58- Pon Configuration Commands

58.1 Pon Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "Pon Configuration Commands".

Command Tree

----configure
----pon
- [no] pwrbrst-mode
- [no] range-mode

----interface
- **(pon-idx)**
- [no] label
- [no] ber-calc-period
- [no] polling-period
- [no] sig-degrade-th
- [no] sig-fail-th
- [no] fec-dn
- [no] raman-reduct
- [no] closest-ont
- [no] diff-reach
- [no] pon-tag
- [no] pon-id
- [no] mcast-encrypt
- [no] auth-method
- [no] ponid-interval
- [no] ponid-odn
- [no] ponid-identifier
- [no] max-ranging-onts
- [no] tconts-per-frame
- [no] admin-state
- [no] pon-speed
- [no] burst-overhead
- [no] onu-prov-mode

----tc-layer
- [no] pm-collect

----tc-layer-threshold
- [no] error-frags-up

----mcast-tc-layer
- [no] pm-collect

----phy-layer
- [no] pm-collect

----fec-tc-layer
- [no] pm-collect

----xg-tc-layer
- [no] pm-collect

----otdr
- [no] mode

----utilization
- [no] pon-pmcollect
- [no] ont-pmcollect

- [no] ontbulk-pmcollect
----threshold
- [no] txmcutilhi
- [no] txmcutilmd
- [no] txmcutillo
- [no] txtotutilhi
- [no] txtotutilmd
- [no] txtotutillo
- [no] rxtotutilhi
- [no] rxtotutilmd
- [no] rxtotutillo
- [no] dbacongperiodhi
- [no] dbacongperiodmd
- [no] dbacongperiodlo
- [no] txucdropfrmhi
- [no] txucdropfrmmd
- [no] txucdropfrmlo
- [no] txmcdropfrmhi
- [no] txmcdropfrmmd
- [no] txmcdropfrmlo
- [no] txbcdropfrmhi
- [no] txbcdropfrmmd
- [no] txbcdropfrmlo
- [no] rxtotdropfrmhi
- [no] rxtotdropfrmmd
- [no] rxtotdropfrmlo
- [no] numtcint
- [no] numtcintdba
- [no] dbacongthresh

----deact-ont-tca
- [no] mode
- [no] monitor-interval

----threshold-percent
- [no] high
- [no] high-clr
- [no] low
- [no] low-clr

----threshold-number
- [no] high
- [no] high-clr
- [no] low
- [no] low-clr

----X [no] power-shed-prof
- **(profile-idx)**
- profile-name
- [no] restore-time
- [no] data-class-time
- [no] voice-class-time
- [no] video-class-time
- [no] dsl-class-time
- [no] ces-class-time

----[no] sec-uri-profile
- **(index)**
- name
- [no] auth-securi-prof
- uri-prof

----[no] auth-sec-prof
- **(index)**

- name
- [no] validation-scheme
- [no] user-name
- [no] password
- [no] realm

----[no] uri-prof

- **(index)**
- name
- [no] address
- [no] version

58.2 Pon Configuration Command

Command Description

This command allows the operator to configure range mode of all GPON interface.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon [no pwrbrst-mode | pwrbrst-mode <Gpon::PowerBurstMode>] [no range-mode | range-mode <Gpon::RangeMode>]

Command Parameters

Table 58.2-2 "Pon Configuration Command" Command Parameters

Parameter	Type	Description
[no] pwrbrst-mode	Parameter type: <Gpon::PowerBurstMode> Format: (disable | enable) Possible values: - disable : disable power burst detection mode - enable : enable power burst detection mode	*optional parameter with default value: "disable"* power burst detection mode for gpon
[no] range-mode	Parameter type: <Gpon::RangeMode> Format: (normal | alientolerant) Possible values: - normal : use normal mode - alientolerant : use alien tolerant range mode which allows ONTs to range in the presence of Alien ONUs	*optional parameter with default value: "normal"* range mode for gpon

58.3 Pon Interface Configuration Command

Command Description

This command allows the operator to configure the provisioning data associated with a PON interface.

Note: The value of sig-degrade-th must be greater than sig-fail-th (i.e. sig-degrade-th must represent a lower BER value)

The value of closest-ont can be changed only after setting the administrative status to down.

The value of diff-reach can be changed only after setting the administrative status to down.

The value of fec-dn can be changed only after setting the administrative status to down. If the FEC change is made while the admin status is up, then it must be set to down and then put back to up for the change to take place.

The value of auth-method can be changed only after setting the administrative status to down.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) [no label | label <Gpon::Label>] [no ber-calc-period | ber-calc-period <Gpon::BerCalcPeriod>] [no polling-period | polling-period <Gpon::PollingPeriod>] [no sig-degrade-th | sig-degrade-th <Gpon::SignalDegThreshold>] [no sig-fail-th | sig-fail-th <Gpon::SignalFailThreshold>] [no fec-dn | fec-dn <Gpon::FecDn>] [no raman-reduct | raman-reduct <Gpon::RamanReduct>] [no closest-ont | closest-ont <Gpon::OntDistance>] [no diff-reach | diff-reach <Gpon::PonDiffReach>] [no pon-tag | pon-tag <Gpon::PonTag>] [no pon-id | pon-id <Gpon::PonXgId>] [no mcast-encrypt | mcast-encrypt <Gpon::McEncrypt>] [no auth-method | auth-method <Gpon::AuthMethod>] [no ponid-interval | ponid-interval <Gpon::GponIdInterval>] [no ponid-odn | ponid-odn <Gpon::GponIdOdn>] [no ponid-identifier | ponid-identifier <Gpon::GponId>] [no max-ranging-onts | max-ranging-onts <Gpon::MaxRangingOnts>] [no tconts-per-frame | tconts-per-frame <Gpon::TcontsPerFrame>] [no admin-state | admin-state <Gpon::ItfAdminStatus>] [no pon-speed | pon-speed <Gpon::PonSpeed>] [no burst-overhead | burst-overhead <Gpon::BurstModeOverhead>] [no onu-prov-mode | onu-prov-mode <Gpon::OnuProvMode>]

Command Parameters

Table 58.3-1 "Pon Interface Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>)	pon index

Resource Identifier	Type	Description
	Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	

Table 58.3-2 "Pon Interface Configuration Command" Command Parameters

Parameter	Type	Description
[no] label	Parameter type: <Gpon::Label> Format: - char string - length: x<=80	*optional parameter with default value: ""* label of the pon port
[no] ber-calc-period	Parameter type: <Gpon::BerCalcPeriod> Format: - ber measurement period - unit: 1/10 sec - range: [1...864000]	*optional parameter with default value: 10L* measurement period to determine whether a signal degraded alarm has occurred for an ont
[no] polling-period	Parameter type: <Gpon::PollingPeriod> Format: - polling period - unit: 1/10 sec - range: [1...864000]	*optional parameter with default value: 100L* period between two consecutive times the autodetection procedure on pon is executed
[no] sig-degrade-th	Parameter type: <Gpon::SignalDegThreshold> Format: - signal degrade threshold (x) - unit: 10 ^ (-x) - range: [4...10]	*optional parameter with default value: 9L* ber threshold used to detect signal degrade alarms for onts
[no] sig-fail-th	Parameter type: <Gpon::SignalFailThreshold> Format: - signal fail threshold (x) - unit: 10 ^ (-x) - range: [3...8]	*optional parameter with default value: 5L* ber threshold used to detect a signal fail alarms for onts
[no] fec-dn	Parameter type: <Gpon::FecDn> Format: (enable | disable) Possible values: - enable : fec is enabled - disable : fec is disabled	*optional parameter with default value: "disable,ngpon : enable"* use of fec in downstream direction for all olt transmissions
[no] raman-reduct	Parameter type: <Gpon::RamanReduct> Format: (enable | disable) Possible values: - enable : raman reduction code enabled - disable : raman reduction code disabled	*optional parameter with default value: "disable"* use of raman reduction code for overlay video in downstream direction
[no] closest-ont	Parameter type: <Gpon::OntDistance>	*optional parameter with default*

Parameter	Type	Description
	Format: - closest ont distance(ngpon range is [0,20] unit: km) - unit: km - range: [0...40]	*value: 0L* the distance of the closest ont on the pon
[no] diff-reach	Parameter type: <Gpon::PonDiffReach> Format: - pon differential reach(ngpon range is [20,40] unit: km) - unit: km - range: [20,34,40]	*optional parameter with default value: 20L* the maximum differential logical reach on the PON
[no] pon-tag	Parameter type: <Gpon::PonTag> Format: - Pon Tag - 16 hex characters - length: x<=16	*optional parameter with default value: "0000000000000000"* label of the pon port
[no] pon-id	Parameter type: <Gpon::PonXgId> Format: - Pon Id - 8 hex characters - length: x<=8	*optional parameter with default value: "00000000"* label of the pon port
[no] mcast-encrypt	Parameter type: <Gpon::McEncrypt> Format: (enable | disable) Possible values: - enable : mcast encryption is enabled - disable : mcast encryption is disabled	*optional parameter with default value: "disable"* Multicast encryption enable
[no] auth-method	Parameter type: <Gpon::AuthMethod> Format: (sn-slid | logical | loidpre | logical-std | loidpre-std | loid-sn-slid) Possible values: - sn-slid : sn and slid authentication - logical : logical authentication - loidpre : loid precedence mix authentication - logical-std : standard logical authentication - loidpre-std : standard loid precedence mix authentication - loid-sn-slid : loid,sn and slid mixing authentication	*optional parameter with default value: "sn-slid"* ont authentication mode option for this pon interface level
[no] ponid-interval	Parameter type: <Gpon::GponIdInterval> Format: - interval time - unit: second - range: [0...60]	*optional parameter with default value: 0L* interval to send GPON-ID PLOAM message in second
[no] ponid-odn	Parameter type: <Gpon::GponIdOdn> Format: (a | b | bplus | c | cplus | auto) Possible values: - a : ODN Level A - b : ODN Level B - bplus : ODN Level B+ - c : ODN Level C	*optional parameter with default value: "auto"* ODN class of the pon port

Parameter	Type	Description
	- cplus : ODN Level C+ - auto : Auto Detected	
[no] ponid-identifier	Parameter type: <Gpon::GponId> Format: - Pon Id - 14 hex characters - length: 14	*optional parameter with default value: "00000000000000"* label of the pon port
[no] max-ranging-onts	Parameter type: <Gpon::MaxRangingOnts> Format: - ranging onts number;if 0 indicates bandwidth calculated by provisioned onts; other value indicates pre-configured onts - range: [0...128]	*optional parameter with default value: 128L* max ranging ont number for guaranteed bandwidth cac
[no] tconts-per-frame	Parameter type: <Gpon::TcontsPerFrame> Format: - maximum number of tconts per upstream frame, to calculate guaranteed bandwidth(GPON range is [1...64], XGSPON and XGPON1 range[0...64]) - range: [0...64]	*optional parameter with default value: "64L,xgs : 44L,ngpon : 16L"* max service tcont number per gtc frame
[no] admin-state	Parameter type: <Gpon::ItfAdminStatus> Format: (up | down) Possible values: - up : set the admin-state to up - down : set the admin-state to down	*optional parameter with default value: "down"* *The parameter is not visible during creation.* administrative status of the interface
[no] pon-speed	Parameter type: <Gpon::PonSpeed> Format: (nominal | 10g-10g | 10g-2.5g) Possible values: - nominal : nominal line rate of the pon technology : 2.5g down / 1.25g up for gpon; 10g down / dual-rate up for ngpon - 10g-10g : 10g down / 10g up - 10g-2.5g : 10g down / 2.5g up	*optional parameter with default value: "nominal"* pon speed
[no] burst-overhead	Parameter type: <Gpon::BurstModeOverhead> Format: (robust | reduced) Possible values: - robust : robust - reduced : reduced	*optional parameter with default value: "robust"* burst mode overhead
[no] onu-prov-mode	Parameter type: <Gpon::OnuProvMode> Format: (semi-auto | auto) Possible values: - semi-auto : ONU semi-auto provisioning. Template file needs to be specified in ONT config - auto : ONU auto provisioning. Template file selection done automatically based on ONT type	*optional parameter with default value: "semi-auto"* ONU auto provisioning mode

Command Output

Table 58.3-3 "Pon Interface Configuration Command" Display parameters

Specific Information

name	Type	Description
oper-state	Parameter type: <Itf::ifOperStatus> (up | down | testing | unknown | dormant | no-value) Possible values: - up : up,traffic can pass - down : down,no traffic is passing - testing : testing,no traffic is passing - unknown : unknown - dormant : dormant,no traffic is passing - no-value : no entry in the table	operational state of the interface *This element is always shown.*

58.4 Pon GEM Port Performance Monitoring Configuration Command

Command Description

This command allows the operator to set the PM mode of OLT side GEM based counters for errored fragments.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) tc-layer [no pm-collect | pm-collect <Gpon::OntPmTcaCollect>]

Command Parameters

Table 58.4-1 "Pon GEM Port Performance Monitoring Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.4-2 "Pon GEM Port Performance Monitoring Configuration Command" Command

Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::OntPmTcaCollect> Format: (none | pm-enable | tca-enable) Possible values: - none : no pm - pm-enable : enable pm - tca-enable : enable tca	*optional parameter with default value: "pm-enable"* olt-side aggregate TC Layer performance monitoring

58.5 OLT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for PON

Command Description

This command allows the operator to enable configuration of performance Monitoring counter thresholds for OLT-Side TC-layer errored fragments.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) tc-layer-threshold [no error-frags-up | error-frags-up <Gpon::TcaThresholdValue>]

Command Parameters

Table 58.5-1 "OLT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for PON" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId>	pon index

Resource Identifier	Type	Description
	- the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	

Table 58.5-2 "OLT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for PON" Command Parameters

Parameter	Type	Description
[no] error-frags-up	Parameter type: <Gpon::TcaThresholdValue> Format: (disabled | <Gpon::TcaThresholdValue>) Possible values: - disabled : threshold is disabled Field type <Gpon::TcaThresholdValue> - tc-layer tca threshold value (4294967295=disabled) - range: [0...4294967294,4294967295]	*optional parameter with default value: "disabled"* tca setting for errored gem fragments

58.6 Multicast TC-layer Performance Monitoring Command for PON

Command Description

This command allows the operator to enable or disable the OLT-side Multicast Port Performance Monitor collection for the PON.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) mcast-tc-layer [no pm-collect | pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 58.6-1 "Multicast TC-layer Performance Monitoring Command for PON" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.6-2 "Multicast TC-layer Performance Monitoring Command for PON" Command Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* OLT-side multicast performance monitoring

Command Output

Table 58.6-3 "Multicast TC-layer Performance Monitoring Command for PON" Display parameters

Specific Information		
name	**Type**	**Description**
interval-no	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponMulticastServiceOltsideGemInterva *This element is always shown.*

58.7 XGPON Physical-layer Performance Monitoring Command for PON

Command Description

This command allows the operator to enable or disable the OLT-side XGPON Physical Performance Monitor collection for the PON.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) phy-layer [no pm-collect | pm-collect <Gpon::PmEnable>]

Command Parameters

Table 58.7-1 "XGPON Physical-layer Performance Monitoring Command for PON" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.7-2 "XGPON Physical-layer Performance Monitoring Command for PON" Command Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::PmEnable> Format: (disable | enable) Possible values: - disable : disable the collection - enable : enable the collection	*optional parameter with default value: "disable"* OLT-side XGPON Physical performance monitoring

Command Output

Table 58.7-3 "XGPON Physical-layer Performance Monitoring Command for PON" Display parameters

Specific Information		
name	**Type**	**Description**
interval-no	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponMulticastServiceOltsideGemInterva *This element is always shown.*

58.8 XGPON Upstream FEC Performance Monitoring Command for PON

Command Description

This command allows the operator to enable or disable the OLT-side XGPON upstream FEC Performance Monitor collection for the PON.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) fec-tc-layer [no pm-collect | pm-collect <Gpon::PmEnable>]

Command Parameters

Table 58.8-1 "XGPON Upstream FEC Performance Monitoring Command for PON" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.8-2 "XGPON Upstream FEC Performance Monitoring Command for PON" Command Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::PmEnable> Format: (disable | enable) Possible values: - disable : disable the collection - enable : enable the collection	*optional parameter with default value: "disable"* OLT-side upstream FEC performance monitoring

Command Output

Table 58.8-3 "XGPON Upstream FEC Performance Monitoring Command for PON" Display parameters

Specific Information		
name	**Type**	**Description**
interval-no	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponMulticastServiceOltsideGemInterva *This element is always shown.*

58.9 XGPON TC-layer Performance Monitoring Command for PON

Command Description

This command allows the operator to enable or disable the OLT-side XGPON TC-layer Performance Monitor collection for the PON.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) xg-tc-layer [no pm-collect | pm-collect <Gpon::PmEnable>]

Command Parameters

Table 58.9-1 "XGPON TC-layer Performance Monitoring Command for PON" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.9-2 "XGPON TC-layer Performance Monitoring Command for PON" Command Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::PmEnable> Format: (disable | enable) Possible values: - disable : disable the collection - enable : enable the collection	*optional parameter with default value: "disable"* OLT-side tc-layer performance monitoring

Command Output

Table 58.9-3 "XGPON TC-layer Performance Monitoring Command for PON" Display parameters

Specific Information		
name	**Type**	**Description**
interval-no	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponMulticastServiceOltsideGemInterva *This element is always shown.*

58.10 OTDR enable Command for PON

Command Description

This command allows the operator to enable or disable the otdr functionality on the given pon.

Besides the enable and disable option, a third option "test" is possible. This option is only to be used in lab conditions to immediately collect the otdr measurement data and as a result generate load on the i2c bus.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) otdr [no mode | mode <Gpon::OTDRenable>]

Command Parameters

Table 58.10-1 "OTDR enable Command for PON" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.10-2 "OTDR enable Command for PON" Command Parameters

Parameter	Type	Description
[no] mode	Parameter type: <Gpon::OTDRenable> Format: (enable | disable | test) Possible values: - enable : otdr enable - disable : otdr disable - test : otdr test : only to be used in lab conditions	*optional parameter with default value: "disable"* enable otdr

58.11 PON Utilization PM Configuration Command

Command Description

This command configures the PON and ONT utilization performance monitoring modes for a PON.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) utilization [no pon-pmcollect | pon-pmcollect <Gpon::PonUtilPmTcaCollect>] [no ont-pmcollect | ont-pmcollect <Gpon::PonUtilOntPmCollect>] [no ontbulk-pmcollect | ontbulk-pmcollect <Gpon::OntPmCollect>]

Command Parameters

Table 58.11-1 "PON Utilization PM Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.11-2 "PON Utilization PM Configuration Command" Command Parameters

Parameter	Type	Description
[no] pon-pmcollect	Parameter type: <Gpon::PonUtilPmTcaCollect>	*optional parameter with default*

Parameter	Type	Description
	Format: (none | pm-enable | tca-enable | inherit) Possible values: - none : no pm - pm-enable : enable pm - tca-enable : enable tca - inherit : inherit from generic-pon (system-wide) pon-pmcollect and threshold values	*value: "inherit"* pon utilization performance monitoring
[no] ont-pmcollect	Parameter type: <Gpon::PonUtilOntPmCollect> Format: (enable | disable | inherit) Possible values: - enable : enable PM - disable : disable PM - inherit : inherit from generic-pon (system-wide) ont-pmcollect value	*optional parameter with default value: "inherit"* pon utilization ont detailed performance monitoring
[no] ontbulk-pmcollect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* pon utilization ont pm bulk collectable via BFMU

58.12 PON Utilization TCA Threshold Configuration Command

Command Description

This command configures the utilization TCA threshold parameters for a PON.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) utilization threshold [no txmcutilhi | txmcutilhi <Gpon::PonUtilTcaThresholdPercent>] [no txmcutilmd | txmcutilmd <Gpon::PonUtilTcaThresholdPercent>] [no txmcutillo | txmcutillo <Gpon::PonUtilTcaThresholdPercent>] [no txtotutilhi | txtotutilhi <Gpon::PonUtilTcaThresholdPercent>] [no txtotutilmd | txtotutilmd <Gpon::PonUtilTcaThresholdPercent>] [no txtotutillo | txtotutillo <Gpon::PonUtilTcaThresholdPercent>] [no rxtotutilhi | rxtotutilhi <Gpon::PonUtilTcaThresholdPercent>] [no rxtotutilmd | rxtotutilmd <Gpon::PonUtilTcaThresholdPercent>] [no rxtotutillo | rxtotutillo <Gpon::PonUtilTcaThresholdPercent>] [no dbacongperiodhi | dbacongperiodhi <Gpon::PonUtilTcaThresholdPercent>] [no dbacongperiodmd | dbacongperiodmd <Gpon::PonUtilTcaThresholdPercent>] [no dbacongperiodlo | dbacongperiodlo <Gpon::PonUtilTcaThresholdPercent>] [no txucdropfrmhi | txucdropfrmhi <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txucdropfrmmd | txucdropfrmmd <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txucdropfrmlo | txucdropfrmlo <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txmcdropfrmhi | txmcdropfrmhi <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txmcdropfrmmd | txmcdropfrmmd <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txmcdropfrmlo | txmcdropfrmlo <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txbcdropfrmhi | txbcdropfrmhi <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txbcdropfrmmd | txbcdropfrmmd <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no txbcdropfrmlo | txbcdropfrmlo <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no rxtotdropfrmhi | rxtotdropfrmhi <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no rxtotdropfrmmd | rxtotdropfrmmd <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no rxtotdropfrmlo | rxtotdropfrmlo <Gpon::PonUtilTcaDroppedPacketsThreshold>] [no numtcint | numtcint <Gpon::PonUtilTcaInterval>] [no numtcintdba | numtcintdba <Gpon::PonUtilTcaInterval>] [no dbacongthresh | dbacongthresh <Gpon::PonUtilTcaCongThreshold>]

Command Parameters

Table 58.12-1 "PON Utilization TCA Threshold Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> /	pon index

Resource Identifier	Type	Description
	<Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	

Table 58.12-2 "PON Utilization TCA Threshold Configuration Command" Command Parameters

Parameter	Type	Description
[no] txmcutilhi	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-TXMCUTILHI alarm
[no] txmcutilmd	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-TXMCUTILMD alarm
[no] txmcutillo	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-TXMCUTILLO alarm
[no] txtotutilhi	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent>	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-TXTOTUTILHI alarm

Parameter	Type	Description
	- utilization percentage threshold - range: [0...100]	
[no] txtotutilmd	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-TXTOTUTILMD alarm
[no] txtotutillo	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-TXTOTUTILLO alarm
[no] rxtotutilhi	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-RXTOTUTILHI alarm
[no] rxtotutilmd	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-RXTOTUTILMD alarm
[no] rxtotutillo	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-RXTOTUTILLO alarm
[no] dbacongperiodhi	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-DBACONGPERIODHI alarm
[no] dbacongperiodmd	Parameter type: <Gpon::PonUtilTcaThresholdPercent>	*optional parameter with default*

Parameter	Type	Description
	Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*value: "disabled"* Utilization level (percentage) that will result in declaration of T-DBACONGPERIODMD alarm
[no] dbacongperiodlo	Parameter type: <Gpon::PonUtilTcaThresholdPercent> Format: (disabled | <Gpon::PonUtilTcaThresholdPercent>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaThresholdPercent> - utilization percentage threshold - range: [0...100]	*optional parameter with default value: "disabled"* Utilization level (percentage) that will result in declaration of T-DBACONGPERIODLO alarm
[no] txucdropfrmhi	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXUCDROPFRMHI alarm
[no] txucdropfrmmd	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXUCDROPFRMMD alarm
[no] txucdropfrmlo	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXUCDROPFRMLO alarm
[no] txmcdropfrmhi	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXMCDROPFRMHI alarm

Parameter	Type	Description
[no] txmcdropfrmmd	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXMCDROPFRMMD alarm
[no] txmcdropfrmlo	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXMCDROPFRMLO alarm
[no] txbcdropfrmhi	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXBCDROPFRMHI alarm
[no] txbcdropfrmmd	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXBCDROPFRMMD alarm
[no] txbcdropfrmlo	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-TXBCDROPFRMLO alarm
[no] rxtotdropfrmhi	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled	*optional parameter with default value: "disabled"* Dropped frames that will result in declaration of T-RXTOTCDROPFRMHI alarm

Parameter	Type	Description
	Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	
[no] rxtotdropfrmmd	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-RXTOTDROPFRMMD alarm
[no] rxtotdropfrmlo	Parameter type: <Gpon::PonUtilTcaDroppedPacketsThreshold> Format: (disabled | <Gpon::PonUtilTcaDroppedPacketsThreshold>) Possible values: - disabled : threshold is disabled Field type <Gpon::PonUtilTcaDroppedPacketsThreshold> - dropped frames threshold - range: [0...1000000000]	*optional parameter with default value: "disabled"* Number of dropped frames that will result in declaration of T-RXTOTCDROPFRMLO alarm
[no] numtcint	Parameter type: <Gpon::PonUtilTcaInterval> Format: (1 | <Gpon::PonUtilTcaInterval>) Possible values: - 1 : Initial Default Field type <Gpon::PonUtilTcaInterval> - interval threshold - range: [1...96]	*optional parameter with default value: "1"* Number of contiguous 5-minute intervals for the non-DBA PON utilization thresholds to be exceeded for TCA alarm generation or clearing
[no] numtcintdba	Parameter type: <Gpon::PonUtilTcaInterval> Format: (1 | <Gpon::PonUtilTcaInterval>) Possible values: - 1 : Initial Default Field type <Gpon::PonUtilTcaInterval> - interval threshold - range: [1...96]	*optional parameter with default value: "1"* Number of contiguous 5-minute intervals for the DBA PON congestion thresholds to be exceeded for TCA alarm generation or clearing
[no] dbacongthresh	Parameter type: <Gpon::PonUtilTcaCongThreshold> Format: (90 | <Gpon::PonUtilTcaCongThreshold>) Possible values: - 90 : Initial Default Field type <Gpon::PonUtilTcaCongThreshold> - dba congestion percentage threshold - range: [0...100]	*optional parameter with default value: "90"* Configured DBA congestion threshold as a percentage of the maximum consumable bandwidth

58.13 Deactivate Ont threshold Configuration Commands

Command Description

This command allows the operator to configure deactivate ont threshold.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) deact-ont-tca [no mode | mode <Gpon::DeactOnuTcaMode>] [no monitor-interval | monitor-interval <Gpon::DeactOnuInterval>]

Command Parameters

Table 58.13-1 "Deactivate Ont threshold Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.13-2 "Deactivate Ont threshold Configuration Commands" Command Parameters

Parameter	Type	Description
[no] mode	Parameter type: <Gpon::DeactOnuTcaMode> Format: (disable | percent | number) Possible values: - disable : disable mode - percent : percentage mode - number : number mode	*optional parameter with default value: "disable"* Used to specify PON or Channel-Pair deactivated ONT detection mode.
[no] monitor-interval	Parameter type: <Gpon::DeactOnuInterval> Format: - tca interval - unit: second - range: [5...300]	*optional parameter with default value: 30L* Used to specify PON or Channel-Pair deactivated ONT detection interval.

58.14 Deactivate Ont threshold Configuration Commands

Command Description

This command allows the operator to configure deactivate ont threshold.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) deact-ont-tca threshold-percent [no high | high <Gpon::DeactOnuTcaPctHigh>] [no high-clr | high-clr <Gpon::DeactOnuTcaPctHigh>] [no low | low <Gpon::DeactOnuTcaPctLow>] [no low-clr | low-clr <Gpon::DeactOnuTcaPctLow>]

Command Parameters

Table 58.14-1 "Deactivate Ont threshold Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.14-2 "Deactivate Ont threshold Configuration Commands" Command Parameters

Parameter	Type	Description
[no] high	Parameter type: <Gpon::DeactOnuTcaPctHigh> Format: - tca threshold in percent - range: [1...100]	*optional parameter with default value: 90L* Used to specify PON or Channel-Pair deactivated ONT detection high threshold in percent.
[no] high-clr	Parameter type: <Gpon::DeactOnuTcaPctHigh> Format: - tca threshold in percent - range: [1...100]	*optional parameter with default value: 90L* Used to specify PON or Channel-Pair deactivated ONT detection high clear threshold in percent.
[no] low	Parameter type: <Gpon::DeactOnuTcaPctLow> Format: - tca threshold in percent - range: [1...100]	*optional parameter with default value: 40L* Used to specify PON or Channel-Pair deactivated ONT detection low threshold in percent.
[no] low-clr	Parameter type: <Gpon::DeactOnuTcaPctLow> Format: - tca threshold in percent - range: [1...100]	*optional parameter with default value: 40L* Used to specify PON or Channel-Pair deactivated ONT detection low clear threshold in percent.

58.15 Deactivate Ont threshold Configuration Commands

Command Description

This command allows the operator to configure deactivate ont threshold.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon interface (pon-idx) deact-ont-tca threshold-number [no high | high <Gpon::DeactOnuTcaNbrHigh>] [no high-clr | high-clr <Gpon::DeactOnuTcaNbrHigh>] [no low | low <Gpon::DeactOnuTcaNbrLow>] [no low-clr | low-clr <Gpon::DeactOnuTcaNbrLow>]

Command Parameters

Table 58.15-1 "Deactivate Ont threshold Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(pon-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> | x-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> | 25g-pon : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId>) Possible values: - 25g-pon : 25g pon - x-pon : Xgs pon Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::XPonId> - the XGS PON identifier Field type <Eqpt::M25GPonId> - the 25G PON identifier	pon index

Table 58.15-2 "Deactivate Ont threshold Configuration Commands" Command Parameters

Parameter	Type	Description
[no] high	Parameter type: <Gpon::DeactOnuTcaNbrHigh> Format: - tca threshold in number - range: [1...128]	*optional parameter with default value: 57L* Used to specify PON or Channel-Pair deactivated ONT detection high threshold in number.
[no] high-clr	Parameter type: <Gpon::DeactOnuTcaNbrHigh> Format: - tca threshold in number - range: [1...128]	*optional parameter with default value: 57L* Used to specify PON or Channel-Pair deactivated ONT detection high clear threshold in number.
[no] low	Parameter type: <Gpon::DeactOnuTcaNbrLow> Format: - tca threshold in number - range: [1...128]	*optional parameter with default value: 25L* Used to specify PON or Channel-Pair deactivated ONT detection low threshold in number.
[no] low-clr	Parameter type: <Gpon::DeactOnuTcaNbrLow> Format: - tca threshold in number - range: [1...128]	*optional parameter with default value: 25L* Used to specify PON or Channel-Pair deactivated ONT detection low clear threshold in number.

58.16 Power Shedding Profile Configuration Command

Command Description

Obsolete command, replaced by configure generic-pon power-shed-prof.

This command allows the operator to configure the Power Shedding Profiles.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon (no power-shed-prof (profile-idx)) | (power-shed-prof (profile-idx) profile-name <AsamProfileName> [no restore-time | restore-time <Gpon::RestoreTime>] [no data-class-time | data-class-time <Gpon::DataClassTime>] [no voice-class-time | voice-class-time <Gpon::VoiceClassTime>] [no video-class-time | video-class-time <Gpon::VideoClassTime>] [no dsl-class-time | dsl-class-time <Gpon::DslClassTime>] [no ces-class-time | ces-class-time <Gpon::CesClassTime>])

Obsolete command, replaced by configure generic-pon power-shed-prof.

Command Parameters

Table 58.16-1 "Power Shedding Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(profile-idx)	Format: - profile index - range: [1...50]	profile index

Table 58.16-2 "Power Shedding Profile Configuration Command" Command Parameters

Parameter	Type	Description
profile-name	Parameter type: <AsamProfileName> Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	*mandatory parameter* *The parameter is not visible during modification.* name of the profile
[no] restore-time	Parameter type: <Gpon::RestoreTime> Format: - zero means no-shed, and one means immediate-shed - unit: secs - range: [0...28800]	*optional parameter with default value: 0L* *The parameter is not visible during modification.* time delay required before resetting timers to zero after a full power restore

Parameter	Type	Description
[no] data-class-time	Parameter type: <Gpon::DataClassTime> Format: - zero means no-shed, and one means immediate-shed - unit: secs - range: [0...28800]	*optional parameter with default value: 0L* *The parameter is not visible during modification.* time delay required before shedding power for data uni classes.
[no] voice-class-time	Parameter type: <Gpon::VoiceClassTime> Format: - zero means no-shed, and one means immediate-shed - unit: secs - range: [0...28800]	*optional parameter with default value: 0L* *The parameter is not visible during modification.* the time delay required before shedding power for voice uni classes.
[no] video-class-time	Parameter type: <Gpon::VideoClassTime> Format: - zero means no-shed, and one means immediate-shed - unit: secs - range: [0...28800]	*optional parameter with default value: 0L* *The parameter is not visible during modification.* the time delay required before shedding power for the video ani class.
[no] dsl-class-time	Parameter type: <Gpon::DslClassTime> Format: - zero means no-shed, and one means immediate-shed - unit: secs - range: [0...28800]	*optional parameter with default value: 0L* *The parameter is not visible during modification.* the time delay required before shedding power for dsl uni classes.
[no] ces-class-time	Parameter type: <Gpon::CesClassTime> Format: - zero means no-shed, and one means immediate-shed - unit: secs - range: [0...28800]	*optional parameter with default value: 0L* *The parameter is not visible during modification.* the time delay required before shedding power for ces uni classes.

Command Output

Table 58.16-3 "Power Shedding Profile Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
scope	Parameter type: <Gpon::Scope> (local | network) Possible values: - local : local scope - network : network wide scope	scope of the profile *This element is always shown.*

58.17 Voice ONT Secure URI profile Configuration command

Command Description

This command creates a Secure URI Profile.

It provides (via pointers to other profiles) both the URI for accessing information plus the security information necessary to access the information

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon (no sec-uri-profile (index)) | (sec-uri-profile (index) name <AsamProfileName> [no auth-securi-prof | auth-securi-prof <Gpon::AuthProfileName>] uri-prof <Gpon::UriProfileName>)

Command Parameters

Table 58.17-1 "Voice ONT Secure URI profile Configuration command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format: - profile index - range: [1...50]	a unique profile index

Table 58.17-2 "Voice ONT Secure URI profile Configuration command" Command Parameters

Parameter	Type	Description
name	Parameter type: <AsamProfileName> Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	*mandatory parameter* *The parameter is not visible during modification.* A string 1..32 characters long which uniquely identifies this Secure URI Profile
[no] auth-securi-prof	Parameter type: <Gpon::AuthProfileName> Format: (none | <Gpon:AuthProfPtr> | name : <AsamProfileName>) Possible values: - none : no profile to associate - name : profile name Field type <Gpon:AuthProfPtr>	*optional parameter with default value: "none"* *The parameter is not visible during modification.* Authentication security profile that contains network address of the security server

Parameter	Type	Description
	- Index of the Authentication security profile - range: [0...20] Data driven field type Possible values are depending on the actual configuration and software. The currently allowed values can be shown with online-help.	
uri-prof	Parameter type: <Gpon::UriProfileName> Format: (none | <Gpon:UriProfilePtr> | name : <AsamProfileName>) Possible values: - none : no profile to associate - name : profile name Field type <Gpon:UriProfilePtr> - Index of the URI profile that contains the IP address of the server - range: [0...100] Data driven field type Possible values are depending on the actual configuration and software. The currently allowed values can be shown with online-help.	*mandatory parameter* *The parameter is not visible during modification.* uri profile that contains network address of the configuration server

Command Output

Table 58.17-3 "Voice ONT Secure URI profile Configuration command" Display parameters

Specific Information		
name	**Type**	**Description**
auth-securi-prof-name	Parameter type: <Gpon::IgnoredPrintableString> - ignored printable string	name of the authentication security uri profile *This element is only shown in detail mode.*
uri-prof-name	Parameter type: <Gpon::IgnoredPrintableString> - ignored printable string	name of the uri profile *This element is only shown in detail mode.*

58.18 GPON Authentication Security Profile Configuration Command

Command Description

This command creates the profile for accessing the server storing authentication security information for contacting network addresses. These profiles are normally associated with Voip Services that must reference common authentication information.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon (no auth-sec-prof (index)) | (auth-sec-prof (index) name <AsamProfileName> [no validation-scheme | validation-scheme <Gpon::AuthSecValScheme>] [no user-name | user-name <Gpon::AuthUserName>] [no password | password <Security::Password5>] [no realm | realm <Gpon::Realm>])

Command Parameters

Table 58.18-1 "GPON Authentication Security Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format: - profile index - range: [1...20]	profile index

Table 58.18-2 "GPON Authentication Security Profile Configuration Command" Command Parameters

Parameter	Type	Description
name	Parameter type: <AsamProfileName> Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	*mandatory parameter* *The parameter is not visible during modification.* profile name
[no] validation-scheme	Parameter type: <Gpon::AuthSecValScheme> Format: (disabled | md5-digest | basic-authentic) Possible values: - disabled : Validation disabled	*optional parameter with default value: "md5-digest"* *The parameter is not visible during modification.* validation scheme required for authentication

Parameter	Type	Description
	- md5-digest : validate using md5 digest authentication - basic-authentic : Validate using basic authentication	
[no] user-name	Parameter type: <Gpon::AuthUserName> Format: - user name required for authentication - length: x<=50	*optional parameter with default value: ""* *The parameter is not visible during modification.* user name required for authentication
[no] password	Parameter type: <Security::Password5> Format: (prompt | plain : <Security::PlainPassword5>) Possible values: - prompt : prompts the operator for a password - plain : the password in plain text Field type <Security::PlainPassword5> - authentication string - length: x<=25	*optional parameter with default value: "plain : "* *The parameter is not visible during modification.* password required for authentication
[no] realm	Parameter type: <Gpon::Realm> Format: - realm required for authentication - length: x<=25	*optional parameter with default value: ""* *The parameter is not visible during modification.* realm required for authentication

58.19 GPON URI Profile Configuration Command

Command Description

This command creates the URI profile for accessing the configuration server. These profiles are normally associated with Voip Services.

User Level

The command can be accessed by operators with equipment privileges, and executed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> configure pon (no uri-prof (index)) | (uri-prof (index) name <AsamProfileName> [no address | address <Gpon::UriProfileAddress>] [no version | version <Gpon::UriProfileVersionNbr>])

Command Parameters

Table 58.19-1 "GPON URI Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format: - profile index - range: [1...100]	profile index

Table 58.19-2 "GPON URI Profile Configuration Command" Command Parameters

Parameter	Type	Description
name	Parameter type: <AsamProfileName> Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	*mandatory parameter* *The parameter is not visible during modification.* profile name
[no] address	Parameter type: <Gpon::UriProfileAddress> Format: - uri profile address - length: x<=100	*optional parameter with default value: ""* uri profile address that contains a Fully Qualified Domain Name (FQDN) or an IP Address (in dot notation)
[no] version	Parameter type: <Gpon::UriProfileVersionNbr> Format: - uri profile version number - range: [1...2147483647]	*optional parameter with default value: 1L* uri profile version number