote Port
UNKNOWN	Alarm	Circuit pack Unknown The system cannot determine the type of circuit pack installed in the indicated slot.
UPGRD	Event	Circuit pack Upgraded/Downgraded successfully
UPGRDF	Event	Circuit pack Upgrade/Downgrade Failed
UPWRCHNG	Alarm	Unexpected Input Power Change
URESTC	Event	Upgrade Restart Completed
URESTF	Event	Upgrade Restart Failure
URESTI	Event	Upgrade Restart In Progress
URESTS	Event	Upgrade Restart Started
USERLEVT	Event	EMS Event
USERREQ	Event	User Request
WARMRESTART	Event	Circuit Pack Warm Restart The indicated circuit pack has been restarted using the System Manager.

Table 11-15 (continued)
Condition type parameters

Value	Type	Description
WCV	Event	Wavelength Consistency Validation
WKSWPR	Alarm	Working path Switch to Protection
WTR	Event	Wait to restore timer start/cancelled or expired

Example input

Retrieve all the major alarms reported on the NE:

```
RTRV-ALM-ALL::all:123::MJ,,NSA,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<AID>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description>,<aidet>,<obsdbhvr>:<dgntype>,<tblislt>:[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-16
RTRV-ALM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for all the equipment facility and comm alarms	APBE, OCLD, OCI, OCM, OFA, OMX, OTR, MOTR, MOTRSFP, GFSRM, SRM equipment For equipment AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17	OCLD, OCI, OMX, OTR, MOTR, MOTRSFP, GFSRM, SRM equipment For equipment AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	APBE COM EQPT OCI OCLD OFA OMX OSC WSC OTR MOTR MOTRSFP OHCHN SPLT GFSRM SRM	COM EQPT OCI OCLD OSC OTR MOTR MOTRSFP WSC OHCHN SPLT GFSRM SRM OMX
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTEM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end

Table 11-16 (continued)
RTRV-ALM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Character string	Character string

Table 11-16 (continued)
RTRV-ALM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm

Table 11-16 (continued)
RTRV-ALM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x=10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x=10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x=10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x=10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-44 02-02-21 01:50:45
M 0 COMPLD
"MOTR-5,EQPT:MJ,REPLUNITMISS,NSA,11-24,21-42-26,,NA:\"Circuit
Pack Missing\",, :000000-0000-0001, :SUBCARDTYPE=\"10.7GB
Transparent DWDM 200GHz\", YEAR=2004"
"PWRF-B,EQPT:MJ,PWR,NSA,11-24,21-41-35,,NA:\"Power Feed B
Low/Missing\",, :000000-0000-0091, :YEAR=2004"
",COM:MJ,INTRUSION,NSA,12-02,03-43-05,,NA:\"Intrusion
Attempt\",, :000000-0000-0336, :YEAR=2004"
;
```

RTRV-ALM-APBE (retrieve alarm APBE)

The RTRV-ALM-APBE command retrieves the active APBE alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-APBE: [TID] : <AID> : [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [tmper] ;
```

Table 11-17
RTRV-ALM-APBE input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused

Example input

Retrieve alarms reported on the APBE facility:

```
RTRV-ALM-APBE: BRAMPTON: : ABC123 ;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>],
[<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype
>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;

```

Table 11-18
RTRV-ALM-APBE output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	APBE
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximim 64 characters
AIDDET	Access identifier detection	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable

Table 11-18 (continued)
RTRV-ALM-APBE output syntax definition

Parameter	Description	Possible values (5200)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused
SUBCARDTYPE	Sub card type value	Unused
SIGLAYER	Signal and layer information	Character string
YEAR	Year when the alarm occurred	Integer

Example output

```
BRAMPTON 02-01-21 04:27:41
M ABC123 COMPLD
"2-1,APBE:CR,LOS,SA,01-21,04-26-09,FEND,ZA:\ "Loss of
Signal\","
"2-1,APBE:MN,HIGHOPW,NSA,01-21,04-26-37,NEND,ZA:\ "High Optical
Power warning\","
```

RTRV-ALM-COM (retrieve alarm communication)

The RTRV-ALM-COM command retrieves the active communication alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-COM: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [<condtype>] ,
 [<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-19
RTRV-ALM-COM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	ALL	ALL
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the state of alarms on network element DUNBOGAN:

```
RTRV-ALM-COM:OM5000-1-44::359;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<AID>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>
,<locn>] , [<dirn>]:<description>,[<aiddet>],[<obsdbhvr>]:
```

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```
[<dgntype>] , [<tblislt>] : [SUBCARDTYPE=<subcardtype>] ,
[SIGLAYER=<siglayer>] , [YEAR=<year>] "
;
```

Table 11-20
RTRV-ALM-COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	COM	COM
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Unused	Unused

Table 11-20 (continued)
RTRV-ALM-COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Character string	Character string
SUBCARDTYPE	Sub card type value Note: This attribute is visible in OSMINE and OMEA	Unused	Unused
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-44 02-02-21 01:48:16
M 0 COMPLD
",COM:MJ,DBMEMTRF,NSA,02-21,01-47-55,,NA:\"Data Recovery
Failure\",,\"
",COM:MN,SWLOAD,NSA,02-21,01-48-07,,NA:\"Software Library
Missing\",,\"
;
```

RTRV-ALM-EQPT (retrieve alarm equipment)

The RTRV-ALM-EQPT command retrieves the active equipment alarms on the network element.

Security Level

Level 1

Input syntax

```
RTRV-ALM-EQPT: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-21
RTRV-ALM-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for equipment	APBE, ECT, OCLD, OCI, OCM, OFA, OMX, OTR, SP, GFSRM, SRM, MOTR, MOTRSFP equipment For equipment AID values see Table 1-5 on page 1-14	ECT, OCLD, OCI, OMX, OSC, OTR, SP, GFSRM, SRM, MOTR, MOTRSFP equipment For equipment AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve major NSA equipment alarms reported on the MOTR in slot 3, in the receive direction:

```
RTRV-ALM-EQPT::MOTR-3:vero::MJ,,NSA,NEND,ZA,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description>,<aiddet>,"
```

```
[<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-22
RTRV-ALM-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	APBE, ECT, OCLD, OCI, OCM, OFA, OMX, OTR, SP, GFSRM, SRM, MOTR, MOTRSFP equipment ALL=All equipment AIDs For equipment AID values see Table 1-5 on page 1-14	ECT, OCLD, OCI, OMX, OSC, OTR, SP, GFSRM, SRM, MOTR, MOTRSFP equipment For equipment AID values see Table 1-5 on page 1-14
AIDTYPE	Access identifier type	EQPT	EQPT
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 11-22 (continued)
RTRV-ALM-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Character string	Character string

Table 11-22 (continued)
RTRV-ALM-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual

Table 11-22 (continued)
RTRV-ALM-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE		Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Unused	Unused
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-49 02-02-20 23:36:10
M ABC123 COMPLD
"MOTR-3,EQPT:MJ,REPLUNITMISS,NSA,03-03,18-52-46,,NA:\"Circuit
Pack Missing\",, :000000-0000-0001, :SUBCARDTYPE=\"10.7GB GEFC
DWDM 100GHz\", YEAR=2005"
;
```

RTRV-ALM-GFSRM (retrieve alarm GFSRM)

The RTRV-ALM-GFSRM command retrieves the active OCI SRM GbE/FC or OCI SRM GbE alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-GFSRM: [TID] : [<AID>] : [CTAG] : : [<ntfncde>] , [<condtype>] ,
 [<srveff>] , [<locn>] , [<dirn>] , [<tper>] ;
```

Table 11-23
RTRV-ALM-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve all the alarms on the OCI SRM GbE/FC in slot 5:

```
RTRV-ALM-GFSRM: KANSAS: 5-1: 20;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>], [<obsdbhvr>]
]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-24
RTRV-ALM-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	GFSRM	GFSRM
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Table 11-24 (continued)
RTRV-ALM-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
KANSAS 03-03-05 22:10:19
M 20 COMPLD
"5-1,GFSRM:CR,LOS,SA,03-05,22-09-35,NEND,ZA:\\"Loss of
Signal\"," ,,\"GFSRM port 1\""
;
```

RTRV-ALM-MOTR (retrieve alarm MOTR)

The RTRV-ALM-MOTR command retrieves the active MOTR alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-MOTR: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-25
RTRV-ALM-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve all critical alarms raised against the MOTR line-side facility at the Kansas NE:

```
RTRV-ALM-MOTR: KANSAS:ALL:1::CR,,,,;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>], [<obsdbhvr>
]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=
<siglayer>], [YEAR=<year>]"
;

```

Table 11-26
RTRV-ALM-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTR	MOTR
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 11-26 (continued)
RTRV-ALM-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for alarms related to a connection.	Unused	Unused
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-1 04-06-02 15:32:02
M vero COMPLD
"13-11, MOTR: MJ, APSATO, NSA, 06-02, 13-48-00, NEND, ZA: , , "
;
```

RTRV-ALM-MOTRSFP (retrieve alarm MOTRSFP)

The RTRV-ALM-MOTRSFP command retrieves the active MOTRSFP alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-MOTRSFP: [TID]: [<AID>]: [CTAG]: : [<ntfncde>],
 [<condtype>], [<srveff>], [<locn>], [<dirn>], [<timper>];
```

Table 11-27
RTRV-ALM-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve all critical alarms raised against the MOTRSFP client-side facilities at the Kansas NE:

```
RTRV-ALM-MOTRSFP: KANSAS: ALL: 1: : CR, , , , ;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>], [<obsdbhvr>
]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER
R=<siglayer>], [YEAR=<year>]"
;

```

Table 11-28
RTRV-ALM-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTRSFP	MOTRSFP
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 11-28 (continued)
RTRV-ALM-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified	Character string 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
KANSAS 03-03-05 22:20:19
M 1 COMPLD
"12-1,MOTRSFP:CR,LOS,SA,01-12,16-04-44,FEND,ZA:\\"Loss of
Signal\","GE testing\"";
```

RTRV-ALM-OCI (retrieve alarm OCI)

The RTRV-ALM-OCI command retrieves the active OCI alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-OCI : [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-29
RTRV-ALM-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve all critical alarms raised against the OCI circuit packs at the Kansas NE:

```
RTRV-ALM-OCI : KANSAS : ALL : 1 : : CR , , , , , ;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>], [<obsdbhvr>
]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=
<siglayer>], [YEAR=<year>]"
;

```

Table 11-30
RTRV-ALM-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OCI	OCI
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 11-30 (continued)
RTRV-ALM-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
KANSAS 03-03-05 22:20:19
M 1 COMPLD
"12-1,OCI:CR,LOS,SA,01-12,16-04-44,FEND,ZA:\\"Loss of
Signal\"," ,\\"GE testing\\""
;
```

RTRV-ALM-OCLD (retrieve alarm OCLD)

The RTRV-ALM-OCLD command retrieves the active OCLD alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-OCLD: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [<condtype>] ,
 [<srveff>] , [<locn>] , [<dirn>] , [<tmper>] , [<obsdbhvr>] ;
```

Table 11-31
RTRV-ALM-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve all minor alarms reported on the OCLD circuit pack in slot 2:

```
RTRV-ALM-OCLD:OM5000-1-44:2-1:1::MN,,,,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,"
```

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```
<ocrtm>, [<locn>], [<dirn>]:<description>, [<aiddet>],
 [<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype
>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

**Table 11-32
RTRV-ALM-OCLD output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OCLD	OCLD
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Table 11-32 (continued)
RTRV-ALM-OC LD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-44 02-02-21 01:50:12
M 1 COMPLD
"1-1,OC LD:MN,HIGHOP,NSA,02-21,01-49-52,FEND,ZA:\ "High Optical
Power\"," ,,\ "OC-48 testing\ "
;
```

RTRV-ALM-OFA (retrieve alarm OFA)

The RTRV-ALM-OFA command retrieves the active OFA alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-OFA: [TID] :<AID>: [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [<timper>] ;
```

Table 11-33
RTRV-ALM-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused

Example input

Retrieve all alarms reported on the OFA circuit pack in slot 4:

```
RTRV-ALM-OFA:OM5000-1-49:4-1:1::,,,,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description>,<aiddet>,"
```

```
[<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-34
RTRV-ALM-OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OFA
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string

Table 11-34 (continued)
RTRV-ALM-OFA output syntax definition

Parameter	Description	Possible values (5200)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused
SUBCARDTYPE	Sub card type value	High Input Power Standard Variable Gain
SIGLAYER	Signal and layer information	Unused
YEAR	Year when the alarm occurred	Unused

Example output

```
OM5000-1-49 02-02-20 23:34:13
M ABC123 COMPLD
"8-1,OFA:CR,LOS,SA,02-20,23-29-22,FEND,ZA:\"Loss of
Signal\",, "
;
```

RTRV-ALM-OHCHN (retrieve alarm overhead channel facility)

The RTRV-ALM-OHCHN command retrieves the active overhead channel facility alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-OHCHN: [TID]:<AID>: [CTAG]: : [<ntfncde>], [<condtype>],
 [<srveff>], [<locn>], [<dirn>], [<timper>];
```

Table 11-35
RTRV-ALM-OHCHN input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OCLD, OTR, OSC overhead channel	OCLD, OTR, OSC overhead facilities For AID values see Table 1-6 on page 1-17	OCLD, OSC, OTR overhead channel facilities For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve all minor overhead channel alarms at the OM5000-1-1 NE:

```
RTRV-ALM-OHCHN:OM5000-1-1:ALL:1::MN,,,,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description> [<aidet>],
 [<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-36
RTRV-ALM-OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD, OTR, OSC overhead channel facilities	OCLD, OTR, OSC overhead facilities For AID values see Table 1-6 on page 1-17	OCLD, OSC, OTR overhead facilities For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OHCHN	OHCHN
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Table 11-36 (continued)
RTRV-ALM-OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-1 03-03-05 22:20:19
M 1 COMPLD
"15-2-OH-OTR, OHCHN:MN, OHFAIL, NSA, 03-05, 15-15-14, NEND, ZA:
\"Overhead Link Failure\",, \"FC-100\"
"17-1-OH-OCLD, OHCHN:MN, OHFAIL, NSA, 03-05, 16-26-41, NEND, ZA:
\"Overhead Link Failure\",, \"test\"
;
```

RTRV-ALM-OMX (retrieve alarm OMX)

The RTRV-ALM-OMX command retrieves the active OMX alarms on the network element.

Security level

Level 1

Input syntax

RTRV-ALM-OMX: [TID] :<AID>: [CTAG] :: [<ntfncde>] , [<condtype>] , [<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;

Table 11-37
RTRV-ALM-OMX input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OMX facility	OMX facilities For AID values see Table 1-6 on page 1-17	OMX facilities For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-37 (continued)
RTRV-ALM-OMX input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve alarms reported on either OMX (DIRN = null):

```
RTRV-ALM-OMX:OM5000-1-1:ALL:1:,,,NEND,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description>,<aiddet>,<obsdbhvr>:<dgntype>,<tblislt>:[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-38
RTRV-ALM-OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OMX facility	OMX facilities For AID values see Table 1-6 on page 1-17	OMX facilities For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OMX	OMX
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-38 (continued)
RTRV-ALM-OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string	Character string
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 11-38 (continued)
RTRV-ALM-OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string CWDM DWDM 200GHz ITU CWDM	Character string CWDM DWDM 200GHz ITU CWDM
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
OM5000-1-44 02-02-21 01:43:12
M 0 COMPLD
"WEST-OMX-1-OTS,OMX:CR,OSFT,SA,02-21,01-41-53,NEND,AZ:\\"Optical
Signal Failure Tx\"," , , "
"EAST-OMX-8-THRU,OMX:CR,OSFR,SA,02-21,01-40-26,NEND,ZA:\\"Optic
al Signal Failure Rx\"," , , "
;
```

RTRV-ALM-OSC (retrieve alarm OSC)

The RTRV-ALM-OSC command retrieves the active OSC alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-OSC: [TID] : <AID> : [CTAG] :: [<ntfncde>] , [<condtype>] , [<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-39
RTRV-ALM-OSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Facility Access identifier on OSC	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor

Table 11-39 (continued)
RTRV-ALM-OSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the alarms for the east OSC facility at the Montreal NE.

```
RTRV-ALM-OSC:MONTREAL:20-EAST-OSC:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>],
[<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-40
RTRV-ALM-OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OSC facilities For AID values see Table 1-6 on page 1-17	OSC facilities For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OSC	OSC
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .

Table 11-40 (continued)
RTRV-ALM-OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 11-40 (continued)
RTRV-ALM-OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
MONTREAL 01-06-03 22:15:43
M 1234 COMPLD
"20-EAST-OSC, OSC:MN, LOS, NSA, 06-03, 22-14-40, FEND, AZ:\ "Loss of
Signal\"," , , " ;
```

RTRV-ALM-OTR (retrieve alarm OTR)

The RTRV-ALM-OTR command retrieves the active OTR alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-OTR: [TID] :<AID>: [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn> , [<tmper>] ;
```

Table 11-41
RTRV-ALM-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OTR facilities For AID values see Table 1-6 on page 1-17	OTR facilities For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-41 (continued)
RTRV-ALM-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the alarms for the OTR facility in slot 7 at the Montreal NE.

```
RTRV-ALM-OTR:MONTREAL:7-1:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description>,<aiddet>,<obsdbhvr>:<dgntype>,<tblislt>:[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-42
RTRV-ALM-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OTR facilities For AID values see Table 1-6 on page 1-17	OTR facilities For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OTR	OTR
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-42 (continued)
RTRV-ALM-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 11-42 (continued)
RTRV-ALM-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```

MONTREAL 03-02-21 01:45:48
M 1234 COMPLD
"3-1,OTR:MN,HIGHOP,NSA,02-21,01-45-13,FEND,ZA:\"High Optical
Power\",,\"OTR flex - OC-12\""
"3-2,OTR:MN,HIGHOP,NSA,02-21,01-45-35,FEND,ZA:\"High Optical
Power\",,\"OTR flex - OC-12\""
;

```

RTRV-ALM-SECU (retrieve alarm security)

Use the RTRV-ALM-SECU command to retrieve security alarms.

Security level

Level 3

Input syntax

```
RTRV-ALM-SECU: [TID] : [<AID>] : [CTAG] ;
```

Table 11-43
RTRV-ALM-SECU input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access Identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Output syntax

SID DATE TIME

M CTAG COMPLD

" [<aid>], [<secualmtype>], [<descr>]: [<ntfncde>], [<ntftype>], [<msg>], <ocrdat>, <ocrtm>: [DGNTYPE=<dgntype>], [YEAR=<year>]

Table 11-44
RTRV-ALM-SECU output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	TID of the network element.	Character string	Character string
SECUALMTYPE	Security alarm type	INTRUSION RADIUSPU RADIUSSU RADIUSU	INTRUSION RADIUSPU RADIUSSU RADIUSU
DESCR	Description of alarm	Unused	Unused
NTFNCDE	Alarm severity	CR MJ MN CL	CR MJ MN CL
NTFTYPE	Notification type	MESSAGE	MESSAGE
ROUTE	Destination port or channel of alarm	Unused	Unused
MSG	Message of alarm		
OCRDAT	Date of alarm occurrence	YY-MM-DD, where YY = year MM = month DD = date	YY-MM-DD, where YY = year MM = month DD = date

Table 11-44 (continued)
RTRV-ALM-SECU output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Time of alarm occurrence	HH-MM-SS, where HH = hour MM = minutes SS = seconds	HH-MM-SS, where HH = hour MM = minutes SS = seconds
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer

RTRV-ALM-SPLT (retrieve alarm SPLT)

The RTRV-ALM-SPLT command retrieves the active OSC tray and C/L splitter/coupler alarms on the network element.

Security level

Level 1

Input syntax

RTRV-ALM-SPLT: [TID] : <AID> : [CTAG] :: [<ntfncde>] , [<condtype>] ,
 [<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;

Table 11-45
RTRV-ALM-SPLT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17
		OSC splitter coupler facility For AID values see Table 1-6 on page 1-17	OSC splitter coupler facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Table 11-45 (continued)
RTRV-ALM-SPLT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve alarms reported on the OSC splitter facility at the Brampton NE:

```
RTRV-ALM-SPLT:BRAMPTON::ABC123;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]: <description>, [<aiddet>],
[<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>
], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-46
RTRV-ALM-SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17
		OSC splitter coupler facility For AID values see Table 1-6 on page 1-17	OSC splitter coupler facility For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	SPLT	SPLT

Table 11-46 (continued)
RTRV-ALM-SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11.	Refer to Table 11-15 on page 11-11.
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string	Character string
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999

Table 11-46 (continued)
RTRV-ALM-SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string W-Spltr 1310nm	Character string W-Spltr 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
BRAMPTON 03-01-03 09:49:57
M ABC123 COMPLD
"WEST-1-OSCSPLT-OTS,SPLT:CR,OSFR,SA,02-21,01-38-04,NEND,ZA:\\"O
ptical Signal Failure Rx\","
"EAST-1-OSCSPLT-OTS,SPLT:CR,OSFT,SA,02-21,01-37-32,NEND,AZ:\\"O
ptical Signal Failure Tx\","
"WEST-1-CNLSPLT-OTS,SPLT:CR,OSFT,SA,02-21,01-37-47,NEND,AZ:\\"O
ptical Signal Failure Tx\","
"WEST-1-CNLSPLT-OTS,SPLT:CR,OSFR,SA,02-21,01-38-17,NEND,ZA:\\"O
ptical Signal Failure Rx\","
;
```

RTRV-ALM-SRM (retrieve alarm SRM)

The RTRV-ALM-SRM command retrieves the active SRM alarms on the network element.

Security level

Level 1

Input syntax

```
RTRV-ALM-SRM: [TID] :<AID>: [CTAG] :: [<ntfncde>] , [<condtype>] ,
[<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;
```

Table 11-47
RTRV-ALM-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve alarms reported for all ports on the SONET/SDH SRM OCI in slot 14. Retrieve only alarms with condition type “severely errored seconds” and in the Rx direction:

```
RTRV-ALM-SRM:PARIS:14-1&14-2&14-3&14-4:20::MN,T-SESS,NSA,NEND,
ZA;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>:<description>,<aiddet>,"
```

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```
[<obsdbhvr>]: [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

**Table 11-48
RTRV-ALM-SRM output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	SRM	SRM
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Table 11-48 (continued)
RTRV-ALM-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```

PARIS 01-01-12 17:18:09
M 20 COMPLD
"14-1,SRM:MN,T-SESS,NSA,01-12,17-15-09,NEND,ZA:\ "SES SONET 15
Min\"," , "
"14-2,SRM:MN,T-SESS,NSA,01-12,17-15-09,NEND,ZA:\ "SES SONET 15
Min\"," , "
"14-3,SRM:MN,T-SESS,NSA,01-12,17-15-09,NEND,ZA:\ "SES SONET 15
Min\"," , "
"14-4,SRM:MN,T-SESS,NSA,01-12,17-15-09,NEND,ZA:\ "SES SONET 15
Min\"," , "
"14-1,SRM:MN,T-SESS,NSA,01-12,14-55-59,NEND,ZA:\ "SES SONET 1
Day\"," , "
"14-2,SRM:MN,T-SESS,NSA,01-12,14-55-59,NEND,ZA:\ "SES SONET 1
Day\"," , "
"14-3,SRM:MN,T-SESS,NSA,01-12,14-55-59,NEND,ZA:\ "SES SONET 1
Day\"," , "
"14-4,SRM:MN,T-SESS,NSA,01-12,14-55-59,NEND,ZA:\ "SES SONET 1
Day\"," , "
;

```

RTRV-ALM-WSC (retrieve alarm WSC)

The RTRV-ALM-WSC command retrieves the active WSC alarms on the network element.

Security level

Level 1

Input syntax

RTRV-ALM-WSC: [TID] :<AID>: [CTAG] :: [<ntfncde>] , [<condtype>] , [<srveff>] , [<locn>] , [<dirn>] , [<tmper>] ;

Table 11-49
RTRV-ALM-WSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for WSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .

Table 11-49 (continued)
RTRV-ALM-WSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the alarms for the east WSC facility at the Montreal NE.

```
RTRV-ALM-WSC:MONTREAL:20-EAST-WSC:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<ntfncde>, <condtype>, <srveff>, <ocrdat>,
<ocrtm>, [<locn>], [<dirn>]:<description>, [<aiddet>],
[<obsdbhvr>]: [<dgntype>], [<tblislt>]:
[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>], [YEAR=<year>]"
;
```

Table 11-50
RTRV-ALM-WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for WSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	WSC	WSC
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-50 (continued)
RTRV-ALM-WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
DESCRIPTION	Alarm description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 11-50 (continued)
RTRV-ALM-WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string Tray without Tap Tray with Tap Tray Dual Taps	Character string Tray without Tap Tray with Tap Tray Dual Taps
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

```
MONTREAL 01-06-03 22:17:38
M 1234 COMPLD
"20-EAST-WSC,WSC:MN,LOS,NSA,06-03,22-17-13,FEND,AZ:\"Loss of
Signal\",,,";
```

RTRV-COND-ALL (retrieve condition all)

The RTRV-COND-ALL command returns the current conditions of all entities in the specified network element. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-ALL: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>] ;
```

Table 11-51
RTRV-COND-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	ALL	ALL
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .

Table 11-51 (continued)
RTRV-COND-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end (null value) ALL = both far-end and near-end	FEND = far-end NEND = near-end (null value) ALL = both far-end and near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period for TCA condition	1-DAY 15-MIN	1-DAY 15-MIN

Example input

Retrieve the current condition of all entities on network element OHIO:

```
RTRV-COND-ALL:OM5000-1-44:ALL:229;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tmper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>]"
;
```

Table 11-52
RTRV-COND-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for all of the equipment, facility and common conditions	For facility AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17	For facility AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	APBE COM EQPT OCI OCLD OFA OHCHN OMX OSC OTR SPLT GFSRM SRM MOTR MOTRSFP WSC	COM EQPT OCI OCLD OHCHN OMX OSC OTR SPLT GFSRM SRM MOTR MOTRSFP
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 11-52 (continued)
RTRV-COND-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm

Table 11-52 (continued)
RTRV-COND-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
OM5000-1-44 02-02-21 01:51:05
M 0 COMPLD
"1-1,OCLD:MN,HIGHOP,NSA,02-21,01-49-52,FEND,ZA,,\"High Optical
Power\""
"1-1,OCLD:NA,AIS,NSA,02-21,01-50-02,FEND,ZA,,\"Alarm
```

```

Indication Signal\"
"3-1,OTR:MN,HIGHOP,NSA,02-21,01-45-13,FEND,ZA,,\"High Optical
Power\"
"3-2,OTR:MN,HIGHOP,NSA,02-21,01-45-35,FEND,ZA,,\"High Optical
Power\"
"3-2,OTR:NA,AIS,NSA,02-21,01-44-51,FEND,ZA,,\"Alarm Indication
Signal\"
",COM:MJ,DBMEMTRF,NSA,02-21,01-47-55,,NA,,\"Data Recovery
Failure\"
",COM:MN,SWLOAD,NSA,02-21,01-48-07,,NA,,\"Software Library
Missing\"
"WEST-OMX-1-OTS,OMX:CR,OSFT,SA,02-21,01-41-53,NEND,AZ,,\"Optic
al Signal Failure Tx\"
"WEST-OMX-1-OTS,OMX:NA,AIS-BIF,NSA,02-21,01-42-45,FEND,ZA,,\"B
and Alarm Indication Signal\"
"EAST-OMX-8-OTS,OMX:NA,AIS-BIF,NSA,02-21,01-43-02,FEND,ZA,,\"B
and Alarm Indication Signal\"
"EAST-OMX-8-THRU,OMX:CR,OSFR,SA,02-21,01-40-26,NEND,ZA,,\"Opti
cal Signal Failure Rx\"
"WEST-1-OSCSPLT-OTS,SPLT:CR,OSFR,SA,02-21,01-38-04,NEND,ZA,,\"
Optical Signal Failure Rx\"
"EAST-1-OSCSPLT-OTS,SPLT:CR,OSFT,SA,02-21,01-37-32,NEND,AZ,,\"
Optical Signal Failure Tx\"
"WEST-1-CNLSPLT-OTS,SPLT:CR,OSFT,SA,02-21,01-37-47,NEND,AZ,,\"
Optical Signal Failure Tx\"
"WEST-1-CNLSPLT-OTS,SPLT:CR,OSFR,SA,02-21,01-38-17,NEND,ZA,,\"
Optical Signal Failure Rx\"
;

```

RTRV-COND-APBE (retrieve condition APBE)

The RTRV-COND-APBE command returns the current condition of a specified APBE facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-APBE: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>] ;
```

Table 11-53
RTRV-COND-APBE input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string

Table 11-53 (continued)
RTRV-COND-APBE input syntax definition

Parameter	Description	Possible values (5200)
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused

Example input

Retrieve the condition that is currently reported on the APBE facility in slot 2:

```
RTRV-COND-APBE:ROME:2-1:ABC123::, , ZA, ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tmper>]<conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] "
```

Table 11-54
RTRV-COND-APBE output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	APBE
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day

Table 11-54 (continued)
RTRV-COND-APBE output syntax definition

Parameter	Description	Possible values (5200)
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused
CONDDESC	Condition description	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Unused
SIGLAYER	Signal and layer information	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string

Example output

```
ROME 02-01-21 04:30:51
M ABC123 COMPLD
"2-1,APBE:CR,LOS,SA,01-21,04-26-09,FEND,ZA,,\"Loss of
Signal\""
"2-1,APBE:MN,HIGHOPW,NSA,01-21,04-26-37,NEND,ZA,,\"High
Optical Power warning\""
;
```

RTRV-COND-COM (retrieve condition communication)

The RTRV-COND-COM command returns the communication conditions on the network element. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-COM: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>] ;
```

Table 11-55
RTRV-COND-COM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value) ALL	FEND = far-end NEND = near-end (null value) ALL
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the current communication conditions of the network element on both locations:

```
RTRV-COND-COM:OM5000-1-44:ALL:20::,ALL,,;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] "

```

Table 11-56
RTRV-COND-COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	ALL	ALL
AIDTYPE	Access identifier type	COM	COM
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRMT	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Unused	Unused

Table 11-56 (continued)
RTRV-COND-COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
OM5000-1-44 02-02-21 01:48:29
M 0 COMPLD
", COM:MJ, DBMEMTRF, NSA, 02-21, 01-47-55, , NA, , \"Data Recovery
Failure\"
", COM:MN, SWLOAD, NSA, 02-21, 01-48-07, , NA, , \"Software Library
Missing\"
;
```

RTRV-COND-EQPT (retrieve condition equipment)

The RTRV-COND-EQPT command returns the current condition(s) of equipment in the network element. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-EQPT: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>] ;
```

Table 11-57
RTRV-COND-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for equipment	APBE, ECT, OCLD, OCI, OCM, OFA, OMX, OSC, OTR, SP, GFSRM, SRM, MOTR, MOTRSFP equipment For AID values see Table 1-5 on page 1-14	ECT, OCLD, OCI, OMX, OSC, OTR, SP, GFSRM, SRM, MOTR, MOTRSFP equipment For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (default if left blank)	FEND = far-end NEND = near-end (default if left blank)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the conditions currently reported on the east ECT:

```
RTRV-COND-EQPT:OM5000-1-49:ECT-EAST-1:0::,,;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] " ;

```

Table 11-58
RTRV-COND-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for equipment	APBE, ECT, OCLD, OCI, OCM, OFA, OMX, OSC, OTR, SP, GFSRM, SRM equipment For AID values see Table 1-5 on page 1-14	ECT, OCLD, OCI, OMX, OSC, OTR, SP, GFSRM, SRM equipment For AID values see Table 1-5 on page 1-14
AIDTYPE	Access identifier type	EQPT	EQPT
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 11-58 (continued)
RTRV-COND-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm

Table 11-58 (continued)
RTRV-COND-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Unused	Unused
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
OM5000-1-49 02-02-20 23:59:03
M 0 COMPLD
"ECT-EAST-1,EQPT:MJ,REPLUNITMISS,NSA,02-20,23-35-33,,NA,,\"Circuit Pack Missing\"";
```

RTRV-COND-GFSRM (retrieve condition GFSRM)

The RTRV-COND-GFSRM command returns the current condition of a specified OCI SRM GbE/FC or OCI SRM GbE facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-GFSRM: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>] ;
```

Table 11-59
RTRV-COND-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY

Example input

Retrieve the conditions currently reported on the GbE/FC circuit packs in the receive direction on the near end shelf:

```
RTRV-COND-GFSRM:OM5000-4-7:ALL:1::,NEND,ZA,;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tmper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] "

```

Table 11-60
RTRV-COND-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	GFSRM	GFSRM
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 11-60 (continued)
RTRV-COND-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
OM5000-4-7 03-03-06 16:04:56
M 1 COMPLD
"14-1,GFSRM:CR,LOS,SA,03-06,16-02-55,NEND,ZA,,\"Loss of
Signal\""
;
```

RTRV-COND-MOTR (retrieve condition MOTR)

The RTRV-COND-MOTR command returns the current condition of a specified MOTR facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-MOTR: [TID] : [<AID>] : [CTAG] :: [<condtype>], [<locn>],
 [<dirn>], [<tmper>];
```

Table 11-61
RTRV-COND-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the condition that is currently reported on the MOTR facility in slot 7:

```
RTRV-COND-MOTR:ROME:7-11:20;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
```

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```
[<ocrtm>] , [<locn>] , [<dirn>] , [<timper>] , <conddesc> :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[DGNTYPE=<dgntype>] , [YEAR=<year>] , [OBSDBHVR=<obsdbhvr>] "
```

**Table 11-62
RTRV-COND-MOTR output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTR	MOTR
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 11-62 (continued)
RTRV-COND-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
ROME 01-01-12 23:24:14
M 20 COMPLD
"7-11,MOTR:CR,LOS,SA,01-12,23-14-53,FEND,ZA,,\"Loss of
Signal\"";
```

RTRV-COND-MOTRSFP (retrieve condition MOTRSFP)

The RTRV-COND-MOTRSFP command returns the current condition of a specified MOTRSFP facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-MOTRSFP: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>];
```

Table 11-63
RTRV-COND-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the condition that is currently reported on the MOTRSFP facility in slot 7, port 1:

```
RTRV-COND-MOTRSFP:ROME:7-1:20;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
```

```
[<ocrtm>] , [<locn>] , [<dirn>] , [<timper>] , <conddesc> :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[DGNTYPE=<dgntype>] , [YEAR=<year>] , [OBSDBHVR=<obsdbhvr>] "
```

Table 11-64
RTRV-COND-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTRSFP	MOTRSFP
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRMT	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string 2.5GB 850nm 2.5GB 1310nm 2.5GB Unspecified	Character string 2.5GB 850nm 2.5GB 1310nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string

Table 11-64 (continued)
RTRV-COND-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
ROME 01-01-12 23:24:14
M 20 COMPLD
"7-1,MOTRSFP:CR,LOS,SA,01-12,23-14-53,FEND,ZA,,\"Loss of
Signal\"";
```

RTRV-COND-OCI (retrieve condition OCI)

The RTRV-COND-OCI command returns the current condition of a specified OCI facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-OCI: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>];
```

Table 11-65
RTRV-COND-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY

Example input

Retrieve the condition that is currently reported on the OCI facility in slot 12:

```
RTRV-COND-OCI:ROME:12-1:20;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tmper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] "
```

Table 11-66
RTRV-COND-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OCI	OCI
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .

Table 11-66 (continued)
RTRV-COND-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string

Table 11-66 (continued)
RTRV-COND-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
ROME 01-01-12 23:24:14
M 20 COMPLD
"12-1,OCI:CR,LOS,SA,01-12,23-14-53,FEND,ZA,,\"Loss of
Signal\"";
```

RTRV-COND-OCLD (retrieve condition OCLD)

The RTRV-COND-OCLD command returns the current condition(s) of the specified OCLD facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-OCLD: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>];
```

Table 11-67
RTRV-COND-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY

Example input

Retrieve the condition that is currently reported on the OCLD facility in slot 1:

```
RTRV-COND-OCLD:OM5000-1-44:1-1:20;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tmper>] <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-68
RTRV-COND-OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OCLD	OCLD
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .

Table 11-68 (continued)
RTRV-COND-OCLE output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
CONDDISC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string

Table 11-68 (continued)
RTRV-COND-OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
OM5000-1-44 02-02-21 01:50:32
M 0 COMPLD
"1-1,OCLD:MN,HIGHOP,NSA,02-21,01-49-52,FEND,ZA,,"High Optical
Power\"
"1-1,OCLD:NA,AIS,NSA,02-21,01-50-02,FEND,ZA,,"Alarm
Indication Signal\"
;
```

RTRV-COND-OFA (retrieve condition OFA)

The RTRV-COND-OFA command returns the current condition of the specified OFA facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-OFA: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>] ;
```

Table 11-69
RTRV-COND-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused

Example input

Retrieve the condition that is currently reported on the OFA facility in slot 8:

```
RTRV-COND-OFA:OM5000-1-49:8-1:ABC123;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-70
RTRV-COND-OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OFA
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .

Table 11-70 (continued)
RTRV-COND-OFA output syntax definition

Parameter	Description	Possible values (5200)
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused
CONDDISC	Condition description	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string High Input Power Standard Variable Gain
SIGLAYER	Signal and layer information	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string

Example output

```
OM5000-1-49 02-02-20 23:58:38
M ABC123 COMPLD
"8-1,OFA:CR,LOS,SA,02-20,23-29-22,FEND,ZA,,\"Loss of Signal\"";
```

RTRV-COND-OHCHN (retrieve condition OHCHN)

The RTRV-COND-OHCHN command returns the current condition(s) of the specified overhead channels. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-OHCHN: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>];
```

Table 11-71
RTRV-COND-OHCHN input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OHCHN for OCLD, OSC, OTR For AID values see Table 1-6 on page 1-17	OHCHN for OCLD, OSC, OTR For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve conditions currently reported on the overhead channel for the OCLD facility in slot 2:

```
RTRV-COND-OHCHN:LIMA:2-1-OH-OCLD:20::OHSYNCLLOSS,FEND,ZA;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde> , <condtype> , <srveff> , <ocrdat> ,
```

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```
[<ocrtm>] , [<locn>] , [<dirn>] , [<tmper>] <conddesc> :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[DGNTYPE=<dgntype>] , [YEAR=<year>] , [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-72
RTRV-COND-OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OHCHN for OCLD, OSC, OTR For AID values see Table 1-6 on page 1-17	OHCHN for OCLD, OSC, OTR For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OHCHN	OHCHN
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 11-72 (continued)
RTRV-COND-OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
LIMA 01-01-05 15:00:00
M 20 COMPLD
"2-1-OH-OCLD, OHCHN: MJ, OHSYNCLLOSS, NSA, 01-05, 14-18-14, FEND, ZA:\ "
Loss of Overhead Synchronization\, "
;
```

RTRV-COND-OMX (retrieve condition OMX)

The RTRV-COND-OMX command returns the current condition(s) of the specified OMXs. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-OMX: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>];
```

Table 11-73
RTRV-COND-OMX input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OMX facility If you leave AID blank, this command will return data for both east and west OMX.	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value) ALL	FEND = far-end NEND = near-end (null value) ALL
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the conditions currently reported on both OMX directions (AID=null):

```
RTRV-COND-OMX:OM5000-1-44:::20;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
```

```
[<ocrtm>], [<locn>], [<dirn>], [<tmper>] <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>"] ;
```

Table 11-74
RTRV-COND-OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5200)
AID	Access identifier for OMX facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OMX	OMX
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string CWDM DWDM 200GHz ITU CWDM	Character string CWDM DWDM 200GHz ITU CWDM
SIGLAYER	Signal and layer information	Character string	Character string

Table 11-74 (continued)
RTRV-COND-OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5200)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```

OM5000-1-44 02-02-21 01:43:26
M 0 COMPLD
"WEST-OMX-1-OTS,OMX:CR,OSFT,SA,02-21,01-41-53,NEND,AZ,,\"Optic
al Signal Failure Tx\""
"WEST-OMX-1-OTS,OMX:NA,AIS-BIF,NSA,02-21,01-42-45,FEND,ZA,,\"B
and Alarm Indication Signal\""
"EAST-OMX-8-OTS,OMX:NA,AIS-BIF,NSA,02-21,01-43-02,FEND,ZA,,\"B
and Alarm Indication Signal\""
"EAST-OMX-8-THRU,OMX:CR,OSFR,SA,02-21,01-40-26,NEND,ZA,,\"Opti
cal Signal Failure Rx\""
;

```

RTRV-COND-OSC (retrieve condition OSC)

The RTRV-COND-OSC command returns the current condition(s) of the specified OSC facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```

RTRV-COND-OSC: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>] ;

```

Table 11-75
RTRV-COND-OSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OSC facility If you leave AID blank, this command will return data for both east and west OSC.	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the conditions currently reported on the east OSC facility at the Montreal NE:

```
RTRV-COND-OSC:MONTREAL:20-EAST-OSC:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-76
RTRV-COND-OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OSC	OSC
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Table 11-76
RTRV-COND-OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
MONTREAL 01-06-03 22:18:25
M 1234 COMPLD
"20-EAST-OSC, OSC:MN, LOS, NSA, 06-03, 22-14-40, FEND, AZ, , \"Loss of
Signal\"";
```

RTRV-COND-OTR (retrieve condition OTR)

The RTRV-COND-OTR command returns the current condition(s) of the specified OTR facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

RTRV-COND-OTR: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>] ;

Table 11-77
RTRV-COND-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value) ALL	FEND = far-end NEND = near-end (null value) ALL
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY

Example input

Retrieve the conditions currently reported on all the OTR facilities at the Montreal NE in the receive direction for the far end location:

RTRV-COND-OTR:MONTREAL:ALL:1234::, FEND, ZA, ;

Output syntax

SID DATE TIME
 M CTAG COMPLD
 <AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat> ,

```
[<ocrtm>] , [<locn>] , [<dirn>] , [<tper>] , <conddesc> :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[DGNTYPE=<dgntype>] , [YEAR=<year>] , [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-78
RTRV-COND-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OTR	OTR
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 11-78 (continued)
RTRV-COND-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```

MONTREAL 02-02-21 01:46:02
M 1234 COMPLD
"3-1,OTR:MN,HIGHOP,NSA,02-21,01-45-13,FEND,ZA,,\"High Optical
Power\""
"3-2,OTR:MN,HIGHOP,NSA,02-21,01-45-35,FEND,ZA,,\"High Optical
Power\""
"3-2,OTR:NA,AIS,NSA,02-21,01-44-51,FEND,ZA,,\"Alarm Indication
Signal\""
;

```

RTRV-COND-SPLT (retrieve condition splitter)

The RTRV-COND-SPLT command returns the current condition(s) of the specified OSC splitter and coupler or the C&L splitter and coupler within the NE. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-SPLT: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>];
```

Table 11-79
RTRV-COND-SPLT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17
		OSC splitter coupler facility For AID values see Table 1-6 on page 1-17	OSC splitter coupler facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the condition types of the OSC splitter and coupler and the C&L splitter and coupler at the OM5000-1-44 NE:

```
RTRV-COND-SPLT:OM5000-1-44:::0;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde> , <condtype> , <srveff> , <ocrdat> ,
```

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```
[<ocrtm>] , [<locn>] , [<dirn>] , [<tmper>] , <conddesc> :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[DGNTYPE=<dgntype>] , [YEAR=<year>] , [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-80
RTRV-COND-SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17
		OSC splitter coupler facility For AID values see Table 1-6 on page 1-17	OSC splitter coupler facility For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	SPLT	SPLT
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
ORCTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string W-Spltr 1310nm	Character string W-Spltr 1310nm

Table 11-80 (continued)
RTRV-COND-SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SIGLAYER	Signal and layer information	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
OM5000-1-44 02-02-21 01:39:43
M 0 COMPLD
"WEST-1-OSCSPLT-OTS,SPLT:CR,OSFR,SA,02-21,01-38-04,NEND,ZA,,\"
Optical Signal Failure Rx\"
"EAST-1-OSCSPLT-OTS,SPLT:CR,OSFT,SA,02-21,01-37-32,NEND,AZ,,\"
Optical Signal Failure Tx\"
"WEST-1-CNLSPLT-OTS,SPLT:CR,OSFT,SA,02-21,01-37-47,NEND,AZ,,\"
Optical Signal Failure Tx\"
"WEST-1-CNLSPLT-OTS,SPLT:CR,OSFR,SA,02-21,01-38-17,NEND,ZA,,\"
Optical Signal Failure Rx\"
;
```

RTRV-COND-SRM (retrieve condition SRM)

The RTRV-COND-SRM command returns the current condition(s) of the specified SRM OCI facility. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```
RTRV-COND-SRM: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
 [<dirn>] , [<tmper>] ;
```

Table 11-81
RTRV-COND-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value)	FEND = far-end NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY

Example input

Retrieve condition type “coding violation” on the SRM OCI facility in slot 14, port 4:

```
RTRV-COND-SRM:BRIGHTON:14-4:20::T-CVS;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
 [<ocrtm>] , [<locn>] , [<dirn>] , [<tmper>] , <conddesc>:
 [SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
 [DGNTYPE=<dgntype>] , [YEAR=<year>] , [OBSDBHVR=<obsdbhvr>] " ;
```

Table 11-82
RTRV-COND-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	SRM	SRM
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string

Table 11-82 (continued)
RTRV-COND-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```

BRIGHTON 01-01-12 18:50:53
M 20 COMPLD
"14-4, SRM:MN, T-CVS, NSA, 01-12, 18-45-09, NEND, AZ, 15MIN, \" CV SONET
15 Min"
"14-4, SRM:MN, T-CVS, NSA, 01-12, 18-45-09, NEND, ZA, 15MIN, \" CV SONET
15 Min"
"14-4, SRM:MN, T-CVS, NSA, 01-12, 14-56-29, NEND, AZ, 15MIN, \" CV SONET
15 Min"
"14-4, SRM:MN, T-CVS, NSA, 01-12, 14-56-29, NEND, ZA, 15MIN, \" CV SONET
15 Min"
;

```

RTRV-COND-WSC (retrieve condition WSC)

The RTRV-COND-WSC command returns the current condition(s) of the specified WSC facilities. Conditions can be alarmed or non-alarmed.

Security level

Level 1

Input syntax

```

RTRV-COND-WSC: [TID] : [<AID>] : [CTAG] :: [<condtype>] , [<locn>] ,
[<dirn>] , [<tmper>] ;

```

Table 11-83
RTRV-COND-WSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for WSC facility If you leave AID blank, this command will return data for both east and west WSC.	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
LOCN	Location	FEND = far-end NEND = near-end (null value) ALL	FEND = far-end NEND = near-end (null value) ALL
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Example input

Retrieve the condition of the east WSC facility at the Montreal NE.

```
RTRV-COND-WSC:MONTREAL:20-EAST-WSC:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<AID>,<aidtype>: <ntfncde>, <condtype>, <srveff>, <ocrdat>,
[<ocrtm>], [<locn>], [<dirn>], [<tmper>], <conddesc>:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[DGNTYPE=<dgntype>], [YEAR=<year>], [OBSDBHVR=<obsdbhvr>] " " ;
```

Table 11-84
RTRV-COND-WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for WSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	WSC	WSC
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
SUBCARDTYPE	Sub card type value	Character string Tray without Tap Tray with Tap Tray Dual Taps	Character string Tray without Tap Tray with Tap Tray Dual Taps
SIGLAYER	Signal and layer information	Character string	Character string

Table 11-84 (continued)
RTRV-COND-WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Example output

```
MONTREAL 01-06-03 22:18:40
M 1234 COMPLD
"20-EAST-WSC,WSC:MN,LOS,NSA,06-03,22-17-13,FEND,AZ,,\"Loss of
Signal\"";
```

RTRV-CP-LOG (retrieve circuit pack LOG)

The RTRV-CP-LOG command retrieves the event history logs for the Muxponder circuit pack.

Note: For admin class user this command retrieves all security and non-security alarms, events, and DBCHG messages. For non-admin class users, this command retrieves only non-security alarms, events, and DBCHG messages.

Security level

Level 1

Input syntax

```
RTRV-CP-LOG: [TID] : <AID> : [CTAG] ;
```

Table 11-85
RTRV-CP-LOG input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTR equipment	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Retrieve the CP LOG at the Montreal NE.

```
RTRV-CP-LOG:MONTREAL:MOTR-5:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
[<AID>], [<aidtype>]: [<ntfncde>], [<condtype>], [<srveff>],
<ocrdat>, <ocrtm>, [<locn>], [<dirn>], [<tmper>], [<uid>], [<uap>],
[<linkid>], [<command>], [<status>], <logclass>, <logindex>:
<logdesc>: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>"];
```

Table 11-86
RTRV-CP-LOG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for all of the equipment, facility and common conditions on the Muxponder	For facility AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17	For facility AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTR MOTRSFP	MOTR MOTRSFP
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 11-86 (continued)
RTRV-CP-LOG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
UID	User identifier	Character string	Character string
UAP	User Access Privilege	ADMIN OPERATOR OBSERVER	ADMIN OPERATOR OBSERVER
LINKID	User host IP address	x.x.x.x	x.x.x.x
COMMAND	TL1 command or similar action	Character string	Character string
STATUS	TL1 command status.	COMPLD = Completed DENY= Deny PRTL = Partial	COMPLD = Completed DENY= Deny PRTL = Partial
LOGCLASS	Type of logged messages	ALM=NE alarms log DBCHG=NE database change logs EVT=NE Events log SECUALM = Security Alarm log SECUDBCHG = NE Security Database change logs SECUEVT = Security Event logs	ALM=NE alarms log DBCHG=NE database change logs EVT=NE Events log SECUALM = Security Alarm log SECUDBCHG = NE Security Database change logs SECUEVT = Security Event logs
LOGINDEX	Index of log	Integer	Integer

Table 11-86 (continued)
RTRV-CP-LOG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOGDESC	Description of log	Character string	Character string
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 2.5GB DWDM 200GHz Flex 10.7GB GEFC DWDM 100GHz 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified 2.5GB SONET/SDH DWDM 200GHz CWDM 200GHz 2.5GB Transparent I2CEIU	Character string 10.7GB GEFC DWDM 200GHz 2.5GB DWDM 200GHz Flex 10.7GB GEFC DWDM 100GHz 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified 2.5GB SONET/SDH DWDM 200GHz CWDM 200GHz I2CEIU
SIGLAYER	Signal and layer information	Character string	Character string

RTRV-NE-LOG (retrieve network element LOG)

The RTRV-NE-LOG command retrieves the current NE LOG. For admin class user retrieves all security and non-security alarms, events and DBCHG messages.

For non-admin class users retrieves only non-security alarms, events and DBCHG messages.

Security level

Level 1

Input syntax

```
RTRV-NE-LOG: [TID] :: [CTAG] ;
```

Table 11-87

RTRV-NE-LOG input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Retrieve the NE LOG at the Montreal NE.

```
RTRV-NE-LOG:MONTREAL::1234 ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
[<AID>], [<aidtype>]: [<ntfncde>], [<condtype>], [<srveff>],
<ocrdat>, <ocrtm>, [<locn>], [<dirn>], [<tmper>], [<uid>], [<uap>],
[<linkid>], [<command>], [<status>], <logclass>, <logindex>:
<logdesc>: [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>]";
```

Table 11-88
RTRV-NE-LOG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for all of the equipment, facility and common conditions	For facility AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17	For facility AID values see Table 1-5 on page 1-14 For facility AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	APBE COM EQPT MOTR MOTRSFP OCI OCLD OFA OHCHN OMX OSC OTR SPLT GFSRM SRM WSC	COM EQPT MOTR MOTRSFP OCI OCLD OHCHN OMX OSC OTR SPLT GFSRM SRM WSC
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarmed	CR = Critical MJ = Major MN = Minor NA = Non Alarmed
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 11-88 (continued)
RTRV-NE-LOG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	15-MIN 1-DAY	15-MIN 1-DAY
UID	User identifier	Character string	Character string
UAP	User Access Privilege	ADMIN OPERATOR OBSERVER	ADMIN OPERATOR OBSERVER
LINKID	User host IP address	x.x.x.x	x.x.x.x
COMMAND	TL1 command or similar action	Character string	Character string
STATUS	TL1 command status.	COMPLD = Completed DENY= Deny PRTL = Partial	COMPLD = Completed DENY= Deny PRTL = Partial
LOGCLASS	Type of logged messages	ALM=NE alarms log DBCHG=NE database change logs EVT=NE Events log SECUALM = Security Alarm log SECUDBCHG = NE Security Database change logs SECUEVT = Security Event logs	ALM=NE alarms log DBCHG=NE database change logs EVT=NE Events log SECUALM = Security Alarm log SECUDBCHG = NE Security Database change logs SECUEVT = Security Event logs
LOGINDEX	Index of log	Integer	Integer

Table 11-88 (continued)
RTRV-NE-LOG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOGDESC	Description of log	Character string	Character string
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 2.5GB DWDM 200GHz Flex 10.7GB GEFC DWDM 100GHz 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified 2.5GB SONET/SDH DWDM 200GHz CWDM 200GHz 2.5GB Transparent I2CEIU	Character string 10.7GB GEFC DWDM 200GHz 2.5GB DWDM 200GHz Flex 10.7GB GEFC DWDM 100GHz 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified 2.5GB SONET/SDH DWDM 200GHz CWDM 200GHz I2CEIU
SIGLAYER	Signal and layer information	Character string	Character string

SET-ACO-COM (set alarm cutoff)

The SET-ACO-COM command sets the ACO mode. The “immediate” mode turns off the audible alarm when the alarm is raised. The “manual” mode allows the audible alarm, which requires that the user turn off the alarm by either issuing the OPR-ACO-COM command, or by pressing the ACO button on the shelf.

Security level

Level 2

Input syntax

```
SET-ACO-COM: [TID] :: [CTAG] :: <ACOMD>;
```

Table 11-89

SET-ACO-COM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
ACOMD	Alarm cutoff mode	IMED = Immediately turns off the audible alarm when the alarm is raised MAN = Audible alarm requires user to manually activate the alarm cut off.	IMED = Immediately turns off the audible alarm when the alarm is raised MAN = Audible alarm requires user to manually activate the alarm cut off.

Example input

Set the ACO mode for the MADRID network element to immediate:

```
SET-ACO-COM:MADRID::1234::IMED;
```

STA-LAMP-TST (start lamp test)

Use the STA-LAMP-TST command to start a lamp test on the specified network element.

Note: This test ends automatically after a few seconds.

Security level

Level 2

Input syntax

STA-LAMP-TST : [TID] :: [CTAG] ;

Table 11-90**STA-LAMP-TST input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Operate a lamp test on the network element MALAYSIA:

STA-LAMP-TST :MALAYSIA : : 1234 ;

Environment and external control commands

This chapter is an alphabetical summary of all TL1 commands related to alarms, telemetry, and external controls. The command descriptions in this chapter identify each command, and describe the command purpose, syntax, variables, and response.

For information about clearing Optical Metro 5100/5200 alarms, refer to the *Trouble Clearing and Alarm Reference Guide*, 323-1701-542.

Commands in this chapter

Table 12-1 lists the alarm, event, and external control commands in this chapter.

Table 12-1
Alarm, event, and external control commands

Command	Page
OPR-EXT-CONT (operate external control)	12-2
RLS-EXT-CONT (release external control)	12-4
RTRV-ALM-ENV (retrieve alarm environment)	12-4
RTRV-ATTR-CONT (retrieve attributes controls)	12-9
RTRV-ATTR-ENV (retrieve attributes environment)	12-10
RTRV-CFG-CONT (retrieve configuration control)	12-12
RTRV-CFG-ENV (retrieve configuration environment)	12-14
RTRV-EXT-CONT (retrieve external controls)	12-15
SET-ATTR-CONT (set attributes controls)	12-17
SET-ATTR-ENV (set attribute environment)	12-18
SET-CFG-CONT (set configuration control)	12-20
SET-CFG-ENV (retrieve configuration environment)	12-21

OPR-EXT-CONT (operate external control)

The OPR-EXT-CONT command turns on one or more of the external control relays. The network element has four relays. You can only configure the first output device (CONT-1) to be normally closed or normally open. The remaining three output devices are configured as normally open.

The contact number parameter is mandatory and grouping is allowed. The control type parameter is not required, but can be used to parse the command.

For example, if you intend the command to turn on the lights on relay 3, but relay 3 is actually connected to sprinklers, then including the value LIGHT in the CONTTYPE field would cause the command to fail (and prevent sprinklers from being accidentally turned on). The [RLS-EXT-CONT \(release external control\)](#) command turns off the external control relays.

**CAUTION****Risk of equipment damage**

Do not activate external controls that may cause damage to the equipment. For example, sprinklers can cause damage to Optical Metro 5200 equipment.

Security level

Level 2

Input syntax

```
OPR-EXT-CONT: [TID] :<AID>: [CTAG] :: [<conttype>] , [<dur>] ;
```

Table 12-2
OPR-EXT-CONT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4	CONT-1 CONT-2 CONT-3 CONT-4
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONTTYPE	Control type	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler
DUR	Duration	Unused	Unused

Example input

Turn on the air conditioner on relay 1 at network element WASHINGTON:

```
OPR-EXT-CONT: WASHINGTON: CONT-1: 12: : AIRCOND;
```

RLS-EXT-CONT (release external control)

Use the RLS-EXT-CONT command to switch any of the four electrical relays, for controlling external devices, from operative mode to idle mode. You can only configure the first output device (CONT-1) to be normally closed or normally open. The remaining three output devices are configured as normally open. External control relays are idle until you use the OPR-EXT-CONT command.

Use the CONTTYPE parameter to prevent errors. If you enter an incorrect value, the network element denies the command.

Security level

Level 2

Input syntax

```
RLS-EXT-CONT: [TID] :<AID>: [CTAG] :: [<conttype>] , [<dur>];
```

Table 12-3
RLS-EXT-CONT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4	CONT-1 CONT-2 CONT-3 CONT-4
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONTTYPE	Control type	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler
DUR	Duration	Unused	Unused

Example input

Release the first external control relay with the condition type “heat”:

```
RLS-EXT-CONT:GEORGIA:CONT-2:1234::HEAT;
```

RTRV-ALM-ENV (retrieve alarm environment)

The RTRV-ALM-ENV command retrieves the active environmental alarms on the network element. Environmental alarms are communicated to the network element through the parallel telemetry input ports.

Security level

Level 1

Input syntax

RTRV-ALM-ENV: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] , [almtime] ;

Table 12-4
RTRV-ALM-ENV input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for parallel telemetry (external control) input ports For more information, refer to "COTEL card" on page 1-10 in the "Optical Metro 5200 shelves" chapter of <i>Hardware Description</i> , 323-1701-102.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
ALMTYPE	Alarm type	Unused	Unused

Example input

Retrieve the critical environment alarms on parallel telemetry input port 1:

RTRV-ALM-ENV: JORDAN: PT-1-1: 123 :: CR;

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<environmentId>:<ntfncde>,<envcondtype>,<ocrdat>,<ocrtm>,<description>:[DGNTYPE=<dgntype>],[YEAR=<year>]" ;
```

Table 12-5
RTRV-ALM-ENV output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
ENVIRONMENT ID	Environmental identifier for parallel telemetry (external control) input ports For more information, refer to “COTEL card” on page 1-10 in the “Optical Metro 5200 shelves” chapter of <i>Hardware Description</i> , 323-1701-102.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
ENVCONDTYPE	Environmental condition type	Refer to Table 12-6 . Note: As the range of values is set at runtime and will vary for one installation of the network element to the next, the default is “MISC”.	Refer to Table 12-6 . Note: As the range of values is set at runtime and will vary for one installation of the network element to the next, the default is “MISC”.
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second

Table 12-5 (continued)
RTRV-ALM-ENV output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DESCRIPTION	Alarm description	Character string Maximum 40 characters	Character string Maximum 40 characters
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer

Table 12-6 lists possible values for the parameter ALMTYPE (environmental alarm type).

Table 12-6
Environmental alarm type parameters

Value	Description
AIRCOMPR	Air compressor failure
AIRCOND	Air conditioning failure
AIRDRYER	Air dryer failure
BATDSCHRG	Battery discharging
BATTERY	Battery failure
CLFAN	Cooling fan failure
CPMAJOR	Centralized power major environmental alarm or major equipment failure, such as FITL systems
CPMINOR	Centralized power minor environmental alarm or minor equipment failure, such as FITL systems
ENGINE	Engine failure
ENGOPRG	Engine operating
EXPLGS	Explosive gas

Table 12-6 (continued)
Environmental alarm type parameters

Value	Description
FIREDETR	Fire detector failure
FIRE	Fire
FLOOD	Flood
FUSE	Fuse failure
GEN	Generator failure
HIAIR	High airflow
HIHUM	High humidity
HITEMP	High temperature
HIWTR	High water
INTRUDER	Intrusion
LWBATVG	Low battery voltage
LWFUEL	Low fuel
LWHUM	Low humidity
LWPRES	Low cable pressure
LWTEMP	Low temperature
LWWTR	Low water
MISC	Miscellaneous
OPENDR	Open door
POWER	Commercial power failure
PUMP	Pump failure
PWRX	x Volt power supply failure (where x is a positive integer)
RECT	Rectifier failure
RECTHI	Rectifier high voltage
RECTLO	Rectifier low voltage
SMOKE	Smoke
TOXICGAS	Toxic gas
VENTN	Ventilation system failure

Example output

```
JORDAN 98-06-20 14-30-00
M 123 COMPLD
"PT-1-1:CR,POWER,04-1,12-00-00,\\\\"COMMERCIAL POWER
FAILURE\\\\""
;
```

RTRV-ATTR-CONT (retrieve attributes controls)

The RTRV-ATTR-CONT command retrieves the attributes associated with external controls. The attributes are text strings that identify the function of the control relay that you assign using the SET-ATTR-CONT command.

Security level

Level 1

Input syntax

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

Table 12-7**RTRV-ATTR-CONT input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4 ALL = all applicable values	CONT-1 CONT-2 CONT-3 CONT-4 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONTTYPE	Control type	AIRCOND = Air conditioner ENGINE = Engine FAN = Fan GEN = Generator HEAT = Heat LIGHT = Light MISC = Miscellaneous SPKLR = Sprinkler	AIRCOND = Air conditioner ENGINE = Engine FAN = Fan GEN = Generator HEAT = Heat LIGHT = Light MISC = Miscellaneous SPKLR = Sprinkler

Example input

Retrieve the external control attributes for external control output port 4:

```
RTRV-ATTR-CONT:HUNGARY:CONT-4:242;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<control>:<conttype>"
;
```

Table 12-8
RTRV-ATTR-CONT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONTROL	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4	CONT-1 CONT-2 CONT-3 CONT-4
CONTTYPE	Control type	AIRCOND = Air conditioner ENGINE = Engine FAN = Fan GEN = Generator HEAT = Heat LIGHT= Light MISC = Miscellaneous SPKLR = Sprinkler	AIRCOND = Air conditioner ENGINE = Engine FAN = Fan GEN = Generator HEAT = Heat LIGHT= Light MISC = Miscellaneous SPKLR = Sprinkler

Example output

```
HUNGARY 98-06-20 14-30-00
M 242 COMPLD
"CONT-4:FAN"
;
```

RTRV-ATTR-ENV (retrieve attributes environment)

The RTRV-ATTR-ENV command retrieves the notification codes, type, and alarm messages for an environment control point. Environmental alarms communicated to the network element through the parallel telemetry input ports.

Security level

Level 1

Input syntax

```
RTRV-ATTR-ENV: [TID] : [<AID>] : [CTAG] :: [<ntfncde>] ,
[<almtype>] ;
```

Table 12-9
RTRV-ATTR-ENV input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for parallel telemetry (external control) input ports For more information, refer to “COTEL card” on page 1-10 in the “Optical Metro 5200 shelves” chapter of <i>Hardware Description</i> , 323-1701-102.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
ALMTYPE	Environmental alarm type	Refer to Table 12-6 on page 12-7 .	Refer to Table 12-6 on page 12-7 .

Example input

Retrieve the environment information for parallel telemetry port 2

```
RTRV-ATTR-ENV:JORDAN2:PT-1-2:253;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<ntfncde>,<almtype>,<almmsg>"
;
```

Table 12-10
RTRV-ATTR-ENV output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for parallel telemetry (external control) input ports For more information, refer to “COTEL card” on page 1-10 in the “Optical Metro 5200 shelves” chapter of <i>Hardware Description</i> , 323-1701-102.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
ALMTYPE	Environment alarm type	Refer to Table 12-6 on page 12-7 .	Refer to Table 12-6 on page 12-7 .
ALMMSG	Environment alarm message	Character string Maximum 40 characters	Character string Maximum 40 characters

Example output

```
JORDAN2 98-06-20 14-30-00
M 253 COMPLD
"PT-1-2:CR,CLFAN,\"COOLING FAN FAILURE\"";
```

RTRV-CFG-CONT (retrieve configuration control)

The RTRV-CFG-CONT command retrieves the status of the external control configuration. The configuration is either “normally open” or “normally closed”.

Security level

Level 1

Input syntax

```
RTRV-CFG-CONT: [TID] : [<AID>] : [CTAG] ;
```

Table 12-11
RTRV-CFG-CONT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4 ALL	CONT-1 CONT-2 CONT-3 CONT-4 ALL
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Retrieve the external control for external control output port 3:

```
RTRV-CFG-CONT:ALASKA:CONT-3:1234;
```

Retrieve the external control for NE OM5000-1-44:

```
RTRV-CFG-CONT:OM5000-1-44::ABC123;
```

Output syntax

```
SID DATE TIME
```

```
M CTAG COMPLD
```

```
<aid>:PST=<pst>,HWCFG=<hwcfg>,[NAME=<name>]"
```

Table 12-12
RTRV-CFG-CONT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4 ALL	CONT-1 CONT-2 CONT-3 CONT-4 ALL
PST	Primary state	IS = in-service OOS = out-of-service	IS = in-service OOS = out-of-service
HWCFG	External control state	NORMALLYCLOSED NORMALLYOPEN	NORMALLYCLOSED NORMALLYOPEN
NAME	Name of the external control port	Character string	Character string

Example output

```
OM5000-1-44 02-02-21 00:41:57
```

```
M ABC123 COMPLD
```

```
"CONT-1:PST=OOS,HWCFG=NORMALLYOPEN,NAME=\"Output Device 1\""
```

```
"CONT-2:PST=OOS,HWCFG=NORMALLYOPEN,NAME=\"Output Device 2\""
```

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```
"CONT-3 : PST=OOS , HWCFG=NORMALLYOPEN , NAME=\"Output Device 3\""  
"CONT-4 : PST=OOS , HWCFG=NORMALLYOPEN , NAME=\"Output Device 4\""  
;
```

RTRV-CFG-ENV (retrieve configuration environment)

The RTRV-CFG-ENV command retrieves the status of the parallel telemetry environmental input ports.

Security level

Level 1

Input syntax

```
RTRV-CFG-ENV : [TID] : [<aid>] : [CTAG] ;
```

Table 12-13
RTRV-CFG-ENV input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (environment) input port number.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Retrieve the external control for external control output port 3:

```
RTRV-CFG-ENV : ALASKA : PT-1-3 : ABC123 ;
```

Retrieve the external controls for OM5000-1-44:

```
RTRV-CFG-ENV : OM5000-1-44 : : ABC123 ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
<aid>:PST=<pst>, [NAME=<name>] "
```

Table 12-14
RTRV-CFG-ENV output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the parallel telemetry (environment) input port number.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
PST	Primary state	IS = in-service OOS = out-of-service	IS = in-service OOS = out-of-service
NAME	Name of the parallel telemetry environment input (optional)	Character string	Character string

Example output

```
ALASKA 98-06-20 14-30-00
M 1234 COMPLD
"PT-1-3:PST=IS,NAME=WATER"
;

OM5000-1-44 02-02-21 00:49:37
M 0 COMPLD
"PT-1-1:PST=OOS,NAME=\"Input Device 1\""
"PT-1-2:PST=OOS,NAME=\"Input Device 2\""
"PT-1-3:PST=OOS,NAME=\"Input Device 3\""
"PT-1-4:PST=OOS,NAME=\"Input Device 4\""
;
```

RTRV-EXT-CONT (retrieve external controls)

The RTRV-EXT-CONT command retrieves the state (Operated or Released) of the external controls. You can use the control type parameter to ensure that the correct information is retrieved.

Security level

Level 1

Input syntax

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

Table 12-15
RTRV-EXT-CONT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5200)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4 ALL	CONT-1 CONT-2 CONT-3 CONT-4 ALL
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONTTYPE	Control type	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous (default) SPKLR = sprinkler	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous (default) SPKLR = sprinkler

Example input

Retrieve the state of control 1 from network element DENVER:

RTRV-EXT-CONT: DENVER: CONT-1: 23 ;

Output syntax

SID DATE TIME
M CTAG COMPLD
"<AID>: [<conttype>] , [<dur>] , <contstate>" ;

Table 12-16
RTRV-EXT-CONT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4 ALL	CONT-1 CONT-2 CONT-3 CONT-4 ALL
CONTTYPE	Control type	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler
DUR	Duration	Unused	Unused
CONTSTATE	Control state	OPER = Operated RLS = Released	OPER = Operated RLS = Released

Example output

For the first example:

```
DENVER 98-06-20 14-30-00
M 23 COMPLD
"CONT-1:MISC, ,RLS"
;
```

SET-ATTR-CONT (set attributes controls)

The SET-ATTR-CONT command sets the attributes associated with external controls. The attributes indicate the use of the external control.

Security level

Level 2

Input syntax

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

Table 12-17
SET-ATTR-CONT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4	CONT-1 CONT-2 CONT-3 CONT-4
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONTTYPER	Control type	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler	AIRCOND = air conditioner ENGINE = engine FAN = fan GEN = generator HEAT = heat LIGHT = light MISC = miscellaneous SPKLR = sprinkler

Example input

Set external control port 2 as the port for engine controls:

SET-ATTR-CONT: HOUSTON: CONT-2: 25: : ENGINE;

SET-ATTR-ENV (set attribute environment)

The SET-ATTR-ENV command sets the notification code, description, and alarm name or type for environmental alarm or status points.

You can use the SET-ATTR-ENV command to provision the alarm points associated with the parallel telemetry input ports. You can associate any of the environmental alarm types described in [Table 12-6 on page 12-7](#) with the telemetry ports. For more information, refer to [“COTEL card” on page 1-10](#) in the [“Optical Metro 5200 shelves” on page 1-1](#) chapter in *Hardware Description*, 323-1701-102.

Security level

Level 2

Input syntax

```
SET-ATTR-ENV: [TID] : <AID> : [CTAG] : : [<ntfncde>] , [<almtree>] ,
[<almmsg>] ;
```

Table 12-18
SET-ATTR-ENV input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for parallel telemetry (external control) input ports For more information, refer to “COTEL card on page 1-10 in the “Optical Metro 5200 shelves” chapter of <i>Hardware Description</i> , 323-1701-102.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor	CR = Critical MJ = Major MN = Minor
ALMTRYPE	Environmental alarm type	Refer to Table 12-6 on page 12-7 .	Refer to Table 12-6 on page 12-7 .
ALMMSG	Alarm message text	Character string Maximum 40 characters	Character string Maximum 40 characters

Example input

Set the parallel telemetry input port 4 as a critical alarm, with the condition type “high temperature”.

```
SET-ATTR-ENV: SANFRAN2:PT-1-4:234:::CR,HITEMP,HIGH TEMPERATURE;
```

Output syntax

If the command successfully executes, you receive a message in the form:

```
<sid> <date> <time>
M <ctag> COMPLD
;
```

Example output

```
SANFRAN2 1999-02-15 00:05:03
M 234 COMPLD
;
```

SET-CFG-CONT (set configuration control)

The SET-CFG-CONT command sets the controls for external control relays as normally opened or normally closed.

Note: You can only set the hardware to be normally open for the first output device (CONT-1). For the remaining output devices, the hardware is set to normally open.

Security level

Level 2

Input syntax

```
SET-CFG-CONT: [TID] : <AID> : [CTAG] :: PST=<pst>, [HWCFG=<hwcfg>], [NAME=<name>];
```

Table 12-19
SET-CFG-CONT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (external control) output port number.	CONT-1 CONT-2 CONT-3 CONT-4	CONT-1 CONT-2 CONT-3 CONT-4
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
PST	Primary state	IS = in-service OOS = out-of-service	IS = in-service OOS = out-of-service
HWCFG	External control state	NORMALLYCLOSED NORMALLYOPEN	NORMALLYCLOSED NORMALLYOPEN
NAME	Name of the external control port	Character string	Character string

Example input

```
SET-CFG-CONT:TID:CONT-1:1234::PST=IS,HWCFG=NORMALLYOPEN;
```

SET-CFG-ENV (retrieve configuration environment)

The SET-CFG-ENV command sets the state of the parallel telemetry environment input ports.

Security level

Level 2

Input syntax

```
SET-CFG-ENV: [TID] : [<AID>] : [CTAG] : : : [PST=<pst>] , [NAME=<name>] ;
```

Table 12-20
SET-CFG-ENV input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the parallel telemetry (environment) input port number.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
PST	Primary state	IS = in-service OOS = out-of-service	IS = in-service OOS = out-of-service
NAME	Name of the parallel telemetry environment input (optional)	Character string Maximum 30 characters	Character string Maximum 30 characters

Example input

Retrieve the external control for external control output port 3:

```
SET-CFG-ENV:ALASKA:PT-1-3:ABC123:::IS,WATER;
```

Autonomous messages

This chapter is an alphabetical summary of all TL1 autonomous messages. Autonomous messages are stored in a random access memory (RAM) cache and are also broadcast to all active TL1 accounts when each event occurs.

The message descriptions in this chapter identify each command, and describe the command purpose, syntax, and variables.

Autonomous messages are also referred to as automatic reports. Message reporting is automatically enabled when you log in as an Observer. If you log in as Admin or Operator, you must enable message reporting through the ALW-MSG-ALL command (see [ALW-MSG-ALL \(allow messages\) on page 11-4](#)). Use the INH-MSG-ALL command to disable message reporting (see [INH-MSG-ALL \(inhibit messages all\) on page 11-7](#)).

Commands in this chapter

[Table 13-1](#) lists the autonomous messages in this chapter.

Table 13-1
Autonomous message commands

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CANC (cancel)	13-4
REPT ALM APBE (report alarm APBE)	13-4
REPT ALM COM (report alarm communication)	13-6
REPT ALM ENV (report alarm environment)	13-8
REPT ALM EQPT (report alarm equipment)	13-11
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Table 13-1 (continued)
Autonomous message commands

Command	Page
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REPT ALM OMX (report alarm OMX)	13-30
REPT ALM OSC (report alarm OSC)	13-32
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REPT COND APBE (report condition APBE)	13-44
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REPT COND GFSRM (report condition GFSRM)	13-49
REPT COND MOTR (report condition MOTR)	13-51
REPT COND MOTRSFP (report condition MOTRSFP)	13-53
REPT COND OCI (report condition OCI)	13-54
REPT COND OCLD (report condition OCLD)	13-56
REPT COND OFA (report condition OFA)	13-58
REPT COND OHCHN (report condition overhead channel facility)	13-59
REPT COND OMX (report condition OMX)	13-61
REPT COND OSC (report condition OSC)	13-63
REPT COND OTR (report condition OTR)	13-64
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Table 13-1 (continued)
Autonomous message commands

Command	Page
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REPT PM GFSRM (report performance monitoring GFSRM)	13-117
REPT PM MOTR (report performance monitoring MOTR)	13-118
REPT PM MOTRSFP (report performance monitoring MOTRSFP)	13-120
REPT PM OCI (report performance monitoring OCI)	13-121
REPT PM OCLD (report performance monitoring OCLD)	13-122
REPT PM OFA (report performance monitoring OFA)	13-124
REPT PM OTR (report performance monitoring OTR)	13-125
REPT PM SRM (report performance monitoring SRM)	13-126

CANC (cancel)

The CANC message is a user-specific message generated autonomously by network element when a user session is terminated by network element due to inactivity timeout.

Output syntax

```
SID DATE TIME
ATAG CANC
"<uid>"
```

Table 13-2
CANC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
UID	User Identifier (user name) whose session is terminated.	Alphanumeric characters (between 1 and 8)	Alphanumeric characters (between 1 and 8)

REPT ALM APBE (report alarm APBE)

The REPT ALM APBE messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an APBE facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM APBE
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]: [<dgntype>],
 [<tblislt>]: [SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>],
 [YEAR=<year>]";
```

Table 13-3
REPT ALM APBE output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting

Table 13-3 (continued)
REPT ALM APBE output syntax definition

Parameter	Description	Possible values (5200)
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused
SUBCARDTYPE	Sub card type value	Unused
SIGLAYER	Signal and layer information	Character string
YEAR	Year when the alarm occurred	Integer

Example output

The network element reports a critical facility alarm on the APBE:

```
OM5000-1-49 02-02-20 22:26:01
*C 98 REPT ALM APBE
"4-2:CR,LOS,SA,02-20,22:26:01,NEND,ZA:\"Loss of Signal\",, :
000000-0000-0007, :SIGLAYER=\":OTS\", YEAR=2005"
;
```

REPT ALM COM (report alarm communication)

The REPT ALM COM messages are generated autonomously by a network element to report the onset or clearing of a standing communication condition that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM COM
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]:
[<conddescr>],[<aiddet>],[<obsdbhvr>]:[<dgntype>],[<tblislt>]:
[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>],
[YEAR=<year>]" ;
```

Table 13-4
REPT ALM COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	Unused	Unused
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11	Refer to Table 11-15 on page 11-11
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second

Table 13-4 (continued)
REPT ALM COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Unused	Unused
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an alarm on the upgrade status:

```
OM5000-1-44 02-02-20 19:50:38
** 54 REPT ALM COM
",COM:NA,SWFTDWN,NSA,02-25,21-08-40:\\"Software Upgrade in
Progress\\,,:000000-0000-0007,,:,,YEAR=2005""": "
;
```

REPT ALM ENV (report alarm environment)

The REPT ALM ENV messages are generated autonomously by an NE to report the onset or clearing of a standing condition on an environmental alarm input. Use the SET-ATTR-ENV command to define conditions on environmental inputs.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM ENV
"<AID>:<ntfncde>,<almtree>,[<ocrdat>],[<ocrtm>],[<almmsg>]:
[<dgntype>],[YEAR=<year>]";
```

Table 13-5
REPT ALM ENV output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for parallel telemetry (external control) input ports For more information, refer to "COTEL card" on page 1-10 in the "Optical Metro 5200 shelves" chapter of <i>Hardware Description</i> , 323-1701-102.	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 ALL = all applicable values	PT-1-1 = parallel telemetry port 1 PT-1-2 = parallel telemetry port 2 PT-1-3 = parallel telemetry port 3 PT-1-4 = parallel telemetry port 4 PT-1-5 = parallel telemetry port 5 PT-1-6 = parallel telemetry port 6 PT-1-7 = parallel telemetry port 7 PT-1-8 = parallel telemetry port 8 ALL = all applicable values
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
ALMTYPE	Environmental alarm type	Refer to Table 13-6 .	Refer to Table 13-6 .
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day

Table 13-5 (continued)
REPT ALM ENV output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
ALMMSG	Alarm message	Character string Maximum 40 characters	Character string Maximum 40 characters
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer

Table 13-6 lists possible values for the parameter ALMTYPE (environmental alarm type).

Table 13-6
Environmental alarm type parameters

Value	Description
AIRCOMPR	Air compressor failure
AIRCOND	Air conditioning failure
AIRDRYER	Air dryer failure
BATDSCHRG	Battery discharging
BATTERY	Battery failure
CLFAN	Cooling fan failure
CPMAJOR	Centralized power major environmental alarm or major equipment failure, such as FITL systems
CPMINOR	Centralized power minor environmental alarm or minor equipment failure, such as FITL systems

Table 13-6 (continued)
Environmental alarm type parameters

Value	Description
ENGINE	Engine failure
ENGOPRG	Engine operating
EXPLGS	Explosive gas
FIREDETR	Fire detector failure
FIRE	Fire
FLOOD	Flood
FUSE	Fuse failure
GEN	Generator failure
HIAIR	High airflow
HIHUM	High humidity
HITEMP	High temperature
HIWTR	High water
INTRUDER	Intrusion
LWBATVG	Low battery voltage
LWFUEL	Low fuel
LWHUM	Low humidity
LWPRES	Low cable pressure
LWTEMP	Low temperature
LWWTR	Low water
MISC	Miscellaneous
OPENDR	Open door
POWER	Commercial power failure
PUMP	Pump failure
POWRX	x Volt power supply failure (where x is a positive integer)
RECT	Rectifier failure
RECTHI	Rectifier high voltage
RECTLO	Rectifier low voltage

Table 13-6 (continued)
Environmental alarm type parameters

Value	Description
SMOKE	Smoke
TOXICGAS	Toxic gas
VENTN	Ventilation system failure

Example output

The network element reports an air conditioning failure on parallel telemetry port 1:

```
OPT_3_3 01-01-13 00:16:21
A 3 REPT ALM ENV
"PT-1-1:MN,AIRCOND,01-13,00-16-21,\"Parallel Telemetry Scan
Point 1\"
;
```

REPT ALM EQPT (report alarm equipment)

The REPT ALM EQPT messages are generated autonomously by a network element to report the onset or clearing of a standing condition on network element equipment that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM EQPT
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>
,<dirn>]: [<conddescr>], [<aiddet>], [<obsdbhvr>]:
 [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>],
 [SIGLAYER=<siglayer>], [YEAR=<year>]";
```

Table 13-7
REPT ALM EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for equipment	APBE, ECT, OCI, OCLD, OCM, OFA, OMX, OTR, MOTR, MOTRSFP, SP, OCI GFSRM, SRM equipment For AID values see Table 1-5 on page 1-14	ECT, OCI, OCLD, OTR, MOTR, MOTRSFP, OMX, SP, OCI GFSRM, SRM For AID values see Table 1-5 on page 1-14
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string

Table 13-7 (continued)
REPT ALM EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 13-7 (continued)
REPT ALM EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual

Table 13-7 (continued)
REPT ALM EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Unused	Unused
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an equipment alarm on the MOTRSFP:

```
LIMA 03-07-05 18-18-47
A 35 REPT ALM EQPT
"MOTRSFP-1-6:MJ,EQPT-MISSING,NSA,03-07,18-18-47,, :
\"Circuit Pack Missing - Pluggable\":,,:000000-0000-0176,:
SUBCARDTYPE=\"2.5GB Unspecified\",
SIGLAYER=\"GIGABITETHERNET:OS\",YEAR=2005"
;
```

REPT ALM GFSRM (report alarm GFSRM)

The REPT ALM GFSRM messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OCI SRM GbE/FC or OCI SRM GbE facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM GFSRM
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]";
```

Table 13-8
REPT ALM GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 13-8 (continued)
REPT ALM GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports a facility alarm on the OCI SRM GbE/FC:

```
OM5000-1-44 05-03-08 8:36:04
** 239 REPT ALM GFSRM
GFSRM-5:MJ, REPLUNITMISS, NSA, 03-08, 18-36-04, , NA:
```

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```
\"Circuit Pack Missing\",, :000000-0000-0001, :
SUBCARDTYPE=\"2.5GB GEFC 850nm\",YEAR=2005"
;
```

REPT ALM MOTR (report alarm MOTR)

The REPT ALM MOTR messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an MOTR facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM MOTR
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]";
```

**Table 13-9
REPT ALM MOTR output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-9 (continued)
REPT ALM MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports a facility alarm on the MOTR:

```
OM5000-1-44 02-02-20 20:07:02
* 239 REPT ALM MOTR
"5-11:MN,LPBKTERM,NSA,02-20,20-07-02,NEND,ZA:\ "Terminal
Loopback\"," , "
;
```

REPT ALM MOTRSFP (report alarm MOTRSFP)

The REPT ALM MOTRSFP messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an MOTRSFP facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM MOTRSFP
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>
,<dirn>]:<conddescr>,<aiddet>,<obsdbhvr>]:
<dgntype>,<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]" ;
```

Table 13-10
REPT ALM MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second

Table 13-10 (continued)
REPT ALM MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified	Character string 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports a facility alarm on the MOTRSFP port 8:

```
OM5000-1-44 02-02-20 20:07:02
* 239 REPT ALM MOTRSFP
"1-8:CR,LOS,SA,03-08,15-45-18,NEND,ZA:\"Loss of Signal\",,\"GE
```

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```
test port 8\":000000-0000-0007, :SUBCARDTYPE=\"2.5GB 850nm\",
SIGLAYER=\"GIGABITETHERNET:OS\", YEAR=2005"
;
```

REPT ALM OCI (report alarm OCI)

The REPT ALM OCI messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OCI facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OCI
"<aid>:<ntfncde>, <condtype>, <srveff>, <ocrdat>, <ocrtm>, [<locn>]
, [<dirn>]: [<conddescr>], [<aiddet>], [<obsdbhvr>]:
 [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>],
 [SIGLAYER=<siglayer>], [YEAR=<year>]" ;
```

**Table 13-11
REPT ALM OCI output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-11 (continued)
REPT ALM OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports a facility alarm on the OCI:

```
OM5000-1-44 02-02-20 20:07:02
* 239 REPT ALM OCI
"5-1:MN,LPBKTERM,NSA,02-20,20-07-02,NEND,ZA:\ "Terminal
Loopback\"," , "
;
```

REPT ALM OCLD (report alarm OCLD)

The REPT ALM OCLD messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OCLD facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OCLD
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>
,<dirn>]: [<conddescr>], [<aiddet>], [<obsdbhvr>]:
 [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>],
 [SIGLAYER=<siglayer>], [YEAR=<year>]" ; ;
```

Table 13-12
REPT ALM OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end

Table 13-12 (continued)
REPT ALM OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports a facility alarm on the OCLD:

```
OM5000-1-44 02-02-20 20:01:10
* 155 REPT ALM OCLD
"1-1:MN,LPBKFACILITY,NSA,02-20,20-01-09,NEND,ZA:\ "Facility
Loopback\"," , "
;
```

REPT ALM OFA (report alarm OFA)

The REPT ALM OFA messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OFA facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OFA
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
 [<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]" ;
```

Table 13-13
REPT ALM OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end

Table 13-13 (continued)
REPT ALM OFA output syntax definition

Parameter	Description	Possible values (5200)
DIRN	Direction	AZ = transmit ZA = receive
CONDDDESCR	Condition description	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused
SUBCARDTYPE	Sub card type value	High Input Power Standard Variable Gain
SIGLAYER	Signal and layer information	Unused
YEAR	Year when the alarm occurred	Integer

Example output

The network element reports a facility alarm on the OFA in slot 4:

```
OM5000-1-49 02-02-0 23:29:23
*C 228 REPT ALM OFA
"4-1, OFA:MN, PWROORL, NSA, 02-10, 23:29:23, NEND, AZ, , , , , , ALM,
2628:\ "Power Out of Range Low\ ":
SUBCARDTYPE=\ "Variable Gain\ ", SIGLAYER=\ ":OTS\ "
;
```

REPT ALM OHCHN (report alarm overhead channel facility)

The REPT ALM OHCHN messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OCLD, OTR, MOTR, OSC overhead channel facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OHCHN
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]";
```

Table 13-14
REPT ALM OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OCLD, OTR, MOTR, OSC overhead facility For AID values see Table 1-6 on page 1-17	OCLD, OTR, MOTR, OSC overhead facility For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 13-14 (continued)
REPT ALM OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an overhead channel facility alarm on the OCLD:

```
OM5000-1-44 02-02-20 20:01:23
* 165 REPT ALM OHCHN
"6-1-OH-OCLD, OHCHN:CL, OHFAIL, NSA, 02-28, 16-51-52, NEND, ZA, , , , , , ,
ALM, 1041:\ "Overhead Link Failure\ ":SUBCARDTYPE=\ "1.25GB
Transparent\ ", SIGLAYER=\ "AM_GCC1:PPP\ ""
;
```

REPT ALM OMX (report alarm OMX)

The REPT ALM OMX messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OMX facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OMX
"<aid>:<ntfncde>, <condtype>, <srveff>, <ocrdat>, <ocrtm>, [<locn>]
, [<dirn>]: [<conddescr>], [<aiddet>], [<obsdbhvr>]:
 [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>],
 [SIGLAYER=<siglayer>], [YEAR=<year>]";
```

Table 13-15
REPT ALM OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OMX facility For AID values see Table 1-6 on page 1-17	OMX facility For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second

Table 13-15 (continued)
REPT ALM OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTY PE	Sub card type value	Character string CWDM DWDM 200GHz ITU CWDM	Character string CWDM DWDM 200GHz ITU CWDM
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an alarm on the OMX west:

```
OM5000-1-44 02-02-20 21:03:00
*C 1789 REPT ALM OMX
"WEST-1-OMX-1-OTS:CR,BIF-1W,SA,02-20,21-03-00,NEND,ZA:\ "Band 1
Input Failure West \", "
;
```

REPT ALM OSC (report alarm OSC)

The REPT ALM OSC messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OSC facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OSC
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]" ;
```

Table 13-16
REPT ALM OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end

Table 13-16 (continued)
REPT ALM OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

REPT ALM OTR (report alarm OTR)

The REPT ALM OTR messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an OTR facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM OTR
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]";
```

Table 13-17
REPT ALM OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 13-17 (continued)
REPT ALM OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an alarm on the OTR:

```
OM5000-1-44 05-02-20 20:52:59
** 1600 REPT ALM OTR
"3-2,OTR:MJ,LOS,NSA,02-20,20-52-59,NEND,ZA,,,,,ALM,2745:
\"Loss of Signal\":SUBCARDTYPE=\"10GB\",SIGLAYER=\"OTM2:OCH\" "
;
```

REPT ALM SECU (report alarm security)

The REPT ALM SECU messages are generated autonomously by a network element to report security alarms.

Output syntax

```
SID DATE TIME
ATAG REPT ALM SECU
"<aid>:<ntfncde>,<secualmtype>,<ocrdat>,<ocrtm>,<msg>:
[<dgntype>],[YEAR=<year>]" ;
```

Table 13-18
REPT ALM SECU output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the network element	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
SECUALMTYPE	Security alarm type type	INTRUSION RADIUSPU RADIUSU RADIUSU	INTRUSION RADIUSPU RADIUSU RADIUSU
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second

Table 13-18 (continued)
REPT ALM SECU output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MSG	Alarm text	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer

REPT ALM SPLT (report alarm SPLT)

The REPT ALM SPLT messages are generated autonomously by a network element to report the onset or clearing of a standing condition on C&L or OSC splitter coupler facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM SPLT
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]" ;
```

Table 13-19
REPT ALM SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17	C&L splitter coupler facility For AID values see Table 1-6 on page 1-17
		OSC splitter coupler facility For AID values see Table 1-6 on page 1-17	OSC splitter coupler facility For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDSCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable

Table 13-19 (continued)
REPT ALM SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string W-Spltr 1310nm	Character string W-Spltr 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports a critical alarm on the OSCSPLT:

```
OM5000-1-44 02-02-20 21:12:54
*C 2045 REPT ALM SPLT
"WEST-1-OSCSPLT-OTS:CR, OSFT, SA, 02-20, 21-12-54, NEND, AZ:\ "Optical
  1 Signal Failure Tx\"," , , "
;
```

The network element reports a critical alarm on the CNLSPLT:

```
OM5000-1-44 02-02-20 21:13:15
*C 2061 REPT ALM SPLT
"WEST-1-CNLSPLT-L:CR, OSFT, SA, 02-20, 21-13-15, NEND, AZ:\ "Optical
  Signal Failure Tx\"," , , "
;
```

REPT ALM SRM (report alarm SRM)

The REPT ALM SRM messages are generated autonomously by a network element to report the onset or clearing of a standing condition on an SRM OCI, ESCON SRM OCI, or SONET/SDH SRM OCI facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM SRM
"<aid>:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,[<locn>]
,[<dirn>]: [<conddescr>],[<aiddet>],[<obsdbhvr>]:
[<dgntype>],[<tblislt>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>],[YEAR=<year>]";
```

Table 13-20
REPT ALM SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters

Table 13-20 (continued)
REPT ALM SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for alarms related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an alarm on slot 11, port 1:

```
OPT_3_2 00-12-19 15:48:29
A 54 REPT ALM SRM
"11-1:CR,LOS,SA,12-19,15-48-29,FEND,ZA:\"Loss of Signal\",, "
;
```

REPT ALM WSC (report alarm WSC)

The REPT ALM WSC messages are generated autonomously by a network element to report the onset or clearing of a standing condition on a WSC facility that requires immediate attention.

Output syntax

```
SID DATE TIME
A ATAG REPT ALM WSC
"<aid>:<ntfncde>, <condtype>, <srveff>, <ocrdat>, <ocrtm>, [<locn>]
, [<dirn>]: [<conddescr>], [<aiddet>], [<obsdbhvr>]:
 [<dgntype>], [<tblislt>]: [SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>], [YEAR=<year>]";
```

Table 13-21
REPT ALM WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for WSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor CL = Clear	CR = Critical MJ = Major MN = Minor CL = Clear
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
CONDDESCR	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 13-21 (continued)
REPT ALM WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for alarms related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string Tray without Tap Tray with Tap Tray Dual Taps	Character string Tray without Tap Tray with Tap Tray Dual Taps
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an alarm against the WSC:

```
OM5000-1-1 05-03-08 19:05:15
* 586 REPT ALM WSC
"20-EAST-WSC:MN,LOLNK,NSA,03-08,19-05-13,NEND,ZA:\ "Loss of
Link\"," , :000000-0000-0176 , :SIGLAYER=\ "FX100:PCS\ " , YEAR=2005"
;
```

REPT COND APBE (report condition APBE)

The REPT COND APBE message provides hourly reports of standing conditions on an APBE facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND APBE
" [<aid>]:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<timper>:[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>]"
;
```

Table 13-22
REPT COND APBE output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	Unused
SUBCARDTYPE	Sub card type value	Unused
SIGLAYER	Signal and layer information	Character string

Example output

The network element reports the current condition of an alarm for the APBE:

```
OM5000-1-49 02-01-21 05:00:00
A 8 REPT COND APBE
"2-1:CR,LOS,SA,01-21,04-26-09,FEND,ZA,"
;

OM5000-1-49 02-01-21 05:00:00
A 9 REPT COND APBE
"2-1:MN,HIGHOPW,NSA,01-21,04-26-37,NEND,ZA,"
;

OM5000-1-49 02-02-21 00:00:00
A 232 REPT COND APBE
"2-1:CR,LOS,SA,02-20,23-30-10,FEND,ZA,"
;
```

REPT COND COM (report condition communication)

The REPT COND COM message provides an hourly report of standing communication conditions on the network element. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND COM
" [<aid> ] : <ntfncde> , <condtype> , <srveff> , [<ocrdat> ] , [<ocrtm> ] ,
[<locn> ] , [<dirn> ] , [<timper> ] : [SUBCARDTYPE=<subcardtype> ] ,
[SIGLAYER=<siglayer> ] "
;
```

Table 13-23
REPT COND COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	Unused	Unused
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting

Table 13-23 (continued)
REPT COND COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Unused	Unused

Example output

```
OM5000-1-44 02-02-21 02:00:01
A 25 REPT COND COM
":MJ,DBMEMTRF,NSA,02-21,01-47-55,,NA,"
;

OM5000-1-44 02-02-21 02:00:01
A 26 REPT COND COM
":MN,SWLOAD,NSA,02-21,01-48-07,,NA,"
;
```

REPT COND EQPT (report condition equipment)

The REPT COND EQPT message provides an hourly report of standing conditions on the network element equipment. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND EQPT
" [<aid>]:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<timper>]:[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>]"
;
```

Table 13-24
REPT COND EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	APBE, ECT, OCI, OCLD, OCM, OFA, OMX, OTR, MOTR, MOTRSFP, SP, OCI GFSRM, SRM equipment For AID values see Table 1-5 on page 1-14	ECT, OCI, OCLD, OMX, OTR, MOTR, MOTRSFP, SP, OCI GFSRM, SRM equipment For AID values see Table 1-5 on page 1-14
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused

Table 13-24 (continued)
REPT COND EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm

Table 13-24 (continued)
REPT COND EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Unused	Unused

Example output

The network element reports the current condition of an alarm on the OCLD in slot 17:

```
OPT-1-1 01-01-13 00:00:00
A 15 REPT COND EQPT
"MOTR-3:MJ,REPLUNITMISS,NSA,03-03,18-52-46,,NA, :
SUBCARDTYPE=\"10.7GB GEFC DWDM 100GHz\", \"
;
```

REPT COND GFSRM (report condition GFSRM)

The REPT COND GFSRM message provides an hourly report of standing conditions on an OCI SRM GbE/FC or OCI SRM GbE facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND GFSRM
\"[<aid>]:<ntfncde>,<condtype>,<srveff>,[<ocrdat>],[<ocrtm>],
[<locn>],[<dirn>],[<timper>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>]\"
;
```

Table 13-25
REPT COND GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on the OCI SRM GbE/FC in slot 14:

```
OM5000-1-44 00-12-12 23:00:00
A 1693 REPT COND GFSRM
"14-1:NA,T-CVS,NSA,07-20,05-37-10,NEND,ZA,15-MIN"
;

OM5000-1-44 00-12-12 23:00:00
A 1694 REPT COND GFSRM
"14-1:NA,T-CVS,NSA,07-20,05-37-10,NEND,ZA,1-DAY"
;
```

REPT COND MOTR (report condition MOTR)

The REPT COND MOTR message provides an hourly report of standing conditions on an MOTR facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND MOTR
" [<aid> ] : <ntfncde> , <condtype> , <srveff> , [<ocrdat> ] , [<ocrtm> ] , [<locn> ] , [<dirn> ] , [<timper> ] : [SUBCARDTYPE=<subcardtype> ] ,
[SIGLAYER=<siglayer> ] "
;
```

Table 13-26
REPT COND MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day

Table 13-26 (continued)
REPT COND MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on the MOTR in slot 7:

```
OM5000-1-44 00-12-12 23:00:00
A 1693 REPT COND MOTR
"7-11:NA,T-CV,NSA,07-20,05-37-10,NEND,ZA,15-MIN"
;

OM5000-1-44 00-12-12 23:00:00
A 1694 REPT COND MOTR
"7-11:NA,T-CV,NSA,07-20,05-37-10,NEND,ZA,1-DAY"
;
```

REPT COND MOTRSFP (report condition MOTRSFP)

The REPT COND MOTRSFP message provides an hourly report of standing conditions on an MOTRSFP facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND MOTRSFP
" [<aid>]:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<
locn>,<dirn>,<timper>:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>]"
;
```

Table 13-27
REPT COND MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-27 (continued)
REPT COND MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 2.5GB 850nm 2.5GB 1310nm 2.5GB Unspecified	Character string 2.5GB 850nm 2.5GB 1310nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on the MOTRSFP port 1 in slot 7:

```
OM5000-1-44 00-12-12 23:00:00
A 1693 REPT COND MOTRSFP
"1-8:CR,LOS,SA,03-08,15-45-18,NEND,ZA,:SUBCARDTYPE=\"2.5GB
850nm\",SIGLAYER=\"GIGABITETHERNET:OS\" "
;
```

REPT COND OCI (report condition OCI)

The REPT COND OCI message provides an hourly report of standing conditions on an OCI facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND OCI
" [<aid>]:<ntfncde>,<condtype>,<srveff>,[<ocrdat>],[<ocrtm>],[<
locn>],[<dirn>],[<timper>]:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>] "
;
```

Table 13-28
REPT COND OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on the OCI in slot 14:

```
OM5000-1-44 00-12-12 23:00:00
A 1693 REPT COND OCI
"14-1:NA,T-CVS,NSA,07-20,05-37-10,NEND,ZA,15-MIN"
;

OM5000-1-44 00-12-12 23:00:00
A 1694 REPT COND OCI
"14-1:NA,T-CVS,NSA,07-20,05-37-10,NEND,ZA,1-DAY"
;
```

REPT COND OCLD (report condition OCLD)

The REPT COND OCLD message provides an hourly report of standing conditions on an OCLD facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND OCLD
" [<aid> ] : <ntfncde> , <condtype> , <srveff> , [<ocrdat> ] , [<ocrtm> ] ,
[ <locn> ] , [<dirn> ] , [<timper> ] : [SUBCARDTYPE=<subcardtype> ] ,
[SIGLAYER=<siglayer> ] "
;
```

Table 13-29
REPT COND OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day

Table 13-29 (continued)
REPT COND OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm for the OCLD:

```
OM5000-1-44 00-12-12 23:00:00
A 1694 REPT COND OCLD
"16-1:MJ,LOS,NSA,07-20,05-37-10,NEND,ZA,"
;

OM5000-1-44 00-12-12 23:00:00
A 1695 REPT COND OCLD
"16-1:NA,T-CVS,NSA,07-20,05-37-10,NEND,ZA,15-MIN"
;

OM5000-1-44 00-12-12 23:00:00
A 1696 REPT COND OCLD
"16-1:NA.T-CVS,NSA,07-20,05-37-10,NEND,ZA,1-DAY"
;
```

REPT COND OFA (report condition OFA)

The REPT COND OFA message provides an hourly report of standing conditions on an OFA facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND OFA
" [<aid>]:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<tmper>:[SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>]"
;
```

Table 13-30
REPT COND OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive

Table 13-30 (continued)
REPT COND OFA output syntax definition

Parameter	Description	Possible values (5200)
TMPER	Time period	Unused
SUBCARDTYPE	Sub card type value	Character string High Input Power Standard Variable Gain
SIGLAYER	Signal and layer information	Character string

Example output

The network element reports the current condition of an alarm for the OFA in slot 4:

```
OM5000-1-49 02-02-21 00:00:00
A 233 REPT COND OFA
"8-1:CR,LOS,SA,02-20,23-29-22,FEND,ZA,"
;
```

REPT COND OHCHN (report condition overhead channel facility)

The REPT COND OHCHN message provides an hourly report of standing conditions on an OCLD, OTR, OSC overhead channel facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND OHCHN
" [<aid> ] : <ntfncde> , <condtype> , <srveff> , [<ocrdat> ] , [<ocrtm> ] ,
```

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```
[<locn>] , [<dirn>] , [<tmper>] : [SUBCARDTYPE=<subcardtype>] ,
[SIGLAYER=<siglayer>]"
;
```

Table 13-31
REPT COND OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OCLD, OSC, OTR, MOTR overhead channel facility For AID values see Table 1-6 on page 1-17	OCLD, OSC, OTR, MOTR overhead channel facility For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-31 (continued)
REPT COND OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPPER	Time period	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports on the current condition of the overhead channel facility on the OCLD in slot 15:

```
OPT_2_1 01-01-05 15:00:00
A 17 REPT COND OHCHN
"15-1-OH-OCLD:MJ,OHSYNCLLOSS,NSA,01-05,14-18-14,FEND,NA,"
;
```

REPT COND OMX (report condition OMX)

The REPT COND OMX message provides an hourly report of standing conditions on OMX facilities. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND OMX
" [<aid> ] : <ntfncde> , <condtype> , <srveff> , [<ocrdat> ] , [<ocrtm> ] , [<locn> ] , [<dirn> ] " , [<tmpper> ] : [SUBCARDTYPE=<subcardtype> ] ,
[SIGLAYER=<siglayer> ] ;
```

Table 13-32
REPT COND OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OMX facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string CWDM DWDM 200GHz ITU CWDM	Character string CWDM DWDM 200GHz ITU CWDM
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on OMX:

```
OM5000-1-44 02-02-21 02:00:01
A 27 REPT COND OMX
"WEST-1-OMX-1-OTS:CR, OSFT, SA, 02-21, 01-41-53, NEND, AZ, "
;
```

```

OM5000-1-44 02-02-21 02:00:01
A 28 REPT COND OMX
"WEST-1-OMX-1-OTS:NA,AIS-BIF,NSA,02-21,01-42-45,FEND,ZA,"
;

OM5000-1-44 02-02-21 02:00:01
A 29 REPT COND OMX
"EAST-1-OMX-8-OTS:NA,AIS-BIF,NSA,02-21,01-43-02,FEND,ZA,"
;

OM5000-1-44 02-02-21 02:00:01
A 30 REPT COND OMX
"EAST-1-OMX-8-THRU:CR,OSFR,SA,02-21,01-40-26,NEND,ZA,"
;

```

REPT COND OSC (report condition OSC)

The REPT COND OSC message provides an hourly report of standing conditions on OSC facilities. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```

SID DATE TIME
A ATAG REPT COND OSC
" [<aid> ] : <ntfncde> , <condtype> , <srveff> , [<ocrdat> ] , [<ocrtm> ] ,
[ <locn> ] , [<dirn> ] , [<timper> ] : [SUBCARDTYPE=<subcardtype> ] ,
[SIGLAYER=<siglayer> ] "
;

```

Table 13-33
REPT COND OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day

Table 13-33 (continued)
REPT COND OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on OSC east:

```
OPT_2_1 01-01-05 15:00:00
A 29 REPT COND OSC
"20-EAST-OSC:CR,BIF,SA,01-05,14-18-15,NEND,ZA,"
;
```

REPT COND OTR (report condition OTR)

The REPT COND OTR message provides an hourly report of standing conditions on OTR facilities. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions for each message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND OTR
" [<aid>]:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<tmper>:[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>]"
;
```

Table 13-34
REPT COND OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on an OTR:

```
OM5000-1-44 02-02-21 02:00:01
A 22 REPT COND OTR
"3-1:NA,T-CVS,NSA,02-21,01-45-13,FEND,ZA,15-MIN"
;

OM5000-1-44 02-02-21 02:00:01
A 22 REPT COND OTR
"3-1:NA,T-CVS,NSA,02-21,01-45-13,FEND,ZA,1-DAY"
;
```

REPT COND SPLT (report condition SPLT)

REPT COND SPLT messages provide an hourly report of standing conditions on C&L and OSC splitter/coupler facilities.

Output syntax

```
SID DATE TIME
A ATAG REPT COND SPLT
"[<aid>]:<ntfncde>,<condtype>,<srveff>,[<ocrdat>],[<ocrtm>],[<locn>],[<dirn>],[<tper>]:[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>]"
;
```

Table 13-35
REPT COND SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	C&L and OSC splitter coupler facilities For AID values see Table 1-6 on page 1-17	C&L and OSC splitter coupler facilities For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD where MM = month DD = day	MM-DD where MM = month DD = day

Table 13-35 (continued)
REPT COND SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS where HH = hour MM = minute SS = second	HH-MM-SS where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string W-Spltr 1310nm	Character string W-Spltr 1310nm
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition (critical alarm) of the OSCSPLT:

```
OM5000-1-44 02-02-21 02:00:01
A 31 REPT COND SPLT
"WEST-1-OSCSPLT-OTS:CR, OSFR, SA, 02-21, 01-38-04, NEND, ZA, "
;
```

```
OM5000-1-44 02-02-21 02:00:01
A 32 REPT COND SPLT
"EAST-1-OSCSPLT-OTS:CR, OSFT, SA, 02-21, 01-37-32, NEND, AZ, "
;
```

The network element reports the current condition (critical alarm) of the CNLSPLT :

```
OM5000-1-44 02-02-21 02:00:01
A 33 REPT COND SPLT
"WEST-1-CNLSPLT-OTS:CR, OSFT, SA, 02-21, 01-37-47, NEND, AZ, "
;
```

```
OM5000-1-44 02-02-21 02:00:01
A 34 REPT COND SPLT
"WEST-1-CNLSPLT-OTS:CR, OSFR, SA, 02-21, 01-38-17, NEND, ZA, "
;
```

REPT COND SRM (report condition SRM)

The REPT COND SRM message provides an hourly report of standing conditions on a SRM OCI or SONET/SDH SRM OCI facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND SRM
" [<aid>] :<ntfncde>, <condtype>, <srveff>, [<ocrdat>], [<ocrtm>], [<locn>], [<dirn>], [<tmper>] : [SUBCARDTYPE=<subcardtype>],
[SIGLAYER=<siglayer>]"
;
```

Table 13-36
REPT COND SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Majorvz MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-36 (continued)
REPT COND SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period - the accumulation time period for the PM information specified in the TCA report	1-DAY=daily 15-MIN=15 minute intervals	1-DAY=daily 15-MIN=15 minute intervals
SUBCARDTYPE	Sub card type value	Character string 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of the SRM OCI in slot 11, port 1:

```
OM5000-1-44 00-12-19 15:48:29
A 54 REPT COND SRM
"11-1:NA,T-CVS,NSA,12-19,15-48-29,FEND,ZA,15-MIN"
;
```

```
OM5000-1-44 00-12-19 15:48:29
A 54 REPT COND SRM
"11-1:NA,T-CVS,NSA,12-19,15-48-29,FEND,ZA,1-DAY"
;
```

REPT COND WSC (report condition WSC)

The REPT COND WSC message provides an hourly report of standing conditions on a WSC facility. The report summarizes what has been signaled by the REPT EVT or REPT ALM messages. Unlike REPT ALM/EVT, it supports multiple rows/conditions per message.

Output syntax

```
SID DATE TIME
A ATAG REPT COND WSC
" [<aid>]:<ntfncde>,<condtype>,<srveff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<tper>]:[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>]"
;
```

Table 13-37
REPT COND WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for WSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
NTFNCDE	Notification code	CR = Critical MJ = Major MN = Minor NA = Non Alarm	CR = Critical MJ = Major MN = Minor NA = Non Alarm
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
SRVEFF	Service effect	SA = service-affecting NSA = non-service-affecting	SA = service-affecting NSA = non-service-affecting
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string Tray without Tap Tray with Tap Tray Dual Taps	Character string Tray without Tap Tray with Tap Tray Dual Taps
SIGLAYER	Signal and layer information	Character string	Character string

Example output

The network element reports the current condition of an alarm on WSC east:

```
OM5000-1-44 01-01-05 15:00:00
A 29 REPT COND WSC
"20-EAST-WSC:CR,BIF,SA,01-05,14-18-15,NEND,ZA,"
;
```

REPT DBCHG (report database change)

The REPT DBCHG message reports a change of a network element database and provides a textual description of the change that occurred. For example, REPT DBCHG reports when any modification is made on the network element such as creating a facility, deleting it, or removing it.

Output syntax

```
SID DATE TIME
A ATAG REPT DBCHG
"TIME=<thetime>,DATE=<thedate>, [SOURCE=<source>] ,
[LINKID=<linkid>] , [USERID=<userid>] ,DBCHGSEQ=<dbchgseq>:
<command>: [<aيدا> [&<aيدا> [&<aيدا>]] ] :<tida>, [<uap>] :
[PARAMETERS] : [<message>]" ;
```

Table 13-38
REPT DBCHG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
THETIME	Time of the event	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
THEDATE	Date of the event	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
SOURCE	source (CTAG value)	Alphanumeric string	Alphanumeric string
LINKID	User IP address	x.x.x.x	x.x.x.x
USERID	TL1 user ID	admin operator	admin operator
DBCHGSEQ	Sequence number of changes	integer	integer
COMMAND	TL1 command operated	TL1 command executed	TL1 command executed
AIDA	Access identifier used	Alphanumeric string	Alphanumeric string
AIDB	Access identifier used	Alphanumeric string	Alphanumeric string
AIDC	Access identifier used	Alphanumeric string	Alphanumeric string
TID	Target identifier	Character string	Character string
AID	Access identifier used	Unused	Unused

Table 13-38 (continued)
REPT DBCHG output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
UAP	User Access Privilege	NULL R RW RWA	NULL R RW RWA
PARAMETERS	Parameters (names and values) modified by the command.	P1=v1,P2=v2,P3=v3,..... Pn=vn. PARAMETERS is optional	P1=v1,P2=v2,P3=v3,..... Pn=vn. PARAMETERS is optional
MESSAGE	Message text	Character string	Character string

Example output

```
TID-000 98-06-20 14-30-00
A 001 REPT DBCHG
"TIME=10-10-89,DATE=12-12-97, SOURCE=1234, LINKID=CIT-1, USERID=P
EPE, DBCHGSEQ=9999:DLT-EQPT:AID:TID, UAP:PARAMETERS:\ "MESSAGE\" "
;
```

REPT EVT APBE (report event APBE)

The REPT EVT APBE message is generated by the network element to report the occurrence of non-alarmed events on an APBE facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT APBE
"[<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>]: [<conddesc>],
 [<aiddet>], [<obsdbhvr>]: [<dgntype>], [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>]";
```

Table 13-39
REPT EVT APBE output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for APBE facility	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
MONVAL	Monitored value	Unused
THLEV	Threshold level	Unused
TMPER	Time period	Unused
CONDDESC	Condition description	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused
OBSDBHVR	Connection information for events related to a connection.	Not applicable

Table 13-39 (continued)
REPT EVT APBE output syntax definition

Parameter	Description	Possible values (5200)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused
SUBCARDTYPE	Sub card type value	Unused
SIGLAYER	Signal and layer information	Character string
YEAR	Year when the alarm occurred	Integer

Example output

The network element reports an event has occurred on the APBE facility:

```
OM5000-1-49 02-02-20 22:25:35
A 68 REPT EVT APBE
"2-1:BLMAX,,02-20,22-25-32,NEND,ZA,:\ "APBE Band Set to Maximum
Loss\","
;
```

The network element reports an event has occurred on the APBE facility:

```
OM5000-1-49 02-01-21 04:24:13
A 1 REPT EVT APBE
"2-2:EQCOMPL,,01-21,04-24-13,NEND,ZA,:\ "Band Equalization
Complete\","
;
```

REPT EVT COM (report event COM)

The REPT EVT COM message is generated by the network element to report the occurrence of non-alarmed events on common equipment.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT COM
" [<aid>]:<condtype>,<condef>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<monval>,<thlev>,<timper>]:<conddesc>,"
```

```
[<aiddet>] , [<obsdbhvr>] : [<dgntype>] , [<tblislt>] :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[YEAR=<year>] " ;
```

Table 13-40
REPT EVT COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Unused	Unused
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused

Table 13-40 (continued)
REPT EVT COM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Not applicable	Unused
SIGLAYER	Signal and layer information	Unused	Unused
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event has occurred:

```
OM5000-1-44 02-02-20 19:50:38
A 43 REPT EVT COM
":SWLOADREM,,02-20,19-50-24,,NA,:"Distributed Loads
Removed\"";
```

REPT EVT EQPT (report event equipment)

The REPT EVT EQPT message is generated by the network element to report the occurrence of non-alarmed events on network element equipment.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT EQPT
" [<aid> ] : <condtype> , [<condeff> ] , [<ocrdat> ] , [<ocrtm> ] , [<locn> ] ,
[<dirn> ] , [<monval> ] , [<thlev> ] , [<tmper> ] : [<conddesc> ] ,
```

```
[<aiddet>] , [<obsdbhvr>] : [<dgntype>] , [<tblislt>] :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[YEAR=<year>] " ;
```

Table 13-41
REPT EVT EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	APBE, ECT, OCI, OCLD, OCM, OFA, OMX, OTR, MOTR, MOTRSFP, SP, GFSRM, SRM equipment For AID values see Table 1-5 on page 1-14	ECT, OCI, OCLD, OMX, OTR, MOTR, MOTRSFP, SP, GFSRM, SRM For AID values see Table 1-5 on page 1-14
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-41 (continued)
REPT EVT EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONVAL	Monitored value	Unused	Unused
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP- UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 13-41 (continued)
REPT EVT EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm CWDM DWDM 200GHz ITU CWDM I2CEIU Manual

Table 13-41 (continued)
REPT EVT EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified High Input Power Standard Variable Gain	Tray without Tap Tray with Tap Tray Dual Taps W-Spltr 1310nm 2 Filter Single Mode 4 Filter Single Mode 2 Filter Multi Mode 4 Filter Multi Mode DSCM C Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 DSCM L Band xkm where x= 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Unused	Unused
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event has occurred on the OCI SRM GbE/FC equipment in slot 5:

```
OM5000-1-1 05-03-08 18:36:04
A 492 REPT EVT EQPT
"GFSRM-5:OPSTATIS,TC,03-08,18-36-04,,NA,,,:
\"Equipment Administrative state change: in-service\",,:
000000-0000-0269,:YEAR=2005"
;
```

REPT EVT FXFR (report event file transfer)

The REPT EVT FXFR message is generated by the network element to report file transfer (FTP) on network element equipment.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT FXFR
"<filename>,<fxfrStatus>,[<fxfrRslt>],[<bytesXfrd>]"
```

Table 13-42
REPT EVT FXFR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
filename	Name of the file being transferred	Character string	Character string
fxfrStatus	File transfer status	START - Indicates file transfer has started. IP - Indicates file transfer is In-Progress. COMPLD - Indicates file transfer has completed	START - Indicates file transfer has started. IP - Indicates file transfer is In-Progress. COMPLD - Indicates file transfer has completed
fxfrRslt	File transfer result	SUCCESS - Indicates successful file transfer. FAILURE - Indicates failed file transfer.	SUCCESS - Indicates successful file transfer. FAILURE - Indicates failed file transfer.
bytesXfrd	Number of bytes transferred for IP status and total number of bytes for START and COMPLD status.	Integer number	Integer number

REPT EVT GFSRM (report event GFSRM)

The REPT EVT GFSRM message is generated by the network element to report the occurrence of non-alarmed events on an OCI SRM GbE/FC or OCI SRM GbE facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT GFSRM
" [<aid>]:<condtype>,[<condeff>],[<ocrdat>],[<ocrtm>],[<locn>],
 [<dirn>],[<monval>],[<thlev>],[<tmper>]: [<conddesc>],
 [<aiddet>],[<obsdbhvr>]: [<dgntype>],[<tblislt>]:
 [SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>],
 [YEAR=<year>]" ;
```

Table 13-43
REPT EVT GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value (performance parameter)	Number	Number
THLEV	Threshold level The desired threshold level for the monitored performance parameter type.	<positive integer>	<positive integer> = set threshold to number specified
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes

Table 13-43 (continued)
REPT EVT GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm	Character string 2.5GB GE 850nm 2.5GB GE 1310nm 2.5GB GEFC 850nm 2.5GB GEFC 1310nm 2.5GB GEFC Enhanced 850nm 2.5GB GEFC Enhanced 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event (wait-to-restore period cancelled) has occurred on the OCI SRM GbE/FC facility:

```
OM5000-1-44 02-02-20 20:06:07
A 195 REPT EVT GFSRM
"5-1:T-CVS, SC, 02-20, 20-06-07, NEND, ZA, 24021720, 6710820, 15-MIN:\
"CV SONET 15 Min"
;

OM5000-1-44 02-02-20 20:06:07
A 195 REPT EVT GFSRM
"5-1:T-CVS, GFSRM, 02-20, 20-06-07, NEND, ZA, 24021720, 6710820, 1-DAY
:\ "CV SONET 1 Day"
;
```

REPT EVT MOTR (report event MOTR)

The REPT EVT MOTR message is generated by the network element to report the occurrence of non-alarmed events on an MOTR facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT MOTR
" [<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>]:<conddesc>,
 [<aiddet>], [<obsdbhvr>]:<dgntype>, [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>]";
```

Table 13-44
REPT EVT MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number	Number
THLEV	Threshold level The desired threshold level for the monitored performance parameter type.	<positive integer>	<positive integer> = set threshold to number specified
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes

Table 13-44 (continued)
REPT EVT MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event has occurred on the MOTR facility:

```
OM5000-1-1 05-03-08 18:45:27
A 502 REPT EVT MOTR
"1-11:BDI, SC, 03-08, 18-45-25, FEND, ZA, , , :
```

```

\ "Backward Defect Indication\", , : 000000-0000-0324, :
SUBCARDTYPE= \ "10.7GB Transparent DWDM 200GHz\ ",
SIGLAYER= \ "OTM2:OTU\ ", YEAR=2005"
;

```

REPT EVT MOTRSFP (report event MOTRSFP)

The REPT EVT MOTRSFP message is generated by the network element to report the occurrence of non-alarmed events on an MOTRSFP facility.

Output syntax

```

SID DATE TIME
A ATAG REPT EVT MOTRSFP
" [<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<timper>]:<conddesc>,
 [<aiddet>], [<obsdbhvr>]:<dgntype>, [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>] " ;

```

Table 13-45
REPT EVT MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day

Table 13-45 (continued)
REPT EVT MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number	Number
THLEV	Threshold level The desired threshold level for the monitored performance parameter type.	<positive integer>	<positive integer> = set threshold to number specified
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 13-45 (continued)
REPT EVT MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified	Character string 2.5GB 1310nm 2.5GB 850nm 2.5GB Unspecified
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event has occurred on the MOTRSFP facility:

```
OM5000-1-1 05-03-08 18:29:25
A 458 REPT EVT MOTRSFP
"1-8:FECRF,SC,03-08,18-29-24,FEND,AZ,,,:\"Far End Client Rx
Signal Fail\",,\\"GE test port 8\":000000-0000-0311,:
SUBCARDTYPE=\\"2.5GB 850nm\",SIGLAYER=\\"GIGABITETHERNET:DSR\",
YEAR=2005"
;
```

REPT EVT OCI (report event OCI)

The REPT EVT OCI message is generated by the network element to report the occurrence of non-alarmed events on an OCI facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT OCI
" [<aid>]:<condtype>,<condeff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<monval>,<thlev>,<timper>]:<conddesc>,<aiddet>,<obsdbhvr>]:<dgntype>,<tblislt>:
[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>],
[YEAR=<year>]";
```

Table 13-46
REPT EVT OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value The measured value of a performance monitored parameter. MONVAL is optional.	Number	Number
THLEV	Threshold level The threshold value for the performance monitored parameter. THLEV is optional.	<positive integer>	<positive integer> =

Table 13-46 (continued)
REPT EVT OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period The accumulation time period for the PM information specified. TMPER is optional.	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 622MB Transparent 1.25GB GE 850nm 1.25GB GE 1310nm 1.25GB ISC 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event (wait-to-restore period cancelled) has occurred on the OCI facility:

```
OM5000-1-44 02-02-20 20:06:07
A 195 REPT EVT OCI
"5-1:T-CVS, SC, 02-20, 20-06-07, NEND, ZA, 24021720, 6710820, 15-MIN:\
"CV SONET 15 Min"
;

OM5000-1-44 02-02-20 20:06:07
A 195 REPT EVT OCI
"5-1:T-CVS, SC, 02-20, 20-06-07, NEND, ZA, 24021720, 6710820, 1-DAY:\
CV SONET 1 Day"
;
```

REPT EVT OCLD (report event OCLD)

The REPT EVT OCLD message is generated by the network element to report the occurrence of non-alarmed events on an OCLD facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT OCLD
" [<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<timper>]: [<conddesc>],
 [<aiddet>], [<obsdbhvr>]: [<dgntype>], [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>] " ;
```

Table 13-47
REPT EVT OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCR TM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value (performance parameter)	Number	Number
THLEV	Threshold level The desired threshold level for the monitored performance parameter type.	<positive integer>	<positive integer>
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes

Table 13-47 (continued)
REPT EVT OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event (alarm indication signal) has occurred on the OCLD facility in slot 6:

```
OM5000-1-44 05-03-08 18:25:20
A 153 REPT EVT OCLD
"6-1:AIS-SPS,SC,03-08,18-25-18,NEND,ZA,,,:\"Surrogate Alarm
```

```

Indication Signal\",, :000000-0000-0374, :SUBCARDTYPE=\"1.25GB
Transparent\", SIGLAYER=\":DSR\", YEAR=2005"
;

OM5000-1-44 02-02-20 20:01:07
A 153 REPT EVT OCLD
"16-1:T-CVS, SC, 02-20, 20-01-07, FEND, ZA, 24021720, 6710820, 1-DAY:\
"CV SONET 1 Day\"
;

```

REPT EVT OFA (report event OFA)

The REPT EVT OFA message is generated by the network element to report the occurrence of non-alarmed events on an OFA facility.

Output syntax

```

SID DATE TIME
A ATAG REPT EVT OFA
"[<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>]:<conddesc>,
 [<aiddet>], [<obsdbhvr>]:<dgntype>, [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>]" ;

```

Table 13-48
REPT EVT OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day

Table 13-48 (continued)
REPT EVT OFA output syntax definition

Parameter	Description	Possible values (5200)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
MONVAL	Monitored value	Unused
THLEV	Threshold level	Unused
TMPER	Time period	Unused
CONDDISC	Condition description	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused
SUBCARDTYPE	Sub card type value	High Input Power Standard Variable Gain
SIGLAYER	Signal and layer information	Unused
YEAR	Year when the alarm occurred	Unused

Example output

The network element reports an event (autoprovisioning) has occurred on the OFA in slot 4:

```
OPT_2_3 01-01-05 16:16:10
A 7 REPT EVT OFA
"4-1:AUTOPROV,,01-05,16-16-10,FEND,ZA,:\ "Auto Provisioning\ "
;
```

REPT EVT OHCHN (report event overhead channel facility)

The REPT EVT OHCHN message is generated by the network element to report the occurrence of non-alarmed events on an OCLD, OTR, OSC overhead channel facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT OHCHN
" [<aid>]:<condtype>,<condeff>,<ocrdat>,<ocrtm>,<locn>,<dirn>,<monval>,<thlev>,<tmper>:<conddesc>,<aiddet>,<obsdbhvr>:<dgntype>,<tblislt>:
[SUBCARDTYPE=<subcardtype>],[SIGLAYER=<siglayer>],
[YEAR=<year>] " ;
```

Table 13-49
REPT EVT OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	OCLD, OSC, OTR overhead channel facility For AID values see Table 1-6 on page 1-17	OCLD, OSC overhead channel facility For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition

Table 13-49 (continued)
REPT EVT OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Unused	Unused
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDDISC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 13-49 (continued)
REPT EVT OHCHN output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB GEFC DWDM 200GHz 10.7GB GEFC DWDM 100GHz 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports and event (overhead channel invalid code error) has occurred on the overhead channel facility on the OCLD:

```
OM5000-1-44 02-02-20 20:00:24
A 119 REPT EVT OHCHN
"1-1-OH-OCLD:OHINVCODE,,02-20,20-00-24,NEND,ZA,:\\"Overhead
Channel Invalid Code Error\\"
;

OM5000-1-44 02-02-20 20:52:16
A 1566 REPT EVT OHCHN
"3-2-OH-OTR:OHINVCODE,,02-20,20-52-16,NEND,ZA,:\\"Overhead
Channel Invalid Code Error\\"
;
```

REPT EVT OMX (report event OMX)

The REPT EVT OMX message is generated by the network element to report the occurrence of non-alarmed events on an OMX facility.

Output syntax

```
A ATAG REPT EVT OMX
" [<aid> ] : <condtype> , [<condeff> ] , [<ocrdat> ] , [<ocrtm> ] , [<locn> ] ,
[ <dirn> ] , [<monval> ] , [<thlev> ] , [<tmper> ] : [<conddesc> ] ,
```

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```
[<aiddet>] , [<obsdbhvr>] : [<dgntype>] , [<tblislt>] :
[SUBCARDTYPE=<subcardtype>] , [SIGLAYER=<siglayer>] ,
[YEAR=<year>] " ;
```

**Table 13-50
REPT EVT OMX output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OMX facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Unused	Unused
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDESC	Condition description	Unused	Unused
AIDDET	Access identifier detection	Unused	Unused

Table 13-50 (continued)
REPT EVT OMX output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string CWDM DWDM 200GHz ITU CWDM	Character string CWDM DWDM 200GHz ITU CWDM
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event (band alarm indication signal) has occurred on the OMX west:

```
OM5000-1-44 02-02-20 21:04:34
A 1861 REPT EVT OMX
"WEST-0-OMX-5-OTS:AIS-BIF,SC,02-20,21-04-34,FEND,ZA,:\ "Band
Alarm Indication Signal\ "
;
```

REPT EVT OSC (report event OSC)

The REPT EVT OSC message is generated by the network element to report the occurrence of non-alarmed events on an OSC facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT OSC
" [<aid>] :<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>] : [<conddesc>],
 [<aiddet>], [<obsdbhvr>] : [<dgntype>], [<tblislt>] :
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>] " ;
```

Table 13-51
REPT EVT OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-51 (continued)
REPT EVT OSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONVAL	Monitored value	Unused	Unused
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Unused	Unused
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

REPT EVT OTR (report event OTR)

The REPT EVT OTR message is generated by the network element to report the occurrence of non-alarmed events on an OTR facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT OTR
" [<aid>] :<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>] : [<conddesc>],
 [<aiddet>], [<obsdbhvr>] : [<dgntype>], [<tblislt>] :
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>] " ;
```

Table 13-52
REPT EVT OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end

Table 13-52 (continued)
REPT EVT OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value (performance parameter)	Number	Number
THLEV	Threshold level The desired threshold level for the monitored performance parameter type.	<positive integer>	<positive integer>
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused

Table 13-52 (continued)
REPT EVT OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
SUBCARDTYPE	Sub card type value	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal	Character string 10.7GB Transparent DWDM 200GHz 10.7GB Transparent DWDM 100GHz 2.5GB DWDM 200GHz Flex 2.5GB DWDM 100GHz Flex 2.5GB DWDM 200GHz Universal
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports TCA event has occurred on the OTR:

```
OM5000-1-44 02-02-20 20:52:13
A 1564 REPT EVT OTR
"3-1:T-CVS,SC,02-20,20-52-13,NEND,ZA,24021720,6710820,15-MIN:\
"CV SONET 15 Min\"";

OM5000-1-44 02-02-20 20:52:13
A 1564 REPT EVT OTR
"3-1:T-CVS,SC,02-20,20-52-13,NEND,ZA,24021720,6710820,1-DAY:\
CV SONET 1 Day\"";
```

REPT EVT SECU (report event security)

The REPT EVT SECU message is generated by the network element to report the occurrence of a security related event.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT SECU
" [<aid> ] : [<condtype> ] , [<condeff> ] , [<ocrdat> ] , [<ocrtm> ] :
[<conddescr> ] : [<action> ] , [<resource> ] , [<upc> ] , [<linkid> ] ,
[<portid> ] , [<protocol> ] : [<dgntype> ] , [YEAR=<year> ] "
```

Table 13-53
REPT EVT SECU output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	LOGIN LOGIN-FAILED LOGOUT	LOGIN LOGIN-FAILED LOGOUT
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
ACTION	User action that resulted in the security event	Equivalent TL1 command (if applicable)	Equivalent TL1 command (if applicable)
RESOURCE	Resource targeted by the user action and should contain an AID (if applicable). TID of network element will be used	Character string	Character string
UPC	User privilege code. Access Privilege of the user identified by AID.	ADMIN OPERATOR OBSERVER EMS CUSTOMER1 CUSTOMER2	ADMIN OPERATOR OBSERVER EMS CUSTOMER1 CUSTOMER2

Table 13-53 (continued)
REPT EVT SECU output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LINKID	User IP address from which the user session originates	x.x.x.x	x.x.x.x
PORTID	Port type used by the session to access the network element	Unused	Unused
PROTOCOL	Management protocol used for accessing the network element.	FTP TL1 SMI	FTP TL1 SMI
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
YEAR	Year when the alarm occurred	Integer	Integer

REPT EVT SESSION (report event session)

The REPT EVT SESSION message is a user specific message generated autonomously by network element for each individual user session upon login attempt to display warning banner and password expiry notice (if any).

Output syntax

```
SID DATE TIME
A ATAG REPT EVT SESSION
" [<aid>:<exp>, <pcn>] "
/*WARN*/
```

Table 13-54
REPT EVT SESSION output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier TID of the network element when the session is open	Character string	Character string

Table 13-54 (continued)
REPT EVT SESSION output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
EXP	Indicates whether the password has expired or is about to expire.	YES NO	YES NO
PCN	Indicates the number of days remaining if the password is about to expire.	#-DAY	#-DAY
WARN	Warning banner message	Character string Maximum 20 lines of 80 characters each	Character string Maximum 20 lines of 80 characters each

REPT EVT SPLT (report event SPLT)

The REPT EVT SPLT message is generated by the network element to report the occurrence of non-alarmed events on an OSC tray or C/L splitter/coupler.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT SPLT
" [<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>]:<conddesc>,
 [<aiddet>], [<obsdbhvr>]:<dgntype>, [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>] " ;
```

Table 13-55
REPT EVT SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	C&L and OSC splitter coupler For AID values see Table 1-6 on page 1-17	C&L and OSC splitter coupler For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .

Table 13-55 (continued)
REPT EVT SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Unused	Unused
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable

Table 13-55 (continued)
REPT EVT SPLT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string W-Spltr 1310nm	Character string W-Spltr 1310nm
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

REPT EVT SRM (report event SRM)

The REPT EVT SRM message is generated by the network element to report the occurrence of non-alarmed events on an SRM OCI or SONET/SDH SRM OCI facility.

Output syntax

```
SID DATE TIME
A ATAG REPT EVT SRM
" [<aid>] :<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>] : [<conddesc>],
```

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```
[<aiddet>], [<obsdbhvr>]: [<dgntype>], [<tblislt>]:
[SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
[YEAR=<year>]"
```

Table 13-56
REPT EVT SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value (performance parameter)	Number	Number
THLEV	Threshold level The desired threshold level for the monitored performance parameter type.	<positive integer>	<positive integer>

Table 13-56 (continued)
REPT EVT SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes	1-DAY = Daily 15-MIN = 15 minutes
CONDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Character string	Character string
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent	Character string 2.5GB ESCON 2.5GB SONET/SDH 2.5GB SONET/SDH-LTE 2.5GB Transparent
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports TCA event has occurred on the SRM port 1:

```
OM5000-1-44 01-01-03 22:02:08
A 91 REPT EVT SRM
"12-1:T-CVS, SC, 01-03, 22-02-08, NEND, ZA, 24021720, 6710820, 15-MIN:
\"CV SONET 15 Min"
;
```

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```

OM5000-1-44 01-01-03 22:02:08
A 91 REPT EVT SRM
"12-1:T-CVS,SC,01-03,22-02-08,NEND,ZA,24021720,6710820,1-DAY:\
"CV SONET 1 Day"
;

```

REPT EVT WSC (report event WSC)

The REPT EVT WSC message is generated by the network element to report the occurrence of non-alarmed events on an WSC facility.

Output syntax

```

SID DATE TIME
A ATAG REPT EVT WSC
" [<aid>]:<condtype>, [<condeff>], [<ocrdat>], [<ocrtm>], [<locn>],
 [<dirn>], [<monval>], [<thlev>], [<tmper>]: [<conddesc>],
 [<aiddet>], [<obsdbhvr>]: [<dgntype>], [<tblislt>]:
 [SUBCARDTYPE=<subcardtype>], [SIGLAYER=<siglayer>],
 [YEAR=<year>] ";

```

Table 13-57
REPT EVT WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for WSC facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
CONDTYPE	Condition type	Refer to Table 11-15 on page 11-11 .	Refer to Table 11-15 on page 11-11 .
CONDEFF	Condition effect Clear standing condition is a standing condition that has cleared. Standing condition is active for an extended period of time. Transient condition is a condition that does not change the basic condition of the network element for an extended period of time.	CL = clear standing condition SC = standing condition TC = transient condition	CL = clear standing condition SC = standing condition TC = transient condition
OCRDAT	Occurrence date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day

Table 13-57 (continued)
REPT EVT WSC output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
OCRTM	Occurrence time	HH-MM-SS, where HH = hour MM = minute SS = second	HH-MM-SS, where HH = hour MM = minute SS = second
LOCN	Location	FEND = far-end NEND = near-end	FEND = far-end NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number	Number
THLEV	Threshold level	Unused	Unused
TMPER	Time period	Unused	Unused
CONDDESC	Condition description	Character string Maximum 64 characters	Character string Maximum 64 characters
AIDDET	Access identifier detection	Unused	Unused
OBSDBHVR	Connection information for events related to a connection.	Not applicable	Not applicable
DGNTYPE	Type of diagnostic routine. NNNNNN-PPPP-UUUU where: NNNNNN : alarm count number PPPP : alarm probable cause UUUU : alarm ID number, unique for the text of the alarm	000000-0000-0001 to 000000-0000-9999	000000-0000-0001 to 000000-0000-9999
TBLISLT	Significance of the isolation information provided by the AID	Unused	Unused
SUBCARDTYPE	Sub card type value	Character string Tray without Tap Tray with Tap Tray Dual Taps	Character string Tray without Tap Tray with Tap Tray Dual Taps
SIGLAYER	Signal and layer information	Character string	Character string
YEAR	Year when the alarm occurred	Integer	Integer

Example output

The network element reports an event (wayside alarm indication signal) has occurred on the WSC east:

```
OM5000-1-44 02-02-20 21:00:34
A 1769 REPT EVT WSC
"20-EAST-WSC-0:AIS-WSC, SC, 02-20, 21-00-34, NEND, AZ, :\"Wayside
Alarm Indication Signal\"
;
```

REPT PM EQPT (report performance monitoring equipment)

The REPT PM EQPT message reports a change in a performance monitoring point for an APBE, OCLD, OCI, OTR, MOTR, MOTRSFP, OFA, or OCI SRM circuit pack. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM EQPT
"<aid>:<montype>, <monval>, <vldty>, <locn>, <dirn>, [<timper>],
<mondatt>, <montm>" ;
```

Table 13-58
REPT PM EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	APBE, OCI, OCLD, OFA, OTR, MOTR, MOTRSFP, SRM equipment For AID values see Table 1-5 on page 1-14	OCI, OCLD, OTR, MOTR, MOTRSFP, SRM For AID values see Table 1-5 on page 1-14
MONTYPE	Monitored type	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
MONVAL	Monitored power level	Floating number	Floating number
VLDTY	Validity	NA=Not Applicable	NA=Not Applicable
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-58 (continued)
REPT PM EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	Unused	Unused
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a PM count on the OCLD equipment in slot 2:

```
OPT_1_2 01-01-12 19:45:12
A 12294 REPT PM EQPT
"OCLD-2-OPT-1:OPR-HT,-12.716958,COMPL,NEND,ZA,,1-12,19-30"
;
```

REPT PM GFSRM (report performance monitoring GFSRM)

The REPT PM GFSRM message reports a change in a performance monitoring point for an OCI SRM GbE/FC or OCI SRM GbE facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM GFSRM
"<aid>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>,<mondat>,<montm>" ;
```

Table 13-59
REPT PM GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI GFSRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for GFSRM facilities, refer to Table 10-15 .	For valid MONTYPE values for GFSRM facilities, refer to Table 10-15 .
MONVAL	The value on the PM bin.	Integer	Integer

Table 13-59 (continued)
REPT PM GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the OCI SRM GbE/FC facility in slot 7:

```
OPT-1-1 00-12-05 02:44:59
A 179 REPT PM GFSRM
"7-1:CVS,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;
```

REPT PM MOTR (report performance monitoring MOTR)

The REPT PM MOTR message reports a change in a performance monitoring point for an MOTR facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```

SID DATE TIME
A ATAG REPT PM MOTR
"<aid>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<timper>,<mondatt>,<montm>" ;

```

Table 13-60
REPT PM MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for MOTR facilities, refer to Table 10-17 .	For valid MONTYPE values for MOTR facilities, refer to Table 10-17 .
MONVAL	The value on the PM bin.	Integer	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the MOTR facility in slot 7:

```

OPT-1-1 00-12-05 02:44:59
A 179 REPT PM MOTR
"7-11:CVS,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;

```

REPT PM MOTRSFP (report performance monitoring MOTRSFP)

The REPT PM MOTRSFP message reports a change in a performance monitoring point for a MOTRSFP facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM MOTRSFP
"<aid>:<montype>, <monval>, <vldty>, <locn>, <dirn>, <timper>,
<mondatt>, <montm>" ;

(zs
```

Table 13-61
REPT PM MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for MOTRSFP facilities, refer to Table 10-19 .	For valid MONTYPE values for MOTRSFP facilities, refer to Table 10-19 .
MONVAL	The value on the PM bin.	Integer	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the MOTRSFP facility in slot 7:

```
OPT-1-1 00-12-05 02:44:59
A 179 REPT PM MOTRSFP
"7-1:CVS,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;
```

REPT PM OCI (report performance monitoring OCI)

The REPT PM OCI message reports a change in a performance monitoring point for a SONET/SDH OCI facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM OCI
"<aid>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>,<mondatt>,<montm>" ;
```

Table 13-62
REPT PM OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCI facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for OCI SONET/SDH facilities, refer to Table 10-21 . For valid MONTYPE values for all other OCI facilities, refer to Table 10-22 .	For valid MONTYPE values for OCI SONET/SDH facilities, refer to Table 10-21 . For valid MONTYPE values for all other OCI facilities, refer to Table 10-22 .
MONVAL	The value on the PM bin.	Integer	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-62 (continued)
REPT PM OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the OCI facility in slot 7:

```
OPT-1-1 00-12-05 02:44:59
A 179 REPT PM OCI
"7-1:CVS,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;
```

REPT PM OCLD (report performance monitoring OCLD)

The REPT PM OCLD message reports a change in a performance monitoring point for an OCLD facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM OCLD
"<aid>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<timper>,<mondatt>,<montm>" ;
```

Table 13-63
REPT PM OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OCLD facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for OCLD 2.5 Gbit/s Flex facilities, refer to Table 10-24 . For valid MONTYPE values for all other OCLD facilities, refer to Table 10-25 .	For valid MONTYPE values for OCLD 2.5 Gbit/s Flex facilities, refer to Table 10-24 . For valid MONTYPE values for all other OCLD facilities, refer to Table 10-25 .
MONVAL	The value on the PM bin.	Integer	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the OCLD facility in slot 7:

```
OPT-1-1 00-12-05 02:44:59
A 179 REPT PM OCLD
"7-1:CVS,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;
```

REPT PM OFA (report performance monitoring OFA)

The REPT PM OFA message reports a change in a performance monitoring point for an OFA facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter “[Performance monitoring description](#)” in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM OFA
"<aid>:<montype>,<monval>,<vlqty>,<locn>,<dirn>,<timper>,<mondat>,<montm>" ;
```

Table 13-64
REPT PM OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA facility	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
MONVAL	The value on the PM bin.	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the OFA facility in slot 8:

```
OPT-1-1 00-12-05 02:44:59
A 179 REPT PM OFA
"8-1:ES,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;
```

REPT PM OTR (report performance monitoring OTR)

The REPT PM OTR message reports a change in a performance monitoring point for an OTR facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM OTR
"<aid>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>,<mondatt>,<montm>" ;
```

Table 13-65
REPT PM OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for OTR 2.5 Gbit/s Flex facilities, refer to Table 10-29 . For valid MONTYPE values for OTR 10 Gbit/s facilities, refer to Table 10-30 .	For valid MONTYPE values for OTR 2.5 Gbit/s Flex facilities, refer to Table 10-29 . For valid MONTYPE values for OTR 10 Gbit/s facilities, refer to Table 10-30 .
MONVAL	The value on the PM bin.	Integer	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 13-65 (continued)
REPT PM OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count on the OTR facility in slot 7:

```
OPT-1-1 00-12-05 02:44:59
A 179 REPT PM OTR
"7-1:CVS,108,COMPL,NEND,AZ,15-MIN,12-5,2-30"
;
```

REPT PM SRM (report performance monitoring SRM)

The REPT PM SRM message reports a change in a performance monitoring point for a SONET/SDH SRM OCI or SRM OCI facility. The network element reports values above zero. The reporting schedule is fixed to the system clock at 15-minute intervals.

For more information about performance monitoring, refer to the chapter [“Performance monitoring description”](#) in *Software and User Interface*, 323-1701-101.

Output syntax

```
SID DATE TIME
A ATAG REPT PM SRM
"<aid>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<timper>,<mondatt>,<montm>" ;
```

Table 13-66
REPT PM SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
MONTYPE	Monitored type	For valid MONTYPE values for OCI SRM facilities, refer to Table 10-32 . For valid MONTYPE values for OCI SRM SONET/SDH facilities, refer to Table 10-33 . For valid MONTYPE values for OCI SRM ESCON facilities, refer to Table 10-34 .	For valid MONTYPE values for OCI SRM facilities, refer to Table 10-32 . For valid MONTYPE values for OCI SRM SONET/SDH facilities, refer to Table 10-33 . For valid MONTYPE values for OCI SRM ESCON facilities, refer to Table 10-34 .
MONVAL	The value on the PM bin.	Integer	Integer
VLDTY	Validity	COMPL = Completed PRTL = Partial results only	COMPL = Completed PRTL = Partial results only
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval	1-DAY = daily 15-MIN = 15 minutes interval
MONDAT	Monitored date	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
MONTM	Monitored time	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Example output

The network element reports a performance monitoring count for the SONET/SDH SRM facility in slot 7, port 1:

```
OPT_10_24 00-12-05 02:30:00
A 62 REPT PM SRM
"7-1:CVS,27,PRTL,NEND,AZ,15-MIN,12-5,2-15"
;
```

13-128 Autonomous messages

The network element reports a performance monitoring count for the SRM facility in slot 11, backplane port 1:

OPT_1_33 01-10-25 12:01:00

A 6 REPT PM SRM

"11-1-BP:CV_MUX1,600,PRTL,NEND,AZ,15-MIN,10-25,11-45"

;

Error codes

Whenever a TL1 command is incorrectly entered, or addresses equipment or a facility that does not exist, or is misspelled, the TL1 interface returns a DENY message, a four-letter error code and a text message explaining the error.

Any command or command response message can generate errors. The format of an error message is as follows:

```
SID DATE TIME
M CTAG DENY
<ERRCDE>
/* <ERRMSG> */
;
```

Table 14-1
Error code syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
ERRCDE	Error code	Character string	Character string
ERRMSG	Error message	Character string	Character string

This chapter lists the error codes and error text messages for TL1 commands as displayed in the error response.

[Table 14-2 on page 14-2](#) lists the error codes. [Table 14-3 on page 14-7](#) lists the default error codes.

Table 14-2 lists the ERRCODE (error codes) and error descriptions. The ERRCODE parameter indicates the related error code of the message.

Table 14-2
Error codes

ERRCODE	Type	Description
EANS	EQUIPAGE	Access not supported
EATN	EQUIPAGE	Equipment not valid for access type
EFON	EQUIPAGE	Feature option not provided
EN2T	EQUIPAGE	Not 2-ire terminate and leave
ENAC	EQUIPAGE	Equipment not equipped with alarm cutoff
ENAD	EQUIPAGE	Equipment not equipped with audit capability
ENAR	EQUIPAGE	Equipment not equipped with automatic reconfiguration
ENAT	EQUIPAGE	Request not valid for access type
ENDG	EQUIPAGE	Equipment not equipped with diagnostic capability
ENDS	EQUIPAGE	Equipment not equipped with duplex switching
ENEA	EQUIPAGE	Equipment not equipped with error analysis capability
ENEQ	EQUIPAGE	Equipment not equipped
ENEX	EQUIPAGE	Equipment not equipped with exercise capability
ENFE	EQUIPAGE	Feature not provided
ENFL	EQUIPAGE	Equipment not equipped for fault locating
ENHN	EQUIPAGE	Not hybrid network
ENMB	EQUIPAGE	Not multipoint bridge
ENMD	EQUIPAGE	Equipment not equipped with memory drive
ENPM	EQUIPAGE	Equipment not equipped with performance monitoring
ENPS	EQUIPAGE	Equipment not equipped with protection switching
ENRE	EQUIPAGE	Not recognized equipage
ENRI	EQUIPAGE	Equipment not equipped for retrieving specific information
ENRS	EQUIPAGE	Equipment not equipped for restoration

Table 14-2 (continued)
Error codes

ERRCDE	Type	Description
ENSA	EQUIPAGE	Equipment not equipped for scheduling audit
ENSG	EQUIPAGE	Not software generic
ENSI	EQUIPAGE	Equipment not equipped for setting specific information
ENSS	EQUIPAGE	Equipment not equipped with synchronization switching
ENTL	EQUIPAGE	Not terminate and leave
ERLC	EQUIPAGE	Red-lined circuit
ERNS	EQUIPAGE	RTU does not support command
ESPG	EQUIPAGE	Software program
ETNS	EQUIPAGE	TSC does not support command
FNCR	FAULT	NE failure - circuit restored to last condition - monitor or terminate
FNDT	FAULT	No dial tone detected
FNEC	FAULT	NTE has lost 8-KHz byte clock
FNSC	FAULT	NTE has lost 16-KHz byte clock
FRCE	FAULT	RTU component or configuration error
FRDA	FAULT	RTU does not answer the call
FREC	FAULT	RTU eight KHz byte clock lost
FRNR	FAULT	RTU does not reply
ICNV	INPUT	Input command not valid
IDNV	INPUT	Input data not valid
IDRG	INPUT	Input data range error
IAC	INPUT	Input, invalid access identifier
IICT	INPUT	Input, invalid correlation tag
IIFM	INPUT	Input, invalid data format
IISP	INPUT	Input, invalid syntax or punctuation
IITA	INPUT	Input, invalid target identifier
INUP	INPUT	Input, non-null unimplemented parameter

Table 14-2 (continued)
Error codes

ERRCDE	Type	Description
IPMS	INPUT	A required parameter is missing from the input command
ISCH	INPUT	Input syntax invalid character
ISPC	INPUT	Input syntax invalid punctuation
PICC	PRIVELEGE	Privilege invalid command code
PIMA	PRIVELEGE	Privilege invalid memory address
PIMF	PRIVELEGE	Privilege invalid memory file
PLNA	PRIVELEGE	Privilege login not active
RABY	RESOURCE	All taps busy
RALB	RESOURCE	All units of requested type are busy
RANB	RESOURCE	Access network busy
RCBY	RESOURCE	Circuit busy
RCIN	RESOURCE	Requested circuit ID does not exist
RNAN	RESOURCE	Requested network element access number does not exist
RNAU	RESOURCE	Requested network element access number unassigned
RNBY	RESOURCE	Network element is busy
RRCP	RESOURCE	Unit specified by routing code busy
RRNG	RESOURCE	Requested changes exceeds range
RTBY	RESOURCE	Requested tap busy
RTEN	RESOURCE	Requested tab does not exist
RTUB	RESOURCE	Test unit busy
SAAL	STATUS	Status, already allowed
SAAS	STATUS	Already assigned
SABT	STATUS	Status, aborted
SACS	STATUS	Access unit cannot sync on facility signal
SADS	STATUS	Access unit is diagnostic state
SAIN	STATUS	Status, already inhibited

Table 14-2 (continued)
Error codes

ERRCDE	Type	Description
SAIS	STATUS	Status, already in service
SAMS	STATUS	Status, already in maintenance state
SAOP	STATUS	Status already operated
SAOS	STATUS	Already out of service
SAPF	STATUS	Access path continuity check failed
SAPR	STATUS	Status already in protection state
SARB	STATUS	Status, all resources busy
SATF	STATUS	Status, automatic test failed
SCAT	STATUS	Circuit is already connected to another tap
SCBS	STATUS	Channel busy
SCIS	STATUS	Circuit in split condition
SCNA	STATUS	Status, command not able to be aborted
SCNF	STATUS	Status, command not found
SCNS	STATUS	Circuit not in split condition
SCOS	STATUS	Channel out of service
SCSD	STATUS	Cannot split DS0B circuit
SCSN	STATUS	Invalid command sequence
SDAS	STATUS	Status, diagnosis already started
SDBE	STATUS	Internal data base error
SDFA	STATUS	Status, duplex unit failed
SDLD	STATUS	Status, duplex unit locked
SDNA	STATUS	Status, duplex unit not available
SDNR	STATUS	Status, data not ready
SDNS	STATUS	Status, diagnosis not started
SEOS	STATUS	NTE is out of service
SFAS	STATUS	Status, fault locating already started
SFNS	STATUS	Status, fault locating not started
SFYA	STATUS	Facility reports yellow alarm

Table 14-2 (continued)
Error codes

ERRCDE	Type	Description
SLNS	STATUS	Status, log not started
SLOS	STATUS	TSC to RTU link out of service
SNCC	STATUS	Not cross-connected
SNCN	STATUS	NTE unable to execute command
SNDS	STATUS	NTE is in a diagnostic state
SNIM	STATUS	NTE access complete, circuit was in monitor state
SNIS	STATUS	Not in service
SNML	STATUS	No monitor line established
SNNB	STATUS	NTE could not sync on DS0B signal
SNNS	STATUS	NTE could not sync on DA1 signal
SNOS	STATUS	Status, not out of service
SNPR	STATUS	Status, not in protection state
SNRM	STATUS	Status, system not in restoration mode
SNRS	STATUS	Not reserved
SNSR	STATUS	Status, no switch request outstanding
SNVS	STATUS	Status, not in valid state
SNYA	STATUS	NTE has detected a yellow alarm
SOSE	STATUS	Operating system error
SOST	STATUS	Out of service, testing
SPFA	STATUS	Status, protection unit failed
SPLD	STATUS	Status, protection unit locked
SPNA	STATUS	Status, process not able to abort
SPNF	STATUS	Status, process not found
SRAC	STATUS	Requested access configuration in invalid
SRAN	STATUS	Unable to release access system
SRCN	STATUS	Requested condition already exists
SRCI	STATUS	Status, requested command(s) inhibited
SROF	STATUS	Status, requested operation failed

Table 14-2 (continued)
Error codes

ERRCDE	Type	Description
SROS	STATUS	Required RTU out of service
SRQN	STATUS	Invalid request
SRTN	STATUS	Unable to release tap
SRTO	STATUS	Status, reply time out
SSCE	STATUS	Systemic (SNIDER) communications error
SSNG	STATUS	Subrate selected is incorrect
SSNP	STATUS	Test signal not pseudo-random
SSNQ	STATUS	Test signal not QRS
SSPN	STATUS	Speed selected is incorrect
SSRD	STATUS	Status, switch request denied
SSRE	STATUS	Status, system resources exceeded
STAB	STATUS	Status, test aborted
STLC	STATUS	Tap unable to locate channel
STNO	STATUS	TSC/RTU to TAU link out of service
STOS	STATUS	Test access unit out of service
STTI	STATUS	Tap idle
SWFA	STATUS	Status, working unit failed
SWLD	STATUS	Status, working unit locked

Table 14-3 lists the default errors and error descriptions.

Table 14-3
Default errors

ERRCDE	Type	Description
IBEX	INPUT	Block extra
IBMS	INPUT	Block missing
IBNC	INPUT	Block not consistent
ICNC	INPUT	Command not consistent
ICNV	INPUT	Command not valid
IDMS	INPUT	Data missing

Table 14-3 (continued)
Default errors

ERRCDE	Type	Description
IDNC	INPUT	Data not consistent
IDNV	INPUT	Data not valid
IDRG	INPUT	Data range error
IIAC	INPUT	Invalid access identifier (AID)
IICM	INPUT	Invalid command
IICT	INPUT	Invalid correlation tag
IIDT	INPUT	Invalid data parameter
IIFM	INPUT	Invalid data format
IIPG	INPUT	Invalid parameter grouping
IISP	INPUT	Invalid syntax or punctuation
IITA	INPUT	Invalid target identifier
INAC	INPUT	Access number not correct
INUP	INPUT	Non-null unimplemented parameter
IPEX	INPUT	Parameter extra
IPMS	INPUT	Parameter missing
IPNC	INPUT	Parameter not consistent
IPNV	INPUT	Parameter not valid
ISCH	INPUT	Syntax invalid character
ISPC	INPUT	Syntax punctuation
ITSN	INPUT	Invalid/inactive test session number
PICC	PRIVILEGE	Illegal command code
PIFC	PRIVILEGE	Illegal field code
PIMA	PRIVILEGE	Invalid memory address
PIMF	PRIVILEGE	Invalid memory file
PIRC	PRIVILEGE	Illegal record control
PIUC	PRIVILEGE	Illegal user code
PIUI	PRIVILEGE	Illegal user identity, invalid UID
PLNA	PRIVILEGE	Login not active

Shelf backup and restore procedures

Use the procedures in this chapter to backup and restore shelf configuration data using TL1.

Procedure list

[Table 15-1](#) lists the procedures in this chapter.

Table 15-1
Procedures in this chapter

Procedure	Page	Comments
15-1 Backing up shelf configuration data	15-2	Recommended. Nortel Networks strongly recommends that you perform a backup each time you commission a new shelf or make changes to shelf configurations, network element passwords, IP addresses, or target identifier (TID) parameters.
15-2 Restoring shelf configuration data	15-7	Required in the event of shelf failure.
15-3 Troubleshooting a TL1 backup failure	15-13	Optional.
15-4 Troubleshooting a TL1 restore failure	15-15	Optional.

Procedure 15-1

Backing up shelf configuration data

Follow this procedure to back up the configuration data for a shelf. You must be logged in as an admin user.

To perform a backup, the software load on the shelf must be in a committed state. The shelf must be commissioned and operational.

You can back up multiple shelves in the network at the same time.

The network element must be alarm-free.

ATTENTION

Nortel Networks strongly recommends that you perform a backup each time you commission a new shelf or make changes to shelf configurations, network element passwords, IP addresses, or target identifier (TID) parameters.



CAUTION

Risk of backup failure

Prior to performing a database backup, make sure that the OCM circuit packs are installed in the shelf and are in-service. If any of the OCMs are not in the shelf or are out-of-service, the backup command may fail. Place both OCMs in-service, or remove one out-of-service OCM from the shelf and place the other OCM in-service.



CAUTION

Risk of file corruption or file overwrite

Perform the steps in this procedure with minimum time between commands. Otherwise, another user session can restore the same shelf and corrupt the data read into memory.



CAUTION

Risk of file corruption

Do not make provisioning changes or start a software upgrade during a backup procedure, or the backup file can become corrupted.

—continued—

 Procedure 15-1 (continued)

Backing up shelf configuration data


CAUTION
Risk of a Loss of Contact

If the Access Control State of the shelf is different from the existing Access Control State of the other shelves in the hubbing group, a Loss of Contact may occur with the remote shelves during a Backup and Restore procedure (if the original shelf does not have any Overhead Communication available). Make sure the Access Control State of all the shelves in the hubbing group is the same.

Action

Step	Action
1	Establish a TL1 Telnet connection using a Telnet client, such as a UNIX shell. Use the TL1 port instead of the standard Telnet port. Note: In most cases, you can initiate a Telnet session from your PC running the Windows operating system version 98 and above. To do so perform the following actions. <ol style="list-style-type: none"> a. Click the Start button on the Taskbar, and select Run... b. In the Open field, type the telnet command as specified in step 2
2	Issue the following telnet command: <pre>telnet<shelf_ip_address> <configured_port></pre> For example: <pre>telnet 10.0.34.21 10002</pre> <p><i>If the command successfully executes, you receive a message, such as:</i></p> <pre>OPTICAL-METRO-TL1></pre>
3	Activate the login by issuing the following command: <pre>ACT-USER: [TID] :ADMIN: [CTAG] : :<password>;</pre> <p><i>If the login is successful, you will receive a COMPLD TL1 message. Hit the Enter key to get the Optical-Metro-TL1> prompt.</i></p>

—continued—

15-4 Shelf backup and restore procedures

Procedure 15-1 (continued)

Backing up shelf configuration data

Step	Action						
4	<p>Execute the SAV-PROV command. Enter the command as follows:</p> <pre>SAV-PROV: [TID] :: [CTAG] :: [<userid>] , [<passwd>] : [DESTTYPE= <desttype>] , [DESTADDR=<destaddr>] , [DIRECTORY=<directory>] , [CHKALM=<chkalm>] ;</pre> <p>For example:</p> <pre>SAV-PROV:OM5000-1-1::SAV::admin,admin:DESTTYPE=IP,DESTAD DR="175.145.23.25",DIRECTORY="/pub/admin/load.dat",CHKAL M=N;</pre> <p><i>If the command is successful, you will receive a COMPLD TL1 message.</i></p> <table><thead><tr><th>If the DESTTYPE used was</th><th>Then the command creates a binary backup.dat file which is stored on</th></tr></thead><tbody><tr><td>IP</td><td>the specified server and directory, if the server IP, login, passwords and server configuration were valid. By default, this command will also save the backup.dat file on the target NE, in the local directory /FlashFS/serverst. Note: If the backup.dat file can be found only in the target NE directory and not on the specified server directory, it means there are problems with either the server IP, login, password or configuration.</td></tr><tr><td>LOCAL</td><td>the target network element, in the local directory /FlashFS/serverst.</td></tr></tbody></table>	If the DESTTYPE used was	Then the command creates a binary backup.dat file which is stored on	IP	the specified server and directory, if the server IP, login, passwords and server configuration were valid. By default, this command will also save the backup.dat file on the target NE, in the local directory /FlashFS/serverst. Note: If the backup.dat file can be found only in the target NE directory and not on the specified server directory, it means there are problems with either the server IP, login, password or configuration.	LOCAL	the target network element, in the local directory /FlashFS/serverst.
If the DESTTYPE used was	Then the command creates a binary backup.dat file which is stored on						
IP	the specified server and directory, if the server IP, login, passwords and server configuration were valid. By default, this command will also save the backup.dat file on the target NE, in the local directory /FlashFS/serverst. Note: If the backup.dat file can be found only in the target NE directory and not on the specified server directory, it means there are problems with either the server IP, login, password or configuration.						
LOCAL	the target network element, in the local directory /FlashFS/serverst.						
5	Hit the Enter key to get the OPTICAL-METRO-TL1> prompt.						
6	<p>Log out of the TL1 session by entering the CANC-USER command as follows:</p> <pre>CANC-USER: [TID] :ADMIN: [CTAG] ;</pre> <p><i>If the command is successful, you will receive a COMPLD TL1 message. Hit the Enter key to get the OPTICAL-METRO-TL1> prompt.</i></p>						
7	Close the TL1 Telnet session by typing "logout" or "exit".						

—continued—

 Procedure 15-1 (continued)

Backing up shelf configuration data

Step	Action						
8	<p>Choose the next step.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">If the DESTTYPE used in step 4 was</th> <th style="text-align: left;">Then</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;">IP</td> <td> <p>if the server IP, login, password and configuration were valid, the backup.dat file is stored on the specified server and directory. You have completed this procedure.</p> <p>If there was a problem with the server IP, login, password or configuration, the backup.dat file is stored only on the target NE. In this case, if you want to retrieve the file and save it to your PC, go to step 9.</p> </td> </tr> <tr> <td style="vertical-align: top;">LOCAL</td> <td> <p>if you want to retrieve the backup.dat file and save it to your PC, go to step 9.</p> <p>If not, you have completed this procedure.</p> </td> </tr> </tbody> </table>	If the DESTTYPE used in step 4 was	Then	IP	<p>if the server IP, login, password and configuration were valid, the backup.dat file is stored on the specified server and directory. You have completed this procedure.</p> <p>If there was a problem with the server IP, login, password or configuration, the backup.dat file is stored only on the target NE. In this case, if you want to retrieve the file and save it to your PC, go to step 9.</p>	LOCAL	<p>if you want to retrieve the backup.dat file and save it to your PC, go to step 9.</p> <p>If not, you have completed this procedure.</p>
If the DESTTYPE used in step 4 was	Then						
IP	<p>if the server IP, login, password and configuration were valid, the backup.dat file is stored on the specified server and directory. You have completed this procedure.</p> <p>If there was a problem with the server IP, login, password or configuration, the backup.dat file is stored only on the target NE. In this case, if you want to retrieve the file and save it to your PC, go to step 9.</p>						
LOCAL	<p>if you want to retrieve the backup.dat file and save it to your PC, go to step 9.</p> <p>If not, you have completed this procedure.</p>						
9	<p>Open an FTP session to the network element where the backup.dat file was saved in step 4.</p> <p>Note: In most cases, you can initiate an FTP session from your PC running the Windows operating system version 98 and above. To do so perform the following actions.</p> <ol style="list-style-type: none"> a. Click the Start button on the Taskbar, and select Run... b. In the Open field, type the following: ftp <shelf_ip_address> <p>For example:</p> <pre>ftp 10.0.34.21</pre> <ol style="list-style-type: none"> c. Click on OK <p><i>If the command successfully executes, you receive a message, such as</i></p> <pre>Connected to <shelf_ip_address> 220 VXWorks FTP server ready User <shelf_ip_address:<none>>:</pre> <ol style="list-style-type: none"> d. Enter the user name and hit the enter key e. Enter the password and hit the enter key <p><i>If you have logged in successfully, you receive a message such as</i></p> <pre>User logged in ftp></pre>						

—continued—

15-6 Shelf backup and restore procedures

Procedure 15-1 (continued)

Backing up shelf configuration data

Step	Action
10	Make sure that the FTP transfer type is set to binary. Type "bin" at the ftp> prompt For example: ftp> bin
11	Change directory to saverst Type "cd saverst" at the ftp> prompt For example: ftp> cd saverst
12	Get the backup.dat file from the network element Type "get backup.dat <PC directory and filename>" at the ftp> prompt For example: ftp> get backup.dat c:\OM5200backup.dat <i>The backup.dat file is copied to your PC in the directory and filename you have specified.</i>
13	Close the FTP session Type "bye" at the ftp> prompt For example: ftp> bye
14	You can rename the backup.dat file you copied to your PC with a name that clearly identifies the correct shelf and network element.

—end—

Procedure 15-2

Restoring shelf configuration data

Follow this procedure to restore a commissioned or uncommissioned shelf to service after a major failure. You must be logged in as an admin user. See [RST-PROV \(restore provisioning\) on page 2-26](#).

**CAUTION****Risk of traffic loss**

Nortel Networks recommends that you only restore shelf configuration data to an out-of-service shelf.

You can restore multiple shelves in the network at the same time.

Numerous circuit pack mismatch, circuit pack missing and facility alarms occur after a successful restore, if:

- the shelf is restored with the wrong backup file (TID mismatch)
- the shelf is restored with the correct backup file of another shelf in the same network (TID mismatch)

ATTENTION

The restore operation overwrites all previous configuration information stored on the SP circuit pack at the local network element. Once you commit the restore procedure, no cancellation is possible.

**CAUTION****Risk of alarms**

Make sure that you restore the correct backup file to the correct shelf. Failure to do so can cause alarms in the network.

**CAUTION****Risk of file corruption or file overwrite**

Perform the steps in this procedure with minimum time between commands. Otherwise, another user session can backup the same shelf and corrupt your backup.dat file.

—continued—

Procedure 15-2 (continued)

Restoring shelf configuration data



CAUTION

Risk of shelf instability or failure

Do not make provisioning changes or start a software upgrade during a restore procedure because this can result in shelf failures or instabilities.



CAUTION

Risk of a Loss of Contact

If the Access Control State of the shelf is different from the existing Access Control State of the other shelves in the hubbing group, a Loss of Contact may occur with the remote shelves during a Backup and Restore procedure (if the original shelf does not have any Overhead Communication available). Make sure that the Access Control State of all the shelves in the hubbing group is the same.



CAUTION

Risk of Restore failure

Prior to performing a database restore, make sure the OCM circuit packs are installed in the shelf and are in-service. If any of the OCMs are not in the shelf or are out-of-service, the backup command may fail. Place both OCMs in-service, or remove one out-of-service OCM from the shelf and place the other OCM in-service.

—continued—

Procedure 15-2 (continued)
Restoring shelf configuration data

Action

Step	Action
1	<p>Open an FTP session to the network element.</p> <p>Note: In most cases, you can initiate an FTP session from your PC running the Windows operating system version 98 and above. To do so perform the following actions.</p> <ul style="list-style-type: none">a. Click the Start button on the Taskbar, and select Run...b. In the Open field, type the following: ftp <shelf_ip_address> For example: ftp 10.0.34.21c. Click on OK <p><i>If the command successfully executes, you receive a message, such as:</i></p> <pre>Connected to <shelf_ip_address> 220 VXWorks FTP server ready User <shelf_ip_address:<none>>:</pre> <ul style="list-style-type: none">d. Enter the user name and hit the enter keye. Enter the password and hit the enter key <p><i>If you have logged in successfully, you receive a message such as</i></p> <pre>User logged in ftp></pre>
2	<p>Make sure the FTP transfer type is set to binary.</p> <p>Type “bin” at the ftp> prompt</p> <p>For example:</p> <pre>ftp> bin</pre>
3	<p>Change directory to saverst</p> <p>Type “cd saverst” at the ftp> prompt</p> <p>For example:</p> <pre>ftp> cd saverst</pre>
4	<p>Rename the backup file to “backup.dat” on your PC.</p>

—continued—

15-10 Shelf backup and restore procedures

Procedure 15-2 (continued)

Restoring shelf configuration data

Step	Action						
5	<p>Put the backup.dat file from your PC to the network element. Type “put <PC directory of backup.dat file> backup.dat” at the ftp> prompt For example: ftp> put c:\backup.dat <i>The backup.dat file is copied to the network element from your PC.</i></p>						
6	<p>Close the FTP session Type “bye” at the ftp> prompt For example: ftp> bye</p>						
7	<p>There are two ways to open a TL1 Telnet session.</p> <table><thead><tr><th>If the shelf is</th><th>Then go to</th></tr></thead><tbody><tr><td>uncommissioned</td><td>step 8</td></tr><tr><td>commissioned</td><td>step 10</td></tr></tbody></table>	If the shelf is	Then go to	uncommissioned	step 8	commissioned	step 10
If the shelf is	Then go to						
uncommissioned	step 8						
commissioned	step 10						
8	<p>Connect your PC to an Ethernet or serial port of the network element. Make sure that the port is configured for TCP/IP. Initiate a TL1 Telnet session by entering the following command: >telnet 10.1.254.1 10002</p>						
9	<p>Go to step 12.</p>						
10	<p>Establish a Telnet connection using a Telnet client, such as a UNIX shell. Use the TL1 port instead of the standard Telnet port.</p> <p>Note: In most cases, you can initiate a Telnet session from your PC running the Windows operating system version 98 and above. To do so perform the following actions.</p> <ol style="list-style-type: none">Click the Start button on the Taskbar, and select Run...In the Open field, type the telnet command as specified in step 11						

—continued—

 Procedure 15-2 (continued)
Restoring shelf configuration data

Step	Action
11	Issue the following telnet command: <pre>telnet<shelf_ip_address> <configured_port></pre> For example: <pre>telnet 10.0.34.21 10002</pre> <p><i>If the command successfully executes, you receive a message, such as:</i></p> <pre>OPTICAL-METRO-TL1></pre>
12	Activate the login by issuing the following command: <pre>ACT-USER: [TID] :ADMIN: [CTAG] ::<password>;</pre> <p><i>If the login is successful, you will receive a COMPLD TL1 message. Hit the Enter key to get the OPTICAL-METRO-TL1> prompt.</i></p>
13	Use the TL1 Telnet session to execute the RST-PROV command. Enter the command as follows: <pre>RST-PROV: [TID] :: [CTAG] :: [<userid>] , [<passwd>] : [DESTTYPE=<desttype>] , [DESTADDR=<destaddr>] , [DIRECTORY=<directory>] , [CHKTID=<chktid>] , [CHKALM=<chkalm>] , [PRESERVE=<preserve>];</pre> For example: <pre>RST-PROV:OM500-1-7::REST::ftp,ftp:DESTTYPE=IP,DESTADDR="45.117.29.37",DIRECTORY=/pub/admin/load.dat,CHKTID=N,CHKALM=N;</pre> <p><i>If the command is successful, you will receive a COMPLD TL1 message. Hit the Enter key to get the OPTICAL-METRO-TL1> prompt.</i></p>

—continued—

15-12 Shelf backup and restore procedures

Procedure 15-2 (continued)

Restoring shelf configuration data

Step	Action
------	--------

14



CAUTION

Risk of loss of communication with the shelf

Nortel Networks recommends that you wait at least two minutes after committing the restore operation before issuing any further commands, or viewing any information from the shelf.

At this point, you can either cancel or commit the restore operation.

If you want to **Then enter**

cancel

CANC-PROV: [TID] : : [CTAG] ; to cancel the transaction.

If the command is successful, you will receive a COMPLD TL1 message. Hit the Enter key to get the OPTICAL-METRO-TL1> prompt.

1 To logout of the TL1 session, enter the CANC-USER command as follows;

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

If the command is successful, you will receive a COMPLD TL1 message. Hit the Enter key to get the OPTICAL-METRO-TL1> prompt.

2 To close the TL1 Telnet session, enter "logout" or "exit".

commit

CMMT-PROV: [TID] : : [CTAG] ; to propagate the restored provisioning data from the SP circuit pack to the network element

CMMT-PROV triggers a shelf level restart at the network element and closes the Telnet session.

—end—

Procedure 15-3

Troubleshooting a TL1 backup failure

Probable cause

The shelf backup command (SAV-PROV) fails when:

- someone else in the network attempts to make provisioning or configuration changes to the shelf during backup
- there are alarms on the network element
- the target identifier (TID) or source identifier (SID) of the network element that you are backing up is duplicated in the network

The backup.dat file can be overwritten or corrupted if:

- you take too long to perform the steps in [Procedure 15-1](#)
- you fail to ensure that the FTP default is set to binary

Impact

Minor

Action

Step	Action						
1	If you receive notification that the SAV-PROV command is unsuccessful, make sure that no one is attempting to make provisioning or software changes to the shelf.						
2	Ensure no one else is, or will be, performing a backup or restore to the shelf procedure while you are doing a backup or restore procedure.						
3	Make sure there are no alarms on the network element. If you discover alarms you have two options: <table border="1"> <thead> <tr> <th>If you intend to</th> <th>Then</th> </tr> </thead> <tbody> <tr> <td>clear the alarms prior to backup</td> <td>check the alarm messages and refer to the appropriate chapter in <i>Trouble Clearing and Alarm Reference Guide</i>, 323-1701-542, for help</td> </tr> <tr> <td>backup the shelf with alarms present</td> <td>follow Procedure 15-1 and at step 4, disable the CHKALM default in the command string SAV-PROV: [TID] :: [CTAG] :: [<userid>] , [<passwd>] : [DESTTYPE=<desttype>] , [DESTADDR=<destaddr>] , [DIRECTORY=<directory>] , [CHKALM=<chkalm>] ;</td> </tr> </tbody> </table>	If you intend to	Then	clear the alarms prior to backup	check the alarm messages and refer to the appropriate chapter in <i>Trouble Clearing and Alarm Reference Guide</i> , 323-1701-542, for help	backup the shelf with alarms present	follow Procedure 15-1 and at step 4 , disable the CHKALM default in the command string SAV-PROV: [TID] :: [CTAG] :: [<userid>] , [<passwd>] : [DESTTYPE=<desttype>] , [DESTADDR=<destaddr>] , [DIRECTORY=<directory>] , [CHKALM=<chkalm>] ;
If you intend to	Then						
clear the alarms prior to backup	check the alarm messages and refer to the appropriate chapter in <i>Trouble Clearing and Alarm Reference Guide</i> , 323-1701-542, for help						
backup the shelf with alarms present	follow Procedure 15-1 and at step 4 , disable the CHKALM default in the command string SAV-PROV: [TID] :: [CTAG] :: [<userid>] , [<passwd>] : [DESTTYPE=<desttype>] , [DESTADDR=<destaddr>] , [DIRECTORY=<directory>] , [CHKALM=<chkalm>] ;						

—continued—

15-14 Shelf backup and restore procedures

Procedure 15-3 (continued)

Troubleshooting a TL1 backup failure

Step	Action
4	If the backup fails and generates a “Duplicate SID” fail message, check the network element list for duplicated TIDs, and change one of them.
5	If your initial backup did not generate a fail message, but you suspect the backup file is corrupt, or incorrect: <ul style="list-style-type: none">• check that the FTP default is set to binary. If not, change the default and perform Procedure 15-1 again.• check the ASCII timestamp embedded in the header of the backup.dat file to make sure that it matches the backup you initiated. If not, perform Procedure 15-1 again, with minimal hesitation between steps to ensure that no one else can overwrite the file.

—end—

Procedure 15-4

Troubleshooting a TL1 restore failure

Probable cause

The shelf restore command (RST-PROV) sequence fails when:

- someone else in the network attempts to make provisioning or software changes to the shelf during a restore operation
- there are alarms on the network element
- the target identifier (TID) of the shelf being restored and the TID embedded in the ASCII header of the backup.dat file do not match and the CHKTID default is enabled
- the target identifier (TID) or source identifier (SID) of the network element that you are restoring is duplicated in the network

The restore backup.dat file can be overwritten or corrupted if:

- you take too long to perform the steps in [Procedure 15-2](#)
- you fail to ensure that the FTP default is set to binary

Numerous card mismatch, card missing and facility alarms occur after a successful restore, if:

- the shelf is restored with the wrong backup file (TID mismatch)
- the shelf is restored with the correct backup file of another shelf in the same network (TID mismatch)

Impact

Minor to Major.

—continued—

Action

Step	Action						
1	If the restore operation fails, make sure that no one is attempting to make provisioning or software changes to the shelf.						
2	Make sure there are no alarms on the network element. If you discover alarms, you have two options: <table border="1"> <thead> <tr> <th>If you intend to</th> <th>Then</th> </tr> </thead> <tbody> <tr> <td>clear the alarms prior to restore</td> <td>check the alarm messages and refer to the appropriate chapter in <i>Trouble Clearing and Alarm Reference Guide</i>, 323-1701-542, for help</td> </tr> <tr> <td>restore a commissioned shelf that has alarms</td> <td>perform Procedure 15-2 and at step 13, disable the CHKALM default in the command string RST-PROV: [TID] :: [CTAG] :: [<userid>], [<passwd>]: [DESTTYPE=<desttype>], [DESTADDR=<destaddr>], [DIRECTORY=<directory>], [CHKTID=<N>], [CHKALM=<chkalm>], [PRESERVE=<preserve>];</td> </tr> </tbody> </table>	If you intend to	Then	clear the alarms prior to restore	check the alarm messages and refer to the appropriate chapter in <i>Trouble Clearing and Alarm Reference Guide</i> , 323-1701-542, for help	restore a commissioned shelf that has alarms	perform Procedure 15-2 and at step 13 , disable the CHKALM default in the command string RST-PROV: [TID] :: [CTAG] :: [<userid>], [<passwd>]: [DESTTYPE=<desttype>], [DESTADDR=<destaddr>], [DIRECTORY=<directory>], [CHKTID=<N>], [CHKALM=<chkalm>], [PRESERVE=<preserve>];
If you intend to	Then						
clear the alarms prior to restore	check the alarm messages and refer to the appropriate chapter in <i>Trouble Clearing and Alarm Reference Guide</i> , 323-1701-542, for help						
restore a commissioned shelf that has alarms	perform Procedure 15-2 and at step 13 , disable the CHKALM default in the command string RST-PROV: [TID] :: [CTAG] :: [<userid>], [<passwd>]: [DESTTYPE=<desttype>], [DESTADDR=<destaddr>], [DIRECTORY=<directory>], [CHKTID=<N>], [CHKALM=<chkalm>], [PRESERVE=<preserve>];						
3	Check that the TID of the shelf being restored and the TID embedded in the ASCII header of the backup.dat file match. If not, you have two options: <table border="1"> <thead> <tr> <th>If</th> <th>Then</th> </tr> </thead> <tbody> <tr> <td>you intend to use the backup of one shelf to restore another shelf in the same network</td> <td>perform Procedure 15-2 and at step 13, disable the CHKTID default in the command string RST-PROV: [TID] :: [CTAG] :: [<userid>], [<passwd>]: [DESTTYPE=<desttype>], [DESTADDR=<destaddr>], [DIRECTORY=<directory>], [CHKTID=<N>], [CHKALM=<chkalm>], [PRESERVE=<preserve>]; (this will cause numerous shelf alarms)</td> </tr> <tr> <td>you intend to restore the shelf with its own backup file</td> <td>perform Procedure 15-2 and at step 13, make sure that the target identifier (TID) of the shelf being restored and the TID embedded in the ASCII header of the backup.dat file are the same</td> </tr> </tbody> </table>	If	Then	you intend to use the backup of one shelf to restore another shelf in the same network	perform Procedure 15-2 and at step 13 , disable the CHKTID default in the command string RST-PROV: [TID] :: [CTAG] :: [<userid>], [<passwd>]: [DESTTYPE=<desttype>], [DESTADDR=<destaddr>], [DIRECTORY=<directory>], [CHKTID=<N>], [CHKALM=<chkalm>], [PRESERVE=<preserve>]; (this will cause numerous shelf alarms)	you intend to restore the shelf with its own backup file	perform Procedure 15-2 and at step 13 , make sure that the target identifier (TID) of the shelf being restored and the TID embedded in the ASCII header of the backup.dat file are the same
If	Then						
you intend to use the backup of one shelf to restore another shelf in the same network	perform Procedure 15-2 and at step 13 , disable the CHKTID default in the command string RST-PROV: [TID] :: [CTAG] :: [<userid>], [<passwd>]: [DESTTYPE=<desttype>], [DESTADDR=<destaddr>], [DIRECTORY=<directory>], [CHKTID=<N>], [CHKALM=<chkalm>], [PRESERVE=<preserve>]; (this will cause numerous shelf alarms)						
you intend to restore the shelf with its own backup file	perform Procedure 15-2 and at step 13 , make sure that the target identifier (TID) of the shelf being restored and the TID embedded in the ASCII header of the backup.dat file are the same						

—continued—

Procedure 15-4 (continued)

Troubleshooting a TL1 restore failure

Step	Action
4	<p>If you suspect that the backup.dat file is corrupt or incorrect:</p> <ul style="list-style-type: none">• check that the FTP default is set to binary. If not, change the default and perform Procedure 15-2 again.• check the ASCII timestamp embedded in the header of the backup.dat file on the shelf SP to make sure that it matches the restore you initiated. If not, perform Procedure 15-2 again, with minimal hesitation between steps to ensure that no one else can overwrite the file.

—end—

Nortel

Optical Metro 5100/5200

TL1 Interface, Part 3 of 4

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