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91.1 Equipment Status Command Tree

Description

This chapter gives an overview of nodes that are handled by "Equipment Status Commands".

Command Tree

```
----show
    ----equipment
        ----slot
             - (slot)
        ----capab-profile
             - (profilename)
        ----applique
             - (applique)
        ----shelf-summary
             - (shelf)
        ----protection-element
             - (slot-id)
        ----protection-group
             - (prot-group-id)
        ----external-link-host
             - (index)
        ----external-link-remote
             - (exp-slot)
        ----diagnostics
             ----sfp
                 - (position)
             ----sfp-threshold
                 - (position)
        ----rssiprof
             - (index)
        ----temperature
            - (slot)
             - sensor-id
        ----planned-resource
             - (slot)
             - resource-id
        ----transceiver-inventory
             - (index)
        ----isam
        ----rack
            - (rack)
        ----shelf
            - (shelf)
        ----power-supply
             - (psu-num)
```

91.2 Slot Status Command

Command Description

This commands shows the slot status. The following information is shown for each slot:

- type: describes the type of the unit that is currently present in the slot.
- capab-profile: capability profile assigned to the slot, applicable for line boards, NTIOs and mini-NT NRNT-A.
- oper-status: describes whether the unit is able to perform its normal operation.
- error-status: provides the reason why the board is not operational. These values correspond to the alarms generated in case of a failure.
- available-status: provides further information regarding the state of the unit.
- manufacturer: provides an identification of the unit manufacturer.
- inventory-pba: provides the Nokia Printed Board Assembly code of the unit.
- inventory-fpba: provides the Nokia Printed Board Assembly code of the unit which also identifies the boot software.
- inventory-ics: provides the Item Change Status iteration code of the unit.
- inventory-clei: provides the (USA) Common Language Equipment Identification code of the unit.
- serial-no: provides the serial number of the board.
- failed-test: provides identification of the last failing test using four numbers, from MSB to LSB:
 - table number (1 byte)
 - - segment number (1 byte)
 - case number (1 byte)
 - check number (1 byte)

As long as there has been no failing self test, the value of this attribute will be 0.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment slot [(slot)]

Command Parameters

Table 91.2-1 "Slot Status Command" Resource Parameters

Resource Identifier	Type	Description
(slot)	Format:	the physical slot position
	(lt: <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid></eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	nt-a	
	nt-b	
	nt	
	acu : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	bat-a : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	bat-b : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::eqslotid></eqpt::eqslotid></eqpt::shelfid></eqpt::rackid>	

Resource Identifier	Type	Description
	ext-a : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	ext-b : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	ctrl : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	vlt : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::virtualslotid>)</eqpt::virtualslotid>	
	Possible values:	
	- lt : lt-slot	
	- vlt : virtual LT slot (VVPS board can only be planned at	
	NANT-E / FANT-F)	
	- nt-a : nt-a slot	
	- nt-b : nt-b slot	
	- nt : nt slot	
	- ext-a: nt-a slot in an extension shelf	
	- ext-b : nt-b slot in an extension shelf	
	- acu : acu slot	
	- bat-a : bat-a slot	
	- bat-b : bat-b slot	
	- ctrl : ctrl-slot	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::virtualslotid></eqpt::virtualslotid>	
	- the virtual LT slot number	
	Field type <eqpt::eqslotid></eqpt::eqslotid>	
	- the equipment slot number	

Command Output

Table 91.2-2 "Slot Status Command" Display parameters

Specific Information		
name	Type	Description
planned-type	Parameter type: <equipm::brdtype></equipm::brdtype>	A string representing the board
	Data driven field type	that is planned in the slot.
	Possible values are depending on the actual configuration	This element is only shown in
	and software.	detail mode.
	The currently allowed values can be shown with online-help.	
actual-type	Parameter type: <equipm::actboardtype></equipm::actboardtype>	A string representing the board
	Data driven field type	that is actually present in the slot.
	Possible values are depending on the actual configuration	This element is always shown.
	and software.	
	The currently allowed values can be shown with online-help.	
oper-status	Parameter type: <equipm::operstatus></equipm::operstatus>	Specifies whether the plug-in unit
short name: enabled	((enabled yes)	is able to perform its normal
	(disabled no))	operation.
	Possible values:	This element is always shown.
	- enabled :	
	- yes :	
	- disabled :	
	- no :	
error-status	Parameter type: <equipm::opererror></equipm::opererror>	Specifies for what reason the
	(no-error	board is not operational. These
	type-mismatch	values correspond with the
	board-missing	alarms which are generated in

name	Туре	Description
	no-installation	case of a failure.
	no-planned-board	This element is always shown.
	waiting-for-sw	J
	init-boot-failed	
	init-download-failed	
	init-connection-failed	
	configuration-failed	
	board-reset-protection	
	invalid-parameter	
	temperature-alarm	
	tempshutdown	
	defense	
	board-not-licensed	
	· ·	
	sem-power-fail	
	sem-ups-fail	
	incompatible-slot	
	download-ongoing	
	upgrade-via-sby	
	board-shelf-mismatch	
	unknown-error)	
	Possible values:	
	- no-error :	
	- type-mismatch :	
	- board-missing :	
	- no-installation :	
	- no-planned-board :	
	- waiting-for-sw :	
	- init-boot-failed :	
	- init-download-failed :	
	- init-connection-failed:	
	- configuration-failed :	
	- board-reset-protection:	
	- invalid-parameter :	
	- temperature-alarm :	
	- tempshutdown :	
	- defense :	
	- board-not-licensed :	
	- sem-power-fail :	
	- sem-ups-fail :	
	- incompatible-slot :	
	- download-ongoing :	
	- upgrade-via-sby :	
	- board-shelf-mismatch :	
	- unknown-error :	
availability	Parameter type: <equipm::availstatus></equipm::availstatus>	Specifies the state of the board. It
•	(available	is set to available after a
	in-test	successfull selftest of the board
	failed	(if applicable).
	power-off	This element is always shown.
	not-installed	
	offline	
	dependency	
	ext-managed)	
	Possible values:	
	- available :	
	- in-test:	
	- failed :	
	rancu .	

name	Type	Description
	- power-off :	
	- not-installed :	
	- offline :	
	- dependency :	
	- ext-managed :	
alarm-profile	Parameter type: <equipm::alarmprof></equipm::alarmprof>	The name of the customized
•	(none	alarm profile that is allocated to
	name: <printablestring-0-32>)</printablestring-0-32>	the board, if any.
	Possible values:	This element is only shown in
	- none : no profile name to associate	detail mode.
	- name : profile name	
	Field type < Printable String-0-32>	
	- a printable string	
	- length: x<=32	
capab-profile	Parameter type: <equipm::capabilityprofile></equipm::capabilityprofile>	To display the configured profile
capao-prome		
	Data driven field type	of the board.
	Possible values are depending on the actual configuration	This element is only shown in
	and software.	detail mode.
	The currently allowed values can be shown with online-help.	
operational-mode	Parameter type: <equipm::operationalmode></equipm::operationalmode>	To display the configured profile
	(not-set	of the board.
	gpon	This element is only shown in
	xgs	detail mode.
	mpm-gpon-xgs	
	dual-gpon	
	u-ngpon	
	twenty-five-g	
	ng-pon2	
	mpm-gpon-xgpon)	
	Possible values:	
	- not-set : cage mode not-set	
	- gpon : cage mode set to gpon	
	- xgs : cage mode set to xgs	
	- mpm-gpon-xgs : cage mode set to mpm-gpon-xgs	
	- dual-gpon : cage mode set to dual-gpon	
	- u-ngpon : cage mode set to u-ngpon	
	- twenty-five-g: cage mode set to 25g	
	- ng-pon2 : cage mode set to ng-pon2	
_	- mpm-gpon-xgpon : cage mode set to mpm-gpon-xgpon	
manufacturer	Parameter type: <printablestring></printablestring>	Specifies the company of the
	- printable string	board.
		This element is only shown in
		detail mode.
mnemonic	Parameter type: <printablestring></printablestring>	Specifies the name of the board.
	- printable string	This element is only shown in
		detail mode.
pba-code	Parameter type: <printablestring></printablestring>	Specifies the Nokia printed board
•	- printable string	assembly code of the board.
	r	This element is only shown in
		detail mode.
fpba-code	Parameter type: <printablestring></printablestring>	Specifies the Nokia printed board
ipou code	- printable string	assembly code of the board,
	- printable string	which also identifies the boot
		software.
		This element is only shown in
		detail mode.
fpba-ics	Parameter type: <printablestring></printablestring>	Specifies the item change status

name	Type	Description
пашс	- printable string	iteration code of the board.
	- printable string	This element is only shown in
		detail mode.
clei-code	Parameter type: <printablestring></printablestring>	Specifies the common language
cier code	- printable string	equipment identification code of
	printable sams	the board.
		This element is only shown in
		detail mode.
serial-no	Parameter type: <printablestring></printablestring>	Specifies the serial number of the
	- printable string	board.
	1	This element is only shown in
		detail mode.
failed-test	Parameter type: <equipm::octet-4></equipm::octet-4>	Specifies the last failing test.
	- a binary string	This element is only shown in
		detail mode.
lt-restart-time	Parameter type: <equipm::restarttime></equipm::restarttime>	The last restart time. This element
	- the time (yyyy-mm-dd:hour:minutes:secs)	is supported on LTs as well as
	- unit: UTC	NTs.
		This element is only shown in
		detail mode.
lt-restart-cause	Parameter type: <equipm::eqptboardlastrestartcause></equipm::eqptboardlastrestartcause>	the cause of the most recent
	(poweron	restart of the board
	watchdog	This element is only shown in
	cold_reset	detail mode.
	warm_reset	
	hot_reset	
	hot_reload	
	clean_data	
	emergency_build	
	poweron_reset	
	commit_failure	
	timezone_modified	
	other)	
	Possible values:	
	- poweron : restart after power on	
	- watchdog : restart triggered by HW watchdog timeout	
	- cold_reset : HW reset of the board with selftest	
	- warm_reset : HW reset of the board without selftest	
	- hot_reset : operational SW restart without HW reset	
	- hot_reload : operational SW reload and restart without HW	
	reset	
	- clean_data : operational SW triggered HW reset with DB	
	clean	
	- emergency_build : cold reset when error escalation	
	mechanism keeps failing	
	- poweron_reset : operational SW triggered restart as	
	poweron	
	- commit_failure : restart due to new SW package commit	
	failure	
	- timezone_modified : restart reported due to a change in	
	Time Zone offset	
It roctort num	- other : restart due to unknown reason	the number of times the board has
lt-restart-num	Parameter type: <counter> - 32 bit counter</counter>	
short name: restrt-cnt	- 32 on counter	restarted (It is only applicable for LTs)
		This element is always shown.
restart-cnt-per-lt	Parameter type: <counter></counter>	the number of times the board has
restart-ent-per-it	1 arameter type. \Counter>	the number of times the board has

name	Type	Description
	- 32 bit counter	restarted(applicable for LTs and
		Per LT basis, not like Per
		slot(lt-restart-num) counter)
		This element is only shown in
		detail mode.
mgnt-entity-oamipaddr	Parameter type: <ip::v4address></ip::v4address>	an ip address is used to as the
	- IPv4-address	oam ip.
		This element is only shown in
		detail mode.
mgnt-entity-pairnum	Parameter type: <signedinteger></signedinteger>	the paired number on the xvps's
	- a signed integer	shelf.
		This element is only shown in
		detail mode.
dual-host-ip	Parameter type: <ip::v4address></ip::v4address>	the dual host ip address
	- IPv4-address	This element is only shown in
		detail mode.
dual-host-loc	Parameter type: <equipm::dualhost></equipm::dualhost>	the dual host lsm location
	(< Eqpt::MultiRackId> / < Eqpt::MultiShelfId>	This element is only shown in
	none)	detail mode.
	Possible values:	
	- none : no host lsm location	
	Field type <eqpt::multirackid></eqpt::multirackid>	
	- the rack number	
	Field type <eqpt::multishelfid></eqpt::multishelfid>	
1 140 1 4	- the shelf number	T 1' 1 4 40CKD4 6 4
board-40gkr4	Parameter type: <equipm::board40gkr4></equipm::board40gkr4>	To display the 40GKR4 of the
	(inherited	board.
	disable	This element is only shown in detail mode.
	enable) Possible values:	аетан тоае.
	- inherited : enable or disable 40G KR4 of the board is	
	controlled by system level parameter - disable : the board should not work in 40GKR4 no matter	
	the value of system level	
	- enable: the board should work in 40GKR4 no matter the	
	value of system level	
	value of system level	

91.3 Profile Description Command

Command Description

This commands displays the information related to a profile. The following information is shown for each profile:

- profile-id: displays the profile-id associated with a profile name
- description: displays the description of the profile.
- board-type: displays the board type associated with a given profile

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment capab-profile [(profilename)]

Command Parameters

Table 91.3-1 "Profile Description Command" Resource Parameters

Resource Identifier	Type	Description
(profilename)	Format:	the profile name
	Data driven field type	
	Possible values are depending on the actual configuration	
	and software.	
	The currently allowed values can be shown with online-help.	

Command Output

Table 91.3-2 "Profile Description Command" Display parameters

Specific Informa	tion	
name	Туре	Description
profile-id	Parameter type: <asamprofilepointer></asamprofilepointer>	The profile id of the
	- a pointer to a profile or profile index	corresponding profile name.
	- range: [065535]	This element is always shown.
description	Parameter type: <printablestring></printablestring>	Description of the profile
	- printable string	This element is always shown.
board-type	Parameter type: <equipm::profile></equipm::profile>	Description of the profile
	Data driven field type	This element is always shown.
	Possible values are depending on the actual configuration	•
	and software.	
	The currently allowed values can be shown with online-help.	

91.4 Applique Status Command

Command Description

This command shows the applique status. The following information is shown for each applique slot:

- type: provides the type of the applique that is currently present in the slot.
- oper-status: describes whether the applique is able to perform its normal operation.
- error-status: describes the reason why the applique is not operational. These values correspond to the alarms generated in case of a failure.
- available-status: provides further information regarding the state of the applique.
- manufacturer: provides an identification of the applique manufacturer.
- inventory-pba: provides the Nokia Printed Board Assembly code of the applique.
- inventory-fpba: provides the Nokia Printed Board Assembly code of the applique which also identifies the boot software.
- inventory-ics: provides the Item Change Status iteration code of the applique.
- inventory-clei: provides the (USA) Common Language Equipment Identification code of the applique.
- *serial-no: provides the serial number of the applique.*
- failed-test: provides the identification of the last failing test using four numbers, from MSB to LSB:
 - table number (1 byte)
 - - segment number (1 byte)
 - case number (1 byte)
 - - check number (1 byte)

As long as there has been no failing self test, the value of this attribute will be 0.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment applique [(applique)]

Command Parameters

Table 91.4-1 "Applique Status Command" Resource Parameters

Resource Identifier	Type	Description
(applique)	Format:	the physical applique position
	(iont : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::appliqueslotid></eqpt::appliqueslotid>	
	lp : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::ltappliqueslotid></eqpt::ltappliqueslotid>	
	ntio-1	
	ntio-2)	
	Possible values:	
	- iont : an nt applique slot	

Resource Identifier	Type	Description
	- lp : an lt applique slot	
	- ntio-1 : an nt applique slot in a single or multiple-ntio-shelf	
	- ntio-2 : an nt applique slot in a multiple-ntio-shelf	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::appliqueslotid></eqpt::appliqueslotid>	
	- the applique slot number	
	Field type <eqpt::ltappliqueslotid></eqpt::ltappliqueslotid>	
	- the LT Applique slot number	

Command Output

Table 91.4-2 "Applique Status Command" Display parameters

Specific Information	Specific Information			
name	Type	Description		
planned-type	Parameter type: <equipm::appliquetype></equipm::appliquetype>	A string representing the board		
	Data driven field type	that is planned in the slot.		
	Possible values are depending on the actual configuration	This element is only shown in		
	and software.	detail mode.		
	The currently allowed values can be shown with online-help.			
actual-type	Parameter type: <equipm::appliquetype></equipm::appliquetype>	A string representing the board		
	Data driven field type	that is actually present in the slot.		
	Possible values are depending on the actual configuration	This element is always shown.		
	and software.			
	The currently allowed values can be shown with online-help.			
oper-status	Parameter type: <equipm::operstatus></equipm::operstatus>	Specifies whether the plug-in unit		
short name: enabled	((enabled yes)	is able to perform its normal		
	(disabled no))	operation.		
	Possible values:	This element is always shown.		
	- enabled :			
	- yes :			
	- disabled :			
	- no :			
error-status	Parameter type: <equipm::opererror></equipm::opererror>	Specifies for what reason the		
	(no-error	board is not operational. These		
	type-mismatch	values correspond with the		
	board-missing	alarms which are generated in		
	no-installation	case of a failure.		
	no-planned-board	This element is always shown.		
	waiting-for-sw			
	init-boot-failed			
	init-download-failed			
	init-connection-failed			
	configuration-failed			
	board-reset-protection			
	invalid-parameter			
	temperature-alarm			
	tempshutdown			
	defense			
	board-not-licensed			
	sem-power-fail			
	sem-ups-fail			
	incompatible-slot			
	download-ongoing			

name	Type	Description
	upgrade-via-sby	
	board-shelf-mismatch	
	unknown-error)	
	Possible values:	
	- no-error :	
	- type-mismatch :	
	- board-missing :	
	- no-installation :	
	- no-planned-board :	
	- waiting-for-sw :	
	- init-boot-failed :	
	- init-download-failed :	
	- init-connection-failed:	
	- configuration-failed :	
	- board-reset-protection:	
	- invalid-parameter :	
	- temperature-alarm :	
	- tempshutdown :	
	- defense :	
	- board-not-licensed :	
	- sem-power-fail :	
	- sem-ups-fail :	
	- incompatible-slot :	
	- download-ongoing :	
	- upgrade-via-sby :	
	- board-shelf-mismatch:	
	- unknown-error :	
availability	Parameter type: <equipm::availstatus></equipm::availstatus>	Specifies the state of the board. It
	(available	is set to available after a
	in-test	successfull selftest of the board
	failed	(if applicable).
	power-off	This element is always shown.
	not-installed	
	offline	
	dependency	
	ext-managed)	
	Possible values:	
	- available :	
	- in-test :	
	- failed :	
	- power-off :	
	- not-installed :	
	- offline :	
	- dependency :	
	- ext-managed :	
manufacturer	Parameter type: <printablestring></printablestring>	Specifies the company of the
	- printable string	board.
		This element is only shown in
		detail mode.
mnemonic	Parameter type: <printablestring></printablestring>	Specifies the name of the board.
•	- printable string	This element is only shown in
	1 6	detail mode.
pba-code	Parameter type: <printablestring></printablestring>	Specifies the Nokia Printed
r	- printable string	Board Assembly code of the
	pg	board.
		This element is only shown in
		detail mode.
		wordt model

name	Type	Description
fpba-code	Parameter type: <printablestring> - printable string</printablestring>	Specifies the Nokia Printed Board Assembly code of the board, which also identifies the boot software.
		This element is only shown in detail mode.
fpba-ics	Parameter type: <printablestring> - printable string</printablestring>	Specifies the item change status iteration code of the board. This element is only shown in detail mode.
clei-code	Parameter type: <printablestring> - printable string</printablestring>	Specifies the common language equipment identification code of the board. This element is only shown in detail mode.
serial-no	Parameter type: <printablestring> - printable string</printablestring>	Specifies the serial number of the board. This element is only shown in detail mode.
failed-test	Parameter type: <equipm::octet-4> - a binary string</equipm::octet-4>	Specifies the last failing test. This element is only shown in detail mode.

91.5 Shelf Summary Status Command

Command Description

This commands shows a summary of the slots in a shelf.

The least significant bit of the first byte shown corresponds to the slot position 1.

User Level

none

Command Syntax

The command has the following syntax:

> show equipment shelf-summary [(shelf)]

Command Parameters

Table 91.5-1 "Shelf Summary Status Command" Resource Parameters

Resource Identifier	Type	Description
(shelf)	Format:	the physical shelf position
	<eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	!

Command Output

Table 91.5-2 "Shelf Summary Status Command" Display parameters

Specific Information	Specific Information		
name	Type	Description	
changes	Parameter type: <counter></counter>	Number of configuration or status	
	- 32 bit counter	changes for slots/boards within	
		this shelf.	
		This element is always shown.	
occupied-slots	Parameter type: <equipm::octet-8></equipm::octet-8>	Specifies the occupation of slots.	
	- a binary string	This element is only shown in	
	- length: 8	detail mode.	
admin-unlocked	Parameter type: <equipm::octet-8></equipm::octet-8>	Specifies the administrative state	
	- a binary string	of the boards whether it is locked	
	- length: 8	or not.	
		This element is only shown in	
		detail mode.	
oper-unlocked	Parameter type: <equipm::octet-8></equipm::octet-8>	Specifies the operational state of	
	- a binary string	the boards whether it is locked or	

name	Type	Description
	- length: 8	not.
		This element is only shown in
		detail mode.
avail-boards	Parameter type: <equipm::octet-8></equipm::octet-8>	Specifies the availability state of
	- a binary string	the boards whether it is available
	- length: 8	or not.
		This element is only shown in
		detail mode.
mismatches	Parameter type: <equipm::octet-8></equipm::octet-8>	Specifies any mismatch between
	- a binary string	the actual board-type and the
	- length: 8	planned board-type.
		This element is always shown.
alarms	Parameter type: <equipm::octet-8></equipm::octet-8>	Specifies the boards which
	- a binary string	generated an alarm.
	- length: 8	This element is always shown.

91.6 Protection Element Status Command

Command Description

This command shows the protected element-related parameter of the equipment.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment protection-element [(slot-id)]

Command Parameters

Table 91.6-1 "Protection Element Status Command" Resource Parameters

Resource Identifier	Type	Description
(slot-id)	Format:	Index in eqpt Prot Element Table
	(lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid></eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	nt-a	
	nt-b	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::eqslotid></eqpt::eqslotid></eqpt::shelfid></eqpt::rackid>	
	vlt : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::virtualslotid>)</eqpt::virtualslotid>	
	Possible values:	
	- lt : lt-slot	
	- vlt : virtual LT slot (VVPS board can only be planned at	
	NANT-E / FANT-F)	
	- nt-a : nt-a slot	
	- nt-b : nt-b slot	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::virtualslotid></eqpt::virtualslotid>	
	- the virtual LT slot number	
	Field type <eqpt::eqslotid></eqpt::eqslotid>	
	- the equipment slot number	

Command Output

Table 91.6-2 "Protection Element Status Command" Display parameters

Specific Information

name	Type	Description
standby-status	Parameter type: <equipm::protelementstandbystatus></equipm::protelementstandbystatus>	The standby status of the
3	(providing-service	protection group element.
	hot-standby	This element is always shown.
	cold-standby	,
	idle)	
	Possible values:	
	- providing-service : providing services	
	- hot-standby : hot standby	
	- cold-standby : cold standby	
	- idle : idle	
group-id	Parameter type: <equipm::protgroupid></equipm::protgroupid>	The belonged group id of
	- index of protection group	protection element.
	- range: [1109]	This element is always shown.
redcy-ctrl-status	Parameter type: <equipm::protelementredcyctrlstatus></equipm::protelementredcyctrlstatus>	the redcy ctrl status of the
,	(normal	protection group element.
	forced_active)	This element is always shown.
	Possible values:	
	- normal : enables redundancy (active or standby)	
	- forced_active : forces the element to be active	
stdby-stat-chg-reason	Parameter type:	reason why the standby-status of
short name:	<equipm::protelementstandbystatuschgreason></equipm::protelementstandbystatuschgreason>	the protection-group is changed
stdby-chg-reas	(none	This element is always shown.
,	prot-grp-lckd	
	forced-active	
	(peernt-link-unav lk-unav)	
	peer-lckd	
	peer-not-plan	
	peer-not-plugin	
	db-not-sync	
	shub-not-sync	
	shub-sdkfail	
	shub-recov-sdkfail	
	shub-hwfail	
	shub-dyn-syncfail	
	shub-stat-syncfail	
	shub-peer-commfail	
	(shub-failure shub-fail)	
	(lk-grp-notavail lk-grp-ntav)	
	lt-not-enabled	
	(shub-higig-failure shub-higig-fail)	
	(shub-discovery-failure shub-disc-fail)	
	(shub-reconcile-failure shub-recon-fail)	
	(dpoe-application-fail dpoe-app-fail)	
	(dpoe-communicate-fail dpoe-comm-fail)	
	(dpoe-synchronize-fail dpoe-sync-fail)	
	(dpoe-unreachable dpoe-unrchble))	
	Possible values:	
	- none : standby state is hot standby or not applicable	
	(default value)	
	- prot-grp-lckd : redundancy not enabled	
	- forced-active : active board is put to forced active	
	- peernt-link-unav : standby NT link not available	
	- lk-unav : standby NT link not available	
	- peer-lckd : standby board locked	
	- peer-not-plan : standby board not planned	
	- peer-not-plugin : standby board not plugged in	

name	Type	Description
	- shub-not-sync : shub data not synchronized	
	- shub-sdkfail : stdby shub detected non-recov sdk failure	
	- shub-recov-sdkfail : stdby shub detected recov sdk failure	
	- shub-hwfail : stdby shub detected hw failure	
	- shub-dyn-syncfail : shub dynamic data not synchronized	
	- shub-stat-syncfail : shub static data not synchronized	
	- shub-peer-commfail : stdby shub lost communication with	
	active shub	
	- shub-failure : stdby shub not alive	
	- shub-fail : stdby shub not alive	
	- lk-grp-notavail : link group not available	
	- lk-grp-ntav : link group not available	
	- lt-not-enabled : LT not enabled in case of LT redundancy	
	- shub-higig-failure : shub HiGig failure	
	- shub-higig-fail : shub HiGig failure	
	- shub-discovery-failure: shub unable to discover its peer	
	- shub-disc-fail : shub unable to discover its peer	
	- shub-reconcile-failure: shub unable to synchronise with	
	peer	
	- shub-recon-fail : shub unable to synchronise with peer	
	- dpoe-application-fail : dpoe has detected application failure	
	- dpoe-app-fail : dpoe has detected application failure	
	- dpoe-communicate-fail : dpoe has lost communication with	
	active dpoe	
	- dpoe-comm-fail : dpoe has lost communication with active	
	dpoe	
	- dpoe-synchronize-fail : dpoe unable to synchronise with	
	peer	
	- dpoe-sync-fail : dpoe unable to synchronise with peer	
	- dpoe-unreachable : dpoe is unreachable	
	- dpoe-unrchble : dpoe is unreachable	

91.7 Protection Group Status Command

Command Description

This command shows the parameters related to protection groups.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment protection-group [(prot-group-id)]

Command Parameters

Table 91.7-1 "Protection Group Status Command" Resource Parameters

Resource Identifier	Type	Description
(prot-group-id)	Format:	Index in eqpt Prot Group Table
	- a signed integer	

Command Output

Table 91.7-2 "Protection Group Status Command" Display parameters

Specific Information		
name	Type	Description
admin-status	Parameter type: <equipm::portgroupadminstatus></equipm::portgroupadminstatus>	distinguishes the
	(unlock	administration-status
	lock)	This element is always shown.
	Possible values:	
	- unlock : unlock	
	- lock : lock	
service-status	Parameter type: <equipm::servicestatus></equipm::servicestatus>	indicate the service status of
	(in-service	protection group, a protection
	not-in-service)	group and its elements are not
	Possible values:	configurable when it is out of
	- in-service : the protection group is in service	service
	- not-in-service : the protection group is not in service	This element is always shown.
eps-quenchfactor	Parameter type: <equipm::timeticks></equipm::timeticks>	timervalue of quenching
	- timer value for quench mechanish	mechanism, 0 is valid value
	- unit: 1/100 sec	This element is only shown in
		detail mode.
prot-group-type	Parameter type: <equipm::portgrouptype></equipm::portgrouptype>	distinguishes between 1+1 and
	(one-plus-one	1:N protection groups
	one-for-n)	This element is always shown.

name	Type	Description
	Possible values:	
	- one-plus-one : one to one	
	- one-for-n : one to many	
prot-changes	Parameter type: <counter></counter>	wrap around counter which
	- 32 bit counter	indicates the number of status
		changes in this protection group
		as well as the status changes for
		the protecting elements within
		this group
		This element is only shown in
•. •		detail mode.
switchover-count	Parameter type: <counter></counter>	wrap around counter for the
	- 32 bit counter	number of switchovers being
		performed
		This element is only shown in
		detail mode.
last-switchover-reason	Parameter type: <equipm::switchoverreason></equipm::switchoverreason>	contains the reason of the last
	(no-switch-over	switch over
	forced-active	This element is only shown in
	board-not-present	detail mode.
	extender-chain-failure	
	link-failure	
	watchdog-timeout	
	file-system-corrupt	
	configuration-mismatch	
	board-unplanned	
	board-locked shelf-defense	
	· ·	
	revertive-switchover	
	shub-pollfailure shub-hwfailure	
	shub-sdkfailure	
	dpoe-appfailure dpoe-unreachable	
	forced-switchover)	
	Possible values:	
	- no-switch-over : no switch over has been performed yet	
	- forced-active : chain A is forced	
	- board-not-present : board is removed or not reachable	
	- extender-chain-failure: extender chain failure	
	- link-failure : link failure	
	- watchdog-timeout : redundancy watchdog	
	- file-system-corrupt: curruption of file system	
	- configuration-mismatch: mismatch in boardType or	
	Swyersion	
	- board-unplanned : board has been unplanned	
	- board-locked : board has been locked	
	- shelf-defense : shelf-error detected by defense	
	- revertive-switchover: switchover because protected board	
	is operational again (in case of 1:N)	
	- shub-pollfailure : shub failure	
	- shub-hwfailure : active shub detected a hw failure	
	- shub-sdkfailure : active shub detected a sdk failure	
	- dpoe-appfailure : active dpoe detected application failure	
	- dpoe-unreachable : active dpoe is not reachable	
	- forced-switchover : forced switchover by user	

name	Type	Description
	(no-alarm	defect at all, bit 1 : if bit set, loss
	stand-by-degrd)	of switch-over capabilities alarm
	Possible values:	is set (excludes bit 0 setting),bit 2
	- no-alarm : no-alarm	31 : reserved for future
	- stand-by-degrd: standby degradation alarm	extensions
		This element is only shown in
		detail mode.
oper-prot-element	Parameter type: <signedinteger></signedinteger>	only supported for 1:N protection
	- a signed integer	groups, indicates which element is
		currently protected by the spare
		element, value 0 means that
		currently the spare element is not
		protecting any element
		This element is only shown in
		detail mode.

91.8 External-link-host Status Commands

Command Description

This command allows the operator to show the host shelf's external-links status. The following information is shown for each external-link:

- The SHub/IHub port which the host external link is connected to
- The downlink status
- The slot id of the expansion shelf that is cabled to the host expansion board.
- The output "none" for the display parameter "exp-slot" means the sfp is not connected to any rack/shelf/slot.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment external-link-host [(index)]

Command Parameters

Table 91.8-1 "External-link-host Status Commands" Resource Parameters

Resource Identifier	Туре	Des	scription				
(index)	Format:	the	physical	sfp	or	xfp	cage
	(<eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	posi	ition				
	nt : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>						
	nt : xfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>						
	lt : <eqpt::hostrackid> / <eqpt::hostshelfid> /</eqpt::hostshelfid></eqpt::hostrackid>						
	<eqpt::ltextslotid> / <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype></eqpt::ltextslotid>						
	ntio-1 : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>						
	ntio-1 : xfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>						
	ntio-2 : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>						
	ntio-2 : xfp : <eqpt::extsfpfaceplatetype>)</eqpt::extsfpfaceplatetype>						
	Possible values:						
	- nt : active nt slot						
	- lt : lt-slot						
	- ntio-1 : an nt applique slot in a single or multiple-ntio-shelf						
	- ntio-2 : an nt applique slot in a multiple-ntio-shelf						
	Field type <eqpt::hostrackid></eqpt::hostrackid>						
	- the rack number						
	Field type <eqpt::hostshelfid></eqpt::hostshelfid>						
	- the shelf number						
	Field type <eqpt::ltextslotid></eqpt::ltextslotid>						
	- the LT slot number						
	Possible values:						
	- sfp : SFP port						
	- xfp : XFP port						

Resource Identifier	Type	Description
	Field type <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	
	- The faceplate on which remote LT is connected	

Command Output

Table 91.8-2 "External-link-host Status Commands" Display parameters

Specific Information	on .	
name	Туре	Description
shub-port	Parameter type: <equipm::lanxportnumber> - a signed integer</equipm::lanxportnumber>	the shub port which the host external link is connected to <i>This element is always shown.</i>
downlink-status	Parameter type: <equipm::hostsfpdownlinkstatus> (ok sfp-not-present los tx-fail invalid-nokia-id unknown sfp-control-fail uplink tx-fail-and-los) Possible values: - ok : the downlink is operational - sfp-not-present : no sfp present for the downlink - los : los is detected by the host for the downlink - tx-fail : the downlink tx failed - invalid-nokia-id : the downlink sfp plugged does not have a valid nokia id - unknown : the host expansion card is planned but not inserted - sfp-control-fail : sfp not responding or i2c failure - uplink : the sfp is configured as uplink - tx-fail-and-los : the downlink tx failed and los detected by</equipm::hostsfpdownlinkstatus>	the host expansion card's external downlink status This element is always shown.
exp-slot	the host for the downlink Parameter type: <equipm::expansionslotindex> <eqpt::exprack> / <eqpt::expshelf> / <eqpt::expslot> Field type <eqpt::exprack> - the physical number of the expansion rack, 0 stands for no remote Field type <eqpt::expshelf> - physical nbr of expansion shelf within expansion rack, 0 stands for no remote Field type <eqpt::expslot> - the physical number of the slot within expansion shelf, 0 stands for no remote</eqpt::expslot></eqpt::expshelf></eqpt::exprack></eqpt::expslot></eqpt::expshelf></eqpt::exprack></equipm::expansionslotindex>	the slot id of the expansion shelf that is cabled to the host expansion board This element is always shown.
host-sfp-type	Parameter type: <equipm::sfptype> (unknown 1000base-sx 1000base-lx 1000base-cx 1000base-t 100base-t 100base-tx/lx10 100base-fx base-bx10 base-px reserved</equipm::sfptype>	the host shelf sfp type This element is only shown in detail mode.

name	Type	Description
<u> </u>	10gbase-ew	
	10gbase-lw	
	10gbase-sw	
	10gbase-lrm	
	10gbase-er	
	10gbase-lr	
	10gbase-sr	
	10gbase-sr-sw	
	10gbase-sr-lw	
	10gbase-sr-ew	
	10gbase-lr-sw	
	10gbase-lr-lw	
	10gbase-lr-ew	
	10gbase-er-sw	
	10gbase-er-lw	
	10gbase-er-ew	
	10gbase-lrm-sw	
	10gbase-lrm-lw	
	10gbase-lrm-ew	
	2500base-sx	
	2500base-sx 2500base-lx	
	2500base-bx)	
	Possible values:	
	- unknown : the sfp ethernet type is not known	
	- 1000base-sx: gigabit ethernet compliance code	
	- 1000base-lx: gigabit ethernet compliance code	
	- 1000base-cx : gigabit ethernet compliance code	
	- 1000base-t: gigabit ethernet compliance code	
	- 100base-lx/lx10 : gigabit ethernet compliance code	
	- 100base-fx : gigabit ethernet compliance code	
	- base-bx10 : gigabit ethernet compliance code	
	- base-px : gigabit ethernet compliance code	
	- reserved : reserved bit 8	
	- 10gbase-ew: 10 gigabit ethernet compliance code	
	- 10gbase-lw: 10 gigabit ethernet compliance code	
	- 10gbase-sw: 10 gigabit ethernet compliance code	
	- 10gbase-lrm: 10 gigabit ethernet compliance code	
	- 10gbase-er: 10 gigabit ethernet compliance code	
	- 10gbase-lr: 10 gigabit ethernet compliance code	
	- 10gbase-sr: 10 gigabit ethernet compliance code	
	- 10gbase-sr-sw : 10 gigabit ethernet compliance code	
	- 10gbase-sr-lw: 10 gigabit ethernet compliance code	
	- 10gbase-sr-ew : 10 gigabit ethernet compliance code	
	- 10gbase-lr-sw : 10 gigabit ethernet compliance code	
	- 10gbase-lr-lw : 10 gigabit ethernet compliance code	
	- 10gbase-lr-ew : 10 gigabit ethernet compliance code	
	- 10gbase-er-sw : 10 gigabit ethernet compliance code	
	- 10gbase-er-lw: 10 gigabit ethernet compliance code	
	- 10gbase-er-ew : 10 gigabit ethernet compliance code	
	- 10gbase-lrm-sw : 10 gigabit ethernet compliance code	
	- 10gbase-lrm-lw : 10 gigabit ethernet compliance code	
	- 10gbase-lrm-ew: 10 gigabit ethernet compliance code	
	- 2500base-sx : gigabit ethernet compliance code	
	- 2500base-lx: gigabit ethernet compliance code	
1.11	- 2500base-bx : gigabit ethernet compliance code	
cabling-status	Parameter type: <equipm::sfpcablemismatch></equipm::sfpcablemismatch>	the host shelf cabling mismatch

name	Type	Description
	unexpected-lt	
	assign-mismatch	
	incompat-shelf)	
	Possible values:	
	- no-mismatch : no cabling mismatch is detected	
	- unexpected-lt : remote LT is detected at an unassigned	
	downlink SFP port	
	- assign-mismatch : the detected remote LT does not match	
	the LT assigned to this host SFP	
	- incompat-shelf: the detected remote shelf does not match	
	the shelf type assigned to this host SFP	
phy-address	Parameter type: <ip::physicaladdress></ip::physicaladdress>	the physical address of the
	- media dependent physical address	remote interface cabled to host
	- length: 8	shelf SFP
		This element is only shown in
		detail mode.

91.9 External-link-remote Status Commands

Command Description

This command allows the operator to show the remote shelves external-links status. The following information is shown for each external-link:

- The slot id of the expansion shelf
- The link status
- The faceplate number of the host external-link device in which the expansion shelf's external-link device is cabled to

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment external-link-remote [(exp-slot)]

Command Parameters

Table 91.9-1 "External-link-remote Status Commands" Resource Parameters

Resource Identifier	Type	Description		
(exp-slot)	Format:	the physical	expansion	slot
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::expslotid></eqpt::expslotid></eqpt::shelfid></eqpt::rackid>	position		
	Field type <eqpt::rackid></eqpt::rackid>			
	- the rack number			
	Field type <eqpt::shelfid></eqpt::shelfid>			
	- the shelf number			
	Field type <eqpt::expslotid></eqpt::expslotid>			
	- the expansion slot number			

Command Output

Table 91.9-2 "External-link-remote Status Commands" Display parameters

Specific Inform	ation	
name	Type	Description
sfp-status	Parameter type: <equipm::expsfpstatus></equipm::expsfpstatus>	the status of the expansion shelf
	(ok	sfp
	sfp-not-present	This element is always shown.
	los	
	tx-fail	
	invalid-nokia-id	
	unknown	
	sfp-control-fail	

name	Туре	Description
	tx-fail-and-los)	- Court produ
	Possible values:	
	- ok : the expansion shelf SFP is operational	
	- sfp-not-present : no sfp present	
	- los : los is detected by the expansion shelf sfp	
	- tx-fail: the expansion shelf tx failed	
	- invalid-nokia-id: the expansion shelf sfp plugged does not	
	have a valid nokia id	
	- unknown : the status is not available or cannot be retrieved	
	- sfp-control-fail : sfp not responding or i2c failure	
	- tx-fail-and-los : the expansion shelf tx failed and los	
	detected by the expansion shelf sfp	
host-sfp-faceplate-nbr	Parameter type:	the faceplate number of the host
nost-sip-raceplate-noi	<pre><pre><pre></pre></pre><pre></pre><pre></pre><pre></pre><pre><pre><pre><pre><pre><pre><pre><</pre></pre></pre></pre></pre></pre></pre></pre>	shelf external-link device which
	(<eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	the expansion shelf external-link
	nt : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	device is cabled to
	nt : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	This element is always shown.
	lt : <eqpt::hostrackid> / <eqpt::hostshelfid> /</eqpt::hostshelfid></eqpt::hostrackid>	This element is always shown.
	The seaph::HostRackid> / Eqpt::HostShellid> / Eqpt::LtExtSlotId> / Eqpt::ExtSfpFaceplateType>	
	ntio-1 : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	
	ntio-1 : stp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	
	ntio-1 : xip : <eqpt::extsipfaceplatetype> ntio-2 : sfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype></eqpt::extsipfaceplatetype>	
	ntio-2 : xfp : <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	
	not-cabled) Possible values:	
	- not-cabled : device is not cabled	
	- nt : active nt slot	
	- lt : lt-slot	
	- ntio-1: an nt applique slot in a single or multiple-ntio-shelf	
	- ntio-2: an nt applique slot in a multiple-ntio-shelf	
	Field type <eqpt::hostrackid></eqpt::hostrackid>	
	- the rack number	
	Field type <eqpt::hostshelfid></eqpt::hostshelfid>	
	- the shelf number	
	Field type <eqpt::ltextslotid></eqpt::ltextslotid>	
	- the LT slot number	
	Possible values:	
	- sfp : SFP port	
	- xfp: XFP port	
	Field type <eqpt::extsfpfaceplatetype></eqpt::extsfpfaceplatetype>	
ovn ofn type	- The faceplate on which remote LT is connected	the expansion shalf of type
exp-sfp-type	Parameter type: <equipm::sfptype></equipm::sfptype>	the expansion shelf sfp type
	(unknown	This element is always shown.
	1000base-sx	
	1000base-lx	
	1000base-cx	
	1000base-t	
	100base-lx/lx10	
	100base-fx	
	base-bx10	
	base-px	
	reserved	
	10gbase-ew	
	10gbase-lw	
	10gbase-sw	
	10gbase-lrm	
	10gbase-er	

nomo	Type	Description
name	Type 10gbase-lr	Description
	10gbase-sr	
	10gbase-sr-sw	
	10gbase-sr-lw	
	10gbase-sr-ew	
	10gbase-lr-sw	
	10gbase-lr-lw	
	10gbase-lr-ew	
	10gbase-er-sw	
	10gbase-er-lw	
	10gbase-er-ew	
	10gbase-lrm-sw	
	10gbase-lrm-lw	
	10gbase-lrm-ew	
	2500base-sx	
	2500base-lx	
	2500base-bx)	
	Possible values:	
	- unknown : the sfp ethernet type is not known	
	- 1000base-sx : gigabit ethernet compliance code	
	- 1000base-lx : gigabit ethernet compliance code	
	- 1000base-cx : gigabit ethernet compliance code	
	- 1000base-t : gigabit ethernet compliance code	
	- 100base-lx/lx10 : gigabit ethernet compliance code	
	- 100base-fx : gigabit ethernet compliance code	
	- base-bx10 : gigabit ethernet compliance code	
	- base-px : gigabit ethernet compliance code	
	- reserved : reserved bit 8	
	- 10gbase-ew: 10 gigabit ethernet compliance code	
	- 10gbase-lw: 10 gigabit ethernet compliance code	
	- 10gbase-sw : 10 gigabit ethernet compliance code	
	- 10gbase-lrm : 10 gigabit ethernet compliance code	
	- 10gbase-er : 10 gigabit ethernet compliance code	
	- 10gbase-lr: 10 gigabit ethernet compliance code	
	- 10gbase-sr : 10 gigabit ethernet compliance code	
	- 10gbase-sr-sw : 10 gigabit ethernet compliance code	
	- 10gbase-sr-lw: 10 gigabit ethernet compliance code	
	- 10gbase-sr-ew : 10 gigabit ethernet compliance code	
	- 10gbase-lr-sw: 10 gigabit ethernet compliance code	
	- 10gbase-lr-lw: 10 gigabit ethernet compliance code	
	- 10gbase-lr-ew : 10 gigabit ethernet compliance code	
	- 10gbase-er-sw : 10 gigabit ethernet compliance code	
	- 10gbase-er-lw: 10 gigabit ethernet compliance code	
	- 10gbase-er-ew : 10 gigabit ethernet compliance code	
	- 10gbase-lrm-sw : 10 gigabit ethernet compliance code	
	- 10gbase-lrm-lw: 10 gigabit ethernet compliance code	
	- 10gbase-lrm-ew : 10 gigabit ethernet compliance code	
	- 2500base-sx : gigabit ethernet compliance code	
	- 2500base-lx : gigabit ethernet compliance code	
	- 2500base-bx : gigabit ethernet compliance code	
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91.10 SFP/XFP Diagnostics Status Command

Command Description

This command allows the operator to read real-time diagnostic measurements from the A2 bank of a specified SFP or lower data bank of XFP. The following information is shown for each specified sfp/xfp:

- The slot index of the sfp
- The number of the sfp cage
- The diagnostics availability: For XFP, AO denotes the upper bank and A2 denotes the lower bank.
- The Loss of Signal status
- The Transmit Fault status
- The transmit power (tx-power): This parameter displays the transmit power of the SFP/XFP.It is a string that can be one of the following possible values:
 - A string containing power value ranging from "-40.00 dBm" to "8.16 dBm", in 0.01 dBm increments.
 - "No Power" When no optical power is being transmitted by an sfp.
 - "NotApplicable" This is used for an electrical SFP.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The received power (rx-power): This parameter displays the received power of the SFP/XFP(not applicable for pon ports). It is a string that can be one of the following possible values:
 - A string containing power value ranging from "-40.00 dBm" to "8.16 dBm", in 0.01 dBm increments.
 - "No Power" When no optical power is being received by an sfp.
 - "NotApplicable" This is used for an electrical SFP.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The transmit bias current (tx-bias-current): This parameter displays the transmit bias current of the SFP/XFP. *It is a string that can be one of the following possible values:*
 - A string containing a current value ranging from "0.00 mA" to "262.00 mA", in 0.01 mA increments.
 - "NotApplicable" This is used for an electrical SFP.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The transceiver supply voltage (supply-voltage): This parameter displays the transceiver supply voltage of the SFP/XFP. It is a string that can be one of the following possible values:
 - A string containing a voltage value ranging from "0.00 VDC" to "6.55 VDC", in 0.01 VDC increments.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The temperature: This parameter displays the temperature of the SFP/XFP. It is a string that can be one of the following possible values:
 - A string containing a temperature value ranging from "-128.00 degrees Celsius" to "128.00 degrees Celsius" in 0.01 degrees Celsius increments.
 - "NotAvailable" The measurement could not be obtained.
- temperature-tca: This parameter displays the freshly-measured temperature alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:

 - "not-available" the measurement could not be obtained "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold
- voltage-tca: This parameter displays the freshly-measured voltage alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:

- "not-available" the measurement could not be obtained
- "normal-value" No threshold crossing, present value is within the threshold
- "low-warning-th" Present value is greater than the low warning level threshold
- "low-alarm-th" Present value is greater than the low alarm level threshold
- "high-warning-th" Present value is greater than the high warning level threshold
- "high-alarm-th" Present value is greater than the high alarm level threshold
- tx-power-tca: This parameter displays the freshly-measured tx-power alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold
- bias-current-tca: This parameter displays the freshly-measured bias-current alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold
- rx-power-tca: This parameter displays the freshly-measured rx-power alarm/warning threshold crossing status of the specified SFP/SFP+/XFP(not applicable for pon ports). It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment diagnostics sfp [(position)]

Command Parameters

Table 91.10-1 "SFP/XFP Diagnostics Status Command" Resource Parameters

Resource Identifier	Type		Description				
(position)	Format:		the physical	sfp	or	xfp	cage
	(acu : <eqpt::rackid> / <eqpt::shelfid> <eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::shelfid></eqpt::rackid>	/	position				
	iont : <eqpt::rackid> / <eqpt::shelfid> <eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::shelfid></eqpt::rackid>	/					

remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : qsfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : qsfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : cfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp1 : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp2 : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp2 : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp2 : <eqpt::sfpcagenumber> remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp2 : <eqpt::sfpcagenumber> remote-sfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::sfpcagenumber> remote-sfp : <eqpt::sfpcagenumber> nt : sfp : <eqpt::sfpcagenumber> nt : sfp1 : <eqpt::sfpcagenumber> nt : sfp2 : <eqpt::sfpcagenumber> nt : <eqpt::rackld> / <eqpt::shelfld> / <eqpt::slotld> : <eqpt::slotld> : <eqpt::slotld> : <eqpt::slotld> : <eqpt::sfpcagenumber> nt : <eqpt::rackld> / <eqpt::shelfld> / <eqpt::slotld> : <eqpt::slotld> : <eqpt::sfpcagenumber> nt : <eqpt::sfpcagenumber> nt : <eqpt::sfpcagenumber> st : <eqpt::shelfld> / <eqpt::shelfld> / <eqpt::slotld> : <eqpt::shelfld> / <eqpt::sh< th=""><th></th></eqpt::sh<></eqpt::shelfld></eqpt::slotld></eqpt::shelfld></eqpt::shelfld></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::slotld></eqpt::slotld></eqpt::shelfld></eqpt::rackld></eqpt::sfpcagenumber></eqpt::slotld></eqpt::slotld></eqpt::slotld></eqpt::slotld></eqpt::shelfld></eqpt::rackld></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack></eqpt::sfpcagenumber></eqpt::expshelf></eqpt::exprack>	
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Resource Identifier	Type	Description
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	nt-a : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a:sfp2: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp2 : <eqpt::sfpcagenumber>)</eqpt::sfpcagenumber>	
	Possible values:	
	- acu : acu slot	
	- iont : an nt applique slot	
	- remote-sfp : remote sfp	
	- nt : active nt slot	
	- lt : lt-slot	
	- ntio-1 : an nt applique slot in a single or multiple-ntio-shelf	
	- ntio-2 : an nt applique slot in a multiple-ntio-shelf	
	- nt-a : nt-a slot	
	- nt-b : nt-b slot	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::exprack></eqpt::exprack>	
	- the physical number of the expansion rack, 0 stands for no	
	remote	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::expshelf></eqpt::expshelf>	
	- physical nbr of expansion shelf within expansion rack, 0	
	stands for no remote	
	Field type <eqpt::eqslotid></eqpt::eqslotid>	
	- the equipment slot number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Possible values:	
	- sfp : SFP port	
	- xfp : XFP port	
	- qsfp : QSFP port	
	- cfp : CFP4 port	
	- sfp1 : SFP port 1	
	- sfp2 : SFP port 2	
	- xfp1 : XFP port 1	
	- xfp2 : XFP port 2	
	Field type <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	- the SFP cage number	
	- range: [02304]	
	141150. [01112501]	

Command Output

Table 91.10-2 "SFP/XFP Diagnostics Status Command" Display parameters

Specific Informatio	n	
name	Type	Description
diag-avail-status	Parameter type: <eqpt::sfpdiagavailable></eqpt::sfpdiagavailable>	sfp/xfp diagnostics availability
	(no-error	status. for xfp, a0 denotes the
	cage-no-diag-supp	upper bank and a2 denotes the
	cage-empty	lower bank
	cage-no-a2-supp	This element is always shown.
	a0-read-failed	·
	a0-checksum-failed	
	sfp-no-a2-supp	
	a2-read-failed	
	a2-checksum-failed	
	optics-present)	
	Possible values:	
	- no-error : sfp diag is available	
	- cage-no-diag-supp : cage does not support diag	
	- cage-empty : cage is empty	
	- cage-no-a2-supp : cage does not support A2	
	- a0-read-failed : A0 read failed	
	- a0-checksum-failed : A0 checksum failed	
	- sfp-no-a2-supp : SFP does not support A2	
	- a2-read-failed : A2 read failed	
	- a2-checksum-failed : A2 checksum failed	
	- optics-present : SFP/XFS inserted into cage	
los	Parameter type: <printablestring></printablestring>	loss of signal
	- printable string	This element is always shown.
tx-fault	Parameter type: <eqpt::sfpdiagtxfault></eqpt::sfpdiagtxfault>	sfp/xfp tx fault
	(tx-fault	This element is always shown.
	no-tx-fault	
	not-applicable	
	not-available)	
	Possible values:	
	- tx-fault : transmit fault info	
	- no-tx-fault : no tx fault	
	- not-applicable : not applicable	
	- not-available : not available	
tx-power	Parameter type: <printablestring></printablestring>	the transmit power.
an power	- printable string	This element is only shown in
	printable string	detail mode.
rx-power	Parameter type: <printablestring></printablestring>	the received power - not
poe1	- printable string	applicable for PON ports
	printers suring	This element is only shown in
		detail mode.
tx-bias-current	Parameter type: <printablestring></printablestring>	the transmit bias current.
WI GIAG CAITCH	- printable string	This element is only shown in
	printers suring	detail mode.
supply-voltage	Parameter type: <printablestring></printablestring>	the transceiver supply voltage.
Pri . o.mgc	- printable string	This element is only shown in
	printable buring	detail mode.
temperature	Parameter type: <printablestring></printablestring>	the temperature.
	- printable string	This element is only shown in
	Printage string	detail mode.
temperature-tca	Parameter type: <eqpt::tca></eqpt::tca>	the temperature alarm or warning
	(high-alarm-th	This element is only shown in
	low-alarm-th	detail mode.
	low-alaim-til	иенин тоше.
<u>. </u>	mgn-warming-ui	

name	Туре	Description
паше	low-warning-th	Description
	normal-value	
	not-available)	
	Possible values:	
	- high-alarm-th : Present value is greater than the	
	configured/pre-set alarm value	
	- low-alarm-th : Present value is lower than the	
	configured/pre-set alarm value	
	- high-warning-th: Present value is greater than the	
	configured/pre-set warning value	
	- low-warning-th : Present value is lower than the	
	configured/pre-set warning value	
	- normal-value : Present value is under normal limits	
	- not-available : Value is not available	
voltage-tca	Parameter type: <eqpt::tca></eqpt::tca>	the voltage alarm or warning
voltage tea	(high-alarm-th	This element is only shown in
	low-alarm-th	detail mode.
	high-warning-th	detail mode.
	low-warning-th	
	normal-value	
	not-available)	
	Possible values:	
	- high-alarm-th : Present value is greater than the	
	configured/pre-set alarm value	
	- low-alarm-th : Present value is lower than the	
	configured/pre-set alarm value	
	- high-warning-th : Present value is greater than the	
	configured/pre-set warning value	
	- low-warning-th : Present value is lower than the	
	configured/pre-set warning value	
	- normal-value : Present value is under normal limits	
	- not-available : Value is not available	
bias-current-tca	Parameter type: <eqpt::tca></eqpt::tca>	the bias-current alarm or warning
	(high-alarm-th	This element is only shown in
	l low-alarm-th	detail mode.
	high-warning-th	
	low-warning-th	
	normal-value	
	not-available)	
	Possible values:	
	- high-alarm-th : Present value is greater than the	
	configured/pre-set alarm value	
	- low-alarm-th : Present value is lower than the	
	configured/pre-set alarm value	
	- high-warning-th : Present value is greater than the	
	configured/pre-set warning value	
	- low-warning-th : Present value is lower than the	
	configured/pre-set warning value	
	- normal-value : Present value is under normal limits	
	- not-available : Value is not available	
tx-power-tca	Parameter type: <eqpt::tca></eqpt::tca>	the temperature alarm or warning
	(high-alarm-th	This element is only shown in
	low-alarm-th	detail mode.
	high-warning-th	
	low-warning-th	
	normal-value	
	not-available)	

name	Type	Description
	Possible values:	*
	- high-alarm-th : Present value is greater than the	
	configured/pre-set alarm value	
	- low-alarm-th : Present value is lower than the	
	configured/pre-set alarm value	
	- high-warning-th : Present value is greater than the	
	configured/pre-set warning value	
	- low-warning-th : Present value is lower than the	
	configured/pre-set warning value	
	- normal-value : Present value is under normal limits	
	- not-available : Value is not available	
rx-power-tca	Parameter type: <eqpt::tca></eqpt::tca>	the temperature alarm or
	(high-alarm-th	warning-not applicable for PON
	low-alarm-th	ports
	high-warning-th	This element is only shown in
	low-warning-th	detail mode.
	normal-value	
	not-available)	
	Possible values:	
	- high-alarm-th : Present value is greater than the	
	configured/pre-set alarm value	
	- low-alarm-th : Present value is lower than the	
	configured/pre-set alarm value	
	- high-warning-th : Present value is greater than the	
	configured/pre-set warning value	
	- low-warning-th : Present value is lower than the	
	configured/pre-set warning value	
	- normal-value : Present value is under normal limits	
	- not-available : Value is not available	
rssi-profile-id	Parameter type: <eqpt::rssishowprofileindex></eqpt::rssishowprofileindex>	an unique index of the rssi profile
-	- an unique index value for the rssi profile(1-200	This element is always shown.
	user-defined, 65535 - automode)	, and the second
	- range: [165535]	
rssi-state	Parameter type: <eqpt::rssistate></eqpt::rssistate>	to enable or disable the rssi
	((enable yes)	functionality on sfps for uplink
	(disable no))	ports
	Possible values:	This element is always shown.
	- enable : enable rssi functionality	-
	- yes : enable rssi functionality	
	- disable : disable rssi functionality	
	- no : disable rssi functionality	
L	· · · · · · · · · · · · · · · · · · ·	1

91.11 SFP/XFP Diagnostics Status Command

Command Description

This command allows the operator to read real-time diagnostic measurements from the A2 bank of a specified SFP or lower data bank of XFP. The following information is shown for each specified sfp/xfp:

- The slot index of the sfp
- The number of the sfp cage
- The diagnostics availability: For XFP, AO denotes the upper bank and A2 denotes the lower bank.
- The Loss of Signal status
- The Transmit Fault status
- The transmit power (tx-power): This parameter displays the transmit power of the SFP/XFP.It is a string that can be one of the following possible values:
 - A string containing power value ranging from "-40.00 dBm" to "8.16 dBm", in 0.01 dBm increments.
 - "No Power" When no optical power is being transmitted by an sfp.
 - "NotApplicable" This is used for an electrical SFP.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The received power (rx-power): This parameter displays the received power of the SFP/XFP(not applicable for pon ports). It is a string that can be one of the following possible values:
 - A string containing power value ranging from "-40.00 dBm" to "8.16 dBm", in 0.01 dBm increments.
 - "No Power" When no optical power is being received by an sfp.
 - "NotApplicable" This is used for an electrical SFP.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The transmit bias current (tx-bias-current): This parameter displays the transmit bias current of the SFP/XFP. It is a string that can be one of the following possible values:
 - A string containing a current value ranging from "0.00 mA" to "262.00 mA", in 0.01 mA increments.
 - "NotApplicable" This is used for an electrical SFP.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The transceiver supply voltage (supply-voltage): This parameter displays the transceiver supply voltage of the SFP/XFP. It is a string that can be one of the following possible values:
 - A string containing a voltage value ranging from "0.00 VDC" to "6.55 VDC", in 0.01 VDC increments.
 - "NotAvailable" The measurement could not be obtained.
 - "Invalid" The calibration calculation returned an invalid result.
- The temperature: This parameter displays the temperature of the SFP/XFP. It is a string that can be one of the following possible values:
 - A string containing a temperature value ranging from "-128.00 degrees Celsius" to "128.00 degrees Celsius" in 0.01 degrees Celsius increments.
 - "NotAvailable" The measurement could not be obtained.
- temperature-tca: This parameter displays the freshly-measured temperature alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold
- voltage-tca: This parameter displays the freshly-measured voltage alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:

- "not-available" the measurement could not be obtained
- "normal-value" No threshold crossing, present value is within the threshold
- "low-warning-th" Present value is greater than the low warning level threshold
- "low-alarm-th" Present value is greater than the low alarm level threshold
- "high-warning-th" Present value is greater than the high warning level threshold
- "high-alarm-th" Present value is greater than the high alarm level threshold
- tx-power-tca: This parameter displays the freshly-measured tx-power alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold
- bias-current-tca: This parameter displays the freshly-measured bias-current alarm/warning threshold crossing status of the specified SFP/SFP+/XFP. It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold
- rx-power-tca: This parameter displays the freshly-measured rx-power alarm/warning threshold crossing status of the specified SFP/SFP+/XFP(not applicable for pon ports). It is a string that can be one of the following possible values:
 - "not-available" the measurement could not be obtained
 - "normal-value" No threshold crossing, present value is within the threshold
 - "low-warning-th" Present value is greater than the low warning level threshold
 - "low-alarm-th" Present value is greater than the low alarm level threshold
 - "high-warning-th" Present value is greater than the high warning level threshold
 - "high-alarm-th" Present value is greater than the high alarm level threshold

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment diagnostics sfp-threshold [(position)]

Command Parameters

Table 91.11-1 "SFP/XFP Diagnostics Status Command" Resource Parameters

Resource Identifier	Туре	Description
(position)	Format:	the physical sfp or xfp cage
	(acu : <eqpt::rackid> / <eqpt::shelfid> <eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::shelfid></eqpt::rackid>	/ position
	iont : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	/
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	

Resource Identifier	Type	Description
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp :</eqpt::expshelf></eqpt::exprack>	1
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : qsfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : cfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp1 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp2 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp1 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp2 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::eqslotid> /</eqpt::eqslotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : qsfp : <eqpt::sfpcagenumber> nt : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : sfp1 : <eqpt.:sfpcagenumber></eqpt.:sfpcagenumber>	
	nt : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> : sfp</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt: <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> : cfp</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	xfp1: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	xfp2: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : sfp : <eqpt::sfpcagenumber> ntio-1 : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1: xip: <eqpt::sipcagenumber></eqpt::sipcagenumber>	
	ntio-1 : qsrp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1: cfp: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1:sfp1: htto-1:sfp1:htto-1:sfp2:Eqpt::SfpCageNumber>	
	ntio-1 : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	1 11 2	<u> </u>

Resource Identifier	Туре	Description
	ntio-2 : xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a: sfp1: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a:sfp: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a:xfp1: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a:xfp2: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp2 : <eqpt::sfpcagenumber>)</eqpt::sfpcagenumber>	
	Possible values:	
	- acu : acu slot	
	- iont : an nt applique slot	
	- remote-sfp : remote sfp	
	- nt : active nt slot	
	- lt : lt-slot	
	- ntio-1: an nt applique slot in a single or multiple-ntio-shelf	
	- ntio-2 : an nt applique slot in a multiple-ntio-shelf	
	- nt-a : nt-a slot	
	- nt-b : nt-b slot	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::exprack></eqpt::exprack>	
	- the physical number of the expansion rack, 0 stands for no	
	remote	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::expshelf></eqpt::expshelf>	
	- physical nbr of expansion shelf within expansion rack, 0	
	stands for no remote	
	Field type <eqpt::eqslotid></eqpt::eqslotid>	
	- the equipment slot number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Possible values:	
	- sfp : SFP port	
	- xfp : XFP port	
	- qsfp : QSFP port	
	- cfp : CFP4 port	
	- sfp1 : SFP port 1	
	- sfp2 : SFP port 2	
	- xfp1 : XFP port 1	
	- xfp2 : XFP port 2	
	Field type <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	- the SFP cage number	
	- range: [02304]	

Command Output

Table 91.11-2 "SFP/XFP Diagnostics Status Command" Display parameters

Specific Information		
name	Type	Description
rx-pwr-alm-low	Parameter type: <printablestring></printablestring>	alarm low threshold for Rx power
	- printable string	This element is always shown.
rx-pwr-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for Rx
	- printable string	power
		This element is always shown.
rx-pwr-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for Rx power
	- printable string	This element is only shown in
		detail mode.
rx-pwr-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for Rx power
	- printable string	This element is only shown in
	D' + 11 G' '	detail mode.
tx-pwr-alm-low	Parameter type: <printablestring></printablestring>	alarm low threshold for Tx power
4 1.2.1.	- printable string	This element is always shown.
tx-pwr-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for Tx
	- printable string	power
4 1	December to a company (Daintella Chaire as	This element is always shown.
tx-pwr-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for Tx power
	- printable string	This element is only shown in
tu muum uuama hi ah	Donomoton trimo. DinintahlaCtuin as	detail mode. warn high threshold for Tx power
tx-pwr-warn-high	Parameter type: <printablestring></printablestring>	
	- printable string	This element is only shown in detail mode.
tamm alm law	Donomoton trimo. DinintahlaCtuin as	
temp-alm-low	Parameter type: <printablestring> - printable string</printablestring>	alarm low threshold for temperature
	- printable string	This element is only shown in
		detail mode.
temp-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for
temp-ann-ingn	- printable string	temperature
	- printable string	This element is only shown in
		detail mode.
temp-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for
temp warm tow	- printable string	temperature
	r8	This element is only shown in
		detail mode.
temp-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for
	- printable string	temperature
		This element is only shown in
		detail mode.
bias-alm-low	Parameter type: <printablestring></printablestring>	alarm low threshold for bias
	- printable string	This element is only shown in
		detail mode.
bias-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for bias
	- printable string	This element is only shown in
		detail mode.
bias-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for bias
	- printable string	This element is only shown in
		detail mode.
bias-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for bias
	- printable string	This element is only shown in
		detail mode.
voltage-alm-low	Parameter type: <printablestring></printablestring>	alarm low threshold for Voltage
	- printable string	This element is only shown in
		detail mode.
voltage-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for Voltage

name	Type	Description
	- printable string	This element is only shown in
	r 8	detail mode.
voltage-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for Voltage
voltage wall low	- printable string	This element is only shown in
	printable string	detail mode.
voltage-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for Voltage
voltage warn ingn	- printable string	This element is only shown in
	- printable string	detail mode.
erx-alm-low	Demonstructure (Deinstelle Steiner)	alarm low threshold for ext Rx
erx-aiiii-iow	Parameter type: <printablestring></printablestring>	
	- printable string	power
		This element is only shown in
1 1 1	B	detail mode.
erx-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for ext Rx
	- printable string	power
		This element is only shown in
		detail mode.
erx-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for ext Rx
	- printable string	power
		This element is only shown in
		detail mode.
erx-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for ext Rx
on wan mgn	- printable string	power
	primition suring	This element is only shown in
		detail mode.
etx-alm-low	Parameter type: <printablestring></printablestring>	alarm low threshold for ext Tx
Ctx-aiiii-iow	- printable string	power
	- printable string	This element is only shown in
		detail mode.
	December 1 December 11 Construction	
etx-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for ext Tx
	- printable string	power
		This element is only shown in
		detail mode.
etx-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for ext Tx
	- printable string	power
		This element is only shown in
		detail mode.
etx-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for ext Tx
	- printable string	power
		This element is only shown in
		detail mode.
ebias-alm-low	Parameter type: <printablestring></printablestring>	alarm low threshold for ext bias
	- printable string	This element is only shown in
	1 8	detail mode.
ebias-alm-high	Parameter type: <printablestring></printablestring>	alarm high threshold for ext bias
colus um mgn	- printable string	This element is only shown in
	- printable string	detail mode.
ebias-warn-low	Donomoton tymos DuintahlaCtuina	warn low threshold for ext bias
edias-warii-iow	Parameter type: <printablestring></printablestring>	
	- printable string	This element is only shown in
1. 1. 4	D	detail mode.
ebias-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for ext bias
	- printable string	This element is only shown in
		detail mode.
etemp-alm-low	Parameter type: <printablestring></printablestring>	alrm low threshold for ext temp
	- printable string	This element is only shown in
		detail mode.
	D	along high though ald fan and tagen
etemp-alm-high	Parameter type: <printablestring></printablestring>	alrm high threshold for ext temp

name	Type	Description
		detail mode.
etemp-warn-low	Parameter type: <printablestring></printablestring>	warn low threshold for ext temp
	- printable string	This element is only shown in
		detail mode.
etemp-warn-high	Parameter type: <printablestring></printablestring>	warn high threshold for ext temp
	- printable string	This element is only shown in
		detail mode.

91.12 Sfp RSSI Configuration Command

Command Description

This command allows the operator to create and configure the RSSI parameters on SFPs.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment rssiprof [(index)]

Command Parameters

Table 91.12-1 "Sfp RSSI Configuration Command" Resource Parameters

Resource Identifier	T	ype							Description
(index)	Fo	rmat:							an unique index of the rssi profile
	-	an	unique	index	value	for	the	rssi	
	pre	ofile(1-	200:userde	fined,655.	35:automo	ode)			
	- r	ange: [1200,655	35]					

Command Output

Table 91.12-2 "Sfp RSSI Configuration Command" Display parameters

Specific Information				
name	Type	Description		
name	Parameter type: <eqpt::displaystring></eqpt::displaystring>	A unique profile name		
	- string to identify the rssi profile	This element is always shown.		
	- length: 1<=x<=16			
ref-count	Parameter type: <eqpt::rssirefcount></eqpt::rssirefcount>	rssi profile reference count		
	- number of entities using this particular profile	This element is always shown.		
	- range: [065535]			

91.13 Board Temperature Status Command

Command Description

This commands shows the board temperature status. The following information is shown for each thermal sensor:

- act-temp: actual temperature of thermal sensor; expressed in degrees Celsius.
- tca-low: low thresholds for the alarm "Temperature Exceeded"; expressed in degrees Celsius.
- tca-high: high thresholds for the alarm "Temperature Exceeded"; expressed in degrees Celsius.
- shut-low: low threshold for the alarm "Temperature Shutdown"; expressed in degrees Celsius.
- shut-high: high threshold for the alarm "Temperature Shutdown"; expressed in degrees Celsius.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment temperature [(slot) [sensor-id < Equipm::SensorId>]]

Command Parameters

Table 91.13-1 "Board Temperature Status Command" Resource Parameters

Resource Identifier	Type	Description
(slot)	Format:	the physical slot position
	(lt: <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid></eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	nt-a	
	nt-b	
	nt	
	iont : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::eqslotid></eqpt::eqslotid></eqpt::shelfid></eqpt::rackid>	
	ctrl : <eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	ntio-1	
	ntio-2)	
	Possible values:	
	- lt : lt-slot	
	- nt-a : nt-a slot	
	- nt-b : nt-b slot	
	- nt : nt slot	
	- iont : an nt applique slot	
	- ctrl : ctrl-slot	
	- ntio-1 : an nt applique slot in a single or multiple-ntio-shelf	
	- ntio-2 : an nt applique slot in a multiple-ntio-shelf	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	

Resource Identifier	Type	Description
	- the LT slot number	
	Field type <eqpt::eqslotid></eqpt::eqslotid>	
	- the equipment slot number	
sensor-id	Parameter type: <equipm::sensorid></equipm::sensorid>	the sensor id of a board
	Format:	
	- the sensor id of a board	
	- range: [115]	

Command Output

Table 91.13-2 "Board Temperature Status Command" Display parameters

Specific Information		
name	Type	Description
actual-temperature	Parameter type: <signedinteger></signedinteger>	actual temperature of thermal
short name: act-temp	- a signed integer	sensor; expressed in degrees
		Celsius.
		This element is always shown.
tca-threshold-low	Parameter type: <signedinteger></signedinteger>	Low thresholds for the alarm
short name: tca-low	- a signed integer	"Temperature Exceeded";
		expressed in degrees Celsius.
		This element is always shown.
tca-threshold-high	Parameter type: <signedinteger></signedinteger>	High thresholds for the alarm
short name: tca-high	- a signed integer	"Temperature Exceeded";
		expressed in degrees Celsius.
		This element is always shown.
shut-threshold-low	Parameter type: <signedinteger></signedinteger>	Low threshold for the alarm
short name: shut-low	- a signed integer	"Temperature Shutdown";
		expressed in degrees Celsius.
		This element is always shown.
shut-threshold-high	Parameter type: <signedinteger></signedinteger>	High threshold for the alarm
short name: shut-high	- a signed integer	"Temperature Shutdown";
		expressed in degrees Celsius.
		This element is always shown.

91.14 Board Planned Resource Command

Command Description

This commands shows the actual values of configured hardware resources on boards.. The following information is shown for each resource:

- current: The actual planned value for the resource
- max-value: The maximum value that the board supports for this resource.
- description: A string describing the planned resource for this board.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment planned-resource [(slot) [resource-id <SignedInteger>]]

Command Parameters

Table 91.14-1 "Board Planned Resource Command" Resource Parameters

Resource Identifier	Type	Description
(slot)	Format:	the physical slot position
	lt: <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid></eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	Possible values:	
	- lt : lt-slot	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
resource-id	Parameter type: <signedinteger></signedinteger>	the planned resource id of a board
	Format:	
	- a signed integer	

Command Output

Table 91.14-2 "Board Planned Resource Command" Display parameters

Specific Information		
name	Type	Description
current-value	Parameter type: <signedinteger></signedinteger>	The actual planned value for the
short name: cur-val	- a signed integer	resource.
		This element is always shown.
maximum-value	Parameter type: <signedinteger></signedinteger>	The maximum value that the

name	Type	Description
short name: max-val	- a signed integer	board supports for this resource.
		This element is always shown.
description	Parameter type: <printablestring></printablestring>	A string describing the planned
short name: description	- printable string	resource for this board.
_		This element is always shown.

91.15 Transceiver Inventory Status Command

Command Description

This command retrieves the configuration data associated with SFP/SFP+/XFP. The following information is shown for each specified sfp/sfp+/xfp:

- For the following data, output "not-Available" implies that the the measurement could not be obtained.
- inventory-status the transceiver inventory status. For XFP, AO denotes the upper bank and A2 denotes the lower bank.
- nokia-part-num the nokia part number available in sfp or xfp eeprom
- clei-code the clei code available in sfp or xfp eeprom
- tx-wavelength the transmission wavelength available in sfp or xfp eeprom
- fiber-type the fiber type available in sfp or xfp eeprom
- additional-info the customer specific additional information of the specified sfp or sfp+ or xfp
- mfg-name the manufacturer name available in sfp or xfp eeprom
- mfg-oui the manufacturer code available in sfp or xfp eeprom
- mfg-date the manufacturer date available in sfp or xfp eeprom
- vendor-serial-num the vendor serial number available in sfp or xfp eeprom

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment transceiver-inventory [(index)]

Command Parameters

Table 91.15-1 "Transceiver Inventory Status Command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format:	the physical sfp or xfp cage
	(acu : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	position
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	iont : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : qsfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : cfp :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp1 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : sfp2 :</eqpt::expshelf></eqpt::exprack>	

Degannes Identifica	Tyme	Description
Resource Identifier	Type	Description
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp1 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	remote-sfp : <eqpt::exprack> / <eqpt::expshelf> : xfp2 :</eqpt::expshelf></eqpt::exprack>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::eqslotid> /</eqpt::eqslotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt : xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> : sfp</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt: <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> : cfp</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	lt : <eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> :</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-1 : xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	ntio-2 : xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : xfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-a : xfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : xfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	

Resource Identifier	Type	Description
	nt-b : qsfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : cfp : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp1 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b : sfp2 : <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b: xfp1: <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	nt-b: xfp2: <eqpt::sfpcagenumber>)</eqpt::sfpcagenumber>	
	Possible values:	
	- acu : acu slot	
	- iont : an nt applique slot	
	- remote-sfp : remote sfp	
	- nt : active nt slot	
	- lt : lt-slot	
	- ntio-1 : an nt applique slot in a single or multiple-ntio-shelf	
	- ntio-2 : an nt applique slot in a multiple-ntio-shelf	
	- nt-a : nt-a slot	
	- nt-b : nt-b slot	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::exprack></eqpt::exprack>	
	- the physical number of the expansion rack, 0 stands for no	
	remote	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::expshelf></eqpt::expshelf>	
	- physical nbr of expansion shelf within expansion rack, 0	
	stands for no remote	
	Field type <eqpt::eqslotid></eqpt::eqslotid>	
	- the equipment slot number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Possible values:	
	- sfp : SFP port	
	- xfp : XFP port	
	- qsfp : QSFP port	
	- cfp : CFP4 port	
	- sfp1 : SFP port 1	
	- sfp2 : SFP port 2	
	- xfp1 : XFP port 1	
	- xfp2 : XFP port 2	
	Field type <eqpt::sfpcagenumber></eqpt::sfpcagenumber>	
	- the SFP cage number	
	- range: [02304]	

Command Output

Table 91.15-2 "Transceiver Inventory Status Command" Display parameters

Specific Information		
name	Type	Description
inventory-status	Parameter type: <eqpt::invstatus></eqpt::invstatus>	transceiver inventory status. for
	(no-error	xfp, a0 denotes the upper bank
	cage-empty	and a2 denotes the lower bank
	cage-no-a2-supp	This element is always shown.
	a0-read-failed	
	a0-checksum-failed	
	sfp-no-a2-supp	
	a2-read-failed	

name	Type	Description
name	a2-checksum-failed	Description
	optics-present)	
	Possible values:	
	- no-error : sfp inventory is available	
	- cage-empty : cage is empty	
	- cage-no-a2-supp : cage does not support A2	
	- a0-read-failed : A0 read failed	
	- a0-checksum-failed : A0 checksum failed	
	- sfp-no-a2-supp : SFP does not support A2 - a2-read-failed : A2 read failed	
	- a2-read-raned : A2 read raned - a2-checksum-failed : A2 checksum failed	
	- optics-present : SFP/XFS inserted into cage	the malic ment member escilable
nokia-part-num	Parameter type: <printablestring></printablestring>	the nokia part number available
	- printable string	in sfp or xfp eeprom
		This element is always shown.
clei-code	Parameter type: <printablestring></printablestring>	the clei code available in sfp or
	- printable string	xfp eeprom
		This element is only shown in
		detail mode.
tx-wavelength	Parameter type: <printablestring></printablestring>	the transmission wavelength
	- printable string	available in sfp or xfp eeprom
		This element is always shown.
fiber-type	Parameter type: <eqpt::fibertype></eqpt::fibertype>	the fiber type available in sfp or
	(single-mode	xfp eeprom.
	multi-mode	This element is always shown.
	not-available)	
	Possible values:	
	- single-mode : single-mode fiber	
	- multi-mode : multi-mode	
	- not-available : fiber type is not available	
mfg-name	Parameter type: <printablestring></printablestring>	the manufacturer name available
	- printable string	in sfp or xfp eeprom
		This element is only shown in
		detail mode.
mfg-oui	Parameter type: <printablestring></printablestring>	the manufacturer code available
8	- printable string	in sfp or xfp eeprom
	1 8	This element is only shown in
		detail mode.
mfg-date	Parameter type: <printablestring></printablestring>	the manufacturer date in
8	- printable string	dd/mm/yyyy format available in
	1 8	sfp or xfp eeprom
		This element is only shown in
		detail mode.
vendor-serial-num	Parameter type: <printablestring></printablestring>	the vendor serial number
Silver Serial Halli	- printable string	available in sfp or xfp eeprom
	printable string	This element is only shown in
		detail mode.
additional-info	Parameter type: <printablestring></printablestring>	the customer specific additional
additional fillo	- printable string	information of the specified sfp
	printable string	or sfp+ or xfp
		This element is only shown in
		detail mode.
rssi-sfptype	Parameter type: <eqpt::rssisfptype></eqpt::rssisfptype>	sfp type of ports wich configured
1331-31 ptype	(not-available	rssi profile
	px20	This element is always shown.
		This element is always shown.
	px20plus	
	prx_t1	

name	Type	Description
name	pr_t2	Description
	prx_t3	
	pr_t4	
	bplusc	
	bplusi	
	bplusi_onu	
	cplusc	
	cplusi	
	elt1_eth	
	e3ds3_eth	
	stm1oc3_eth	
	elt1_tdm	
	100base_fx	
	100base_lx	
	100base_bx10u 100base_bx10d	
	100base_bx10d 100base_tx	
	1000ase_tx 1000base_t	
	1000base_cx	
	1000base_cx 1000base_sx	
	1000base_lx	
	1000base_bx10u	
	1000base_bx10d	
	1000base_bx40u	
	1000base_bx40d	
	1000base_ex	
	1000base_zx	
	n1_c	
	n2a_c	
	n2b_c	
	1000base_vx	
	2500base	
	10gbase_sr	
	10gbase_lr	
	10gbase_lrm 10gbase_er	
	10gbase_sw 10gbase_lw	
	10gbase_tw 10gbase_ew	
	40gbase_sr4	
	40gbase_lr4	
	40gbase_cr4	
	10gbase_bx40u	
	10gbase_bx40d	
	10gbase_zrcwdm	
	10gbase_zrdwdm	
	1000base_bx20u	
	1000base_bx20d	
	n1_i	
	n2a_i	
	n2b_i	
	100gbase_lr4	
	100gbase_sr4	
	10gbase_bx10u	
	10gbase_bx10d	
	1000base_zrcwdm 10gbase_zr	
	10g0asc_Li	

name	Type	Description
	10gbase_bx80u	
	10gbase_bx80d	
	1000base_bx80u	
	1000base_bx80d	
	100gbase_er4	
	cplusplusi	
	10gbase_t	
	10gbase_bx60u	
	10gbase_bx60d	
	2500base_bx40u	
	2500base_bx40d	
	e1-i	
	1000base_ezx	
	n2a_cplus_c	
	40gbase_psm4_lr	
	10gbase_ercwdm	
	bplus_e	
	10gbase_bx20u	
	10gbase_bx20d	
	cplusplusc	
	cpluse	
	$\left[\begin{array}{c} d_i \end{array}\right]$	
	e1-c)	
	Possible values:	
	- not-available : fiber type is not available	
	- px20 : single-mode fiber	
	- px20plus : multi-mode	
	- prx_t1 : single-mode fiber	
	- pr_t2 : multi-mode	
	- prx_t3 : single-mode fiber	
	- pr_t4 : multi-mode	
	- bplusc : single-mode fiber	
	- bplusi : single-mode fiber	
	- bplusi_onu : single-mode fiber	
	- cplusc : single-mode fiber	
	- cplusi : single-mode fiber	
	- e1t1_eth : Electrical E1/T1 Ethernet bridged SFP (Ethernet	
	over E1/T1 per GFP, HDLC or cHDLC encapsulation)	
	- e3ds3_eth : Electrical E3/DS3 Ethernet bridged SFP	
	(Ethernet over E3/DS2 per GFP, HDLC or cHDLC	
	encapsulation)	
	- stm1oc3_eth : Optical STM-1/OC3 Ethernet bridged SFP	
	(Ethernet over STM-1/OC3 per GFP encapsulation)	
	- e1t1_tdm : Electrical 2 x E1 TDM PW SFP (TDM E1 over	
	Ethernet per MEF8 encapsulation)	
	- 100base_fx : 100M multi-mode fiber	
	- 100base_lx : 100M long-reach single-mode fiber	
	l	
	- 100base_bx10u : 100M single-strand upstream single-mode fiber	
	- 100base_bx10d : 100M single-strand downstream	
	single-mode fiber	
	- 100base_tx : 100M copper twisted-pair cable	
	- 1000base_t : 1G copper twisted-pair cable	
	- 1000base_cx : 1G copper twin-axial cable	
	- 1000base_sx : 1G short-reach multi-mode fiber	
	- 1000base_lx : 1G long-reach single-mode fiber	
	- 1000base_bx10u : 1G single-strand upstream single-mode	

	I M	
name	Type	Description
	fiber	
	- 1000base_bx10d : 1G single-strand downstream	
	single-mode fiber	
	- 1000base_bx40u : 1G extended-reach upstream	
	single-mode fiber	
	- 1000base_bx40d : 1G extended-reach downstream	
	single-mode fiber	
	- 1000base_ex : 1G extended-reach 40km single-mode fiber - 1000base_zx : 1G extended reach 70km single-mode fiber	
	- n1_c : 10G GPON N1 C-temp fiber	
	- n2a_c : 10G GPON N2A C-temp fiber	
	- n2b_c: 10G GPON N2B C-temp fiber	
	- 1000base_vx : 1G CWDM fiber	
	- 1000base_vx : 10 Cw Bivi fiber - 2500base : 2500M fiber	
	- 10gbase_sr : 10G short-reach multi-mode fiber	
	- 10gbase_lr : 10G long-reach single-mode fiber	
	- 10gbase_lrm : 10G long-reach multi-mode fiber	
	- 10gbase_er : 10G extended-reach single-mode fiber	
	- 10gbase_sw : 10G short-reach wan multi-mode fiber	
	- 10gbase_lw: 10G long-reach wan single-mode fiber	
	- 10gbase_ew : 10G extended-reach wan single-mode fiber	
	- 40gbase_sr4 : 40G short-reach multi-mode fiber	
	- 40gbase_lr4 : 40G long-reach single-mode fiber	
	- 40gbase_cr4 : 40G copper cable	
	- 10gbase_bx40u : 10G extended-reach upstream	
	single-mode fiber	
	- 10gbase_bx40d : 10G extended-reach downstream	
	single-mode fiber	
	- 10gbase_zrcwdm : 10G extended-reach single-mode fiber	
	- 10gbase_zrdwdm : 10G extended-reach single-mode fiber	
	- 1000base_bx20u : One single-mode fiber ONU, long	
	wavelength, 20km	
	- 1000base_bx20d : One single-mode fiber OLT, long	
	wavelength, 20km	
	- n1_i : 10G GPON N1 I-temp fiber	
	- n2a_i : 10G GPON N2A I-temp fiber	
	- n2b_i : 10G GPON N2B I-temp fiber	
	- 100gbase_lr4 : 100G long-reach single-mode fiber	
	- 100gbase_sr4 : 100G short-reach multi-mode fiber	
	- 10gbase_bx10u : 10G extended-reach upstream	
	single-mode fiber	
	- 10gbase_bx10d : 10G extended-reach downstream	
	single-mode fiber	
	- 1000base_zrcwdm : 1G extended-reach single-mode fiber - 10gbase_zr : 10G extended-reach single-mode fiber	
	- 10gbase_bx80u : 10G extended-reach upstream	
	single-mode fiber	
	- 10gbase_bx80d : 10G extended-reach downstream	
	single-mode fiber	
	- 1000base_bx80u : 1G extended-reach upstream	
	single-mode fiber	
	- 1000base_bx80d : 1G extended-reach downstream	
	single-mode fiber	
	- 100gbase_er4 : 100G extended-reach single-mode fiber	
	- cplusplusi : single-mode fiber	
	- 10gbase_t : 10G copper twisted-pair cable	
	- 10gbase_bx60u : 10G extended-reach upstream	
1		I

name	Type	Description
паше	single-mode fiber	Description
	- 10gbase_bx60d : 10G extended-reach downstream	
	single-mode fiber	
	- 2500base_bx40u : 2500M extended-reach upstream	
	single-mode fiber	
	- 2500base_bx40d : 2500M extended-reach downstream	
	single-mode fiber	
	- e1-i: 10G GPON E1 I-temp fiber	
	- 1000base_ezx : 1G extended-reach 120km fiber	
	- n2a_cplus_c : XGPON1 Combo N2a C+ C-temp fiber	
	- 40gbase_psm4_lr : 40G long-reach parallel single-mode	
	fiber with four channels	
	- 10gbase_ercwdm : 10G extended-reach single-mode fiber	
	- bplus_e : single-mode fiber	
	- 10gbase_bx20u : 10G extended-reach upstream	
	single-mode fiber	
	- 10gbase_bx20d : 10G extended-reach downstream	
	single-mode fiber	
	- cplusplusc : single-mode fiber	
	- cpluse : single-mode fiber	
	- d_i : single-mode fiber	
	- e1-c : single-mode fiber	
optic-identifier	Parameter type: <printablestring></printablestring>	identifies the optic type that is
optio identifier	- printable string	plugged in, sfp, sfp_dd, sfp+, xfp
	primate sumg	This element is only shown in
		detail mode.
		aeiaii moae.

91.16 NE Status Command

Command Description

This command displays the status of the NE.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment isam

Command Output

Table 91.16-2 "NE Status Command" Display parameters

Specific Information	Specific Information		
name	Type	Description	
planned-type	Parameter type: <equipm::systemtype></equipm::systemtype>	Specifies the planned isam type.	
	(laus	This element is only shown in	
	laeu	detail mode.	
	leeu		
	maus		
	leus		
	lneu		
	leww		
	lnww)		
	Possible values:		
	- laus : large ASAM US / ANSI market (6 racks, 3 shelves		
	per rack)		
	- laeu : large ASAM EU / ETSI market (6 racks, 3 shelves		
	per rack)		
	- leeu : large ISAM for EU / ETSI market		
	- maus : mini RAM ASAM for US / ANSI market		
	- leus : large ISAM for US / ANSI market		
	- lneu : new equipment practice (NEP)		
	- leww : large ISAM World wide		
	- lnww : large ISAM World wide		
actual-type	Parameter type: <equipm::systemtype></equipm::systemtype>	A string representing the system	
	(laus	type that is actually present.	
	laeu	This element is always shown.	
	leeu		
	maus		
	leus		
	lneu		
	leww		

name	Туре	Description
	lnww)	
	Possible values:	
	- laus : large ASAM US / ANSI market (6 racks, 3 shelves	
	per rack)	
	- laeu : large ASAM EU / ETSI market (6 racks, 3 shelves	
	per rack)	
	- leeu: large ISAM for EU / ETSI market	
	- maus : mini RAM ASAM for US / ANSI market	
	- leus : large ISAM for US / ANSI market	
	- lneu : new equipment practice (NEP)	
	- leww : large ISAM World wide	
	- lnww : large ISAM World wide	
description	Parameter type: <description-127></description-127>	Specifies the location of the
	- description to help the operator to identify the object	system.
	- length: x<=127	This element is only shown in
		detail mode.

91.17 Rack Status Command

Command Description

This command shows the rack status.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment rack [(rack)]

Command Parameters

Table 91.17-1 "Rack Status Command" Resource Parameters

Resource Identifier	Type	Description
(rack)	Format:	the rack identifier
	<eqpt::rackid></eqpt::rackid>	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	

Command Output

Table 91.17-2 "Rack Status Command" Display parameters

Specific Informa	tion	
name	Туре	Description
planned-type	Parameter type: <equipm::racktype></equipm::racktype>	Specifies the planned rack type.
	(altr-e	This element is only shown in
	altr-a	detail mode.
	not-planned	
	not-allowed	
	empty)	
	Possible values:	
	- altr-e : ISAM ETSI DSL line termination rack (2200mm)	
	- altr-a: ISAM ANSI DSL line termination rack	
	- not-planned : holder is not planned	
	- not-allowed : shelf is not allowed in this position	
	- empty : shelf is empty in this position	
actual-type	Parameter type: <equipm::racktype></equipm::racktype>	A string representing the racktype
	(altr-e	that is actually present.
	altr-a	This element is always shown.
	not-planned	
	not-allowed	

name	Type	Description
	empty)	
	Possible values:	
	- altr-e : ISAM ETSI DSL line termination rack (2200mm)	
	- altr-a : ISAM ANSI DSL line termination rack	
	- not-planned : holder is not planned	
	- not-allowed : shelf is not allowed in this position	
	- empty : shelf is empty in this position	
description	Parameter type: <description-127></description-127>	Specifies the location of the rack.
	- description to help the operator to identify the object	This element is only shown in
	- length: x<=127	detail mode.

91.18 Shelf Status Command

Command Description

This command shows the shelf status. The following information is shown in addition to configuration information:

- oper-status: describes whether the board is able to perform its normal operation.
- error-status: provides the reason why the board is not operational. These values correspond to the alarms generated in case of a failure.
- available-status: provides further information regarding the state of the board.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment shelf [(shelf)]

Command Parameters

Table 91.18-1 "Shelf Status Command" Resource Parameters

Resource Identifier	Type	Description
(shelf)	Format:	a shelf identifier: <rack>/<shelf></shelf></rack>
	<eqpt::rackid> / <eqpt::shelfid></eqpt::shelfid></eqpt::rackid>	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	

Command Output

Table 91.18-2 "Shelf Status Command" Display parameters

Specific Information	n	
name	Type	Description
planned-type	Parameter type: <equipm::shelftype></equipm::shelftype>	Specifies the planned shelf type.
	Data driven field type	This element is only shown in
	Possible values are depending on the actual configuration	detail mode.
	and software.	
	The currently allowed values can be shown with online-help.	
actual-type	Parameter type: <equipm::shelftype></equipm::shelftype>	A string representing the
	Data driven field type	shelftype that is actually present
	Possible values are depending on the actual configuration	in the rack.
	and software.	This element is always shown.
	The currently allowed values can be shown with online-help.	
admin-status	Parameter type: <equipm::holderadminstatus></equipm::holderadminstatus>	Specifies the shelf is locked or

name	Type	Description
short name: locked	((lock yes)	not.
and the second	((unlock no))	This element is only shown in
	Possible values:	detail mode.
	- lock : the holder is locked	actuit motic.
	- yes : the holder is locked	
	- unlock : the holder is unlocked	
	- no : the holder is unlocked	
oper-status	Parameter type: <equipm::operstatus></equipm::operstatus>	Specifies whether or not the shelf
short name: enabled	((enabled yes)	is capable of performing its
	(disabled no))	normal functions.
	Possible values:	This element is always shown.
	- enabled :	
	- yes :	
	- disabled :	
	- no :	
error-status	Parameter type: <equipm::opererror></equipm::opererror>	Specifies for what reason the
CITOI BULLED	(no-error	shelf is not operational.
	type-mismatch	This element is always shown.
	board-missing	This element is diways shown.
	no-installation	
	l !	
	no-planned-board	
	waiting-for-sw	
	init-boot-failed	
	init-download-failed	
	init-connection-failed	
	configuration-failed	
	board-reset-protection	
	invalid-parameter	
	temperature-alarm	
	tempshutdown	
	defense	
	board-not-licensed	
	sem-power-fail	
	sem-ups-fail	
	incompatible-slot	
	download-ongoing	
	upgrade-via-sby board-shelf-mismatch	
	'	
	unknown-error)	
	Possible values:	
	- no-error :	
	- type-mismatch :	
	- board-missing :	
	- no-installation :	
	- no-planned-board :	
	- waiting-for-sw :	
	- init-boot-failed :	
	- init-download-failed :	
	- init-connection-failed:	
	- configuration-failed :	
	- board-reset-protection:	
	- invalid-parameter :	
	- temperature-alarm :	
	- tempshutdown :	
	- defense :	
	- board-not-licensed :	
	- sem-power-fail :	

name	Туре	Description
	- sem-ups-fail :	
	- incompatible-slot :	
	- download-ongoing :	
	- upgrade-via-sby :	
	- board-shelf-mismatch :	
	- unknown-error :	
availability	Parameter type: <equipm::availstatus></equipm::availstatus>	Specifies whether the shelf is
	(available	available or not.
	in-test	This element is always shown.
	failed	
	power-off	
	not-installed	
	offline	
	dependency	
	ext-managed)	
	Possible values:	
	- available :	
	- in-test :	
	- failed :	
	- power-off :	
	- not-installed :	
	- offline :	
	- dependency :	
	- ext-managed :	
shelf-mode	Parameter type: <equipm::holdermodeforshow></equipm::holdermodeforshow>	the shelf mode
	(no-extended-lt-slots	This element is only shown in
	extended-lt-slots	detail mode.
	no-ntb-slot	
	no-extended-slots	
	no-ntio-slots	
	ngpon	
	gpon	
	ngpon-port-reduced	
	gpon-mng-ngpon	
	gpon-mng-reduced)	
	Possible values:	
	- no-extended-lt-slots : no extended lt slots	
	- extended-lt-slots : change to extended lt slots	
	- no-ntb-slot : use ntb slot as lt slot	
	- no-extended-slots : no extended slots	
	- no-ntio-slots : not changeable	
	- ngpon : use universal ngpon lt (supports NG-PON2,	
	XGS-PON and XG-PON1 currently)	
	- gpon : use gpon lt	
	- ngpon-port-reduced : use ngpon port reduced mode lt	
	(supports ERPS)	
	- gpon-mng-ngpon : use gpon managed ngpon management	
	model	
	- gpon-mng-reduced : use gpon managed ngpon port	
	reduced mode lt(supports ERPS)	
class	Parameter type: <equipm::shelfclass></equipm::shelfclass>	Specifies classification of
	(main-iq-hcl	shelves.
	ext-iq	This element is only shown in
	ext-iq ext-hcl	detail mode.
	main-ethernet	истин тоше.
	ext-ethernet	
	Possible values:	
	r ossible values.	

name	Type	Description
	 main-iq-hcl: main shelf - supports iq- and hcl-based traffic ext-iq: extension shelf - supports only iq-based traffic ext-hcl: extension shelf - support only hcs-based traffic main-ethernet: main shelf - supports ethernet-based traffic 	
	 ext-ethernet : extension shelf - supports ethernet-based traffic 	
serial-no	Parameter type: <equipm::shelfserial> - printable string</equipm::shelfserial>	Specifies the serial number of the shelf. This element is only shown in detail mode.
variant	Parameter type: <equipm::shelfvariant> - printable string</equipm::shelfvariant>	the Nokia code of the shelf. This element is only shown in detail mode.
ics-code	Parameter type: <equipm::shelfics> - printable string</equipm::shelfics>	the item change status iteration code of the shelf. This element is only shown in detail mode.
description	Parameter type: <description-127> - description to help the operator to identify the object - length: x<=127</description-127>	Specifies the location of the shelf. This element is only shown in detail mode.

91.19 Power Supply Status Command

Command Description

This command shows the status of the power supply installed on the system.

- psu-num: shows the power supply's number.
- part-num: shows the power supply's part number.
- *v-in: shows incoming voltage arriving at the power supply.*
- *i-in:* shows incoming current arriving at the power supply.
- *v-out: shows outgoing voltage provided by the power supply.*
- *i-out:* shows outgoing current provided by the power supply.
- temperature: shows the temperature of the power supply.
- present: shows the presence status of the power supply
- fault: shows the fault status of the power supply. If a fault is detected, more information can be retrived with the 'detail' version of this command
- clei-code: shows the power supply's clei code
- ser-num: shows the power supply's serial number
- v-in-err: report the fault or error happening at the incoming voltage level.
- i-in-err: report the fault or error happening at the incoming current level.
- v-out-err: report the fault or error happening at the outgoing voltage level.
- i-out-err: report the fault or error happening at the outgoing current level.
- temperature-err: report the fault or error happening at the temperature level.
- cml-err: report the fault or error happening at the communication, memory or logic (cml) level.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment power-supply [(psu-num)]

Command Parameters

Table 91.19-1 "Power Supply Status Command" Resource Parameters

Resource Identifier	Type	Description
(psu-num)	Format:	The power supply unit number
	- Power supply ID	

Command Output

Table 91.19-2 "Power Supply Status Command" Display parameters

Specific Information		
name	Туре	Description
part-number	Parameter type: <printablestring></printablestring>	The part number of the installed

name	Type	Description
	- printable string	power supply
		This element is always shown.
v-in	Parameter type: <equipm::millivolttype></equipm::millivolttype>	The incoming voltage arriving at
	- Millivolt converter to volt	the power supply
		This element is always shown.
i-in	Parameter type: <equipm::milliamperetype></equipm::milliamperetype>	The incoming current arriving at
	- Milliampere converter to ampere	the power supply
		This element is always shown.
v-out	Parameter type: <equipm::millivolttype></equipm::millivolttype>	The output voltage provided by
	- Millivolt converter to volt	the power supply
		This element is always shown.
i-out	Parameter type: <equipm::milliamperetype></equipm::milliamperetype>	The outgoing current provided by
	- Milliampere converter to ampere	the power supply
		This element is always shown.
temperature	Parameter type: <equipm::millitemperaturetype></equipm::millitemperaturetype>	The current temperature of the
	- Milli converter to y.x value	power supply
		This element is always shown.
present	Parameter type: <equipm::powersupplypresent></equipm::powersupplypresent>	The presence of the power supply
	(yes	This element is always shown.
	no)	
	Possible values:	
	- yes : PSU connector is plugged in	
	- no : PSU connector is not plugged in	
fault	Parameter type: <equipm::powersupplyfaultdetected></equipm::powersupplyfaultdetected>	The fault status of the power
	(yes	supply
	no)	This element is always shown.
	Possible values:	
	- yes : The power supply has a fault	
	- no : The power supply does not have a fault	

Only Show Details: identification			
name	Type	Description	
clei-code	Parameter type: <printablestring></printablestring>	The CLEI code of the installed	
	- printable string	power supply	
		This element is only shown in	
		detail mode.	
ser-num	Parameter type: <printablestring></printablestring>	The serial number of the installed	
	- printable string	power supply	
		This element is only shown in	
		detail mode.	

Only Show Details: fault			
name	Type	Description	
v-in-err	Parameter type: <equipm::powersupplyfaultvin></equipm::powersupplyfaultvin>	The error/fault status of the	
	(no-error	incoming voltage	
	(overvoltage-fault ov fault)	This element is only shown in	
	(overvoltage-warning ov warn)	detail mode.	
	(undervoltage-warning un warn)		
	(undervoltage-fault un fault)		
	(ac-nok-fault ac fault)		
	(ac-nok-warning ac warning)		
	(not-enough-in-vol unit off insuf volt))		
	Possible values:		
	- no-error : no error		
	- overvoltage-fault : overvoltage fault		
	- ov fault : overvoltage fault		
	- overvoltage-warning : overvoltage warning		
	- ov warn : overvoltage warning		

name	Type	Description
	- undervoltage-warning : undervoltage warning	
	- un warn : undervoltage warning	
	- undervoltage-fault : undervoltage fault	
	- un fault : undervoltage fault	
	- ac-nok-fault : ac nok fault	
	- ac fault : ac nok fault	
	- ac-nok-warning : ac nok warning	
	- ac warning : ac nok warning	
	- not-enough-in-vol : unit off for insufficient input voltage	
	- unit off insuf volt : unit off for insufficient input voltage	
v-out-err	Parameter type: <equipm::powersupplyfaultvout></equipm::powersupplyfaultvout>	The error/fault status of the
	(no-error	outgoing voltage
	(overvoltage-fault ov-fault)	This element is only shown in
	(overvoltage-warning ov-warn)	detail mode.
	(undervoltage-warning un-warn)	
	(undervoltage-fault un-fault))	
	Possible values:	
	- no-error : no error	
	- overvoltage-fault : overvoltage fault	
	- ov-fault : overvoltage fault	
	- overvoltage-warning : overvoltage warning	
	- ov-warn : overvoltage warning	
	- undervoltage-warning : undervoltage warning	
	- un-warn : undervoltage warning	
	- undervoltage-fault : undervoltage fault	
	- un-fault : undervoltage fault	
i-in-err	Parameter type: <equipm::powersupplyfaultiin></equipm::powersupplyfaultiin>	The error/fault status of the
	(no-error	incoming current
	(overcurrent-fault oc-fault)	This element is only shown in
	(overcurrent-warning oc-warn)	detail mode.
	(overpower-warning op-warn))	
	Possible values:	
	- no-error : no error	
	- overcurrent-fault : overcurrent fault	
	- oc-fault : overcurrent fault	
	- overcurrent-warning : overcurrent warning	
	- oc-warn : overcurrent warning	
	- overpower-warning : overpower warning	
	- op-warn : overpower warning	
i-out-err	Parameter type: <equipm::powersupplyfaultiout></equipm::powersupplyfaultiout>	The error/fault status of the
	(no-error	outgoing current
	(overcurrent-fault oc-fault)	This element is only shown in
	(overcurrent-warning oc-warn)	detail mode.
	(undercurrent-warning uc-warn)	
	(undercurrent-fault uc-fault))	
	Possible values:	
	- no-error : no error	
	- overcurrent-fault : overcurrent fault	
	- oc-fault : overcurrent fault	
	- overcurrent-warning : overcurrent warning	
	overcurrent-warning : overcurrent warningoc-warn : overcurrent warning	
	overcurrent-warning : overcurrent warningoc-warn : overcurrent warningundercurrent-warning : undercurrent warning	
	 overcurrent-warning : overcurrent warning oc-warn : overcurrent warning undercurrent-warning : undercurrent warning uc-warn : undercurrent warning 	
	 overcurrent-warning : overcurrent warning oc-warn : overcurrent warning undercurrent-warning : undercurrent warning uc-warn : undercurrent warning undercurrent-fault : undercurrent fault 	
temperature-err	 overcurrent-warning : overcurrent warning oc-warn : overcurrent warning undercurrent-warning : undercurrent warning uc-warn : undercurrent warning 	The error/fault status on the

name	Type	Description
	(overtemper-fault oc-fault)	This element is only shown in
	(overtemper-warning oc-warn)	detail mode.
	(undertemper-warning uc-warn)	
	(undertemper-fault uc-fault))	
	Possible values:	
	- no-error : no error	
	- overtemper-fault : overtemperature fault	
	- oc-fault : overtemperature fault	
	- overtemper-warning : overtemperature warning	
	- oc-warn : overtemperature warning	
	- undertemper-warning : undertemperature warning	
	- uc-warn : undertemperature warning	
	- undertemper-fault : undertemperature fault	
	- uc-fault : undertemperature fault	
cml-err	Parameter type: <equipm::powersupplyfaultcml></equipm::powersupplyfaultcml>	The error/fault status on the
	(no-error	Communication, Logic and
	inv-unsup-cmd-revd	Memory
	inv-unsup-data-revd	This element is only shown in
	pkt-err-chk	detail mode.
	(memory-fault mem-fault)	
	(processor-fault proc-fault)	
	oth-com-fault	
	oth-mem-log-fault)	
	Possible values:	
	- no-error : no error	
	- inv-unsup-cmd-rcvd : an invalid or unsupported command	
	has been received	
	- inv-unsup-data-rcvd : an invalid or unsupported data has	
	been received	
	- pkt-err-chk : packet error check has failed	
	- memory-fault : a memory fault happened into the power	•
	supply	
	- mem-fault : a memory fault happened into the power	•
	supply	
	- processor-fault : a processor fault happened into the power	
	supply	
	- proc-fault : a processor fault happened into the power	•
	supply	
	- oth-com-fault : a communication fault has been detected	
	- oth-mem-log-fault : a memory or logic fault has been	
	detected	