

Nortel

Optical Metro 5100/5200

TL1 Interface, Part 2 of 4

Standard Release 8.0 Issue 1 April 2005

What's inside...

Facility loopback commands
Protection switching commands
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Performance monitoring commands

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Introducing TL1, Security and administration commands, System commands, Equipment commands, Facility commands, Cross-connect commands

See Part 3 for the following:

Alarm and event commands, Environment and external control commands, Autonomous messages, Error codes, Shelf backup and restore procedures

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 2 of the *TL1 Interface*, 323-1701-190.

Part 2 of the *TL1 Interface* covers further TL1 detailed command descriptions.

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

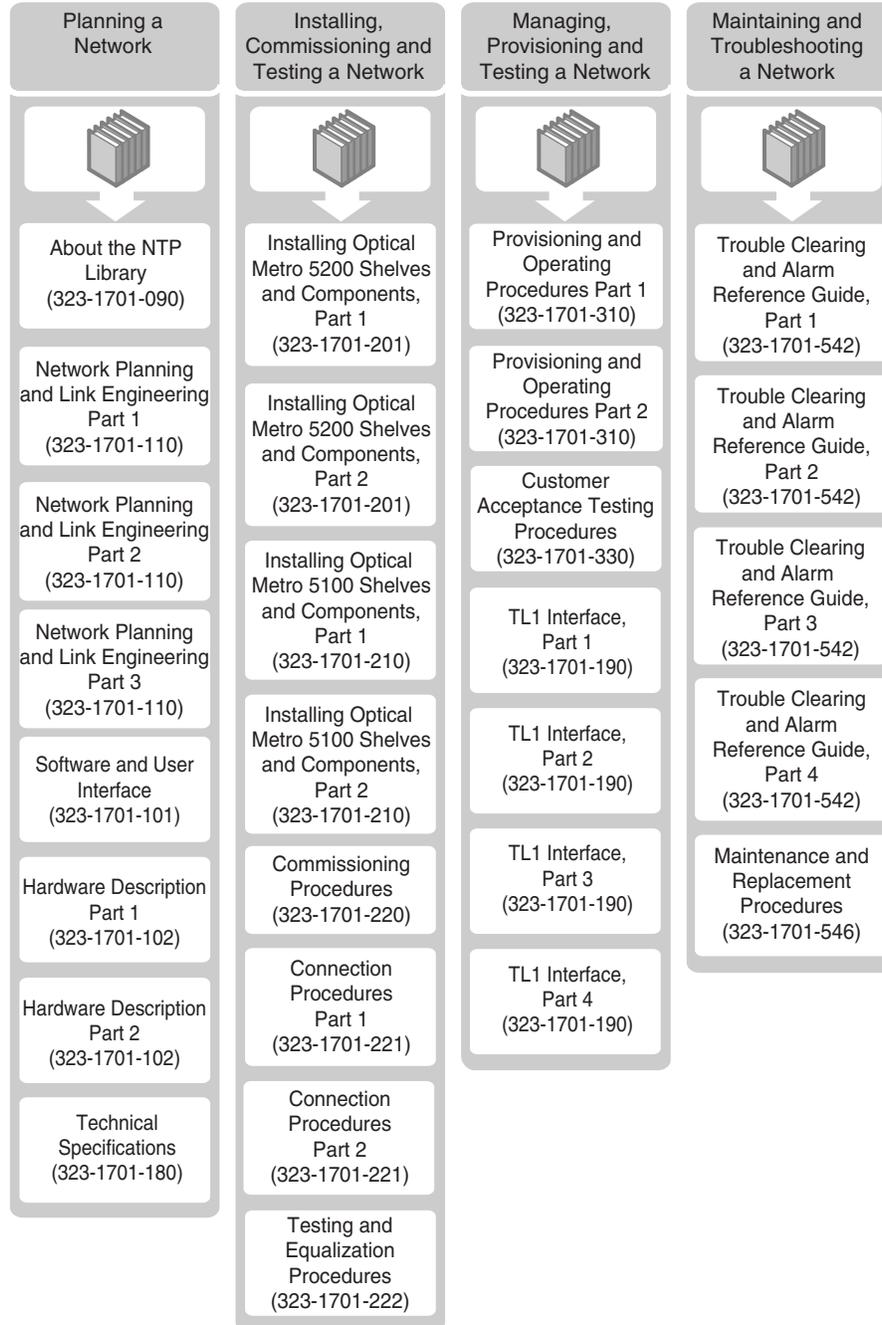
These NTPs provide detailed descriptive information about the Optical Metro 5100/5200, including system software and hardware descriptions, technical specifications, ordering information, and TL1 user information.

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.

Facility loopback commands

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

Commands in this chapter

Table 7-1 lists the facility loopback commands in this chapter.

Table 7-1
Facility loopback commands

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OPR-LPBK-GFSRM (operate loopback GFSRM)	7-3
OPR-LPBK-MOTR (operate loopback MOTR)	7-4
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OPR-LPBK-OCLD (operate loopback OCLD)	7-7
OPR-LPBK-OSC (operate loopback OSC)	7-8
OPR-LPBK-OTR (operate loopback OTR)	7-9
OPR-LPBK-SRM (operate loopback SRM)	7-10
OPR-LPBK-WSC (operate loopback WSC)	7-11
RLS-LPBK-GFSRM (release loopback GFSRM)	7-12
RLS-LPBK-MOTR (release loopback MOTR)	7-13
RLS-LPBK-MOTRSFP (release loopback MOTRSFP)	7-14
RLS-LPBK-OCI (release loopback OCI)	7-15
RLS-LPBK-OCLD (release loopback OCLD)	7-16
RLS-LPBK-OSC (release loopback OSC)	7-17

7-2 Facility loopback commands

Table 7-1 (continued)
Facility loopback commands

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RLS-LPBK-OTR (release loopback OTR)	7-18
RLS-LPBK-SRM (release loopback SRM)	7-19
RLS-LPBK-WSC (release loopback WSC)	7-20

OPR-LPBK-GFSRM (operate loopback GRSRM)

Use the OPR-LPBK-GFSRM command to set a specified OCI SRM GbE/FC or OCI SRM GbE facility into a loopback mode. Two types of loopback are possible: facility and terminal. The facility loopback is available on the client-side facilities. The terminal loopback type is available on the aggregate facility. Before you can enter this command, the facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-GFSRM: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] ,
 [<intext>] , <lpbktype>;
```

Table 7-2
OPR-LPBK-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM client-side or aggregate facility	GFSRM facility For AID values see Table 1-6 on page 1-17	GFSRM facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the GFSRM facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONCTON network element, for the OCI SRM GbE/FC circuit pack in slot 7, create a facility loopback:

```
OPR-LPBK-GFSRM:MONCTON:7-1:1::,, ,FAC;
```

At the MONCTON network element, for the OCI SRM GbE/FC circuit pack in slot 7, create a terminal loopback:

```
OPR-LPBK-GFSRM:MONCTON:7-AG1::,, ,TERM;
```

OPR-LPBK-MOTR (operate loopback MOTR)

Use the OPR-LPBK-MOTR command to set a specified MOTR facility into a facility loopback mode. Before you can enter this command, the MOTR facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-MOTR: [TID] : <AID> : [CTAG] :: [<locn>] , [<orgn>] , [<intext>]
, <lpbktype>;
```

Table 7-3
OPR-LPBK-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	MOTR facility For AID values see Table 1-6 on page 1-17	MOTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the MONCTON network element, for the MOTR circuit pack in slot 7, create a facility loopback:

```
OPR-LPBK-MOTR:MONCTON:7-11:1::,, , FAC;
```

OPR-LPBK-MOTRSFP (operate loopback MOTRSFP)

Use the OPR-LPBK-MOTRSFP command to set a specified MOTRSFP facility into a loopback mode. Two types of loopback are possible: facility and terminal. Before you can enter this command, the MOTRSFP facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-MOTRSFP: [TID]:<AID>: [CTAG]:: [<locn>], [<orgn>], [<intext>], <lpbktype>;
```

Table 7-4
OPR-LPBK-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	MOTRSFP facility For AID values see Table 1-6 on page 1-17	MOTRSFP facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONCTON network element, for the MOTR circuit pack in slot 7, create a facility loopback on MOTRSFP port 1:

```
OPR-LPBK-MOTRSFP:MONCTON:7-1:1::,,FAC;
```

OPR-LPBK-OCI (operate loopback OCI)

Use the OPR-LPBK-OCI command to set a specified OCI facility into a loopback mode. Two types of loopback are possible: facility and terminal. Before you can enter this command, the OCI facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-OCI: [TID] : <AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-5
OPR-LPBK-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OCI facility For AID values see Table 1-6 on page 1-17	OCI facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OCI facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONCTON network element, for the OCI circuit pack in slot 7, create a terminal loopback (send the incoming signal from the far-end subtending equipment back to the backplane):

```
OPR-LPBK-OCI:MONCTON:7-1:1::,, ,TERM;
```

At the TORONTO network element, for the OCI circuit pack in slot 12, create a facility loopback (send the incoming signal from the near-end subtending equipment send it back to the subtending equipment):

```
OPR-LPBK-OCI:TORONTO:12-1:1::,, ,FAC;
```

OPR-LPBK-OCLD (operate loopback OCLD)

Use the OPR-LPBK-OCLD command to set a specified OCLD facility into a loopback mode. Two types of loopback are possible: facility and terminal. Before you can enter this command, the OCLD facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-OCLD: [TID] : <AID> : [CTAG] :: [<locn>] , [<orgn>] , [<intext>]
, <lpbktype>;
```

Table 7-6
OPR-LPBK-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OCLD facility For AID values see Table 1-6 on page 1-17	OCLD facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OCLD facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the ATLANTA network element, for the OCLD circuit pack in slot 1, create a facility loopback (send the incoming signal from the far-end subtending equipment and send it back to the far-end subtending equipment):

```
OPR-LPBK-OCLD:ATLANTA:1-1:::,,FAC;
```

At the network element CAMBRIDGE, for the OCLD circuit pack in slot 1, create a terminal loopback (send the incoming signal from the near-end subtending equipment and back to the near-end subtending equipment):

```
OPR-LPBK-OCLD:CAMBRIDGE:1-1:::,,TERM;
```

OPR-LPBK-OSC (operate loopback OSC)

Use the OPR-LPBK-OSC command to set a specified OSC facility into facility loopback mode. Two types of loopback are possible: facility and terminal. Before you can enter this command, the OSC facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-OSC: [TID] : <AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-7
OPR-LPBK-OSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	20-EAST-OSC 20-WEST-OSC	6-EAST-OSC 6-WEST-OSC
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OSC facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the ATLANTA network element, for the OSC circuit pack, create a facility loopback (send the incoming signal from the far-end subtending equipment and send it back to the far-end subtending equipment):

```
OPR-LPBK-OSC:ATLANTA:20-EAST-OSC:::,,FAC;
```

OPR-LPBK-OTR (operate loopback OTR)

Use the OPR-LPBK-OTR command to set a specified OTR facility into a loopback mode. Facility loopbacks are available for the OTR on the line-side (port 2) and on the client-side (port 1). Before you can enter this command, the OTR facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-OTR: [TID] : <AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-8
OPR-LPBK-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OTR facility For AID values see Table 1-6 on page 1-17	OTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OTR facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the HARTSMERE network element, for the client facility on the OTR in slot 5, create a facility loopback (send the incoming signal from the near-end subtending equipment send it back to the subtending equipment):

```
OPR-LPBK-OTR:HARTSMERE:5-1:::,,FAC;
```

OPR-LPBK-SRM (operate loopback SRM)

Use the OPR-LPBK-SRM command to set a specified OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH or OCI SRM SONET/SDH LTE facility into a loopback mode. Two types of loopback are possible: facility and terminal. Before you can enter this command, the facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-SRM: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-9
OPR-LPBK-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	SRM facility For AID values see Table 1-6 on page 1-17	SRM facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the SRM facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the HARTSMERE network element, for port 3 on the SRM OCI circuit pack in slot 5, create a facility loopback (send the incoming signal from the near-end subtending equipment send it back to the subtending equipment):

```
OPR-LPBK-SRM:HARTSMERE:5-3:::,,FAC;
```

At the KINGSMERE network element, for port 2 on the SRM OCI circuit pack in slot 6, create a terminal loopback (send the incoming signal from the far-end subtending equipment back to the backplane):

```
OPR-LPBK-SRM:KINGSMERE:6-2:::,,TERM;
```

OPR-LPBK-WSC (operate loopback WSC)

Use the OPR-LPBK-WSC command to set a specified WSC facility into a loopback mode. Two types of loopback are possible: facility and terminal. Before you can enter this command, the WSC facility must be connected and OOS.

Security level

Level 2

Input syntax

```
OPR-LPBK-WSC: [TID] : <AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-10
OPR-LPBK-WSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	20-EAST-WSC 20-WEST-WSC	6-EAST-WSC 6-WEST-WSC
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OSC facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the ATLANTA network element, for the east WSC facility, create a facility loopback (send the incoming signal from the far-end subtending equipment and send it back to the far-end subtending equipment):

```
OPR-LPBK-WSC:ATLANTA:20-EAST-WSC:::,,FAC;
```

RLS-LPBK-GFSRM (release loopback GFSRM)

Use the RLS-LPBK-GFSRM command to release a loopback on an OCI SRM GbE/FC or OCI SRM GbE client-side or aggregate facility.

Security level

Level 2

Input syntax

```
OPR-LPBK-GFSRM: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] ,
 [<intext>] , <lpbktype>;
```

Table 7-11
RLS-LPBK-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM client-side or aggregate 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
LOCN	Location of the GFSRM facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONCTON network element, release the loopback on the OCI SRM GbE/FC facility in slot 7, port 1:

```
RLS-LPBK-GFSRM:MONCTON:7-1:::,, , FAC;
```

At the MONCTON network element, release the terminal loopback on the aggregate facility of the OCI SRM GbE/FC circuit pack in slot 7:

```
RLS-LPBK-GFSRM:MONCTON:7-AG1:::,, , TERM;
```

RLS-LPBK-MOTR (release loopback MOTR)

Use the RLS-LPBK-MOTR command to release a loopback on a specified MOTR facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-MOTR: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>]
, <lpbktype>;
```

Table 7-12
RLS-LPBK-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	MOTR facility For AID values see Table 1-6 on page 1-17	MOTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the MONCTON network element, for the MOTR circuit pack in slot 7, release the facility loopback:

```
RLS-LPBK-MOTR:MONCTON:7-11:1::,, ,FAC;
```

RLS-LPBK-MOTRSFP (release loopback MOTRSFP)

Use the RLS-LPBK-MOTRSFP command to release a loopback on a MOTRSFP facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-MOTRSFP: [TID]:<AID>:[CTAG]::[<locn>],[<orgn>],[<intex
t>],[<lpbktype>;
```

Table 7-13
RLS-LPBK-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	MOTRSFP facility For AID values see Table 1-6 on page 1-17	MOTRSFP facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONCTON network element, for the MOTR circuit pack in slot 7, release the facility loopback on MOTRSFP port 1:

```
RLS-LPBK-MOTRSFP:MONCTON:7-1:1::,,FAC;
```

RLS-LPBK-OCI (release loopback OCI)

Use the RLS-LPBK-OCI command to release a loopback on an OCI facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-OCI : [TID] : <AID> : [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-14
RLS-LPBK-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OCI facility For AID values see Table 1-6 on page 1-17	OCI facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OCI facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONCTON network element, release the loopback on the OCI facility in slot 7:

```
RLS-LPBK-OCI : MONCTON : 7-1 : : : , , , TERM;
```

RLS-LPBK-OCLD (release loopback OCLD)

Use the RLS-LPBK-OCLD command to release the loopback on the OCLD facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-OCLD: [TID] : <AID> : [CTAG] :: [<locn>] , [<orgn>] , [<intext>]
, <lpbktype>;
```

Table 7-15
RLS-LPBK-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OCLD facility For AID values see Table 1-6 on page 1-17	OCLD facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OCLD facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

At the MONTEBELLO network element, release the loopback on the OCLD facility in slot 1:

```
RLS-LPBK-OCLD:MONTEBELLO:1-1:::,, ,FAC;
```

RLS-LPBK-OSC (release loopback OSC)

Use the RLS-LPBK-OSC command to release the loopback on the OSC facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-OSC: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-16
RLS-LPBK-OSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	20-EAST-OSC 20-WEST-OSC	6-EAST-OSC 6-WEST-OSC
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OSC facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the MONTEBELLO network element, release the loopback on the west OSC facility:

```
RLS-LPBK-OSC:MONTEBELLO:20-WEST-OSC:::,,FAC;
```

RLS-LPBK-OTR (release loopback OTR)

Use the RLS-LPBK-OTR command to release a loopback on an OTR facility.

Security level

Level 2

Input syntax

RLS-LPBK-OTR: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] , <lpbktype>;

Table 7-17
RLS-LPBK-OTR input syntax definition

Parameter	Description	Possible values (52000)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OTR facility For AID values see Table 1-6 on page 1-17	OTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the OTR facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

Release the loopback on port 2 of the OTR circuit pack in slot 5:

```
RLS-LPBK-OTR:TORONTO:5-2:::,,FAC;
```

RLS-LPBK-SRM (release loopback SRM)

Use the RLS-LPBK-SRM command to release a loopback on an OCI SRM, OCI SRM ESCON, OCI SRM SONET/SDH, or OCI SRM SONET/SDH LTE facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-SRM: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-18
RLS-LPBK-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	SRM facility For AID values see Table 1-6 on page 1-17	SRM facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the SRM facility	Unused	Unused
ORGN	Origin of the signal	Unused	Unused
INTEXT	Signal processing information	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility TERM = terminal	FAC = facility TERM = terminal

Example input

Release the loopback on port 3 of the OCI SRM circuit pack in slot 5:

```
RLS-LPBK-SRM: TORONTO: 5-3 : : , , , FAC;
```

RLS-LPBK-WSC (release loopback WSC)

Use the RLS-LPBK-WSC command to release the loopback on the WSC facility.

Security level

Level 2

Input syntax

```
RLS-LPBK-WSC: [TID] :<AID>: [CTAG] :: [<locn>] , [<orgn>] , [<intext>] ,
<lpbktype>;
```

Table 7-19
RLS-LPBK-WSC input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	20-EAST-WSC 20-WEST-WSC	6-EAST-WSC 6-WEST-WSC
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location of the WSC facility	Unused	Unused
ORGN	(Unsupported)	Unused	Unused
INTEXT	(Unsupported)	Unused	Unused
LPBKTYPE	Loopback type	FAC = facility	FAC = facility

Example input

At the MONTEBELLO network element, release the loopback on the west WSC facility:

```
RLS-LPBK-WSC:MONTEBELLO:20-WEST-WSC:::,,FAC;
```

Protection switching commands

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

Commands in this chapter

Table 8-1 lists the protection switching commands in this chapter.

Table 8-1
Protection switching commands

Command	Page
OPR-PROTNSW-EQPT (operate protection switch equipment)	8-2
OPR-PROTNSW-MOTR (operate protection switch MOTR)	8-3
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OPR-PROTNSW-EQPT (operate protection switch equipment)

Use the OPR-PROTNSW-EQPT command to instruct the network element to switch to an OCM on all circuit packs in the network element. This command remains active until you use the RLS-PROTNSW-EQPT command, or a higher priority switch request overrides the command.

You cannot release a manual protection switch. If you want to release a manual switch, use the OPR-PROTNSW-EQPT command to manually switch traffic to the original OCM.

Note: The user must enter the AID of the active OCM equipment to switch traffic to the protection OCM equipment. If the AID of the protection OCM equipment is used, the command is accepted, but the same OCM equipment stays active (no switch is performed).

Security level

Level 2

Input syntax

```
OPR-PROTNSW-EQPT: [TID] : <AID> : [CTAG] : : <protnsw> : [<dirn>] ;
```

Table 8-2
OPR-PROTNSW-EQPT input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for OCM equipment	For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string
PROTNSW	Protection switch	MAN = Manual FRCD = Forced
DIRN	Direction	Unused

Example input

Switch traffic to the OCM in slot 10 by operating a forced switch on the active OCM in slot 9:

```
OPR-PROTNSW-EQPT: PITTSBURGH: OCM-9: K: : FRCD;
```

OPR-PROTNSW-MOTR (operate protection switch MOTR)

Use the OPR-PROTNSW-MOTR command to place a protection switch on the specified MOTR. The MOTR must be part of a protected connection. This command remains active until you use the RLS-PROTNSW-MOTR command or a higher priority switch request overrides the command.

Note: The user must enter the AID of the MOTR facility not carrying the traffic (MOTR on the protected path) to switch traffic to that path. If the AID of the MOTR facility currently carrying the traffic is used (MOTR on the active path), the command is accepted and the related MOTRs show the Manual/Forced/Lockout path states, but the traffic remains on the same path.

Security level

Level 2

Input syntax

```
OPR-PROTNSW-MOTR: [TID]:<AID>: [CTAG]:::<protnsw>: [<dirn>];
```

Table 8-3
OPR-PROTNSW-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	MOTR facility For AID values see Table 1-6 on page 1-17	MOTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
PROTNSW	Protection switch	MAN = Manual FRCD = Forced LOCKOUT = Lockout	MAN = Manual FRCD = Forced LOCKOUT = Lockout
DIRN	Direction	Unused	Unused

Example input

Manually switch the traffic to the MOTR circuit pack in slot 14. The active MOTR circuit pack is located in slot 14.

```
OPR-PROTNSW-MOTR:TORONTO:1-11:::MAN;
```

Force the traffic to switch to the MOTR circuit pack in slot 3. The MOTR circuit pack located in slot 13 is active.

```
OPR-PROTNSW-MOTR:TORONTO:3-11:::FRCD;
```

8-4 Protection switching commands

Set a lockout protection switch on the MOTR circuit pack in slot 17. The MOTR slot 17 is active.

```
OPR-PROTNSW-MOTR:TORONTO:17-11:::LOCKOUT;
```

OPR-PROTNSW-OCLD (operate protection switch OCLD)

Use the OPR-PROTNSW-OCLD command to place a protection switch on the specified OCLDs. The OCLD must be part of a protected connection. This command remains active until you use the RLS-PROTNSW-OCLD command or a higher priority switch request overrides the command.

Note: The user must enter the AID of the OCLD facility not carrying the traffic (OCLD on the protected path) to switch the traffic to that path. If the AID of the OCLD facility currently carrying the traffic is used (OCLD on the active path), the command is accepted and the related OCLDs show the Manual/Forced/Lockout path states, but the traffic remains on the same path.

Security level

Level 2

Input syntax

```
OPR-PROTNSW-OCLD: [TID] : <AID> : [CTAG] :: <protnsw> : [<dirn>] ;
```

Table 8-4
OPR-PROTNSW-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OCLD facility For AID values see Table 1-6 on page 1-17	OCLD facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
PROTNSW	Protection switch	MAN = Manual FRCD = Forced LOCKOUT = Lockout	MAN = Manual FRCD = Forced LOCKOUT = Lockout
DIRN	Direction	Unused	Unused

Example input

Manually switch the traffic to the OCLD circuit pack in slot 1 (inactive OCLD):

```
OPR-PROTNSW-OCLD: TORONTO: 1-1 : : : MAN ;
```

Force the traffic to switch to the OCLD in slot 4 (inactive OCLD):

```
OPR-PROTNSW-OCLD: TORONTO: 4-1 : : : FRCD ;
```

Set a lockout protection switch on the OCLD in slot 18:

```
OPR-PROTNSW-OCLD: TORONTO: 18-1 : : : LOCKOUT ;
```

OPR-PROTNSW-OTR (operate protection switch OTR)

Use the OPR-PROTNSW-OTR command to place a protection switch on the specified OTRs. The OTR must be part of a protected connection. This command remains active until you use the RLS-PROTNSW-OTR command or a higher priority switch request overrides the command.

Note: The user must enter the AID of the OTR facility not carrying the traffic (OTR on the protected path) to switch the traffic to that path. If the AID of the OTR facility currently carrying the traffic is used (OTR on the active path), the command is accepted and the related OTRs show the Manual/Forced/Lockout path states, but the traffic remains on the same path.

Security level

Level 2

Input syntax

OPR-PROTNSW-OTR: [TID] :<AID>: [CTAG] ::<protnsw>: [<dirn>];

Table 8-5
OPR-PROTNSW-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OTR facility For AID values see Table 1-6 on page 1-17	OTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
PROTNSW	Protection switch	MAN = Manual FRCD = Forced LOCKOUT = Lockout	MAN = Manual FRCD = Forced LOCKOUT = Lockout
DIRN	Direction	Unused	Unused

Example input

Manually switch the traffic to the OTR circuit pack in slot 1 (inactive OTR):

```
OPR-PROTNSW-OTR:TORONTO:1-2:245::MAN;
```

Force the traffic to the OTR circuit pack in slot 4 (inactive OTR):

```
OPR-PROTNSW-OTR:TORONTO:4-1:HK::FRCD;
```

Set a lockout protection switch on the OTR circuit pack in slot 17:

```
OPR-PROTNSW-OTR:TORONTO:17-2:579::LOCKOUT;
```

OPR-SYNCNSW-SRM (operate synchronization switch SRM)

Use the OPR-SYNCNSW-SRM command to instruct the network element to perform a manual switch between the primary reference clock and the secondary reference clock for a specified OCI SRM SONET/SDH or OCI SRM SONET/SDH LTE circuit pack. The OCI SRM SONET/SDH or OCI SRM SONET/SDH LTE must be part of a channel assignment.

If the primary clock (PRI) is selected to be active, the secondary clock (SEC) is on standby. If the secondary clock (SEC) is selected to be active, the primary clock (PRI) is on standby.

Security level

Level 2

Input syntax

```
OPR-SYNCNSW-SRM: [TID] : <AID> : [CTAG] : : SYNCNSW=<syncnsw>;
```

Table 8-6
OPR-SYNCNSW-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for an SRM client or aggregate facility	SRM facility For AID values see Table 1-6 on page 1-17	SRM facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
SYNCNSW	Synchronization switch	MAN = Manual Switch	MAN = Manual Switch

Example input

Perform a manual synchronization switch on port 4 of the SONET/SDH SRM OCI circuit pack in slot 5:

```
OPR-SYNCNSW-SRM: KELOWNA: 5-4: 1: : SYNCNSW=MAN;
```

RLS-PROTNSW-EQPT (release protection switch equipment)

Use the RLS-PROTNSW-EQPT command to instruct the network element to release any equipment protection switch requests that were initiated by the OPR-PROTNSW-EQPT (operate protection switch) command and are active on the equipment.

When you release a forced switch, the “forced” mode is cleared, but the traffic does not switch to the other OCM. To switch the traffic back to the original OCM, use the OPR-PROTNSW-EQPT command.

Note: The user must enter the AID of the inactive OCM equipment to release the forced switch. If the AID of the active OCM equipment is used, the command is not accepted (the resulting error message: input, invalid command).

You cannot release a manual protection switch. However, if you want to switch traffic to the original OCM, you can use the OPR-PROTNSW-EQPT command.

Security level

Level 2

Input syntax

```
RLS-PROTNSW-EQPT: [TID] :<AID>: [CTAG] :: [<dirn>];
```

Table 8-7
RLS-PROTNSW-EQPT input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier	OCM equipment For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string
DIRN	Direction	Unused

Example input

Release the forced switch on the inactive OCM in slot 9:

```
RLS-PROTNSW-EQPT: PERTH:OCM-9:245::;
```

RLS-PROTNSW-MOTR (release protection switch MOTR)

Use the RLS-PROTNSW-MOTR command to release a protection switch from a MOTR circuit pack.

When the protection switch is released, the traffic always goes back to the primary path, the path on the MOTR circuit pack where the physical client-side connections are made (SFP hardware present).

Note: The user must enter the AID of the active MOTR facility to release the forced/lockout/manual switch. If the AID of the protection MOTR facility is used, the command is not accepted (the resulting error message: invalid slot).

Security level

Level 2

Input syntax

```
RLS-PROTNSW-MOTR: [TID] :<AID>: [CTAG] :: [<dirn>];
```

Table 8-8
RLS-PROTNSW-MOTR input syntax definition

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

Example input

Release the forced switch from MOTR slot 1:

```
RLS-PROTNSW-MOTR: PERTH:1-11:48::;
```

RLS-PROTNSW-OCLD (release protection switch OCLD)

Use the RLS-PROTNSW-OCLD command to release a protection switch from an OCLD circuit pack.

Note: You cannot release a manual protection switch when the path is carrying traffic.

Security level

Level 2

Input syntax

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

Table 8-9
RLS-PROTNSW-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OCLD facility For AID values see Table 1-6 on page 1-17	OCLD facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
DIRN	Direction	Unused	Unused

Example input

Release the forced switch from OCLD slot 2:

RLS-PROTNSW-OCLD: PERTH: 2-1: 48: : ;

RLS-PROTNSW-OTR (release protection switch OTR)

Use the RLS-PROTNSW-OTR command to release a protection switch from an OTR circuit pack.

Note: You cannot release a manual protection switch when the path is carrying traffic.

Security level

Level 2

Input syntax

```
RLS-PROTNSW-OTR: [TID] : <AID> : [CTAG] : : [<dirn>] ;
```

Table 8-10**RLS-PROTNSW-OTR input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	OTR facility For AID values see Table 1-6 on page 1-17	OTR facility For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
DIRN	Direction	Unused	Unused

Example input

Release the forced switch from OTR in slot 2:

```
RLS-PROTNSW-OTR: PERTH: 2-2: 48: : ;
```

RTRV-SYNCNSW-SRM (retrieve synchronization switch SRM)

Use the RTRV-SYNCNSW-SRM command to retrieve the primary and secondary clock reference data for the specified SRM OCI SONET/SDH or SRM OCI SONET/SDH LTE circuit pack. The SRM OCI SONET/SDH or SRM OCI SONET/SDH LTE must be part of a channel assignment.

If the primary clock (PRI) is active, the secondary clock (SEC) is on standby.
If the secondary clock (SEC) is active, the primary clock (PRI) is on standby.

Security level

Level 1

Input syntax

```
RTRV-SYNCNSW-SRM: [TID] : [<AID>] : [CTAG] ;
```

Table 8-11
RTRV-SYNCNSW-SRM input syntax definition

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

Example input

At the network element OTTAWA, retrieve the synchronization status on the SRM OCI in slot 12:

```
RTRV-SYNCNSW-SRM:OTTAWA:12-1:20;
```

Output syntax

```
SID DATE TIME
M 1234 COMPLD
"<aid>: [NAME=<name>], [CONNECTED=<connected>], [SYNCREF=<syncref>], [SYNSTATE=<syncstate>], [SYNCSTATUS=<syncstatus>]"
;
```

Table 8-12
RTRV-SYNCNSW-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for an SRM facility	SRM facility For AID values see Table 1-6 on page 1-17	SRM facility For AID values see Table 1-6 on page 1-17
NAME	Name of the port	Character string	Character string
CONNECTED	Indicates the connection status of the port	CONNECTED = Connected NOT_CONNECTED = Not connected	CONNECTED = Connected NOT_CONNECTED = Not connected
SYNCREF	Indicates whether the port is a clock reference, and if so, whether it is the primary or secondary clock reference.	NIL = Not used for clock reference PRI = Primary clock reference SEC = Secondary clock reference	NIL = Not used for clock reference PRI = Primary clock reference SEC = Secondary clock reference
SYNCSTATE	Indicates whether the clock reference is active or on standby.	ACTIVE NIL STANDBY	ACTIVE NIL STANDBY
SYNCSTATUS	Indicates the status of the synchronization clock.	GOOD = Clock is good FAIL = Clock has failed NIL = None WTR = System is waiting to restore	GOOD = Clock is good FAIL = Clock has failed NIL = None WTR = System is waiting to restore

Example output

```
OTTAWA 01-01-11 23:04:44
M 20 COMPLD
"12-1:NAME=\"SRM Facility 12, port 1\",CONNECTED=CONNECTED,
SYNCREF=PRI,SYNCSTATE=ACTIVE,SYNCSTATUS=GOOD"
```

RTRV-PROTNSW-MOTR (retrieve protection switch MOTR)

Use RTRV-PROTSW-MOTR command to retrieve the protection switch for the specified Muxponder facilities.

Security level

Level 1

Input syntax

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

Table 8-13
RTRV-PROTNSW-MOTR input syntax definition

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

Example input

Retrieve the protection switch status on the Muxponder circuit pack in slot 11:

```
RTRV-PROTNSW-MOTR: :11-11:protsw;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aidfrom>,<aidto>:SWSTATUS=<swstatus>,SWEND=<swend>,[SWREASON
=<swreason>],[SWMATE=<swmate>]"
```

Table 8-14
RTRV-PROTNSW-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AIDFROM	Access identifier The AIDfrom is always an MOTR involved in the cross-connect.	MOTR facility For AID values see Table 1-6 on page 1-17	MOTR facility For AID values see Table 1-6 on page 1-17
AIDTO	Access identifier The AIDto for pass-through is always a MOTR, or a MOTRSFP port in the connection.	MOTR, MOTRSFP facility For AID values see Table 1-6 on page 1-17	MOTR, MOTRSFP facility For AID values see Table 1-6 on page 1-17
SWSTATUS	Protection switch status	AUTO FRCD IDLE LOCKOUT MAN WTR	AUTO FRCD IDLE LOCKOUT MAN WTR
SWEND	Switch end network element	LOCAL REMOTE	LOCAL REMOTE
SWREASON	Reason for the switch to occur	Unused	Unused
SWMATE	Access identifier The MOTR in the protected channel assignment.	MOTR facility For AID values see Table 1-6 on page 1-17	MOTR facility For AID values see Table 1-6 on page 1-17

Example output

```
OPT-1-19 01-09-21 23:50:02
M 3HK COMPLD
"11-11, 11-1:SWSTATUS=IDLE, SWEND=LOCAL, SWMATE=1-11"
```

Operational measurement commands

This chapter is an alphabetical summary of all TL1 commands related to operational measurements on the OCI SRM GbE/FC, OCI SRM GbE, and OTR circuit packs. The command descriptions in this chapter identify each command, and describe the command purpose, syntax, variables, and response.

Commands in this chapter

Table 9-1 lists the operational measurement commands in this chapter.

Table 9-1
Operational measurement commands

Command	Page
INIT-OMREG-EQPT (initialize OM register for Equipment)	9-2
INIT-OMREG-GFSRM (initialize OM register for GFSRM)	9-4
INIT-OMREG-MOTRSFP (initialize OM register for Muxponder)	9-6
INIT-OMREG-OTR (initialize OM register for OTR)	9-7
RTRV-OM-ALL (retrieve OM for all circuit packs)	9-9
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RTRV-OMTYPE-GFSRM (retrieve OM type for GFSRM)	9-22
RTRV-OMTYPE-MOTRSFP (retrieve OM type for MOTRSFP)	9-24
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INIT-OMREG-EQPT (initialize OM register for Equipment)

Use the INIT-OMREG-EQPT command to initialize the operational measurement (OM) register for all circuit packs (OCI SRM GbE/FC, OCI SRM GbE, OTR client-side facility or MOTRSFP). Initializing the OM register resets the OM counts to 0 for the specified circuit pack. If the AID field is left empty, this will cause a reset at the shelf level.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 2

Input syntax

```
INIT-OMREG-EQPT: [TID] : [<aid>] : [CTAG] :: [<omclass>] ,
[<tmper>] , [<mondatt>] , [<montm>];
```

Table 9-2
INIT-OMREG-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM, OTR or MOTRSFP equipment	For AID values see Table 1-5 on page 1-14 .	For AID values see Table 1-5 on page 1-14 .
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
OMCLASS	Class of operational measurement	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed

Table 9-2 (continued)
INIT-OMREG-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example input

Initialize the register for Generic OMs on the OCI SRM GbE/FC circuit pack in slot 7:

```
INIT-OMREG-EQPT:OM5000-1-1:GFSRM-7:1234::GENERIC,,;
```

INIT-OMREG-GFSRM (initialize OM register for GFSRM)

Use the INIT-OMREG-GFSRM command to initialize the operational measurement (OM) register for an OCI SRM GbE/FC or OCI SRM GbE client-side facility. Initializing the OM register resets the OM counts to 0 for the specified circuit pack.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 2

Input syntax

```
INIT-OMREG-GFSRM: [TID] : [<aid>] : [CTAG] :: [<omclass>] ,
[<tmper>] , [<mondatt>] , [<montm>];
```

Table 9-3
INIT-OMREG-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM client-side or WAN 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
OMCLASS	Class of operational measurement	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Initialize the register for Generic OMs on the OCI SRM GbE/FC circuit pack in slot 13 for the first client signal:

```
INIT-OMREG-GFSRM:OM5000-1-1:13-1:1234::GENERIC;
```

INIT-OMREG-MOTRSFP (initialize OM register for Muxponder)

Use the INIT-OMREG-MOTRSFP command to initialize the operational measurement (OM) register for an Muxponder SFP facility. Initializing the OM register resets the OM counts to 0 for the specified Muxponder SFP facility.

Security level

Level 2

Input syntax

```
INIT-OMREG-MOTRSFP: [TID] : [<aid>] : [CTAG] :: [<omclass>] ,
[<tmper>] , [<mondatt>] , [<montm>];
```

Table 9-4
INIT-OMREG-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for Muxponder SFP client-side or WAN 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
OMCLASS	Class of operational measurement	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Initialize the register for Generic OMs on the Muxponder SFP facility in slot 7 for the first client signal:

```
INIT-OMREG-MOTRSFP:OM5000-1-1:7-1:1234::ETHERNET;
```

INIT-OMREG-OTR (initialize OM register for OTR)

Use the INIT-OMREG-OTR command to initialize the operational measurement (OM) register for an OTR client-side facility. Initializing the OM register resets the OM counts to 0 for the specified OTR circuit pack.

Security level

Level 2

Input syntax

```
INIT-OMREG-OTR: [TID] : [<aid>] : [CTAG] :: [<omclass>] ,
[<tmper>] , [<mondatt>] , [<montm>];
```

Table 9-5
INIT-OMREG-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OTR client-side 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
OMCLASS	Class of operational measurement	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed

9-8 Operational measurement commands

Table 9-5 (continued)
INIT-OMREG-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

Example input

Initialize the register for Generic OMs on the OTR circuit pack in slot 13 for the first client signal:

```
INIT-OMREG-OTR:OM5000-1-1:13-1:1234::GENERIC;
```

RTRV-OM-ALL (retrieve OM for all circuit packs)

Use the RTRV-OM-ALL command to retrieve the operational measurement (OM) data for an OCI SRM GbE/FC, OCI SRM GbE, MOTRSFP or OTR facility.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 1

Input syntax

```
RTRV-OM-ALL: [TID] : [<aid>] : [CTAG] :: [<omclass>] , [<omtype>] ,
[<tper>] , [<mondatt>] , [<montm>] ;
```

Table 9-6
RTRV-OM-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for all client-side 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
OMTYPE	Monitored type of OM	ALL (default) See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	ALL (default) See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed

Table 9-6 (continued)
RTRV-OM-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

Table 9-7
Generic OMs

OM name	Description
INFRAMES	Frames received on this interface
INFRAMESERR	Frames received on this interface that contain errors
INFRAMESDISCDS	Inbound frames that were chosen to be discarded
INOCTETS	Octets received on the interface
INOCTETSERR	Octets received in Errored frames
OUTFRAMES	Frames transmitted on this interface
OUTFRAMESERR	Frames that could not be transmitted because of errors
OUTFRAMESDISCDS	Frames that were chosen to be discarded
OUTOCTETS	Octets transmitted out of the interface
OUTOCTETSERR	Octets transmitted in Errored frames

Table 9-8
Ethernet OMs

OM name	Description
ALIGNERR	Alignment Errors
FCSERR	Total number of frames received that are an integral number of octets in length and do not pass the FCS check. This count does not include those frames that are also too short or too long.
INTERNALMACTXERR	Internal Mac Transmit Errors. Not Supported
INTERNALMACRXERR	Internal Mac Receive Errors. Not Supported
FRTOOLONGS	<p>Frame Too Long (frames received that exceed the maximum permitted frame size, as defined by the MTU attribute of the Ethernet facility, but have no FCS error).</p> <p>Note: When using GFP-T, the MTU value cannot be set. The circuit pack passes frames with any frame size. However, a frame with frame size greater than 9600 bytes is considered a FrameTooLong and increments the FrameTooLong Ethernet OM counter.</p>
FRTOOSHORTS	Frame Too Short (frames whose total length, including FCS, is less than 64 bytes but did not have an FCS error)
SYMBOLERR	Symbol Errors. Not Supported
INPAUSEFR	In Pause Frames. Not Supported
OUTPAUSEFR	<p>Out Pause Frames</p> <p>Total number of Muxponder port originated MAC control frames transmitted with an op-code indicating a PAUSE frame</p>
CARSENERR	<p>Carrier Sense Errors.</p> <p>Since this counter does not apply to full duplex, a value of 0 will always be returned.</p>
SINGLECOLLFR	<p>Single Collision Frames</p> <p>Since this counter does not apply to full duplex, a value of 0 will always be returned.</p>
MULTICOLLFR	<p>Multiple Collision Frames</p> <p>Since this counter does not apply to full duplex, a value of 0 will always be returned.</p>

Table 9-8 (continued)
Ethernet OMs

OM name	Description
SQETESTERR	SQE Test Errors Since this counter does not apply to full duplex, a value of 0 will always be returned.
DEFERTRANS	Deferred Transmissions Since this counter does not apply to full duplex, a value of 0 will always be returned.
LATECOLL	Late Collisions Since this counter does not apply to full duplex, a value of 0 will always be returned.
EXCESSCOLL	Excessive Collisions Since this counter does not apply to full duplex, a value of 0 will always be returned.
JABBERS	Total number of frames whose length, including FCS, is greater than the maximum permitted frame size (as defined by the MTU attribute of the Ethernet facility) that have an FCS error. Note: When using GFP-T, the MTU value cannot be set. The circuit pack passes frames with any frame size. However, a frame with frame size greater than 9600 bytes is considered a FrameTooLong and increments the Jabbers Ethernet OM counter if the frame has an FCS error.
MENTS	Total number of frames whose length, including FCS, is less than 64 bytes that have an FCS error.
CONTROLFRAMES	Total number of Ethernet control frames received (T/L=8808). This includes PAUSE frames and other control frames. Note that PAUSE frame is the only currently defined control frame. This counter is operational only when the PASSCTRL parameter is set to disable.

Example input

Retrieve all the OM data for the Muxponder SFP facility in slot 13, port 10:

```
RTRV-OM-ALL:TORONTO:13-10:1234::GENERIC,ALL;
```

Output syntax

```

SID DATE TIME
M 1234 COMPLD
"<aid>, <aidtype>:<omtype>, <monval>, <vldty>, <tmper>, <mondatt>,
<montm>" ;

```

Table 9-9
RTRV-OM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the GFSRM, MOTRSFP or OTR facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AID TYPE	Type of access identifier	GFSRM MOTRSFP OTR	GFSRM MOTRSFP OTR
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
MONVAL	Monitored value	Number	Number
VLDTY	Validity of the count value (Invalid Data Flag)	COMPL = Completed NA = Not available PRTL = Partial results only	COMPL = Completed NA = Not available PRTL = Partial results only
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed	1-DAY = Daily 15-MIN = 15 minutes interval Untimed= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

RTRV-OM-GFSRM (retrieve OM for GFSRM)

Use the RTRV-OM-GFSRM command to retrieve the operational measurement (OM) data for an OCI SRM GbE/FC or OCI SRM GbE facility.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 1

Input syntax

```
RTRV-OM-GFSRM: [TID] : [<aid>] : [CTAG] :: [<omclass>] , [<omtype>] ,
[<tmper>] , [<mondatt>] , [<montm>] ;
```

Table 9-10
RTRV-OM-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for GFSRM client-side or WAN 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
OMTYPE	Monitored type of OM	ALL (default) See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	ALL (default) See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed

Table 9-10 (continued)
RTRV-OM-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Retrieve all the 1-Day OM data for the OCI SRM GbE/FC circuit pack in slot 8:

```
RTRV-OM-GFSRM:TORONTO:ALL:1234::GENERIC,ALL,1-DAY,,;
```

Output syntax

```
SID DATE TIME
M 1234 COMPLD
"<aid>,<aidtype>:<omtype>,<monval>,<vldty>,<tmper>,<mondatt>,<montm>" ;
```

Table 9-11
RTRV-OM-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the GFSRM client-side or WAN facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AID TYPE	Type of access identifier	GFSRM	GFSRM
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
MONVAL	Monitored value	Number	Number
VLDTY	Validity of the count value (Invalid Data Flag)	COMPL = Completed NA = Not available PRTL = Partial results only	COMPL = Completed NA = Not available PRTL = Partial results only

Table 9-11 (continued)
RTRV-OM-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed	1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

```

TORONTO 02-01-6 17:58:02
M 1234 COMPLD
"8-1,GFSRM:INFRAMES,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:INFRAMESERR,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:INFRAMESDISCDS,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:INOCETETS,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:OUTFRAMES,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:OUTFRAMESERR,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:OUTFRAMESDISCDS,0,PRTL,1-DAY,1-6,0-0"
"8-1,GFSRM:OUTOCETETS,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:INFRAMES,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:INFRAMESERR,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:INFRAMESDISCDS,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:INOCETETS,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:OUTFRAMES,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:OUTFRAMESERR,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:OUTFRAMESDISCDS,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:OUTOCETETS,0,PRTL,1-DAY,1-6,0-0"
"8-WAN1,GFSRM:OUTOCETETSERR,0,PRTL,1-DAY,1-6,0-0"

```

RTRV-OM-MOTRSFP (retrieve OM for MOTRSFP)

Use the RTRV-OM-MOTRSFP command to retrieve the operational measurement (OM) data for an Muxponder SFP facility.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 1

Input syntax

```
RTRV-OM-MOTRSFP: [TID] : [<aid>] : [CTAG] :: [<omclass>] , [<omtype>] ,
 [<tmper>] , [<mondatt>] , [<montm>] ;
```

Table 9-12
RTRV-OM-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTRSFP client-side or WAN 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
OMTYPE	Monitored type of OM	ALL (default) See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	ALL (default) See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed

Table 9-12 (continued)
RTRV-OM-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

Example input

Retrieve all the 1-Day Ethernet OM data for the Muxponder circuit pack in slot 17:

```
RTRV-OM-MOTRSFP:TORONTO:ALL:1234::ETHERNET,ALL,1-DAY,,;
```

Output syntax

```
SID DATE TIME
M 1234 COMPLD
"<aid>,<aidtype>:<omtype>,<monval>,<vldty>,<tmper>,<mondatt>,<montm>" ;
```

Table 9-13
RTRV-OM-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the Muxponder SFP client-side or WAN facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AID TYPE	Type of access identifier	MOTRSFP	MOTRSFP
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
MONVAL	Monitored value	Number	Number
VLDTY	Validity of the count value (Invalid Data Flag)	COMPL = Completed NA = Not available PRTL = Partial results only	COMPL = Completed NA = Not available PRTL = Partial results only

Table 9-13 (continued)
RTRV-OM-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed	1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

```
TORONTO 02-01-6 17:58:02
M 1234 COMPLD
"17-10,MOTRSFP:ALIGNERR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:FCSERR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:FRTOOLONGS,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:FRTOOSHORTS,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:OUTPAUSEFR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:CARSERR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:SINGLECOLLFR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:MULTICOLLFR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:SQETESTERR,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:DEFERTRANS,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:LATECOLL,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:EXCESSCOLL,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:FRAGMENTS,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:JABBERS,0,PRTL,1-DAY,1-6,0-0"
"17-10,MOTRSFP:CONTROLFRAMES,0,PRTL,1-DAY,1-6,0-0"
```

RTRV-OM-OTR (retrieve OM for OTR)

Use the RTRV-OM-OTR command to retrieve the operational measurement (OM) data for an OTR facility.

Security level

Level 1

Input syntax

```
RTRV-OM-OTR: [TID] : [<aid>] : [CTAG] :: [<omclass>] , [<omtype>]
[<tmper>] , [<mondatt>] , [<montm>] ;
```

Table 9-14
RTRV-OM-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OTR client-side 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC
OMTYPE	Monitored type of OM	ALL (default) See Table 9-7 for generic OMs. See Table 9-8 for Ethernet OMs.	ALL (default) See Table 9-7 for generic OMs. See Table 9-8 for Ethernet OMs.
TMPER	Time period	ALL 1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed	ALL 1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Retrieve all the OM data for the OTR circuit pack in slot 13:

```
RTRV-OM-OTR:TORONTO:ALL:1234::GENERIC,ALL;
```

Output syntax

```
SID DATE TIME
M 1234 COMPLD
"<aid>,<aidtype>:<omtype>,<monval>,<vldty>,<tmper>,<mondatt>,<montm>" ;
```

Table 9-15
RTRV-OM-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the OTR facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AID TYPE	Type of access identifier	OTR	OTR
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.
MONVAL	Monitored value	Number	Number
VLDTY	Validity of the count value (Invalid Data Flag)	COMPL = Completed NA = Not available PRTL = Partial results only	COMPL = Completed NA = Not available PRTL = Partial results only
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed	1-DAY = Daily 15-MIN = 15 minutes interval UNTIMED= untimed
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

RTRV-OMTYPE-GFSRM (retrieve OM type for GFSRM)

Use the RTRV-OMTYPE-GFSRM command to retrieve the supported operational measurement (OM) type for an OCI SRM GbE/FC or OCI SRM GbE facility.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 1

Input syntax

```
RTRV-OMTYPE-GFSRM: [TID] : [<aid>] : [CTAG] :: [<omclass>] ;
```

Table 9-16
RTRV-OMTYPE-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the GFSRM client-side or WAN 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC

Example input

Retrieve the Generic OM data for the OCI SRM GbE/FC circuit pack in slot 8 for port 1:

```
RTRV-OMTYPE-GFSRM:PAPHOS:8-1:1234::GENERIC;
```

Output syntax

```
SID DATE TIME  

M 1234 COMPLD  

"<aid>,<aidtype>:<omtype>"
```

Table 9-17
RTRV-OMTYPE-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the GFSRM client-side or WAN facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AID TYPE	Type of access identifier	GFSRM	GFSRM
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs..

Example output

```
PAPHOS 02-07-30 17:58:02
M 0 COMPLD
"8-1,GFSRM:INFRAMES"
"8-1,GFSRM:INFRAMESERR"
"8-1,GFSRM:INFRAMESDISCDS"
"8-1,GFSRM:INOCETETS"
"8-1,GFSRM:INOCETETSERR"
"8-1,GFSRM:OUTFRAMES"
"8-1,GFSRM:OUTFRAMESERR"
"8-1,GFSRM:OUTFRAMESDISCDS"
"8-1,GFSRM:OUTOCETETS"
"8-1,GFSRM:OUTOCETETSERR"
```

RTRV-OMTYPE-MOTRSFP (retrieve OM type for MOTRSFP)

Use the RTRV-OMTYPE-MOTRSFP command to retrieve the supported operational measurement (OM) type for an Muxponder SFP facility.

Note: The client-side facility must be connected and the performance monitoring mode must be set.

Security level

Level 1

Input syntax

```
RTRV-OMTYPE-MOTRSFP: [TID] : [<aid>] : [CTAG] :: [<omclass>];
```

Table 9-18**RTRV-OMTYPE-MOTRSFP input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the Muxponder SFP client-side or WAN 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC

Example input

Retrieve the Ethernet OM data for the Muxponder circuit pack in slot 17 for port 1:

```
RTRV-OMTYPE-MOTRSFP:TORONTO:17-1:1234::ETHERNET;
```

Output syntax

```
SID DATE TIME  
M 1234 COMPLD  
"<aid>,<aidtype>:<omtype>"
```

Table 9-19
RTRV-OMTYPE-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the Muxponder SFP client-side or WAN facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AID TYPE	Type of access identifier	MOTRSFP	MOTRSFP
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs..

Example output

```

TORONTO 02-07-30 17:58:02
M 0 COMPLD
"17-1,MOTRSFP:ALIGNERR"
"17-1,MOTRSFP:FCSERR"
"17-1,MOTRSFP:INTERNALMACTXERR"
"17-1,MOTRSFP:INTERNALMACRXERR"
"17-1,MOTRSFP:FRTOOLONGS"
"17-1,MOTRSFP:FRTOOSHORTS"
"17-1,MOTRSFP:SYMBOLERR"
"17-1,MOTRSFP:INPAUSEFR"
"17-1,MOTRSFP:OUTPAUSEFR"
"17-1,MOTRSFP:CARSENERR"
"17-1,MOTRSFP:SINGLECOLLFR"
"17-1,MOTRSFP:MULTICOLLFR"
"17-1,MOTRSFP:SQETESTERR"
"17-1,MOTRSFP:DEFERTRANS"
"17-1,MOTRSFP:LATECOLL"
"17-1,MOTRSFP:EXCESSCOLL"
"17-1,MOTRSFP:FRAGMENTS"
"17-1,MOTRSFP:JABBERS"
"17-1,MOTRSFP:CONTROLFRAMES"

```

RTRV-OMTYPE-OTR (retrieve OM type for OTR)

Use the RTRV-OMTYPE-OTR command to retrieve the supported operational measurement (OM) type for an OTR facility.

Security level

Level 1

Input syntax

```
RTRV-OMTYPE-OTR: [TID] : [<aid>] : [CTAG] :: [<omclass>];
```

Table 9-20
RTRV-OMTYPE-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OTR client-side 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
OMCLASS	Monitored class of OM	ALL (default) ETHERNET GENERIC	ALL (default) ETHERNET GENERIC

Example input

Retrieve the Ethernet OM data for the OTR circuit pack in slot 3:

```
RTRV-OMTYPE-OTR:ATHENS:3-1:1234::ETHERNET;
```

Output syntax

```
SID DATE TIME  
M 1234 COMPLD  
"<aid>,<aidtype>:<omtype>"
```

Table 9-21
RTRV-OMTYPE-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the OTR client-side facility	For AID values see Table 1-6 on page 1-17 .	For AID values see Table 1-6 on page 1-17 .
AIDTYPE	Type of access identifier	OTR	OTR
OMTYPE	Type of operational measurement	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.	See Table 9-7 for Generic OMs. See Table 9-8 for Ethernet OMs.

Example output

```
ATHENS 04-07-29 9:37:51
M 1234 COMPLD
"3-1,OTR:ALIGNERR"
"3-1,OTR:CARSENERR"
"3-1,OTR:EXCESSCOLL"
"3-1,OTR:DEFERTRANS"
"3-1,OTR:FCSERR"
"3-1,OTR:FRTOOLONGS"
"3-1,OTR:FRTOOSHORTS"
"3-1,OTR:INPAUSEFR"
"3-1,OTR:INTERNALMACTXERR"
"3-1,OTR:INTERNALMACRXERR"
"3-1,OTR:LATECOLL"
"3-1,OTR:MULTICOLLFR"
"3-1,OTR:OUTPAUSEFR"
"3-1,OTR:SINGLECOLLFR"
"3-1,OTR:SQETESTERR"
"3-1,OTR:SYMBOLERR"
```

Performance monitoring commands

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

For more information about performance monitoring, refer to the [“Performance monitoring description”](#) chapter of *Software and User Interface*, 323-1701-101.

Commands in this chapter

[Table 10-1](#) lists the performance monitoring commands in this chapter.

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Performance monitoring commands

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Performance monitoring commands

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ALW-PMREPT-ALL (allow performance monitoring reporting all)

Use the ALW-PMREPT-ALL command to instruct the network element to resume the autonomous reporting of equipment and facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-ALL \(inhibit performance monitoring report all\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-ALL: [TID] :: [CTAG] ;
```

Table 10-2
ALW-PMREPT-ALL 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

Enable all autonomous PM reporting from the network element MEXICO:

```
ALW-PMREPT-ALL:MEXICO::1234 ;
```

ALW-PMREPT-EQPT (allow equipment performance monitoring reporting)

Use the ALW-PMREPT-EQPT command to instruct the network element to resume the autonomous reporting of equipment PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-EQPT \(inhibit performance monitoring report equipment\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

ALW-PMREPT-EQPT: [TID] : <AID> : [CTAG] ;

Table 10-3
ALW-PMREPT-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	APBE, OCLD, OCI, OFA, OTR, GF SRM, SRM, MOTR, MOTRSFP equipment For equipment AID values see Table 1-5 on page 1-14	OCLD, OCI, OTR, GF SRM, SRM, MOTR, MOTRSFP equipment For equipment AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Enable OCI equipment autonomous PM reporting from the network element MEXICO:

ALW-PMREPT-EQPT:MEXICO:OCI-1:1234;

ALW-PMREPT-GFSRM (allow OCI GFSRM facility performance monitoring reporting)

Use the ALW-PMREPT-GFSRM command to instruct the network element to resume the autonomous reporting of OCI SRM GbE/FC or OCI SRM GbE facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-GFSRM \(inhibit performance monitoring report GFSRM facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-GFSRM: [TID] : <AID> : [CTAG] ;
```

Table 10-4
ALW-PMREPT-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

Example input

Enable the OCI SRM GbE/FC facility autonomous PM reporting from the network element MEXICO in slot 4:

```
ALW-PMREPT-GFSRM:MEXICO:4-1:1234;
```

ALW-PMREPT-MOTR (allow MOTR facility performance monitoring reporting)

Use the ALW-PMREPT-MOTR command to instruct the network element to resume the autonomous reporting of MOTR facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-MOTR \(inhibit performance monitoring report MOTR facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-MOTR: [TID] :<AID>: [CTAG] ;
```

Table 10-5
ALW-PMREPT-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

Example input

Enable MOTR facility autonomous PM reporting from the network element MEXICO in slot 7:

```
ALW-PMREPT-MOTR:MEXICO:7-11:1234;
```

ALW-PMREPT-MOTRSFP (allow MOTRSFP facility performance monitoring reporting)

Use the ALW-PMREPT-MOTRSFP command to instruct the network element to resume the autonomous reporting of MOTRSFP facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-MOTRSFP \(inhibit performance monitoring report MOTRSFP facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-MOTRSFP: [TID] : <AID> : [CTAG] ;
```

Table 10-6
ALW-PMREPT-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

Example input

Enable MOTRSFP port 1 facility autonomous PM reporting from the network element MEXICO in slot 7:

```
ALW-PMREPT-OCI:MEXICO:7-1:1234;
```

ALW-PMREPT-OCI (allow OCI facility performance monitoring reporting)

Use the ALW-PMREPT-OCI command to instruct the network element to resume the autonomous reporting of OCI facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-OCI \(inhibit performance monitoring report OCI facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-OCI : [TID] : <AID> : [CTAG] ;
```

Table 10-7
ALW-PMREPT-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

Example input

Enable OCI facility autonomous PM reporting from the network element MEXICO in slot 4:

```
ALW-PMREPT-OCI : MEXICO : 4 - 1 : 1234 ;
```

ALW-PMREPT-OCLD (allow OCLD facility performance monitoring reporting)

Use the ALW-PMREPT-OCLD command to instruct the network element to resume the autonomous reporting of OCLD facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-OCLD \(inhibit performance monitoring report OCLD facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-OCLD: [TID] :<AID>: [CTAG] ;
```

Table 10-8
ALW-PMREPT-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

Example input

Enable OCLD facility autonomous PM reporting from the network element MEXICO in slot 1:

```
ALW-PMREPT-OCLD:MEXICO:1-1:1234;
```

ALW-PMREPT-OFA (allow OFA performance monitoring reporting)

Use the ALW-PMREPT-OFA command to instruct the network element to resume the autonomous reporting of OFA PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-OFA \(inhibit performance monitoring report OFA\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-OFA: [TID] : <AID> : [CTAG] ;
```

Table 10-9
ALW-PMREPT-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

Example input

Enable OFA PM reporting from the network element MEXICO in slot 4:

```
ALW-PMREPT-OFA:MEXICO:4-1:1234;
```

ALW-PMREPT-OTR (allow OTR facility performance monitoring reporting)

Use the ALW-PMREPT-OTR command to instruct the network element to resume the autonomous reporting of OTR facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-OTR \(inhibit performance monitoring report OTR facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-OTR: [TID] : <AID> : [CTAG] ;
```

Table 10-10
ALW-PMREPT-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

Example input

Enable OTR facility autonomous PM reporting from the network element MEXICO in slot 3:

```
ALW-PMREPT-OTR:MEXICO:3-1:1234;
```

ALW-PMREPT-SRM (allow SRM facility performance monitoring reporting)

Use the ALW-PMREPT-SRM command to instruct the network element to resume the autonomous reporting of SRM facility PM counts of local or selected network elements through the REPT PM message.

You can enable PM reporting for each network element. To allow PM reports on a specific network element, include the TID parameter in the ALW-PMREPT command.

Note 1: When you begin a TL1 session as an admin or operator user, all REPT PM messages are disabled by default. To inhibit messages, refer to the [INH-PMREPT-SRM \(inhibit performance monitoring report SRM facility\)](#) command.

Note 2: For an observer user, REPT PM messages are enabled by default.

Security level

Level 1

Input syntax

```
ALW-PMREPT-SRM: [TID] : <AID> : [CTAG] ;
```

Table 10-11
ALW-PMREPT-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

Example input

Enable SRM facility autonomous PM reporting from the network element MEXICO in slot 6 for port 3:

```
ALW-PMREPT-SRM:MEXICO:6-3:1234;
```

ED-TCA-ALL (edit threshold crossing alert ALL)

Use the ED-TCA-ALL command to enable or disable the threshold crossing alert (TCA) for all the equipment power levels and facilities.

Security level

Level 2

Input syntax

```
ED-TCA-ALL: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] , [<dirn>]
, [<tmper>] : TCAACTIVE=<tcaactive>;
```

Table 10-12
ED-TCA-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	ALL = all applicable values	ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONTYPE	Monitored type	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction	Unused	Unused
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes interval	1-DAY = Daily 15-MIN = 15 minutes interval
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Example input

Enable the TCA for all equipment power levels and facilities.

```
ED-TCA-ALL:NEWZEALAND:ALL:1::,ALL,,15-MIN:TCAACTIVE=Y;
```

ED-TCA-EQPT (edit threshold crossing alert equipment)

Use the ED-TCA-EQPT command to enable or disable the threshold crossing alert (TCA) for selected or all equipment power levels.

Security level

Level 2

Input syntax

```
ED-TCA-EQPT: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] , [<dirn>]
, [<timper>] : TCAACTIVE=<tcaactive>;
```

Table 10-13
ED-TCA-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Equipment Access identifier	APBE, OCLD, OCI, OFA, OTR, GFSRM, SRM, MOTR, MOTRSFP (see Note) For equipment AID values see Table 1-5 on page 1-14	OCLD, OCI, OTR, GFSRM, SRM, MOTR, MOTRSFP (see Note) For equipment AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONTYPE	Monitored type	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
LOCN	Location	ALL	ALL
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled
Note: MOTRSFP TCAs can be enabled, but they cannot be user provisioned.			

Example input

Enable the OPT-HT TCA for OCI in slot 5.

```
ED-TCA-EQPT:NEWZEALAND:OCI-5-1:1:::OPT-HT,ALL,AZ,:TCAACTIVE=Y;
```

ED-TCA-GFSRM (edit threshold crossing alert GFSRM)

Use the ED-TCA-GFSRM command to enable or disable the threshold crossing alert (TCA) for the selected or all OCI SRM GbE/FC or OCI SRM GbE facilities.

Security level

Level 2

Input syntax

```
ED-TCA-GFSRM: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<dirn>] , [<timper>] :TCAACTIVE=<tcaactive>;
```

Table 10-14
ED-TCA-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Table 10-15
Monitored type parameters for OCI GFSRM circuit pack

Value	Description	PM mode
CV	Coding violation	8B10BWAN
ES	Errored seconds	8B10BWAN GIGE
SES	Severely errored seconds	8B10BWAN GIGE
UAS	Unavailable seconds	8B10BWAN GIGE
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH
CVP	Coding violation, path	SONET
EBP	Errored bytes, path	SDH
ESP	Errored seconds, path	SONET SDH
SESP	Severely errored seconds, path	SONET SDH
UASP	Unavailable seconds, path	SONET SDH
CV-PFE	Coding violation, path, far-end	SONET
EB-PFE	Errored bytes, path, far-end	SDH
ES-PFE	Errored seconds, path, far-end	SONET SDH
SES-PFE	Severely errored seconds, path, far-end	SONET SDH

Table 10-15 (continued)
Monitored type parameters for OCI GFSRM circuit pack

Value	Description	PM mode
UAS-PFE	Unavailable seconds, path, far-end	SONET SDH
CVL	Coding violation, line	SONET
EBL	Errored bytes, line	SDH
ESL	Errored seconds, line	SONET SDH
SESL	Severely errored seconds, line	SONET SDH
UASL	Unavailable seconds, line	SONET SDH
CV-LFE	Coding violation, line, far-end	SONET
EB-LFE	Errored bytes, line, far-end	SDH
ES-LFE	Errored seconds, line, far-end	SONET SDH
SES-LFE	Severely errored seconds, line, far-end	SONET SDH
UAS-LFE	Unavailable seconds, line, far-end	SONET SDH

Example input

Allow the TCA to be reported for the OCI SRM GbE/FC in slot 5, port 1:

```
ED-TCA-GFSRM:NEWZEALAND:5-1:1::CVS,ALL,AZ,15-MIN:TCAACTIVE=Y;
```

ED-TCA-MOTR (edit threshold crossing alert MOTR)

Use the ED-TCA-MOTR command to enable or disable the threshold crossing alert (TCA) for the selected or all MOTR facilities.

Security level

Level 2

Input syntax

```
ED-TCA-MOTR: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-16
ED-TCA-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the MOTR facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Table 10-17
Monitored type parameters for MOTR

Value	Description	PM mode
CV	Coding violation	SONET-DW SDH-DW 8B10BWAN
ES	Errored seconds	SONET-DW SDH-DW 8B10BWAN GIGEWAN
SES	Severely errored seconds	SONET-DW SDH-DW 8B/10BWAN GIGEWAN
UAS	Unavailable seconds	8B10BWAN GIGEWAN
FEC-CE	Forward Error Correction - Corrected Errors	SONET-DW SDH-DW
FEC-UF	Forward Error Correction - Uncorrected Frames	SONET-DW SDH-DW
CVS	Coding violation, section	SONET-DW
EBS	Errored bytes, section	SDH-DW
ESS	Errored seconds, section	SONET-DW SDH-DW
OFSS	Out of frame second, section	SDH-DW
SESS	Severely errored seconds, section	SONET-DW SDH-DW
SEFSS	Severely errored framing seconds, section	SONET-DW
CVL	Coding violation, line	SONET-DW
EBL	Errored bytes, line	SDH-DW
ESL	Errored seconds, line	SONET-DW SDH-DW
SESL	Severely errored seconds, line	SONET-DW SDH-DW
UASL	Unavailable seconds, line	SONET-DW SDH-DW

Table 10-17 (continued)
Monitored type parameters for MOTR

Value	Description	PM mode
CV-LFE	Coding violation, line, far-end	SONET-DW
EB-LFE	Errored bytes, line, far-end	SDH-DW
ES-LFE	Errored seconds, line, far-end	SONET-DW SDH-DW
SES-LFE	Severely errored seconds, line, far-end	SONET-DW SDH-DW
UAS-LFE	Unavailable seconds, line, far-end	SONET-DW SDH-DW

Example input

Allow the FCE-CE to be reported for the MOTR in slot 3:

```
ED-TCA-MOTR:NEWZEALAND:3-11:1::FEC-CE,ALL,ZA,1-day:TCAACTIVE=Y
;
```

ED-TCA-MOTRSFP (edit threshold crossing alert MOTRSFP)

Use the ED-TCA-MOTRSFP command to enable or disable the threshold crossing alert (TCA) for the selected or all MOTRSFP facilities.

Security level

Level 2

Input syntax

```
ED-TCA-MOTRSFP: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-18
ED-TCA-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the MOTRSFP client-side facility or WAN-side facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONTYPE	Monitored type	For valid MONTYPE values for MOTRSFP client-side facilities and WAN-side facilities, refer to Table 10-19 .	For valid MONTYPE values for MOTRSFP client-side facilities and WAN-side facilities, refer to Table 10-19 .

Table 10-18 (continued)
ED-TCA-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Table 10-19
Monitored type parameters for MOTRSFP

Value	Description	PM mode	Port	Direction
CV (see Note)	Coding violation	SONET SDH	client-side optical	Rx
ES	Errored seconds	SONET SDH	client-side optical	Rx
SES	Severely errored seconds	SONET SDH	client-side optical	Rx
UAS	Unavailable seconds	SONET SDH	client-side optical	Rx
ES	Errored seconds	SONET SDH	WAN-side port	Tx
SES	Severely errored seconds	SONET SDH	WAN-side port	Tx
UAS	Unavailable seconds	SONET SDH	WAN-side port	Tx

Note: TCA available only for MOTRSFP ports having channel assignments provisioned to FC protocol.

Example input

Allow the ES 1-day to be reported for the MOTRSFP port 1 of MOTR in slot 3:

ED-TCA-MOTRSFP:NEWZEALAND:3-1:1::ES,ALL,ZA,1-DAY:TCAACTIVE=Y;

ED-TCA-OCI (edit threshold crossing alert OCI)

Use the ED-TCA-OCI command to enable or disable the threshold crossing alert (TCA) for the selected or all OCI facilities.

Security level

Level 2

Input syntax

```
ED-TCA-OCI: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
 [<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-20
ED-TCA-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OCI facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Table 10-21
Monitored type parameters for OCI SONET/SDH

Value	Description	PM mode
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH

Table 10-22
Monitored type parameters for all other OCI circuit packs

Value	Description	PM mode
FC	Failure count	SFC
ES	Errored seconds	SFC

Example input

Allow the TCA to be reported for the OCI SONET/SDH in slot 5:

```
ED-TCA-OCI:NEWZEALAND:5-1:1::CVS,ALL,AZ,15-MIN:TCAACTIVE=Y;
```

ED-TCA-OCLD (edit threshold crossing alert OCLD)

Use the ED-TCA-OCLD command to enable or disable the threshold crossing alert (TCA) for the selected or all OCLD facilities.

Security level

Level 2

Input syntax

```
ED-TCA-OCLD: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,  

[<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-23
ED-TCA-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Table 10-24
Monitored type parameters for OCLD 2.5 Gbit/s Flex circuit pack

Value	Description	PM mode
CV	Coding violation	8B10B
ES	Errored seconds	8B10B SFC
FC	Failure count	SFC
SES	Severely errored seconds	8B10B
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH

Table 10-24 (continued)
Monitored type parameters for OCLD 2.5 Gbit/s Flex circuit pack

Value	Description	PM mode
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH

Table 10-25
Monitored type parameters for all other OCLD circuit packs

Value	Description	PM mode
FC	Failure count	SFC
ES	Errored seconds	SFC

Example input

Allow the TCA to be reported for the OCLD 2.5 Gbit/s Flex:

```
ED-TCA-OCLD:NEWZEALAND:5-1:1::CVS,ALL,AZ,15-MIN:TCAACTIVE=Y;
```

ED-TCA-OFA (edit threshold crossing alert OFA)

Use the ED-TCA-OFA command to enable or disable the threshold crossing alert (TCA) for the selected OFA facility.

Security level

Level 2

Input syntax

```
ED-TCA-OFA: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,  

[<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-26
ED-TCA-OFA input syntax definition

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

Table 10-26 (continued)
ED-TCA-OFA input syntax definition

Parameter	Description	Possible values (5200)
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
LOCN	Location	ALL
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = Daily 15-MIN = 15 minutes interval
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled

Table 10-27
Monitored type parameters for OFA circuit packs

Value	Description	PM mode
FC	Failure count	SFC
ES	Errored seconds	SFC

Example input

Allow the TCA to be reported for the OFA in slot 4:

```
ED-TCA-OFA:NEWZEALAND:4-1:1::FC,ALL,AZ,15-MIN:TCAACTIVE=Y;
```

ED-TCA-OTR (edit threshold crossing alert OTR)

Use the ED-TCA-OTR command to enable or disable the threshold crossing alert (TCA) for the selected or all OTR client-side facilities.

Security level

Level 2

Input syntax

```
ED-TCA-OTR: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,  

[<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-28
ED-TCA-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is enabled or disabled.	Y = TCA is enabled N = TCA is disabled	Y = TCA is enabled N = TCA is disabled

Table 10-29
Monitored type parameters for OTR 2.5 Gbit/s Flex circuit pack

Value	Description	PM mode
CV	Coding violation	8B10B
ES	Errored seconds	8B10B SFC
FC	Failure count	SFC
SES	Severely errored seconds	8B10B
UAS	Unavailable seconds	8B10B
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH

Table 10-29 (continued)
Monitored type parameters for OTR 2.5 Gbit/s Flex circuit pack

Value	Description	PM mode
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH

Table 10-30
Monitored type parameters for OTR 10 Gbit/s circuit packs

Value	Description	PM mode
CV	Code violation	DW 8B10B LANPHY
ES	Errored seconds	SFC DW 8B10B LANPHY
SES	Severely errored seconds	DW 8B10B LANPHY
UAS	Unavailable seconds	DW 8B10B LANPHY
FEC-CE	Forward Error Correction - Corrected Errors	DW 8B10B
FEC-UF	Forward Error Correction - Uncorrected Frames	DW
FC	Failure count	SFC
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH

Table 10-30 (continued)
Monitored type parameters for OTR 10 Gbit/s circuit packs

Value	Description	PM mode
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH

Example input

Allow the TCA to be reported for the OTR in slot 5:

```
ED-TCA-OTR:NEWZEALAND:5-1:1::CVS,ALL,AZ,15-MIN:TCAACTIVE=Y;
```

ED-TCA-SRM (edit threshold crossing alert SRM)

Use the ED-TCA-SRM command to enable or disable the threshold crossing alert (TCA) for selected or all OCI SRM, OCI SRM SONET/SDH, or OCI SRM ESCON facilities.

Security level

Level 2

Input syntax

```
ED-TCA-SRM: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,  

[<dirn>] , [<tmper>] :TCAACTIVE=<tcaactive>;
```

Table 10-31
ED-TCA-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Table 10-31 (continued)
ED-TCA-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
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 .
LOCN	Location	ALL	ALL
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
TCAACTIVE	Indicates whether the TCA is active.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

[Table 10-32](#) lists possible values for the parameter MONTYPE (monitored type) for SRM OCI circuit packs.

Table 10-32
Monitored type parameters for OCI SRM

Value	Description	Applicable PM mode
CV	Coding violation	AGILE
ES	Errored seconds	AGILE SFC
FC	Failure count	SFC
SES	Severely errored seconds	AGILE
SEFS	Severely errored framing seconds	AGILE
UAS	Unavailable seconds	AGILE

[Table 10-33](#) lists possible values for the parameter MONTYPE (monitored type) for OCI SRM SONET/SDH circuit packs.

Table 10-33
Monitored type parameters for OCI SRM SONET/SDH

Value	Description	PM mode
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH

Table 10-34 lists possible values for the parameter MONTYPE (monitored type) for OCI SRM ESCON circuit packs.

Table 10-34
Monitored type parameters for OCI SRM ESCON

Value	Description	PM mode
CV	Coding violation	8B10B
ES	Errored seconds	8B10B
SES	Severely errored seconds	8B10B
UAS	Unavailable seconds	8B10B
CVP	Coding violation, path	SONET
EBP	Errored block, path	SDH
ESP	Errored seconds, path	SONET SDH
SESP	Severely errored seconds, path	SONET SDH
UASP	Unavailable seconds, path	SONET SDH
CVS	Coding violation, section	SONET
EBS	Errored bytes, section	SDH
ESS	Errored seconds, section	SONET SDH
OFSS	Out of frame second, section	SDH
SESS	Severely errored seconds, section	SONET SDH
SEFSS	Severely errored framing seconds, section	SONET
UASS	Unavailable seconds, section	SONET SDH

Example input

Allow the CVS TCA to be reported to the LONDON network element, for the OCI SRM port 1 facility in slot 13:

```
ED-TCA-SRM:LONDON:13-1:1::CVS,ALL,AZ,15-MIN:TCAACTIVE=Y;
```

INH-PMREPT-ALL (inhibit performance monitoring report all)

Use the INH-PMREPT-ALL command to prevent PM reports from being sent to the current user. This command disables autonomous reporting of all equipment and facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-ALL \(allow performance monitoring reporting all\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-ALL: [TID] :: [CTAG] ;
```

Table 10-35
INH-PMREPT-ALL 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

Turn off all PM reports from the network element BOSTON:

```
INH-PMREPT-ALL: BOSTON :: 1234 ;
```

INH-PMREPT-EQPT (inhibit performance monitoring report equipment)

Use the INH-PMREPT-EQPT command to prevent equipment power level autonomous PM reports from being sent to the current user. This command disables autonomous reporting of equipment PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-EQPT \(allow equipment performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-EQPT: [TID] : <AID> : [CTAG] ;
```

Table 10-36
INH-PMREPT-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	APBE, OCLD, OCI, OFA, OTR, GF SRM, SRM, MOTR, MOTRSFP For equipment AID values see Table 1-5 on page 1-14	OCLD, OCI, OTR, GF SRM, SRM, MOTR, MOTRSFP For equipment AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Turn off all PM reports from the network element BOSTON:

```
INH-PMREPT-EQPT: BOSTON: OCI-5: 1234 ;
```

INH-PMREPT-GFSRM (inhibit performance monitoring report GFSRM facility)

Use the INH-PMREPT-GFSRM command to prevent OCI SRM GbE/FC or OCI SRM GbE facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-GFSRM \(allow OCI GFSRM facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-GFSRM: [TID] : <AID> : [CTAG] ;
```

Table 10-37
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON for the OCI SRM GbE/FC circuit pack in slot 5, port 1:

```
INH-PMREPT-GFSRM: BOSTON: 5-1: 1234 ;
```

INH-PMREPT-MOTR (inhibit performance monitoring report MOTR facility)

Use the INH-PMREPT-MOTR command to prevent MOTR facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-MOTR \(allow MOTR facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-MOTR: [TID] :<AID>: [CTAG] ;
```

Table 10-38
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON for the MOTR circuit pack in slot 5:

```
INH-PMREPT-MOTR: BOSTON: 5-1: 1234 ;
```

INH-PMREPT-MOTRSFP (inhibit performance monitoring report MOTRSFP facility)

Use the INH-PMREPT-MOTRSFP command to prevent MOTRSFP facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-MOTRSFP \(allow MOTRSFP facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-MOTRSFP : [TID] : <AID> : [CTAG] ;
```

Table 10-39
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON for the MOTR circuit pack in slot 5, MOTRSFP port 1:

```
INH-PMREPT-MOTRSFP : BOSTON : 5 - 1 : 1234 ;
```

INH-PMREPT-OCI (inhibit performance monitoring report OCI facility)

Use the INH-PMREPT-OCI command to prevent OCI facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-OCI \(allow OCI facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-OCI : [TID] : <AID> : [CTAG] ;
```

Table 10-40
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON:

```
INH-PMREPT-OCI : BOSTON : 5-1 : 1234 ;
```

INH-PMREPT-OCLD (inhibit performance monitoring report OCLD facility)

Use the INH-PMREPT-OCLD command to prevent OCLD facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-OCLD \(allow OCLD facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-OCLD: [TID] : <AID> : [CTAG] ;
```

Table 10-41
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON:

```
INH-PMREPT-OCLD:BOSTON:1-1:1234;
```

INH-PMREPT-OFA (inhibit performance monitoring report OFA)

Use the INH-PMREPT-OFA command to prevent OFA facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-OFA \(allow OFA performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-OFA: [TID] : <AID> : [CTAG] ;
```

Table 10-42
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON:

```
INH-PMREPT-OFA: BOSTON: ALL: 1234 ;
```

INH-PMREPT-OTR (inhibit performance monitoring report OTR facility)

Use the INH-PMREPT-OTR command to prevent OTR facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-OTR \(allow OTR facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-OTR: [TID] : <AID> : [CTAG] ;
```

Table 10-43
INH-PMREPT-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

Example input

Turn off all PM reports from the network element BOSTON:

```
INH-PMREPT-OTR: BOSTON: 3-1: 1234 ;
```

INH-PMREPT-SRM (inhibit performance monitoring report SRM facility)

Use the INH-PMREPT-SRM command to prevent SRM facility autonomous PM reports from being sent to the current user. This command disables autonomous reporting of facility PM counts through the REPT PM message. You can disable PM reporting for each network element (using the TID parameter).

Note: When you begin a TL1 session as admin or operator user, all REPT PM messages are disabled by default. To resume messages, refer to the [ALW-PMREPT-SRM \(allow SRM facility performance monitoring reporting\)](#) command.

Security level

Level 1

Input syntax

```
INH-PMREPT-SRM: [TID] : <AID> : [CTAG] ;
```

Table 10-44
INH-PMREPT-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

Example input

Turn off SRM facility PM reports from the network element BOSTON:

```
INH-PMREPT-SRM: BOSTON: ALL: 1234 ;
```

INIT-REG-GFSRM (initialize PM register GFSRM)

Use the INIT-REG-GFSRM command to instruct a network element to initialize PM data for an OCI SRM GbE/FC or OCI SRM GbE facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

The accumulation intervals for the bin data are the current 15-minutes, the 32 previous 15-minute intervals, the current day and the previous day, and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-GFSRM: [TID] :<AID>: [CTAG] :: [<montype>] , [<monval>] ,
[<locn>] , [<dirn>] , [<tper>] , [<mondatt>] , [<montm>] ;
```

Table 10-45
INIT-REG-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
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	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 10-45 (continued)
INIT-REG-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Initialize the PM data for near-end receive section code violations (CVS) for the OCI GFSRM circuit pack in slot 13:

```
INIT-REG-GFSRM:HAWAII:13-1:123::CVS,,ALL,ZA,15-MIN,,;
```

INIT-REG-MOTR (initialize PM register MOTR)

Use the INIT-REG-MOTR command to instruct a network element to initialize PM data for an MOTR facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

The accumulation intervals for the bin data are the current 15-minutes, the 32 previous 15-minute intervals, the current day and the previous day, and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-MOTR: [TID]:<AID>:[CTAG]::[<montype>],[<monval>],
[<locn>],[<dirn>],[<timper>],[<mondatt>],[<montm>];
```

Table 10-46
INIT-REG-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
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	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Initialize the PM data for near-end receive section code violations (CVS) for the MOTR circuit pack in slot 13:

```
INIT-REG-MOTR:HAWAII:13-11:123::CVS,,ALL,ZA,15-MIN,,;
```

INIT-REG-MOTRSFP (initialize PM register MOTRSFP)

Use the INIT-REG-MOTRSFP command to instruct a network element to initialize PM data for an OCI facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

The accumulation intervals for the bin data are the current 15-minutes, the 32 previous 15-minute intervals, the current day and the previous day, and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-MOTRSFP: [TID]:<AID>:[CTAG]:: [<montype>], [<monval>],  
[<locn>], [<dirn>], [<tmper>], [<mondatt>], [<montm>];
```

Table 10-47
INIT-REG-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTRSFP client-side facility or WAN-side 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
MONTYPE	Monitored type	For valid MONTYPE values for MOTRSFP client-side facilities and WAN-side facilities, refer to Table 10-19 .	For valid MONTYPE values for MOTRSFP client-side facilities and WAN-side facilities, refer to Table 10-19 .
MONVAL	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL

Table 10-47 (continued)
INIT-REG-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example input

Initialize the 1-Day current PM data for the near-end receive code violation (CV) for MOTRSFP port 5 in slot 3:

```
INIT-REG-MOTRSFP:HAWAII:3-5:123::CV,,ALL,ZA,1-DAY,,;
```

INIT-REG-OCI (initialize PM register OCI)

Use the INIT-REG-OCI command to instruct a network element to initialize PM data for an OCI facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

The accumulation intervals for the bin data are the current 15-minutes, the 32 previous 15-minute intervals, the current day and the previous day, and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-OCI: [TID]:<AID>:[CTAG]:: [<montype>], [<monval>],
 [<locn>], [<dirn>], [<tmper>], [<mondatt>], [<montm>];
```

Table 10-48
INIT-REG-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
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	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin

Table 10-48 (continued)
INIT-REG-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example input

Initialize the PM data for near-end receive section code violations (CVS) for the SONET/SDH OCI circuit pack in slot 13:

```
INIT-REG-OCI:HAWAII:13-1:123::CVS,,ALL,ZA,15-MIN,,;
```

INIT-REG-OCLD (initialize PM register OCLD)

Use the INIT-REG-OCLD command to instruct a network element to initialize PM data for an OCLD facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

The accumulation intervals for the bin data are the current 15-minutes, the 32 previous 15-minute intervals, the current day and the previous day, and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-OCLD: [TID] : <AID> : [CTAG] :: [<montype>] , [<monval>] ,
[<locn>] , [<dirn>] , [<tper>] , [<mondatt>] , [<montm>] ;
```

Table 10-49
INIT-REG-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
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	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 10-49 (continued)
INIT-REG-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Initialize the PM data for near-end receive section code violations (CVS) for the SONET/SDH OCLD circuit pack in slot 13:

```
INIT-REG-OCLD:HAWAII:13-1:123::CVS,,ALL,ZA,15-MIN,,;
```

INIT-REG-OFA (initialize PM register OFA)

Use the INIT-REG-OFA command to instruct a network element to initialize PM data for an OFA facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

Note: The accumulation intervals that are stored are as follows: the current 15-minute interval, and the 32 previous 15-minute intervals; the current day and previous day; and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-OFA: [TID] : <AID> : [CTAG] : : [ <montype> ] , [ <monval> ] ,
[ <locn> ] , [ <dirn> ] , [ <tmper> ] , [ <mondatt> ] , [ <montm> ] ;
```

Table 10-50
INIT-REG-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
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
MONVAL	Monitored value	Unused
LOCN	Location	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>		

Example input

Initialize the PM data for the OFA circuit pack in slot 4:

```
INIT-REG-OFA:HAWAII:4-1:123::FC,,ALL,ZA,15-MIN,,;
```

INIT-REG-OTR (initialize PM register OTR)

Use the INIT-REG-OTR command to instruct a network element to initialize PM data for an OTR facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

Note: The accumulation intervals that are stored are as follows: the current 15-minute interval, and the 32 previous 15-minute intervals; the current day and previous day; and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-OTR: [TID] :<AID>: [CTAG] :: [<montype>] , [<monval>] ,
[<locn>] , [<dirn>] , [<timper>] , [<mondatt>] , [<montm>] ;
```

Table 10-51
INIT-REG-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
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	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Table 10-51 (continued)
INIT-REG-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period If you leave TMPER blank, this command resets all of the 15-minute, 1-day, and untimed bins.	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example input

Initialize the PM data for near-end receive failure counts (FC) for the OTR circuit pack in slot 7:

```
INIT-REG-OTR:HAWAII:7-1:123::CVS,,ALL,ZA,15-MIN,,;
```

INIT-REG-SRM (initialize PM register SRM)

Use the INIT-REG-SRM command to instruct a network element to initialize PM data for an SRM facility.

PM data is kept in separate monitored parameter registers or bins for each passed interval. Parameter registers are also known as bins.

Note: The accumulation intervals that are stored are as follows: the current 15-minute interval, and the 32 previous 15-minute intervals; the current day and previous day; and an untimed interval.

If the TMPER parameter is blank, this command resets all of the 15-minute, 1-day, and untimed bins.

Security level

Level 2

Input syntax

```
INIT-REG-SRM: [TID] :<AID>: [CTAG] :: [<montype>], [<monval>],
[<locn>], [<dirn>], [<tper>], [<mondatt>], [<montm>];
```

Table 10-52
INIT-REG-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
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	Monitored value	Unused	Unused
LOCN	Location	ALL	ALL
DIRN	Direction If you leave DIRN blank, this command resets both transmit and receive directions.	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin

Table 10-52 (continued)
INIT-REG-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Initialize all current 15-minute bins for all ports on the SRM in slot 14:

```
INIT-REG-SRM:MTL:14-1:1234:,,,,,15-MIN,,;
```

RTRV-MONTYPE-EQPT (retrieve performance Monitored type equipment)

Use the RTRV-MONTYPE-EQPT command to instruct the network element to display available performance Monitored types for the specified equipment.

Security level

Level 1

Input syntax

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

Table 10-53
RTRV-MONTYPE-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, OCLD, OCI, OFA, OTR, SRM, MOTR, MOTRSFP (see Note) For equipment AID values see Table 1-5 on page 1-14	OCLD, OCI, OTR, SRM, MOTR, MOTRSFP (see Note) For equipment AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
Note: MOTRSFP TCAs are displayed, but are not user provisionable.			

Example input

Retrieve all monitored types on the network element SANTIAGO:

```
RTRV-MONTYPE-EQPT : SANTIAGO : ALL : 1234 ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>,<locn>,<dirn>" ;
```

Table 10-54
RTRV-MONTYPE-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for equipment	APBE, OCLD, OCI, OFA, OTR, SRM equipment For equipment AID values see Table 1-5 on page 1-14	OCLD, OCI, OTR equipment For equipment AID values see Table 1-5 on page 1-14
MONTYPE	Type of monitored parameter for which a value is requested.	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output

```
SANTIAGO 00-12-07 19:52:57
M 1234 COMPLD
"OCLD-1-1:OPT-HT,NEND,AZ"
"OCLD-1-1:OPR-HT,NEND,ZA"

"OCLD-2-1:OPT-HT,NEND,AZ"
"OCLD-2-1:OPR-HT,NEND,ZA"

"OCLD-3-1:OPT-HT,NEND,AZ"
"OCLD-3-1:OPR-HT,NEND,ZA"

"OCI-5-1:OPT-HT,NEND,AZ"
"OCI-5-1:OPR-HT,NEND,ZA"

"OCI-7-1:OPT-HT,NEND,AZ"
"OCI-7-1:OPR-HT,NEND,ZA"

"SRM-11-1:OPT-HT,NEND,AZ"
"SRM-11-1:OPR-HT,NEND,ZA"

"SRM-11-2:OPT-HT,NEND,AZ"
```

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"SRM-11-2:OPR-HT,NEND,ZA"

"SRM-11-3:OPT-HT,NEND,AZ"

"SRM-11-3:OPR-HT,NEND,ZA"

"SRM-11-4:OPT-HT,NEND,AZ"

"SRM-11-4:OPR-HT,NEND,ZA"

"OCLD-17-1:OPT-HT,NEND,AZ"

"OCLD-17-1:OPR-HT,NEND,ZA"

"OCLD-18-1:OPT-HT,NEND,AZ"

"OCLD-18-1:OPR-HT,NEND,ZA"

"MOTR-3-11:OPT-HT,NEND,AZ"

"MOTR-3-11:OPT-LT,NEND,AZ"

"MOTR-3-11:OPR-HT,NEND,ZA"

"MOTR-3-11:OPR-LT,NEND,ZA"

"MOTRSFP-3-1:OPT-HT,NEND,AZ"

"MOTRSFP-3-1:OPT-LT,NEND,AZ"

"MOTRSFP-3-1:OPR-HT,NEND,ZA"

"MOTRSFP-3-1:OPR-LT,NEND,ZA"

RTRV-MONTYPE-GFSRM (retrieve performance Monitored type GFSRM)

Use the RTRV-MONTYPE-GFSRM command to instruct the network element to display available performance Monitored types for an OCI SRM GbE/FC or OCI SRM GbE facility. You can query the monitored types on the client, aggregate, or path facilities.

Note: The facility must be connected and the performance monitoring mode must be set.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-GFSRM: [TID] : <AID> : [CTAG] ;
```

Table 10-55
RTRV-MONTYPE-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

Example input

Retrieve all the monitored types for the OCI SRM GbE/FC facility in slot 7:

```
RTRV-MONTYPE-GFSRM: VANCOUVER: 7-1:1;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>, <locn>, <dirn>" ;
```

Table 10-56
RTRV-MONTYPE-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
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 .
LOCN	Location	NEND = Near-end FEND= Far-end	NEND = Near-end FEND= Far-end
DIRN	Direction	AZ = Transmit ZA = Receive	AZ = Transmit ZA = Receive

Example output

Retrieve montype on OCI SRM GbE/FC client port 1:

```
OM5000-4-20 03-01-26 01:53:37
M 0 COMPLD
"4-1:ES,NEND,ZA"
"4-1:SES,NEND,ZA"
"4-1:UAS,NEND,ZA"
;
```

Retrieve montype on OCI SRM GbE/FC aggregate port:

```
OM5000-4-20 03-01-26 01:54:20
M 0 COMPLD
"4-AG1:CVS,NEND,AZ"
"4-AG1:ESS,NEND,AZ"
"4-AG1:SESS,NEND,AZ"
"4-AG1:SEFSS,NEND,AZ"
"4-AG1:CVL,NEND,AZ"
"4-AG1:ESL,NEND,AZ"
"4-AG1:SESL,NEND,AZ"
"4-AG1:UASL,NEND,AZ"
"4-AG1:CV-LFE,NEND,AZ"
"4-AG1:ES-LFE,NEND,AZ"
"4-AG1:SES-LFE,NEND,AZ"
;
```

Retrieve montype on OCI GFSRM aggregate path 25:

```
OM5000-4-20 03-01-26 01:54:58
M 0 COMPLD
"4-AG1-25:CVP,NEND,AZ"
"4-AG1-25:ESP,NEND,AZ"
"4-AG1-25:SESP,NEND,AZ"
"4-AG1-25:UASP,NEND,AZ"
"4-AG1-25:CV-PFE,NEND,AZ"
"4-AG1-25:ES-PFE,NEND,AZ"
"4-AG1-25:SES-PFE,NEND,AZ"
"4-AG1-25:UAS-PFE,NEND,AZ"
;
```

RTRV-MONTYPE-MOTR (retrieve performance Monitored type MOTR)

Use the RTRV-MONTYPE-MOTR command to instruct the network element to display available performance Monitored types for a MOTR facility.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-MOTR: [TID] : <AID> : [CTAG] ;
```

Table 10-57

RTRV-MONTYPE-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

Example input

Retrieve all the monitored types for the MOTR facility in slot 7:

```
RTRV-MONTYPE-MOTR:VANCOUVER:7-11:1;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>,<locn>,<dirn>";
```

Table 10-58
RTRV-MONTYPE-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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output

SONET-DW mode:

```
OM5000-1-1 04-05-14 18:30:44
M 1 COMPLD
"3-11:CV,NEND,ZA"
"3-11:ES,NEND,ZA"
"3-11:SES,NEND,ZA"
"3-11:FEC-CE,NEND,ZA"
"3-11:FEC-UF,NEND,ZA"
"3-11:CVS,NEND,ZA"
"3-11:ESS,NEND,ZA"
"3-11:SESS,NEND,ZA"
"3-11:SEFSS,NEND,ZA"
"3-11:CVL,NEND,ZA"
"3-11:ESL,NEND,ZA"
"3-11:SESL,NEND,ZA"
"3-11:UASL,NEND,ZA"
"3-11:CV-LFE,FEND,ZA"
"3-11:ES-LFE,FEND,ZA"
"3-11:SES-LFE,FEND,ZA"
"3-11:UAS-LFE,FEND,ZA"
```

SDH-DW mode:

```
OM5000-2-2 04-05-14 18:00:08
M 1 COMPLD
"3-11:CV,NEND,ZA"
"3-11:ES,NEND,ZA"
"3-11:SES,NEND,ZA"
"3-11:FEC-CE,NEND,ZA"
"3-11:FEC-UF,NEND,ZA"
"3-11:EBS,NEND,ZA"
"3-11:ESS,NEND,ZA"
"3-11:SESS,NEND,ZA"
```

```
"3-11:OFSS,NEND,ZA"
"3-11:EBL,NEND,ZA"
"3-11:ESL,NEND,ZA"
"3-11:SESL,NEND,ZA"
"3-11:UASL,NEND,ZA"
"3-11:EB-LFE,FEND,ZA"
"3-11:ES-LFE,FEND,ZA"
"3-11:SES-LFE,FEND,ZA"
"3-11:UAS-LFE,FEND,ZA"
```

RTRV-MONTYPE-MOTRSFP (retrieve performance Monitored type MOTRSFP)

Use the RTRV-MONTYPE-MOTRSFP command to instruct the network element to display available performance Monitored types for a MOTRSFP port facility.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-MOTRSFP: [TID] : <AID> : [CTAG] ;
```

Table 10-59
RTRV-MONTYPE-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for MOTRSFP client-side facility or WAN-side 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

Example input

Retrieve all the monitored types for the MOTRSFP facility in slot 7, port 1:

```
RTRV-MONTYPE-MOTRSFP:VANCOUVER:7-1:1;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>,<locn>,<dirn>" ;
```

Table 10-60
RTRV-MONTYPE-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for MOTRSFP client-side facility or WAN-side 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 client-side and WAN-side facilities, refer to Table 10-19 .	For valid MONTYPE values for MOTRSFP facilities, refer to Table 10-19 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output

MOTRSFP port set to GbE protocol:

```
OM5000-1-1 04-05-17 19:54:39
M 1 COMPLD
"3-1:ES,NEND,ZA"
"3-1:SES,NEND,ZA"
"3-1:UAS,NEND,ZA"
```

MOTRSFP port set to FC-200 protocol (additional CV parameter retrieved):

```
OM5000-1-1 04-05-17 19:55:42
M 1 COMPLD
"3-5:CV,NEND,ZA"
"3-5:ES,NEND,ZA"
"3-5:SES,NEND,ZA"
"3-5:UAS,NEND,ZA";
```

MOTRSFP port on the WAN-side :

```
OM5000-1-1 04-06-03 16:02:25
M 1 COMPLD
"3-WAN1:ES,NEND,AZ"
"3-WAN1:SES,NEND,AZ"
"3-WAN1:UAS,NEND,AZ"
;
```

RTRV-MONTYPE-OCI (retrieve performance Monitored type OCI)

Use the RTRV-MONTYPE-OCI command to instruct the network element to display available performance Monitored types for a SONET/SDH OCI facility.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-OCI : [TID] : <AID> : [CTAG] ;
```

Table 10-61
RTRV-MONTYPE-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

Example input

Retrieve all the monitored types for the SONET/SDH OCI facility in slot 7:

```
RTRV-MONTYPE-OCI : VANCOUVER : 7-1 : 1 ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>,<locn>,<dirn>" ;
```

Table 10-62
RTRV-MONTYPE-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

Table 10-62 (continued)
RTRV-MONTYPE-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output

SONET mode:

```
OPT_1_4 00-12-07 19:52:57
M 1 COMPLD
"7-1:CVS,NEND,AZ"
"7-1:ESS,NEND,AZ"
"7-1:SESS,NEND,AZ"
"7-1:SEFSS,NEND,AZ"
"7-1:CVS,NEND,ZA"
"7-1:ESS,NEND,ZA"
"7-1:SESS,NEND,ZA"
"7-1:SEFSS,NEND,ZA"
"7-1:UASS,NEND,ZA"
```

SDH mode:

```
OPT_1_4 00-12-08 17:42:08
M 1 COMPLD
"7-1:EBS,NEND,AZ"
"7-1:ESS,NEND,AZ"
"7-1:SESS,NEND,AZ"
"7-1:OFSS,NEND,AZ"
"7-1:EBS,NEND,ZA"
"7-1:ESS,NEND,ZA"
"7-1:SESS,NEND,ZA"
"7-1:OFSS,NEND,ZA"
"7-1:UASS,NEND,ZA"
```

RTRV-MONTYPE-OCLD (retrieve performance Monitored type OCLD)

Use the RTRV-MONTYPE-OCLD command to instruct the network element to display available performance Monitored types for an OCLD facility.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-OCLD: [TID] : <AID>: [CTAG] ;
```

Table 10-63**RTRV-MONTYPE-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

Example input

Retrieve all the monitored types for the OCLD facility in slot 7:

```
RTRV-MONTYPE-OCLD: VANCOUVER: 7-1:1 ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>, <locn>, <dirn>" ;
```

Table 10-64
RTRV-MONTYPE-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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output
SONET mode:

```
OPT_1_4 00-12-07 19:52:57
M 1 COMPLD
"7-1:CVS,NEND,AZ"
"7-1:ESS,NEND,AZ"
"7-1:SESS,NEND,AZ"
"7-1:SEFSS,NEND,AZ"
"7-1:CVS,NEND,ZA"
"7-1:ESS,NEND,ZA"
"7-1:SESS,NEND,ZA"
"7-1:SEFSS,NEND,ZA"
"7-1:UASS,NEND,ZA"
```

SDH mode:

```
OPT_1_4 00-12-08 17:42:08
M 1 COMPLD
"7-1:EBS,NEND,AZ"
"7-1:ESS,NEND,AZ"
"7-1:SESS,NEND,AZ"
"7-1:OFSS,NEND,AZ"
"7-1:EBS,NEND,ZA"
"7-1:ESS,NEND,ZA"
"7-1:SESS,NEND,ZA"
"7-1:OFSS,NEND,ZA"
"7-1:UASS,NEND,ZA"
```

RTRV-MONTYPE-OFA (retrieve performance Monitored type OFA)

Use the RTRV-MONTYPE-OFA command to instruct the network element to display available performance Monitored types for an OFA facility.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-OFA: [TID] : <AID> : [CTAG] ;
```

Table 10-65
RTRV-MONTYPE-OFA input syntax definition

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

Example input

Retrieve all the monitored types for the OFA facility in slot 4:

```
RTRV-MONTYPE-OFA: VANCOUVER: 4-1:1 ;
```

Output syntax

```
SID DATE TIME  
M CTAG COMPLD  
"<aid>:<montype>, <locn>, <dirn>" ;
```

Table 10-66
RTRV-MONTYPE-OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for OFA	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 .
LOCN	Location	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive

Example output

SFC mode:

```
OPT_1_4 00-12-07 19:52:57
M 1 COMPLD
"7-1:ES,NEND,AZ"
"7-1:FC,NEND,AZ"
"7-1:ES,NEND,AZ"
"7-1:FC,NEND,AZ"
```

RTRV-MONTYPE-OTR (retrieve performance Monitored type OTR)

Use the RTRV-MONTYPE-OTR command to instruct the network element to display available performance Monitored types for an OTR facility.

Security level

Level 1

Input syntax

RTRV-MONTYPE-OTR: [TID] : <AID> : [CTAG] ;

Table 10-67
RTRV-MONTYPE-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for client-side 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

Example input

Retrieve all the monitored types for the OTR facility in slot 7:

```
RTRV-MONTYPE-OTR:VANCOUVER:7-1:1;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>,<locn>,<dirn>" ;
```

Table 10-68
RTRV-MONTYPE-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR	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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output
SONET mode:

```
OPT_1_4 00-12-07 19:52:57
M 1 COMPLD
"7-1:CVS,NEND,AZ"
"7-1:ESS,NEND,AZ"
"7-1:SESS,NEND,AZ"
"7-1:SEFSS,NEND,AZ"
"7-1:CVS,NEND,ZA"
"7-1:ESS,NEND,ZA"
"7-1:SESS,NEND,ZA"
"7-1:SEFSS,NEND,ZA"
"7-1:UASS,NEND,ZA"
```

SDH mode:

```
OPT_1_4 00-12-08 17:42:08
M 1 COMPLD
"7-1:EBS,NEND,AZ"
"7-1:ESS,NEND,AZ"
"7-1:SESS,NEND,AZ"
"7-1:OFSS,NEND,AZ"
"7-1:EBS,NEND,ZA"
"7-1:ESS,NEND,ZA"
"7-1:SESS,NEND,ZA"
"7-1:OFSS,NEND,ZA"
"7-1:UASS,NEND,ZA"
```

RTRV-MONTYPE-SRM (retrieve performance Monitored type SRM)

Use the RTRV-MONTYPE-SRM command to instruct the network element to display available performance monitoring data for the OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH facilities.

Security level

Level 1

Input syntax

```
RTRV-MONTYPE-SRM: [TID] : <AID>: [CTAG] ;
```

Table 10-69
RTRV-MONTYPE-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

Example input

Retrieve all the monitored types for all the facilities in slot 11:

```
RTRV-MONTYPE-SRM:EDMONTON:11-1:1234;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<montype>,<locn>,<dirn>" ;
```

Table 10-70
RTRV-MONTYPE-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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive

Example output

SONET mode:

```
OPT_1_4 00-12-07 19:52:57
M 1 COMPLD
"11-1:CVS,NEND,AZ"
"11-1:ESS,NEND,AZ"
"11-1:SESS,NEND,AZ"
"11-1:SEFSS,NEND,AZ"
"11-1:CVS,NEND,ZA"
"11-1:ESS,NEND,ZA"
"11-1:SESS,NEND,ZA"
"11-1:SEFSS,NEND,ZA"
"11-1:UASS,NEND,ZA"
```

SDH mode:

```
OPT_1_4 00-12-08 17:42:08
M 1 COMPLD
"11-1:EBS,NEND,AZ"
"11-1:ESS,NEND,AZ"
"11-1:SESS,NEND,AZ"
"11-1:OFSS,NEND,AZ"
"11-1:EBS,NEND,ZA"
"11-1:ESS,NEND,ZA"
"11-1:SESS,NEND,ZA"
"11-1:OFSS,NEND,ZA"
"11-1:UASS,NEND,ZA"
```

RTRV-PM-ALL (retrieve performance equipment)

Use the RTRV-PM-ALL command to instruct the network element to retrieve power levels and associated facility performance monitoring data for selected or all equipment.

Security level

Level 1

Input syntax

```
RTRV-PM-ALL: [TID] : [<AID>] : [CTAG] :: [<montype>] ,
 [<monlev>] , [<locn>] , [<dirn>] , [<tmper>] , [<mondatt>] , [<montm>] ;
```

Table 10-71
RTRV-PM-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for equipment	For equipment AID values see Table 1-5 on page 1-14 . ALL = all applicable values	For equipment AID values see Table 1-5 on page 1-14 . ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONTYPE	Monitored type	For values see Table 10-131 on page 10-141	For values see Table 10-131 on page 10-141
MONLEV	Monitored power level	Unsupported	Unsupported
LOCN	Location	ALL	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 (facility PM only)	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED

Table 10-71 (continued)
RTRV-PM-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date (facility PM only)	MM-DD, where MM=month DD=day	MM-DD, where MM=month DD=day
MONTM	Monitored time (facility PM only)	HH-MM, where HH=hour MM=minute (see Note)	HH-MM, where HH=hour MM=minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Retrieve power threshold performance monitoring data for all equipment and facilities:

```
RTRV-PM-ALL:OM5000-1-44:ALL:12;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, <monval>, <vldty>, <locn>, <dirn>,
[<tmper>], <mondatt>, <montm>";
```

Table 10-72
RTRV-PM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for equipment	For equipment AID values, see Table 1-5 on page 1-14 .	For equipment AID values, see Table 1-5 on page 1-14 .
AIDTYPE	Access identifier type	EQPT, OCI, OCLD, OTR, SRM, GFSRM, OFA	EQPT, OCI, OCLD, OTR, SRM, GFSRM
MONTYPE	Monitored type	For values see Table 10-131 on page 10-141	For values see Table 10-131 on page 10-141
MONVAL	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring	COMPL = completed accumulation over the specified time period PRTL = default to partial accumulation NA = not applicable	COMPL = completed accumulation over the specified time period PRTL = default to partial accumulation NA = not applicable

Table 10-72 (continued)
RTRV-PM-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	NEND = near-end FEND = far-end	NEND = near-end FEND = far-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN, 1-DAY, UNTIMED	15-MIN, 1-DAY, UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

```
OM5000-1-44 02-07-20 00:41:41
M 12 COMPLD
"OCLD-2-OPT-1, EQPT:OPT-HT, 3.490518, NA, NEND, AZ, , 7-20, 0-41"
"OCLD-2-OPT-1, EQPT:OPT-LT, 3.490518, NA, NEND, AZ, , 7-20, 0-41"
"OCI-3-OPT-1, EQPT:OPT-HT, -Inf, NA, NEND, AZ, , 7-20, 0-41"
"OCI-3-OPT-1, EQPT:OPT-LT, -Inf, NA, NEND, AZ, , 7-20, 0-41"
"OTR-5-OPT-2, EQPT:OPT-HT, 0.000000, NA, NEND, AZ, , 7-20, 0-41"
"OTR-5-OPT-2, EQPT:OPT-LT, 0.000000, NA, NEND, AZ, , 7-20, 0-41"
"2-1, OCLD:CVS, 400, COMPL, NEND, AZ, 15-MIN, 7-20, 0-30"
"2-1, OCLD:CVS, 1700, COMPL, NEND, AZ, 1-DAY, 7-20, 0-0"
"3-1, OCI:CVS, 400, COMPL, NEND, AZ, 15-MIN, 7-20, 0-30"
"3-1, OCI:CVS, 1700, COMPL, NEND, AZ, 1-DAY, 7-20, 0-0"
"5-1, OTR:CVS, 400, COMPL, NEND, AZ, 15-MIN, 7-20, 0-30"
"5-1, OTR:CVS, 1700, COMPL, NEND, AZ, 1-DAY, 7-20, 0-0"
"MOTR-3-11, EQPT:OPR-HT, -6.861852, NA, NEND, ZA, , 5-17, 20-15"
```

RTRV-PM-EQPT (retrieve performance equipment)

Use the RTRV-PM-EQPT command to instruct the network element to retrieve the Tx or Rx power level on the specified or all equipment.

Security level

Level 1

Input syntax

```
RTRV-PM-EQPT: [TID] : [<AID>] : [CTAG] : : [<montype>] ,
 [<monlev>] , [<locn>] , [<dirn>] , [<timper>] , [<mondatt>] , [<montm>] ;
```

Table 10-73
RTRV-PM-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, OCI, OCLD, OFA, OTR, GFSRM, SRM, MOTR, MOTRSFP equipment optical port For equipment AID values see Table 1-5 on page 1-14 ALL = all applicable values	OCLD, OCI, OTR, GFSRM, SRM, MOTR, MOTRSFP equipment optical port For equipment AID values see Table 1-5 on page 1-14 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONTYPE	Monitored type	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
MONLEV	Monitored power level	Unsupported	Unsupported
LOCN	Location	ALL	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
MONDAT	Monitored date	Unused	Unused
MONTM	Monitored time	Unused	Unused

Example input

Retrieve power threshold performance monitoring data for the OCLD in slot 1:

```
RTRV-PM-EQPT:MTL:OCLD-1:12::OPT-HT;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, <monval>, <vldty>, <locn>, <dirn>,
[<tmper>], <mondatt>, <montm>" ;
```

Table 10-74
RTRV-PM-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for equipment	For equipment AID values see Table 1-5 on page 1-14	For equipment AID values see Table 1-5 on page 1-14
AIDTYPE	Access identifier type	EQPT	EQPT
MONTYPE	Monitored type	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
MONVAL	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring	NA=Not Applicable	NA=Not Applicable
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example output

```
MTL 01-01-08 20:07:09
M 1 COMPLD
"OCLD-4-1, EQPT:OPR-HT, -28.756638, NA, NEND, ZA, , 1-8, 20-7"
```

RTRV-PM-GFSRM (retrieve performance GFSRM)

Use the RTRV-PM-GFSRM command to instruct the network element to send its current set of OCI SRM GbE/FC or OCI SRM GbE performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-PM-GFSRM: [TID] : [<AID>] : [CTAG] :: [<montype>] ,
 [<monlev>] , [<locn>] , [<dirn>] , [<tmper>] , [<mondatt>] , [<montm>];
```

Table 10-75
RTRV-PM-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero	x-up or x-down, where x= number above zero
LOCN	Location	ALL	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	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin	1-DAY = daily 15-MIN = 15 minutes interval UNTIMED = untimed PM bin

Table 10-75 (continued)
RTRV-PM-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Retrieve the CVS performance monitoring counts for the OCI SRM GbE/FC in slot 7:

```
RTRV-PM-GFSRM:REYKJAVIK:7-1:1::CVS,27-up,ALL,, , , ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>],<mondatt>,<montm>" ;
```

Table 10-76
RTRV-PM-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
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	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period

Table 10-76 (continued)
RTRV-PM-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	NEND = near-end FEND = far-end	NEND = near-end FEND = far-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

Example output

Retrieve all the OCI SRM GbE/FC facility PM data:

```
OM5000-4-20 03-01-26 02:22:54
M 0 COMPLD
"4-WAN1,GFSRM:ES,18,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-WAN1,GFSRM:SES,18,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-WAN1,GFSRM:UAS,18,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-WAN2,GFSRM:ES,11,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-WAN2,GFSRM:SES,11,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-WAN2,GFSRM:UAS,11,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-AG1-1,GFSRM:UASP,19,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-AG1-1,GFSRM:CV-PFE,20,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-AG1-1,GFSRM:ES-PFE,1,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-AG1-25,GFSRM:UASP,12,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-AG1-25,GFSRM:CV-PFE,20,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
"4-AG1-25,GFSRM:ES-PFE,1,PRTL,NEND,AZ,UNTIMED,1-24,23-10"
;
```

RTRV-PM-MOTR (retrieve performance MOTR)

Use the RTRV-PM-MOTR command to instruct the network element to send its current set of MOTR performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-PM-MOTR: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<monlev>] ,
[<locn>] , [<dirn>] , [<timper>] , [<mondatt>] , [<montm>] ;
```

Table 10-77**RTRV-PM-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero	x-up or x-down, where x= number above zero
LOCN	Location	ALL	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 UNTIMED	15-MIN 1-DAY UNTIMED

Table 10-77 (continued)
RTRV-PM-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Retrieve all the 15 minute ES performance monitoring counts that are higher than 600, for the MOTR in slot 3:

```
RTRV-PM-MOTR::3-11:1::ES,600-up,ALL,ZA,15-min,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>],<mondatt>,<montm>" ;
```

Table 10-78
RTRV-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
AIDTYPE	Access identifier type	MOTR	MOTR
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	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period

Table 10-78 (continued)
RTRV-PM-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	NEND = near-end (null value)	NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

Retrieved 15-minutes ES performance monitoring counts that are higher than 600, for the MOTR in slot 3:

```

OM5000-1-1 04-05-25 15:11:40
M 1 COMPLD
"3-11, MOTR:ES, 839, PRTL, NEND, ZA, 15-MIN, 5-25, 14-15"
;

```

RTRV-PM-MOTRSFP (retrieve performance MOTRSFP)

Use the RTRV-PM-MOTRSFP command to instruct the network element to send its current set of MOTRSFP port performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-PM-MOTRSFP: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<monlev>] ,
 [<locn>] , [<dirn>] , [<timeper>] , [<mondatt>] , [<montm>] ;
```

Table 10-79
RTRV-PM-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero	x-up or x-down, where x= number above zero
LOCN	Location	ALL	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 UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example input

Retrieve the 1-day ES performance monitoring counts that are higher than 1, for the MOTRSFP in slot 1 of MOTR in slot 3 :

```
RTRV-PM-MOTRSFP::3-1:1::ES,1-up,all,ZA,1-day,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>],<mondatt>,<montm>" ;
```

Table 10-80
RTRV-PM-MOTRSFP 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	MOTRSFP	MOTRSFP
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	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period
LOCN	Location	NEND = near-end (null value)	NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED

Table 10-80 (continued)
RTRV-PM-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

Retrieved 1-day ES performance monitoring counts that are higher than 1, for the MOTRSFP in slot 1 of MOTR in slot 3:

```
OM5000-1-1 04-05-25 15:20:08
M 1 COMPLD
"3-1, MOTRSFP:ES, 3, PRTL, NEND, ZA, 1-DAY, 5-25, 0-0"
```

RTRV-PM-OCI (retrieve performance OCI)

Use the RTRV-PM-OCI command to instruct the network element to send its current set of SONET/SDH OCI performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-PM-OCI: [TID]: [<AID>]: [CTAG]: : [<montype>], [<monlev>],
[<locn>], [<dirn>], [<timper>], [<mondatt>], [<montm>];
```

Table 10-81
RTRV-PM-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero	x-up or x-down, where x= number above zero
LOCN	Location	ALL	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

Table 10-81 (continued)
RTRV-PM-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example input

Retrieve the CVS performance monitoring counts for the OCI in slot 7:

```
RTRV-PM-OCI:REYKJAVIK:7-1:1::CVS,27-up,ALL,,,,;
```

Retrieve all the performance monitoring counts for the OCI in slot 7:

```
RTRV-PM-OCI:REYKJAVIK:7-1:1::,1-up,,,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>],<mondat>,<montm>" ;
```

Table 10-82
RTRV-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
AIDTYPE	Access identifier type	OCI	OCI
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	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period
LOCN	Location	NEND = near-end (null value)	NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

For the CVS counts on the OCI in slot 7:

```
REYKJAVIK 01-01-08 20:23:04
M 1 COMPLD
"7-1,OCI:CVS,36,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCI:CVS,36,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCI:CVS,36,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCI:CVS,34,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCI:CVS,34,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCI:CVS,34,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
```

For all the performance monitoring counts on the OCI in slot 7:

```
REYKJAVIK 01-01-08 20:21:58
M 1 COMPLD
"7-1,OCI:CVS,36,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCI:CVS,36,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCI:CVS,36,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCI:ESS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCI:ESS,17,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCI:ESS,17,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCI:SESS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCI:SESS,17,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCI:SESS,17,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCI:SEFSS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCI:SEFSS,17,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCI:SEFSS,17,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCI:CVS,34,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCI:CVS,34,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCI:CVS,34,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
"7-1,OCI:ESS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCI:ESS,17,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCI:ESS,17,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
"7-1,OCI:SESS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCI:SESS,17,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCI:SESS,17,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
"7-1,OCI:SEFSS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCI:SEFSS,17,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCI:SEFSS,17,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
```

RTRV-PM-OCLD (retrieve performance OCLD)

Use the RTRV-PM-OCLD command to instruct the network element to send its current set of OCLD performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-PM-OCLD: [TID] : [<AID>] : [CTAG] :: [<montype>] ,
 [<monlev>] , [<locn>] , [<dirn>] , [<timper>] , [<mondatt>] , [<montm>] ;
```

Table 10-83
RTRV-PM-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero	x-up or x-down, where x= number above zero
LOCN	Location	ALL	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 UNTIMED	15-MIN 1-DAY UNTIMED

Table 10-83 (continued)
RTRV-PM-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

Example input

Retrieve the CVS performance monitoring counts for the OCLD in slot 7:

```
RTRV-PM-OCLD:REYKJAVIK:7-1:1::CVS,27-up,ALL,,,,;
```

Retrieve all the performance monitoring counts for the OCLD in slot 7:

```
RTRV-PM-OCLD:REYKJAVIK:7-1:1::,1-up,,,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>], <mondatt>,<montm>" ;
```

Table 10-84
RTRV-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
AIDTYPE	Access identifier type	OCLD	OCLD
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	Monitored value	Number	Number

Table 10-84 (continued)
RTRV-PM-OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period
LOCN	Location	NEND = near-end (null value)	NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date	MM-DD, where MM = month DD = day The default is the current date
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

Example output

For the CVS counts on the OCLD in slot 7:

```
REYKJAVIK 01-01-08 20:23:04
M 1 COMPLD
"7-1, OCLD: CVS, 36, COMPL, NEND, AZ, 15-MIN, 1-8, 20-15"
"7-1, OCLD: CVS, 36, COMPL, NEND, AZ, 1-DAY, 1-8, 0-0"
"7-1, OCLD: CVS, 36, COMPL, NEND, AZ, UNTIMED, 12-22, 15-42"
"7-1, OCLD: CVS, 34, COMPL, NEND, ZA, 15-MIN, 1-8, 20-15"
"7-1, OCLD: CVS, 34, COMPL, NEND, ZA, 1-DAY, 1-8, 0-0"
"7-1, OCLD: CVS, 34, COMPL, NEND, ZA, UNTIMED, 12-22, 15-42"
```

For all the performance monitoring counts on the OCLD in slot 7:

```
REYKJAVIK 01-01-08 20:21:58
M 1 COMPLD
"7-1,OCLD:CVS,36,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCLD:CVS,36,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCLD:CVS,36,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCLD:ESS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCLD:ESS,17,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCLD:ESS,17,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCLD:SESS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCLD:SESS,17,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCLD:SESS,17,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCLD:SEFSS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OCLD:SEFSS,17,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OCLD:SEFSS,17,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OCLD:CVS,34,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCLD:CVS,34,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCLD:CVS,34,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
"7-1,OCLD:ESS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCLD:ESS,17,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCLD:ESS,17,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
"7-1,OCLD:SESS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCLD:SESS,17,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCLD:SESS,17,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
"7-1,OCLD:SEFSS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OCLD:SEFSS,17,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OCLD:SEFSS,17,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
```

RTRV-PM-OFA (retrieve performance OFA)

Use the RTRV-PM-OFA command to instruct the network element to send its current set of OFA performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

RTRV-PM-OFA: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<monlev>] ,
[<locn>] , [<dirn>] , [<tmper>] , [<mondatt>] , [<montm>] ;

Table 10-85
RTRV-PM-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 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero
LOCN	Location	ALL
DIRN	Direction If you leave DIRN blank, this command will return both transmit and receive directions.	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED

Table 10-85 (continued)
RTRV-PM-OFA input syntax definition

Parameter	Description	Possible values (5200)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>		

Example input

Retrieve all the performance monitoring counts for the OFA in slot 4:

```
RTRV-PM-OFA:REYKJAVIK:4-1:1::,1-up,,,,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>],<mondatt>,<montm>" ;
```

Table 10-86
RTRV-PM-OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OFA
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
MONVAL	Monitored value	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period
LOCN	Location	ALL

Table 10-86 (continued)
RTRV-PM-OFA output syntax definition

Parameter	Description	Possible values (5200)
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>		

Example output

For the FC counts on the OFA in slot 4:

```
REYKJAVIK 01-01-08 20:23:04
M 1 COMPLD
"4-1, OFA: FC, 36, COMPL, NEND, AZ, 15-MIN, 1-8, 20-15"
"4-1, OFA: FC, 36, COMPL, NEND, AZ, 1-DAY, 1-8, 0-0"
"4-1, OFA: FC, 36, COMPL, NEND, AZ, UNTIMED, 12-22, 15-42"
"4-1, OFA: FC, 34, COMPL, NEND, ZA, 15-MIN, 1-8, 20-15"
"4-1, OFA: FC, 34, COMPL, NEND, ZA, 1-DAY, 1-8, 0-0"
"4-1, OFA: FC, 34, COMPL, NEND, ZA, UNTIMED, 12-22, 15-42"
```

RTRV-PM-OTR (retrieve performance OTR)

Use the RTRV-PM-OTR command to instruct the network element to send its current set of OTR performance monitoring data to the current TL1 session.

Security level

Level 1

Input syntax

RTRV-PM-OTR: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<monlev>] ,
 [<locn>] , [<dirn>] , [<timper>] , [<mondatt>] , [<montm>] ;

Table 10-87
RTRV-PM-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for OTR client side facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x= number above zero	x-up or x-down, where x= number above zero
LOCN	Location	ALL	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 UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.			

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Example input

Retrieve all the performance monitoring counts for the OTR in slot 7:

```
RTRV-PM-OTR:REYKJAVIK:7-1:1::CVS,27-up,ALL,,,,;
```

Retrieve all the performance monitoring counts for the OTR in slot 7:

```
RTRV-PM-OTR:REYKJAVIK:7-1:1::,1-up,,,,;
```

Output syntax

SID DATE TIME

M CTAG COMPLD

"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,
[<timper>],<mondatt>,<montm>" ;

Table 10-88

RTRV-PM-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for OTR client side 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
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	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period
LOCN	Location	NEND = near-end (null value)	NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED

Table 10-88 (continued)
RTRV-PM-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)

Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.

Example output

For the CVS counts on the OTR in slot 7:

```
REYKJAVIK 01-01-08 20:23:04
M 1 COMPLD
"7-1,OTR:CVS,36,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OTR:CVS,36,COMPL,NEND,AZ,1-DAY,1-8,0-0"
"7-1,OTR:CVS,36,COMPL,NEND,AZ,UNTIMED,12-22,15-42"
"7-1,OTR:CVS,34,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OTR:CVS,34,COMPL,NEND,ZA,1-DAY,1-8,0-0"
"7-1,OTR:CVS,34,COMPL,NEND,ZA,UNTIMED,12-22,15-42"
```

For all 15-MIN performance monitoring counts on the OTR in slot 7:

```
REYKJAVIK 01-01-08 20:21:58
M 1 COMPLD
"7-1,OTR:CVS,36,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OTR:ESS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OTR:SESS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OTR:SEFSS,17,COMPL,NEND,AZ,15-MIN,1-8,20-15"
"7-1,OTR:CVS,34,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OTR:ESS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OTR:SESS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OTR:SEFSS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
"7-1,OTR:UASS,17,COMPL,NEND,ZA,15-MIN,1-8,20-15"
```

RTRV-PM-SRM (retrieve performance SRM)

Use the RTRV-PM-SRM command to instruct the network element to send its current set performance monitoring data for the selected OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH facilities to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-PM-SRM: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<monlev>] ,
 [<locn>] , [<dirn>] , [<timper>] , [<mondatt>] , [<montm>] ;
```

Table 10-89
RTRV-PM-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 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
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 .
MONLEV	Monitored level	x-up or x-down, where x = number from 1 through 32.	x-up or x-down, where x = number from 1 through 32.
LOCN	Location	ALL	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 UNTIMED	15-MIN 1-DAY UNTIMED

Table 10-89 (continued)
RTRV-PM-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example input

Retrieve all performance monitoring counts on the SRM OCI circuit pack in slot 13 for the transmit direction only:

```
RTRV-PM-SRM:GEORGIA:13-1:1::,9-up,ALL,AZ,,;
```

Retrieve current 15-MIN performance monitoring counts on the SONET/SDH SRM OCI circuit pack in slot 11:

```
RTRV-PM-SRM::11-1::,, ,15-MIN,2-20,20-30;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<monval>,<vldty>,<locn>,<dirn>,<tmper>,<mondatt>,<montm>" ;
```

Table 10-90
RTRV-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
AIDTYPE	Access identifier type	SRM	SRM
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	Monitored value	Number	Number
VLDTY	Validity indicator for historical monitoring data	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period	COMPL = completed accumulation over the specified time period PRTL = partial accumulation over the specified time period
LOCN	Location	NEND = near-end (null value)	NEND = near-end (null value)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	15-MIN 1-DAY UNTIMED	15-MIN 1-DAY UNTIMED
MONDAT	Monitored date	MM-DD, where MM = month DD = day The default is the current date.	MM-DD, where MM = month DD = day The default is the current date.
MONTM	Monitored time	HH-MM, where HH = hour MM = minute (see Note)	HH-MM, where HH = hour MM = minute (see Note)
<p>Note: The MONTM parameter requires that a MONDAT be specified. If using the MONTM parameter, the MONTM value specified must correspond to the exact timestamp on the PM bin in GMT time.</p>			

Example output

```
OPT_7_16 02-02-20 20:34:50
M 0 COMPLD
"11-1,SRM:ESS,290,COMPL,NEND,AZ,15-MIN,2-20,20-30"
"11-1,SRM:SESS,290,COMPL,NEND,AZ,15-MIN,2-20,20-30"
"11-1,SRM:SEFSS,290,COMPL,NEND,AZ,15-MIN,2-20,20-30"
"11-1,SRM:UASS,290,COMPL,NEND,AZ,15-MIN,2-20,20-30"
"11-1,SRM:ESS,290,COMPL,NEND,ZA,15-MIN,2-20,20-30"
"11-1,SRM:SESS,290,COMPL,NEND,ZA,15-MIN,2-20,20-30"
"11-1,SRM:SEFSS,290,COMPL,NEND,ZA,15-MIN,2-20,20-30"
"11-1,SRM:UASS,290,COMPL,NEND,ZA,15-MIN,2-20,20-30"
;
```

RTRV-PMODE-GFSRM (retrieve performance mode GFSRM)

Use the RTRV-PMODE-GFSRM command to retrieve the performance monitoring mode for the specified OCI SRM GbE/FC or OCI SRM GbE facility.

Security level

Level 1

Input syntax

RTRV-PMODE-GFSRM: [TID] : [<AID>] : [CTAG] :: [<locn>] ;

Table 10-91
RTRV-PMODE-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the GFSRM facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL	ALL

Example input

Retrieve the PM mode type on the OCI SRM GbE/FC in slot 5:

RTRV-PMODE-GFSRM:NEWYORK::1234::ALL;

Output syntax

SID DATE TIME
M CTAG COMPLD
"<facility>:<locn>, <pmModeType>: [PATHPP=<pathpp>]";

Table 10-92
RTRV-PMODE-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
FACILITY	Access identifier for the OCI GFSRM facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values

Table 10-92
RTRV-PMODE-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	ALL	ALL
PMODETYPE	Type of performance monitoring mode	8B10BWAN GIGE SONET SDH NIL	8B10BWAN GIGE SONET SDH NIL
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused	Unused

Example output

Retrieve the PM mode on all GFSRM facilities:

```
OM5000-4-20 03-01-26 02:33:24
M 0 COMPLD
"4-1:ALL, GIGE: "
"4-AG1:ALL, SONET: "
"4-2:ALL, GIGE: "
;
```

Retrieve the PM mode on the GFSRM aggregate facility:

```
OM5000-4-20 03-01-26 01:46:38
M 0 COMPLD
"4-AG1:ALL, SONET: "
;
```

RTRV-PMODE-MOTR (retrieve performance mode MOTR)

Use the RTRV-PMODE-MOTR command to retrieve the performance monitoring mode for the specified MOTR facility.

Security level

Level 1

Input syntax

RTRV-PMODE-MOTR: [TID] : [<AID>] : [CTAG] :: [<locn>] ;

Table 10-93
RTRV-PMODE-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the MOTR facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL	ALL

Example input

Retrieve the PM mode type on the MOTR in slot 5:

RTRV-PMODE-MOTR:NEWYORK:3-11:1234::ALL;

Output syntax

SID DATE TIME
M CTAG COMPLD
"<aid>:<locn>, <pmModeType>: [PATHPP=<pathh>] " ;

Table 10-94
RTRV-PMODE-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the MOTR facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	SONET-DW SDH-DW NIL	SONET-DW SDH-DW NIL
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused	Unused

Example output

NEWYORK-000 98-06-20 14-30-00
M 1234 COMPLD
"3-11:ALL, SDH-DW: " ;

RTRV-PMMODE-MOTRSFP (retrieve performance mode MOTRSFP)

Use the RTRV-PMMODE-MOTRSFP command to retrieve the performance monitoring mode for the specified MOTRSFP port facility.

Security level

Level 1

Input syntax

```
RTRV-PMMODE-MOTRSFP: [TID] : [<AID>] : [CTAG] :: [<locn>] ;
```

Table 10-95**RTRV-PMMODE-MOTRSFP input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the MOTRSFP facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL	ALL

Example input

Retrieve the PM mode type on the MOTRSFP in slot 5, port 1:

```
RTRV-PMMODE-MOTRSFP:NEWYORK:5-1:1234::ALL;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>:<locn>,<pmModeType>:[PATHPP=<pathpp>]";
```

Table 10-96**RTRV-PMMODE-MOTRSFP output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the MOTRSFP facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values

Table 10-96
RTRV-PMODE-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	ALL	ALL
PMODETYPE	Type of performance monitoring mode	8B10BWAN GIGEWAN NIL	8B10BWAN GIGEWAN NIL
PATHPP	Indicates if path performance parameters are enabled or disabled	N = No Y = Yes	N = No Y = Yes

Example output

```
NEWYORK-000 98-06-20 14-30-00
M 1234 COMPLD
"5-1:ALL, GIGEWAN:PATHPP=N";
```

RTRV-PMODE-OCI (retrieve performance mode OCI)

Use the RTRV-PMODE-OCI command to retrieve the performance monitoring mode for the specified OCI facility.

Security level

Level 1

Input syntax

```
RTRV-PMODE-OCI : [TID] : [<AID>] : [CTAG] :: [<locn>] ;
```

Table 10-97
RTRV-PMODE-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OCI facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL	ALL

Example input

Retrieve the PM mode type on the OCI in slot 5:

```
RTRV-PMODE-OCI:NEWYORK:5-1:1234::ALL;
```

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<facility>:<locn>, <pmModeType>: [PATHPP=<pathpp>]";

```

Table 10-98
RTRV-PMODE-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
FACILITY	Access identifier for the OCI facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	SONET SDH SFC NIL	SONET SDH SFC NIL
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused	Unused

Example output

```

NEWYORK-000 98-06-20 14-30-00
M 1234 COMPLD
"5-1:ALL, SDH:";

```

RTRV-PMMODE-OCLD (retrieve performance mode OCLD)

Use the RTRV-PMMODE-OCLD command to retrieve the performance monitoring mode for the specified OCLD facility.

Security level

Level 1

Input syntax

RTRV-PMMODE-OCLD: [TID] : [<AID>] : [CTAG] :: [<locn>] ;

Table 10-99
RTRV-PMMODE-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OCLD facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL	ALL

Example input

Retrieve the PM mode type on the OCI in slot 5:

RTRV-PMMODE-OCLD:NEWYORK:5-1:1234::ALL;

Output syntax

SID DATE TIME
M CTAG COMPLD
"<facility>:<locn>, <pmModeType>: [PATHPP=<pathpp>] " ;

Table 10-100
RTRV-PMMODE-OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
FACILITY	Access identifier for the OCLD facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values

Table 10-100
RTRV-PMODE-OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	ALL	ALL
PMODETYPE	Type of performance monitoring mode	SONET SDH 8B10B SFC NIL	SONET SDH 8B10B SFC NIL
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused	Unused

Example output

```
NEWYORK-000 98-06-20 14-30-00
M 1234 COMPLD
"5-1:ALL, SDH:";
```

RTRV-PMODE-OFA (retrieve performance mode OFA)

Use the RTRV-PMODE-OFA command to retrieve the performance monitoring mode for the specified OFA facility.

Security level

Level 1

Input syntax

```
RTRV-PMODE-OFA: [TID] : [<AID>] : [CTAG] :: [<locn>] ;
```

Table 10-101
RTRV-PMODE-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string
LOCN	Location	ALL

Example input

Retrieve the PM mode type on the OFA in slot 4:

```
RTRV-PMODE-OFA:NEWYORK:4-1:1234::ALL;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<facility>:<locn>, <pmModeType>: [PATHPP=<pathpp>] ";
```

Table 10-102
RTRV-PMODE-OFA output syntax definition

Parameter	Description	Possible values (5200)
FACILITY	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17
LOCN	Location	ALL
PMODETYPE	Type of performance monitoring mode	SFC NIL = disable
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused

Example output

```
NEWYORK-000 98-06-20 14-30-00
M 1234 COMPLD
"4-1:ALL, SFC:" ;
```

RTRV-PMODE-OTR (retrieve performance mode OTR)

Use the RTRV-PMODE-OTR command to retrieve the performance monitoring mode for the specified OTR facility.

Security level

Level 1

Input syntax

```
RTRV-PMODE-OTR: [TID] : [<AID>] : [CTAG] :: [<locn>] ;
```

Table 10-103
RTRV-PMODE-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OTR facility	For AID values see Table 1-6 on page 1-17 ALL = all applicable values	For AID values see Table 1-6 on page 1-17 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL (null value)	ALL (null value)

Example input

Retrieve the PM mode type on the OTR in slot 5:

```
RTRV-PMMODE-OTR:NEWYORK:5-1:1234::ALL;
```

Output syntax

```
SID DATE TIME
```

```
M CTAG COMPLD
```

```
"<facility>:<locn>,<pmModeType>:[PATHPP=<pathpp>]";
```

Table 10-104**RTRV-PMMODE-OTR output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
FACILITY	Access identifier for the OTR facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	SONET SDH 8B10B SFC LANPHY DW NIL = disable	SONET SDH 8B10B SFC LANPHY DW NIL = disable
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused	Unused

Example output

```
NEWYORK 02-06-20 14-30-45
```

```
M 1234 COMPLD
```

```
"5-1:ALL,SDH:";
```

RTRV-PMODE-SRM (retrieve performance mode SRM)

Use the RTRV-PMODE-SRM command to retrieve the performance monitoring mode for the specified OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH facility.

Security level

Level 1

Input syntax

```
RTRV-PMODE-SRM: [TID] : [<AID>] : [CTAG] :: [<locn>] ;
```

Table 10-105
RTRV-PMODE-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the SRM facility	For AID values see Table 1-6 on page 1-17 ALL = all SRM facilities and ports	For AID values see Table 1-6 on page 1-17 ALL = all SRM facilities and ports
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
LOCN	Location	ALL	ALL

Example input

Retrieve the performance monitoring mode type for the SRM in slot 13, ports 1 and 3:

```
RTRV-PMODE-SRM:HOUSTON:13-1:1234::ALL;
```

Output syntax

```
SID DATE TIME  
M CTAG COMPLD  
"<facility>:<locn>, <pmModeType>: [PATHPP=<pathpp>]";
```

Table 10-106
RTRV-PMMODE-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
FACILITY	Access identifier for the SRM facility	For AID values see Table 1-6 on page 1-17	For AID values see Table 1-6 on page 1-17
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	SONET SDH SFC AGILE NIL = disable	SONET SDH SFC AGILE NIL = disable
PATHPP	Indicates if path performance parameters are enabled or disabled	Unused	Unused

Example output

```
HOUSTON 98-06-20 14-30-00
M 001 COMPLD
"5-1:ALL, SDH:";
```

RTRV-PMSCHED-ALL (retrieve performance schedule ALL)

Use the RTRV-PMSCHED-ALL command to retrieve the performance monitoring schedules on the network element.

Security level

Level 1

Input syntax

RTRV-PMSCHED-ALL: [TID] : <AID>: [CTAG] ;

Table 10-107

RTRV-PMSCHED-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	ALL = all applicable values or no AID specified	ALL = all applicable values or no AID specified
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Example input

Retrieve all the performance monitoring schedule on NE HOUSTON:

RTRV-PMSCHED-ALL:HOUSTON:ALL:1;

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<reptinvl>,[<reptdat>],[<repttm>],[<numinvl>]
,[<montype>],[<monlev>],<locn>,<dirn>,<tmper>,[<tmofst>],
<inhmode>";
```

Table 10-108
RTRV-PMSCHED-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17 For Equipment AID values see Table 1-5 on page 1-14	For Facilities AID values see Table 1-6 on page 1-17 For Equipment AID values see Table 1-5 on page 1-14
AIDTYPE	Access identifier type	EQPT, OCI, OCLD, OTR, SRM, GFSRM, OFA, MOTR, MOTRSFP	EQPT, OCI, OCLD, OTR, SRM, GFSRM, MOTR, MOTRSFP
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-EQPT (retrieve performance schedule equipment)

Use the RTRV-PMSCHED-EQPT command to retrieve equipment power level autonomous PM reporting schedule.

Security level

Level 1

Input syntax

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

Table 10-109**RTRV-PMSCHED-EQPT input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Equipment Access identifier of the circuit pack	For AID values see Table 1-5 on page 1-14	For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<reptinvl>,[<reptdat>],[<repttm>],[<numinvl>]
,[<montype>],[<monlev>],<locn>,<dirn>,<timper>,[<tmoftst>],
<inhmode>";
```

Table 10-110**RTRV-PMSCHED-EQPT output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Equipment AID values see Table 1-5 on page 1-14	For Equipment AID values see Table 1-5 on page 1-14
AIDTYPE	Access identifier type	EQPT	EQPT
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Table 10-110 (continued)
RTRV-PMSCHED-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-GFSRM (retrieve performance schedule GFSRM)

Use the RTRV-PMSCHED-GFSRM command to retrieve OCI SRM GbE/FC or OCI SRM GbE facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

RTRV-PMSCHED-GFSRM: [TID] : <AID> : [CTAG] ; ;

Table 10-111
RTRV-PMSCHED-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<reptinvl>,<reptdat>,<repttm>,<numinvl>
,<montype>,<monlev>,<locn>,<dirn>,<tper>,<tmofst>],
<inhmode>";
```

Table 10-112
RTRV-PMSCHED-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	GFSRM	GFSRM
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-MOTR (retrieve performance schedule MOTR)

Use the RTRV-PMSCHED-MOTR command to instruct the network element to retrieve the MOTR facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

RTRV-PMSCHED-MOTR: [TID] : <AID> : [CTAG] ;

Table 10-113**RTRV-PMSCHED-MOTR input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<reptinvl>,[<reptdat>],[<repttm>],[<numinvl>]
,[<montype>],[<monlev>],<locn>,<dirn>,<timper>,[<tmofst>],
<inhmode>";
```

Table 10-114**RTRV-PMSCHED-MOTR output syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTR	MOTR
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Table 10-114 (continued)
RTRV-PMSCHED-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-MOTRSFP (retrieve performance schedule MOTRSFP)

Use the RTRV-PMSCHED-MOTRSFP command to instruct the network element to retrieve the MOTRSFP facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

RTRV-PMSCHED-MOTRSFP: [TID] : <AID> : [CTAG] ;

Table 10-115
RTRV-PMSCHED-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<reptinvl>,<reptdat>,<repttm>,<numinvl>]
,<montype>,<monlev>,<locn>,<dirn>,<tper>,<tmofst>],
<inhmode>";

```

Table 10-116
RTRV-PMSCHED-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	MOTRSFP	MOTRSFP
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-OCI (retrieve performance schedule OCI)

Use the RTRV-PMSCHED-OCI command to instruct the network element to retrieve the OCI facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

RTRV-PMSCHED-GFSRM: [TID] : <AID> : [CTAG] ;

Table 10-117
RTRV-PMSCHED-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<reptinvl>, [<reptdat>], [<repttm>], [<numinvl>]
, [<montype>], [<monlev>], <locn>, <dirn>, <timper>, [<tmofst>],
<inhmode>";
```

Table 10-118
RTRV-PMSCHED-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OCI	OCI
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Table 10-118 (continued)
RTRV-PMSCHED-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-OCLD (retrieve performance schedule OCLD)

Use the RTRV-PMSCHED-OCLD command to instruct the network element to retrieve the OCLD facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

RTRV-PMSCHED-OCLD: [TID] : <AID> : [CTAG] ; ;

Table 10-119
RTRV-PMSCHED-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<reptinvl>, [<reptdat>], [<repttm>], [<numinvl>]
, [<montype>], [<monlev>], <locn>, <dirn>, <timper>, [<tmofst>],
<inhmode>";
```

Table 10-120
RTRV-PMSCHED-OC LD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OC LD	OC LD
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-OFA (retrieve performance schedule OFA)

Use the RTRV-PMSCHED-OFA command to instruct the network element to retrieve the OFA facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

```
RTRV-PMSCHED-OFA: [TID] : <AID> : [CTAG] ;
```

Table 10-121
RTRV-PMSCHED-OFA input syntax definition

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

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <reptinvl>, [ <reptdat> ], [ <repttm> ], [ <numinvl> ]
, [ <montype> ], [ <monlev> ], <locn>, <dirn>, <tmper>, [ <tmofst> ],
<inhmode>";
```

Table 10-122
RTRV-PMSCHED-OFA output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OFA	OFA
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Table 10-122 (continued)
RTRV-PMSCHED-OFA output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-OTR (retrieve performance schedule OTR)

Use the RTRV-PMSCHED-OTR command to instruct the network element to retrieve the OTR facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

RTRV-PMSCHED-OTR: [TID] : <AID> : [CTAG] ; ;

Table 10-123
RTRV-PMSCHED-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```

SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<reptinvl>, [<reptdat>], [<repttm>], [<numinvl>]
, [<montype>], [<monlev>], <locn>, <dirn>, <timper>, [<tmofst>],
<inhmode>";

```

Table 10-124
RTRV-PMSCHED-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OTR	OTR
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-PMSCHED-SRM (retrieve performance schedule SRM)

Use the RTRV-PMSCHED-SRM command to instruct the network element to retrieve the SRM facility autonomous PM reporting schedule.

Security level

Level 1

Input syntax

```
RTRV-PMSCHED-SRM: [TID] : <AID> : [CTAG];
```

Table 10-125
RTRV-PMSCHED-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>: <reptinvl>, [<reptdat>], [<repttm>], [<numinvl>]
, [<montype>], [<monlev>], <locn>, <dirn>, <tmper>, [<tmofst>],
<inhmode>";
```

Table 10-126
RTRV-PMSCHED-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier	For Facilities AID values see Table 1-6 on page 1-17	For Facilities AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	SRM	SRM
REPTINVL	Reporting interval	15-MIN	15-MIN
REPDAT	Reporting date for next PM report	MM-DD, where MM = month DD = day	MM-DD, where MM = month DD = day
REPTTM	Reporting time for next PM report	HH-MM, where HH = hour MM = minute	HH-MM, where HH = hour MM = minute

Table 10-126 (continued)
RTRV-PMSCHED-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
NUMINVL	Remaining number of intervals over which PM is to be reported.	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely	Integer number 0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	1-UP	1-UP
LOCN	Location	ALL	ALL
DIRN	Direction	BTH	BTH
TMPER	Time period	ALL	ALL
TMOFST	Time offset	Unused	Unused
INHMODE	Inhibit mode	ALW = Reporting allowed INH = Reporting inhibited	ALW = Reporting allowed INH = Reporting inhibited

RTRV-TCACOND-ALL (retrieve TCA event reporting condition)

Use the RTRV-TCACOND-ALL command to instruct the network element to retrieve the TCA event reporting condition.

Security level

Level 1

Input syntax

RTRV-TCACOND-ALL: [TID] : [<AID>] : [CTAG] ;

Table 10-127
RTRV-TCACOND-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

Example input

RTRV-TCACOND-ALL:OM5000-1-44::123ABC;

Output syntax

```
SID DATE TIME
M CTAG COMPLD
" [<aid>] , [<aidtype>] :<condeff>"
;
```

Table 10-128
RTRV-TCACOND-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	Unused	Unused
AIDTYPE	Access identifier type	Unused	Unused
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
CONDEFF	TCA event reporting condition	SC = Standing condition that is active for an extended period of time. TC = Transient condition that does not change the basic condition of the NE for an extended period of time. SCS = Standing condition summary that is active for an extended period of time. TCS = Transient condition summary that does not change the basic condition of the NE for an extended period of time.	SC = Standing condition that is active for an extended period of time. TC = Transient condition that does not change the basic condition of the NE for an extended period of time. SCS = Standing condition summary that is active for an extended period of time. TCS = Transient condition summary that does not change the basic condition of the NE for an extended period of time.

Example output

```
OM5000-1-44 02-07-29 01:14:48
M 123ABC COMPLD
" , :SC"
;
```

RTRV-TH-ALL (retrieve PM threshold ALL)

Use the RTRV-TH-ALL command to instruct the network element to send equipment power levels and associated facility performance monitoring threshold to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-ALL: [TID] : [<AID>] : [CTAG] :: [<MONTYPE>] , [<locn>] ,
[<tmper>];
```

Table 10-129
RTRV-TH-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the APBE, GFSRM, OCI, OCLD, OFA, OTR, SRM, MOTR, MOTRSFP equipment and facility ALL = all applicable values	For AID values see Table 1-5 on page 1-14 ALL = all applicable values	For AID values see Table 1-5 on page 1-14 ALL = all applicable values
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONTYPE	Monitored type	For MONTYPE Values refer to Table 10-131 on page 10-141	For MONTYPE Values refer to Table 10-131 on page 10-141
LOCN	Location	ALL	ALL
TMPER	Time period (facility PM only)	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve all performance monitoring thresholds on OCI in slot 3:

```
RTRV-TH-ALL:OM5000-1-44:OCI-3:123;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype> , [<locn>] , [<dirn>] , [<thlev>] ,
[<tmper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-130
RTRV-TH-ALL output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the OCI, OCLD, OTR, SRM, GFSRM, OFA equipment	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	EQPT, OCI, OCLD, OTR, SRM, GFSRM, OFA, MOTR, MOTRSFP	EQPT, OCI, OCLD, OTR, SRM, GFSRM, MOTR, MOTRSFP
MONTYPE	Monitored type	For MONTYPE Values refer to Table 10-131 on page 10-141	For MONTYPE Values refer to Table 10-131 on page 10-141
LOCN	Location	NEND = near-end FEND = far-end	NEND = near-end FEND = far-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (integer)	Number (integer)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```

OM5000-1-44 02-07-20 01:27:35
M 123 COMPLD
"OCI-3-1, EQPT:OPT-HT, NEND, AZ, 7.000000, :TCAACTIVE=N"
"OCI-3-1, EQPT:OPT-LT, NEND, AZ, 5.000000, :TCAACTIVE=N"
"OCI-3-1, EQPT:OPR-HT, NEND, ZA, -2.000000, :TCAACTIVE=N"
"OCI-3-1, EQPT:OPR-LT, NEND, ZA, -13.500000, :TCAACTIVE=N"
"3-1, OCI:CVS, NEND, AZ, 1772, 15-MIN:TCAACTIVE=N"
"3-1, OCI:CVS, NEND, AZ, 4430, 1-DAY:TCAACTIVE=N"
"3-1, OCI:ESS, NEND, AZ, 346, 15-MIN:TCAACTIVE=N"
"3-1, OCI:ESS, NEND, AZ, 864, 1-DAY:TCAACTIVE=N"
"3-1, OCI:SESS, NEND, AZ, 2, 15-MIN:TCAACTIVE=N"
"3-1, OCI:SESS, NEND, AZ, 4, 1-DAY:TCAACTIVE=N"
"3-1, OCI:SEFSS, NEND, AZ, 7, 15-MIN:TCAACTIVE=N"
"3-1, OCI:SEFSS, NEND, AZ, 17, 1-DAY:TCAACTIVE=N"
"3-1, OCI:UASS, NEND, AZ, 2147483647, 15-MIN:TCAACTIVE=N"
"3-1, OCI:UASS, NEND, AZ, 2147483647, 1-DAY:TCAACTIVE=N"
"3-1, OCI:CVS, NEND, ZA, 1772, 15-MIN:TCAACTIVE=N"
"3-1, OCI:CVS, NEND, ZA, 4430, 1-DAY:TCAACTIVE=N"
"3-1, OCI:ESS, NEND, ZA, 346, 15-MIN:TCAACTIVE=N"
"3-1, OCI:ESS, NEND, ZA, 864, 1-DAY:TCAACTIVE=N"
"3-1, OCI:SESS, NEND, ZA, 2, 15-MIN:TCAACTIVE=N"

```

"3-1,OCI:SESS,NEND,ZA,4,1-DAY:TCAACTIVE=N"
 "3-1,OCI:SEFSS,NEND,ZA,7,15-MIN:TCAACTIVE=N"
 "3-1,OCI:SEFSS,NEND,ZA,17,1-DAY:TCAACTIVE=N"
 "3-1,OCI:UASS,NEND,ZA,2147483647,15-MIN:TCAACTIVE=N"
 "3-1,OCI:UASS,NEND,ZA,2147483647,1-DAY:TCAACTIVE=N"

Table 10-131
Monitored type values

Value	Description
Equipment	
OPT-HT	Optical power, transmit high
OPT-LT	Optical power, transmit low
OPR-HT	Optical power, receive high
OPR-LT	Optical power, receive low
Section	
CVS	Coding violation, Section
EBS	Errored blocks, Section
ESS	Errored seconds, Section
OFSS	Out of frame seconds, Section
SESS	Severely errored seconds, Section
SEFSS	Severely errored frame seconds, Section
UASS	Unavailable seconds, Section
Line	
CVL	Coding violation, Line
EBL	Errored blocks, Line
ESL	Errored seconds, Line
SESL	Severely errored seconds, Line
UASL	Unavailable seconds, Line
CV-LFE	Coding violation, Line, Far-end
EB-LFE	Errored blocks, Line, Far-end
ES-LFE	Errored seconds, Line, Far-end
SES-LFE	Severely errored seconds, Line, Far-end
UAS-LFE	Unavailable seconds, Line, Far-end

Table 10-131 (continued)
Monitored type values

Value	Description
Path	
CVP	Coding violation, Path
EBP	Errored blocks, Path
ESP	Errored seconds, Path
SESP	Severely errored seconds, Path
UASP	Unavailable seconds, Path
CV-PFE	Coding violation, Path, Far-end
EB-PFE	Errored blocks, Path, Far-end
ES-PFE	Errored seconds, Path, Far-end
SES-PFE	Severely errored seconds, Path, Far-end
UAS-PFE	Unavailable seconds, Path, Far-end
Non-standard	
CV	Coding violation
ES	Errored seconds
FC	Failure count
SEFS	Severely errored frame seconds
SES	Severely errored seconds
UAS	Unavailable seconds
FEC-CE	Forward Error Correction - Corrected Error
FEC-UF	Forward Error Correction - Uncorrected Frames
Note: For more information, see the chapter “Performance monitoring description” in <i>Software and User Interface</i> , 323-1701-101.	

RTRV-TH-EQPT (retrieve PM threshold EQPT)

Use the RTRV-TH-EQPT command to instruct the network element to send equipment power levels and performance monitoring threshold to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-EQPT: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-132**RTRV-TH-EQPT input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the APBE, OFA, OCI, OCLD, OTR, GFSRM, SRM, MOTR, MOTRSFP	For AID values see Table 1-5 on page 1-14	For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
MONATYPE	Monitored type	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
LOCN	Location	ALL	ALL
TMPER	Time period	Unused	Unused

Example input

Retrieve the OCI equipment performance monitoring threshold:

```
RTRV-TH-EQPT:OM5000-1-44:OCI-3;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype>,<locn>,<dirn>,<thlev>,"
[<tmper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-133
RTRV-TH-EQPT output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the APBE, OFA, OCI, OCLD, OTR, GFSRM, SRM, MOTR, MOTRSFP	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	EQPT	EQPT
MONTYPE	Monitored type	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (float)	Number (float)
TMPER	Time period	Unused	Unused
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```
OM5000-1-44 02-07-20 01:54:54
M 0 COMPLD
"OCI-3-1, EQPT:OPT-HT, NEND, AZ, 7.000000, :TCAACTIVE=N"
"OCI-3-1, EQPT:OPT-LT, NEND, AZ, 5.000000, :TCAACTIVE=N"
"OCI-3-1, EQPT:OPR-HT, NEND, ZA, -2.000000, :TCAACTIVE=N"
"OCI-3-1, EQPT:OPR-LT, NEND, ZA, -13.500000, :TCAACTIVE=N"
;
```

RTRV-TH-GFSRM (retrieve PM threshold GFSRM)

Use the RTRV-TH-GFSRM command to instruct the network element to send the current threshold levels for specified OCI GFSRM facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-GFSRM: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-134**RTRV-TH-GFSRM input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the CV performance monitoring threshold on the OCI GFSRM in slot 7:

```
RTRV-TH-GFSRM: CAMBRIDGE: 7-1: 123:: CV, ALL, ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>] , [<dirn>] , [<thlev>] ,
[<tmper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-135
RTRV-TH-GFSRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the 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
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 .
LOCN	Location	NEND = near-end FEND = far-end	NEND = near-end FEND = far-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (integer)	Number (integer)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```

CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"7-1,GFSRM:CV,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"7-1,GFSRM:CV,NEND,AZ,4430,1-DAY:TCAACTIVE=N"
"7-1,GFSRM:CV,NEND,ZA,1772,15-MIN:TCAACTIVE=N"
"7-1,GFSRM:CV,NEND,ZA,4430,1-DAY:TCAACTIVE=N"

```

RTRV-TH-MOTR (retrieve PM threshold MOTR)

Use the RTRV-TH-MOTR command to instruct the network element to send the current threshold levels for specified MOTR facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-MOTR: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-136**RTRV-TH-MOTR input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the ES performance monitoring threshold on the MOTR in slot 3:

```
RTRV-TH-MOTR: CAMBRIDGE: 3-11:123::ES, ALL, 1-DAY;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>] , [<dirn>] , [<thlev>] ,
[<tmper>]:TCAACTIVE=<tcaactive>";
```

Table 10-137
RTRV-TH-MOTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the 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
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 .
LOCN	Location	NEND = near-end FEND = far-end	NEND = near-end FEND = far-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (integer)	Number (integer)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```
CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"3-11,MOTR:ES,NEND,ZA,864,1-DAY:TCAACTIVE=Y"
;
```

RTRV-TH-MOTRSFP (retrieve PM threshold MOTRSFP)

Use the RTRV-TH-MOTRSFP command to instruct the network element to send the current threshold levels for specified MOTRSFP port facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-MOTRSFP: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-138**RTRV-TH-MOTRSFP input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the SES performance monitoring threshold on MOTRSFP port 1 in slot 3:

```
RTRV-TH-MOTRSFP: CAMBRIDGE: 3-1: 123: : SES, ALL, 1-DAY;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>] , [<dirn>] , [<thlev>] ,
[<tmper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-139
RTRV-TH-MOTRSFP output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the 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
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 .
LOCN	Location	NEND = near-end FEND = far-end	NEND = near-end FEND = far-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (integer)	Number (integer)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```

CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"3-1, MOTRSFP:SES, NEND, ZA, 4, 1, 1-DAY:TCAACTIVE=N"
;
    
```

RTRV-TH-OCI (retrieve PM threshold OCI)

Use the RTRV-TH-OCI command to instruct the network element to send the current threshold levels for specified OCI facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-OCI : [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>] ;
```

Table 10-140
RTRV-TH-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the CVS performance monitoring threshold on the OCI in slot 7:

```
RTRV-TH-OCI : CAMBRIDGE : 7-1 : 123 :: CVS , ALL , ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>,<aidtype>:<montype> , [<locn>] , [<dirn>] , [<thlev>] ,
[<tmper>] :TCAACTIVE=<tcaactive>" ;
```

Table 10-141
RTRV-TH-OCI output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the 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
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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (integer)	Number (integer)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```

CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"7-1,OCI:CVS,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"7-1,OCI:CVS,NEND,AZ,4430,1-DAY:TCAACTIVE=N"
"7-1,OCI:CVS,NEND,ZA,1772,15-MIN:TCAACTIVE=N"
"7-1,OCI:CVS,NEND,ZA,4430,1-DAY:TCAACTIVE=N"

```

RTRV-TH-OCLD (retrieve PM threshold OCLD)

Use the RTRV-TH-OCLD command to instruct the network element to send the current threshold levels for specified OCLD facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-OCLD: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
 [<tmper>] ;
```

Table 10-142**RTRV-TH-OCLD input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 .
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the CVS performance monitoring threshold on the OCLD in slot 7:

```
RTRV-TH-OCLD: CAMBRIDGE: 7-1: 123 :: CVS, ALL, ;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>], [<dirn>], [<thlev>],
 [<timper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-143
RTRV-TH-OCLD output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the 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
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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number (integer)	Number (integer)
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```
CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"7-1, OCLD:CVS,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"7-1, OCLD:CVS,NEND,AZ,4430,1-DAY:TCAACTIVE=N"
"7-1, OCLD:CVS,NEND,ZA,1772,15-MIN:TCAACTIVE=N"
"7-1, OCLD:CVS,NEND,ZA,4430,1-DAY:TCAACTIVE=N"
```

RTRV-TH-OFA (retrieve PM threshold OFA)

Use the RTRV-TH-OFA command to instruct the network element to send the current threshold levels for specified OFA facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-OFA: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-144
RTRV-TH-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
LOCN	Location	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the ES performance monitoring threshold on the OFA in slot 4:

```
RTRV-TH-OFA:CAMBRIDGE:4-1:123::ES,ALL,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>], [<dirn>], [<thlev>],
 [<tmper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-145
RTRV-TH-OFA output syntax definition

Parameter	Description	Possible values (5200)
AID	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17
AIDTYPE	Access identifier type	OFA
MONTYPE	Monitored type	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
LOCN	Location	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive
MONVAL	Monitored value	Number
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA

Example output

```
CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"4-1, OFA:ES,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"4-1, OFA:ES,NEND,AZ,4430,1-DAY:TCAACTIVE=N"
"4-1, OFA:ES,NEND,ZA,1772,15-MIN:TCAACTIVE=N"
"4-1, OFA:ES,NEND,ZA,4430,1-DAY:TCAACTIVE=N"
```

RTRV-TH-OTR (retrieve PM threshold OTR)

Use the RTRV-TH-OTR command to instruct the network element to send the current threshold levels for specified OTR facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-OTR: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-146**RTRV-TH-OTR input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OTR client side 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
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 .
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve the CVS performance monitoring threshold on the OTR in slot 7:

```
RTRV-TH-OTR: CAMBRIDGE:7-1:123::CVS,ALL,;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>], [<dirn>], [<thlev>],
 [<tper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-147
RTRV-TH-OTR output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the OTR client side 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
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 .
LOCN	Location	NEND = near-end	NEND = near-end
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
MONVAL	Monitored value	Number	Number
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```
CAMBRIDGE 01-01-08 21:03:57
M 1 COMPLD
"7-1, OTR:CVS,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"7-1, OTR:CVS,NEND,AZ,4430,1-DAY:TCAACTIVE=N"
"7-1, OTR:CVS,NEND,ZA,1772,15-MIN:TCAACTIVE=N"
"7-1, OTR:CVS,NEND,ZA,4430,1-DAY:TCAACTIVE=N"
```

RTRV-TH-SRM (retrieve PM threshold SRM)

Use the RTRV-TH-SRM command to instruct the network element to send the current threshold levels for specified OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH facility performance monitoring parameters to the current TL1 session.

Security level

Level 1

Input syntax

```
RTRV-TH-SRM: [TID] : [<AID>] : [CTAG] :: [<montype>] , [<locn>] ,
[<tmper>];
```

Table 10-148
RTRV-TH-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
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 . ALL = all applicable values	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 . ALL = all applicable values
LOCN	Location	ALL	ALL
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval

Example input

Retrieve all the performance monitoring data for the SRM OCI circuit pack in slot 13 for the 15-minute bins:

```
RTRV-TH-SRM: :13-1:1:: , ALL, 15-MIN;
```

Output syntax

```
SID DATE TIME
M CTAG COMPLD
"<aid>, <aidtype>:<montype>, [<locn>], [<dirn>], [<thlev>],
 [<timper>]:TCAACTIVE=<tcaactive>" ;
```

Table 10-149
RTRV-TH-SRM output syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
AID	Access identifier for the 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
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 . ALL = all applicable values	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 . ALL = all applicable values
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
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example output

```
OPT-1-1 01-01-08 21:15:15
M 1 COMPLD
"13-1,SRM:CV,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"13-1,SRM:ES,NEND,AZ,346,15-MIN:TCAACTIVE=N"
"13-1,SRM:SES,NEND,AZ,2,15-MIN:TCAACTIVE=N"
"13-1,SRM:SEFS,NEND,AZ,7,15-MIN:TCAACTIVE=N"
"13-1,SRM:CV,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"13-1,SRM:ES,NEND,AZ,346,15-MIN:TCAACTIVE=N"
"13-1,SRM:SES,NEND,AZ,2,15-MIN:TCAACTIVE=N"
"13-1,SRM:CV,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"13-1,SRM:ES,NEND,AZ,346,15-MIN:TCAACTIVE=N"
"13-1,SRM:SES,NEND,AZ,2,15-MIN:TCAACTIVE=N"
"13-1,SRM:CV,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"13-1,SRM:ES,NEND,AZ,346,15-MIN:TCAACTIVE=N"
"13-1,SRM:SES,NEND,AZ,2,15-MIN:TCAACTIVE=N"
"13-1,SRM:CV,NEND,AZ,1772,15-MIN:TCAACTIVE=N"
"13-1,SRM:ES,NEND,AZ,346,15-MIN:TCAACTIVE=N"
"13-1,SRM:SES,NEND,AZ,2,15-MIN:TCAACTIVE=N"
```

SCHED-PMREPT-ALL (schedule performance report ALL)

Use the SCHED-PMREPT-ALL command to instruct the network element to schedule the performance monitoring report for all monitored facilities and equipment.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-ALL: [TID]:<AID>: [CTAG]:: [<reptinvl>],
 [<reptstatm>], [<numrept>], [<montype>], [<monlev>], [<locn>],
 [<dirn>], [<tmper>], [<tmoft>];
```

Table 10-150
SCHED-PMREPT-ALL input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier	ALL = all applicable values or no AID specified	ALL = all applicable values or no AID specified
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-EQPT (schedule performance report equipment)

Use the SCHED-PMREPT-EQPT command to instruct the network element to schedule the performance monitoring report for a monitored equipment.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-EQPT: [TID]:<AID>:[CTAG]:: [<reptinvl>],
 [<reptstatm>], [<numrept>], [<montype>], [<monlev>], [<locn>],
 [<dirn>], [<tmper>], [<tmoft>];
```

Table 10-151
SCHED-PMREPT-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Equipment access identifier	For AID values see Table 1-5 on page 1-14	For AID values see Table 1-5 on page 1-14
CTAG	Correlation tag	Alphanumeric string	Alphanumeric string
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-GFSRM (schedule performance report GFSRM)

Use the SCHED-PMREPT-GFSRM command to instruct the network element to schedule the performance monitoring report for a monitored OCI SRM GbE/FC or OCI SRM GbE facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-GFSRM: [TID] :<AID>: [CTAG] :: [<reptinvl>] ,
 [<reptstatm>] , [<numrept>] , [<montype>] , [<monlev>] , [<locn>] ,
 [<dirn>] , [<timper>] , [<tmofst>];
```

Table 10-152
SCHED-PMREPT-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-MOTR (schedule performance report MOTR)

Use the SCHED-PMREPT-MOTR command to instruct the network element to schedule the performance monitoring report for a monitored MOTR facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-MOTR: [TID] :<AID>: [CTAG] :: [<reptinvl>] ,
 [<reptstatm>] , [<numrept>] , [<montype>] , [<monlev>] , [<locn>] ,
 [<dirn>] , [<tmper>] , [<tmofst>];
```

Table 10-153
SCHED-PMREPT-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-MOTRSFP (schedule performance report MOTRSFP)

Use the SCHED-PMREPT-MOTRSFP command to instruct the network element to schedule the performance monitoring report for a monitored MOTRSFP facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-MOTRSFP: [TID] :<AID>: [CTAG] :: [<reptinvl>] ,
 [<reptstatm>] , [<numrept>] , [<montype>] , [<monlev>] , [<locn>] ,
 [<dirn>] , [<timper>] , [<tmofst>];
```

Table 10-154
SCHED-PMREPT-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-OCI (schedule performance report OCI)

Use the SCHED-PMREPT-OCI command to instruct the network element to schedule the performance monitoring report for a monitored OCI facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-OCI: [TID]:<AID>:[CTAG]:: [<reptinvl>],
 [<reptstatm>], [<numrept>], [<montype>], [<monlev>], [<locn>],
 [<dirn>], [<tmper>], [<tmofst>];
```

Table 10-155
SCHED-PMREPT-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-OCLD (schedule performance report OCLD)

Use the SCHED-PMREPT-OCLD command to instruct the network element to schedule the performance monitoring report for a monitored OCLD facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-OCLD: [TID] : <AID> : [CTAG] :: [<reptinvl>] ,
 [<reptstatm>] , [<numrept>] , [<montype>] , [<monlev>] , [<locn>] ,
 [<dirn>] , [<tmper>] , [<tmofst>];
```

Table 10-156
SCHED-PMREPT-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-OFA (schedule performance report OFA)

Use the SCHED-PMREPT-OFA command to instruct the network element to schedule the performance monitoring report for a monitored OFA facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-OFA: [TID]:<AID>:[CTAG]:: [<reptinvl>],
 [<reptstatm>], [<numrept>], [<montype>], [<monlev>], [<locn>],
 [<dirn>], [<tmper>], [<tmoft>];
```

Table 10-157
SCHED-PMREPT-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
REPTINVL	Reporting interval	15-MIN
REPTSTATM	Reporting start time	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused
MONLEV	Monitored level	Unused
LOCN	Location	Unused
DIRN	Direction	Unused
TMPER	Time period	Unused
TMOFST	Time offset	Unused

SCHED-PMREPT-OTR (schedule performance report OTR)

Use the SCHED-PMREPT-OTR command to instruct the network element to schedule the performance monitoring report for a monitored OTR facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-OTR: [TID]:<AID>:[CTAG]:: [<reptinvl>],
 [<reptstatm>], [<numrept>], [<montype>], [<monlev>], [<locn>],
 [<dirn>], [<tmper>], [<tmoft>];
```

Table 10-158
SCHED-PMREPT-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SCHED-PMREPT-SRM (schedule performance report SRM)

Use the SCHED-PMREPT-SRM command to instruct the network element to schedule the performance monitoring report for a monitored OCI SRM, OCI SRM SONET/SDH or OCI SRM SONET/SDH LTE facility.

Security level

Level 2

Input syntax

```
SCHED-PMREPT-SRM: [TID]:<AID>: [CTAG]:: [<reptinvl>],
 [<reptstatm>], [<numrept>], [<montype>], [<monlev>], [<locn>],
 [<dirn>], [<timper>], [<tmofst>];
```

Table 10-159
SCHED-PMREPT-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
REPTINVL	Reporting interval	15-MIN	15-MIN
REPTSTATM	Reporting start time	Unused	Unused
NUMREPT	Enables and disables PM reporting	0 = Disables PM reporting NULL = Enables PM reporting indefinitely	0 = Disables PM reporting NULL = Enables PM reporting indefinitely
MONTYPE	Monitored type	Unused	Unused
MONLEV	Monitored level	Unused	Unused
LOCN	Location	Unused	Unused
DIRN	Direction	Unused	Unused
TMPER	Time period	Unused	Unused
TMOFST	Time offset	Unused	Unused

SET-PMMODE-GFSRM (set performance monitoring mode GFSRM)

Use the SET-PMMODE-GFSRM command to instruct the network element to set the performance monitoring mode for a monitored OCI SRM GbE/FC or OCI SRM GbE facility.

Security level

Level 2

Input syntax

```
SET-PMMODE-GFSRM: [TID]:<AID>: [CTAG]:: [<locn>], <pmModeType>,
 [<pmState>]: [PATHPP=<pathpp>];
```

Table 10-160
SET-PMMODE-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	8B10BWAN GIGE SONET SDH NIL= disable	8B10BWAN GIGE SONET SDH NIL= disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Unused	Unused

Example input

Set the PM mode as GIGE for the OCI SRM GbE/FC client-side facility port 1 in slot 7:

```
SET-PMMODE-GFSRM:NEWBRUNSWICK:7-1:1234::ALL,GIGE,;;
```

SET-PMMODE-MOTR (set performance monitoring mode MOTR)

Use the SET-PMMODE-MOTR command to instruct the network element to set the performance monitoring mode for a monitored MOTR facility.

Note: At least one channel assignment must be provisioned before using this command.

Security level

Level 2

Input syntax

```
SET-PMMODE-MOTR: [TID] : <AID> : [CTAG] : : [<locn>] , <pmModeType> ,
[<pmState>] : [PATHPP=<pathpp>] ;
```

Table 10-161
SET-PMMODE-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	SONET-DW SDH-DW NIL = disable	SONET-DW SDH-DW NIL = disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Unused	Unused

Example input

Set the PM mode as SDH-DW for the MOTR facility in slot 7:

```
SET-PMMODE-MOTR:NEWBRUNSWICK:7-11:1234::ALL,SDH-DW,:PATHPP=Y;
```

SET-PMMODE-MOTRSFP (set performance monitoring mode MOTRSFP)

Use the SET-PMMODE-MOTRSFP command to instruct the network element to set the performance monitoring mode for a monitored MOTRSFP port facility.

Security level

Level 2

Input syntax

```
SET-PMMODE-MOTRSFP: [TID]:<AID>: [CTAG]:: [<locn>], <pmModeType>,
 [<pmState>]: [PATHPP=<pathpp>];
```

Table 10-162
SET-PMMODE-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	8B10BWAN GIGEWAN NIL = disable	8B10BWAN GIGEWAN NIL = disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Y= Yes N= No	Y= Yes N= No

Example input

Set the PM mode as GIGE for the MOTRSFP facility in slot 7, port 1:

```
SET-PMMODE-MOTRSFP:NEWBRUNSWICK:7-1:1234::ALL,GIGEWAN,:PATHPP=N;
```

SET-PMMODE-OCI (set performance monitoring mode OCI)

Use the SET-PMMODE-OCI command to instruct the network element to set the performance monitoring mode for a monitored OCI facility.

Security level

Level 2

Input syntax

```
SET-PMMODE-OCI : [TID] : <AID> : [CTAG] : : [<locn>] , <pmModeType> ,
[<pmState>] : [PATHPP=<pathpp>] ;
```

Table 10-163
SET-PMMODE-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMMODETYPE	Type of performance monitoring mode	SONET SDH SFC NIL = disable	SONET SDH SFC NIL = disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Unused	Unused

Example input

Set the PM mode as SDH for the OCI facility in slot 7:

```
SET-PMMODE-OCI : NEWBRUNSWICK : 7-1 : 1234 : : ALL , SDH , : PATHPP=N ;
```

SET-PMODE-OCLD (set performance monitoring mode OCLD)

Use the SET-PMODE-OCLD command to instruct the network element to set the performance monitoring mode for a monitored 2.5 Gig Flex OCLD facility.

Security level

Level 2

Input syntax

```
SET-PMODE-OCLD: [TID] : <AID> : [CTAG] : : [<locn>] , <pmModeType> ,
[<pmState>] : [PATHPP=<pathpp>] ;
```

Table 10-164
SET-PMODE-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMODETYPE	Type of performance monitoring mode	SONET SDH 8B10B SFC NIL = disable	SONET SDH 8B10B SFC NIL = disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Unused	Unused

Example input

Set the PM mode as SDH for the OCLD facility in slot 7:

```
SET-PMODE-OCLD:NEWBRUNSWICK:7-1:1234::ALL,SDH;
```

SET-PMMODE-OFA (set performance monitoring mode OFA)

Use the SET-PMMODE-OFA command to instruct the network element to set the performance monitoring mode for a monitored OFA facility.

Security level

Level 2

Input syntax

```
SET-PMMODE-OFA: [TID] : <AID> : [CTAG] :: [<locn>] , <pmModeType> ,
[<pmState>] : [PATHPP=<pathpp>] ;
```

Table 10-165
SET-PMMODE-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier for the OFA facility	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
LOCN	Location	ALL
PMMODETYPE	Type of performance monitoring mode	SFC NIL=disable
PMSTATE	Performance monitoring state	Unused
PATHPP	Path Performance	Unused

Example input

Set the PM mode as SFC for the OFA facility in slot 4:

```
SET-PMMODE-OFA:NEWBRUNSWICK:4-1:1234::ALL,SFC;
```

SET-PMODE-OTR (set performance monitoring mode OTR)

Use the SET-PMODE-OTR command to instruct the network element to set the performance monitoring mode for a monitored OTR facility.

Security level

Level 2

Input syntax

```
SET-PMODE-OTR: [TID] : <AID> : [CTAG] :: [<locn>] , <pmModeType> ,
[<pmState>] : [PATHPP=<pathpp>] ;
```

Table 10-166
SET-PMODE-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMODETYPE	Type of performance monitoring mode	SONET SDH 8B10B SFC LANPHY DW NIL=disable	SONET SDH 8B10B SFC LANPHY DW NIL=disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Unused	Unused

Example input

Set the PM mode as LAN PHY for the OTR facility in slot 6:

```
SET-PMODE-OTR:NEWBRUNSWICK:6-1:1234::,LANPHY;
```

SET-PMODE-SRM (set performance monitoring mode SRM)

Use the SET-PMODE-SRM command to instruct the network element to set the performance monitoring mode for a monitored port on an OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH facility.

Security level

Level 2

Input syntax

```
SET-PMODE-SRM: [TID] : <AID> : [CTAG] : : [<locn>] , <pmModeType> ,
[<pmState>] : [PATHPP=<pathpp>] ;
```

Table 10-167**SET-PMODE-SRM input syntax definition**

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the 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
LOCN	Location	ALL	ALL
PMODETYPE	Type of performance monitoring mode	SONET SDH SFC AGILE NIL = disable	SONET SDH SFC AGILE NIL = disable
PMSTATE	Performance monitoring state	Unused	Unused
PATHPP	Path Performance	Unused	Unused

Example input

Set the PM mode as SONET for the SRM port 3 in slot 7:

```
SET-PMODE-SRM:NEWBRUNSWICK:7-3:1234::ALL,SONET;
```

SET-TCACOND-ALL (set TCA condition all)

Use the SET-TCACOND-ALL command to instruct the network element to set the TCA event reporting condition.

Security level

Level 2

Input syntax

```
SET-TCACOND-ALL: [TID] : [<AID>] : [CTAG] : : <condeff>;
```

Table 10-168
SET-TCACOND-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
CONDEFF	TCA event reporting condition	<p>SC = Standing condition that is active for an extended period of time.</p> <p>SCS = Standing condition summary that is active for an extended period of time.</p> <p>TC = Transient condition that does not change the basic condition of the NE for an extended period of time.</p> <p>TCS = Transient condition summary that does not change the basic period of time.</p>	<p>SC = Standing condition that is active for an extended period of time.</p> <p>SCS = Standing condition summary that is active for an extended period of time.</p> <p>TC = Transient condition that does not change the basic condition of the NE for an extended period of time.</p> <p>TCS = Transient condition summary that does not change the basic period of time.</p>

Example input

```
SET-TCACOND-ALL: NEWBRUNSWICK: : 1234: : SC;
```

SET-TH-EQPT (set PM threshold EQPT)

Use the SET-TH-EQPT command to instruct the network element to set the equipment power levels performance monitoring thresholds. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-EQPT: [TID] : <AID> : [CTAG] : : <montype> , [<thlev>] , [<locn>] ,
<dirn> , [<timper>] : [TCAACTIVE=<tcaactive>] ;
```

Table 10-169
SET-TH-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the APBE, OCI, OCLD, OFA, OTR, SRM, MOTR equipment optical port	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
MONATYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	OPT-HT OPT-LT OPR-HT OPR-LT	OPT-HT OPT-LT OPR-HT OPR-LT
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<float> = set threshold to number specified	0 = disable threshold <float> = set threshold to number specified
LOCN	Location	ALL	ALL

Table 10-169 (continued)
SET-TH-EQPT input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	Unused	Unused
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the equipment threshold for OCLD in slot 2:

```
SET-TH-EQPT:OM5000-1-44:OCLD-2-1:ABC123:OPT-HT,3.900000,
ALL,AZ,TCAACTIVE=Y;
```

SET-TH-GFSRM (set PM threshold GFSRM)

Use the SET-TH-GFSRM command to instruct the network element to set the threshold level for a monitored OCI SRM GbE/FC or OCI SRM GbE facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-GFSRM: [TID]:<AID>: [CTAG]::<montype>, [<thlev>], [<locn>],
<dirn>,<tper>: [TCAACTIVE=<tcaactive>];
```

Table 10-170
SET-TH-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the GFSRM facility The facility to which the threshold applies.	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

Table 10-170 (continued)
SET-TH-GFSRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	For valid MONTYPE values for GFSRM facilities, refer to Table 10-15 .	For valid MONTYPE values for GFSRM facilities, refer to Table 10-15 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	0 = disable threshold <positive integer> = set threshold to number specified
LOCN	Location	ALL	ALL
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line coding violations (CV) at 100 for the 15-minute accumulation time period for the OCI SRM GbE/FC in slot 12:

```
SET-TH-GFSRM:SEATTLE:12-1:123::CV,100,ALL,ZA,15-MIN:TCAACTIVE=Y;
```

SET-TH-MOTR (set PM threshold MOTR)

Use the SET-TH-MOTR command to instruct the network element to set the threshold level for a monitored MOTR facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-MOTR: [TID] : <AID> : [CTAG] : : <montype> , [<thlev>] , [<locn>] ,
<dirn> , <tmper> : [TCAACTIVE=<tcaactive>] ;
```

Table 10-171
SET-TH-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the MOTR facility The facility to which the threshold applies.	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
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	For valid MONTYPE values for MOTR facilities, refer to Table 10-17 .	For valid MONTYPE values for MOTR facilities, refer to Table 10-17 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	0 = disable threshold <positive integer> = set threshold to number specified
LOCN	Location	ALL	ALL

Table 10-171 (continued)
SET-TH-MOTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line errored seconds (ES) at 348 for the 15-minute accumulation time period of the MOTRSFP in port 1 of the MOTR in slot 3:

```
SET-TH-MOTR:SEATTLE:3-1:123::ES,348,ALL,ZA,15-MIN:TCAACTIVE=Y;
```

SET-TH-MOTRSFP (set PM threshold MOTRSFP)

Use the SET-TH-MOTRSFP command to instruct the network element to set the threshold level for a monitored MOTRSFP port facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-MOTRSFP: [TID] :<AID>: [CTAG] ::<montype>, [<thlev>], [<locn>
], <dirn>, <tmper>: [TCAACTIVE=<tcaactive>];
```

Table 10-172
SET-TH-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the MOTRSFP facility The facility to which the threshold applies.	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
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	For valid MONTYPE values for MOTRSFP facilities, refer to Table 10-19 .	For valid MONTYPE values for MOTRSFP facilities, refer to Table 10-19 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	0 = disable threshold <positive integer> = set threshold to number specified
LOCN	Location	ALL	ALL

Table 10-172 (continued)
SET-TH-MOTRSFP input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line ES at 348 for the 15-minute accumulation time period for the MOTRSFP in port 1, slot 3:

```
SET-TH-MOTRSFP:SEATTLE:3-1:123::ES,348,ALL,ZA,15-MIN:TCAACTIVE
=Y;
```

SET-TH-OCI (set PM threshold OCI)

Use the SET-TH-OCI command to instruct the network element to set the threshold level for a monitored OCI facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-OCI: [TID] :<AID>: [CTAG] ::<montype>, [<thlev>], [<locn>],
<dirn>, <tper>: [TCAACTIVE=<tcaactive>];
```

Table 10-173
SET-TH-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OCI facility The facility to which the threshold applies.	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
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	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 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	0 = disable threshold <positive integer> = set threshold to number specified
LOCN	Location	ALL	ALL

Table 10-173 (continued)
SET-TH-OCI input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line coding violations (CVS) at 100 for the 15-minute accumulation time period for the OCI in slot 12:

```
SET-TH-OCI:SEATTLE:12-1:123::CVS,100,ALL,ZA,15-MIN:TCAACTIVE=Y
;
```

SET-TH-OCLD (set PM threshold OCLD)

Use the SET-TH-OCLD command to instruct the network element to set the threshold level for a monitored OCLD facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-OCLD: [TID] : <AID> : [CTAG] : : <montype> , [<thlev>] , [<locn>] ,
<dirn> , <tper> : [TCAACTIVE=<tcaactive>] ;
```

Table 10-174
SET-TH-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier for the OCLD facility The facility to which the threshold applies.	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
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	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 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	0 = disable threshold <positive integer> = set threshold to number specified
LOCN	Location	ALL	ALL

Table 10-174 (continued)
SET-TH-OCLD input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line coding violations (CVS) at 100 for the 15-minute accumulation time period for the OCLD in slot 12:

```
SET-TH-OCLD:SEATTLE:12-1:123::CVS,100,ALL,ZA,15-MIN:TCAACTIVE=Y;
```

SET-TH-OFA (set PM threshold OFA)

Use the SET-TH-OFA command to instruct the network element to set the threshold level for a monitored OFA facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-OFA: [TID] :<AID>: [CTAG] ::<montype>, [<thlev>], [<locn>],
<dirn>, <tper>: [TCAACTIVE=<tcaactive>];
```

Table 10-175
SET-TH-OFA input syntax definition

Parameter	Description	Possible values (5200)
TID	Target identifier	Character string
AID	Access identifier The OFA facility to which the threshold applies.	For AID values see Table 1-6 on page 1-17
CTAG	Correlation tag	Alphanumeric string
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	For valid MONTYPE values for OFA facilities, refer to Table 10-27 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified
LOCN	Location	ALL
DIRN	Direction	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive errored seconds (ES) at 100 for the 15-minute accumulation time period for the OFA in slot 4:

```
SET-TH-OFA:SEATTLE:4-1:123::ES,100,ALL,ZA,15-MIN:TCAACTIVE=Y;
```

SET-TH-OTR (set PM threshold OTR)

Use the SET-TH-OTR command to instruct the network element to set the threshold level for a monitored OTR facility performance parameter. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-OTR: [TID] :<AID>: [CTAG] ::<montype>, [<thlev>], [<locn>],  
<dirn>,<tmper>: [TCAACTIVE=<tcaactive>];
```

Table 10-176
SET-TH-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier The OTR facility to which the threshold applies.	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
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	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 .
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THLEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	<positive integer> = set threshold to number specified

Table 10-176 (continued)
SET-TH-OTR input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	ALL	ALL
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line coding violations (CVS) at 100 for the 15-minute accumulation time period for the OTR in slot 11:

```
SET-TH-OTR:SEATTLE:11-1:123::CVS,100,ALL,ZA,15-MIN:TCAACTIVE=Y
;
```

SET-TH-SRM (set PM threshold SRM)

Use the SET-TH-SRM command to instruct the network element to set the threshold level for a monitored SRM facility performance parameter for an OCI SRM, OCI SRM ESCON, or OCI SRM SONET/SDH facility. When this threshold is met or exceeded, a threshold crossing alert (TCA) is raised.

To set thresholds for multiple performance parameters or time periods, you must enter multiple SET-TH commands.

Security level

Level 2

Input syntax

```
SET-TH-SRM: [TID] :<AID>: [CTAG] ::<montype>, <thlev>, <locn>,
<dirn>, <timper>: [TCAACTIVE=<tcaactive>];
```

Table 10-177
SET-TH-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
TID	Target identifier	Character string	Character string
AID	Access identifier The SRM facility to which the threshold applies.	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
MONTYPE	Monitored type The particular monitored performance parameter for which the threshold level is being set.	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 . ALL = all applicable values	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 . ALL = all applicable values
THLEV	Threshold level The desired threshold level for the monitored performance parameter type. If THELEV is blank, the default threshold will be set.	<positive integer> = set threshold to number specified	<positive integer> = set threshold to number specified

Table 10-177 (continued)
SET-TH-SRM input syntax definition

Parameter	Description	Possible values (5200)	Possible values (5100)
LOCN	Location	ALL	ALL
DIRN	Direction	AZ = transmit ZA = receive	AZ = transmit ZA = receive
TMPER	Time period	1-DAY = daily 15-MIN = 15 minute interval	1-DAY = daily 15-MIN = 15 minute interval
TCAACTIVE	Enables or disables the TCA.	Y = enable TCA N = disable TCA	Y = enable TCA N = disable TCA

Example input

Set the threshold for near-end receive line coding violations (CVS) at 100 for the 15 minute accumulation time period for port 1 of the SONET/SDH SRM OCI facility in slot 13:

SET-TH-SRM:KANSAS:13-1:123::CVS,100,ALL,ZA,15-MIN:TCAACTIVE=Y;

Nortel

Optical Metro 5100/5200

TL1 Interface, Part 2 of 4

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