# 68- Channel Pair Configuration Commands

# 68.1 Channel Pair Configuration Command Tree

## Description

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

## Command Tree

**----configure**
**----channel-pair**
**----profiles**
**----[no] wavelength-prof**
**- (profile-idx)**
- name
- upstream-channel-id
- downstream-channel-id
- downstream-lambda

**----interface**
**- (chanpair-idx)**
- [no] label
- [no] pon-tag
- [no] x-pon-id
- [no] max-ranging-onts
- [no] tconts-per-frame
- [no] ber-calc-period
- [no] sig-degrade-th
- [no] sig-fail-th
- [no] wavelength-prof
- [no] channel-speed
- [no] burst-overhead
- [no] admin-label
- [no] onu-prov-mode
- [no] admin-state

**----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

**----troubleshooting**
**----[no] enable**
**----threshold**
- [no] upstr-bw-thresh
- [no] downstr-bw-thresh

**----utilization**
- [no] chpair-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

**----troubleshooting**
- [no] bw-meter-interval

# 68.2 Channel Pair Profiles Configuration Command

## Command Description

*This command allows the operator to configure the provisioning data associated with a channel pair profile.*

## 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 channel-pair profiles

# 68.3 Channel-Pair Wavelength Profile Configuration Command

## Command Description

*This command allows the operator to configure the Channel-pair Wavelength 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 channel-pair profiles ( no wavelength-prof (profile-idx) ) | ( wavelength-prof (profile-idx) name <AsamProfileName> upstream-channel-id <Gpon::ChannelId> downstream-channel-id <Gpon::ChannelId> downstream-lambda <Gpon::DownstreamLambda> )

## Command Parameters

**Table 68.3-1 "Channel-Pair Wavelength Profile Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (profile-idx) | Format:<br>- profile index (Note that index [1..8], 33 and 34 are used for the default profiles)<br>- range: [1...34] | profile index |

**Table 68.3-2 "Channel-Pair Wavelength Profile Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| name | Parameter type: <AsamProfileName><br>Format:<br>- a profile name<br>- range: [a-zA-Z0-9-_.]<br>- length: 1<=x<=32 | *mandatory parameter*<br>*The parameter is not visible during modification.*<br>name of the profile |
| upstream-channel-id | Parameter type: <Gpon::ChannelId><br>Format:<br>- channel id<br>- range: [1...16] | *mandatory parameter*<br>*The parameter is not visible during modification.*<br>up-channel id, must be 1 in case of XGS-PON |
| downstream-channel-id | Parameter type: <Gpon::ChannelId><br>Format:<br>- channel id<br>- range: [1...16] | *mandatory parameter*<br>*The parameter is not visible during modification.*<br>down-channel id |
| downstream-lambda | Parameter type: <Gpon::DownstreamLambda><br>Format: | *mandatory parameter*<br>*The parameter is not visible* |

| Parameter | Type | Description |
|---|---|---|
| | - downstream lambda range for a channel-pair<br>- range: [131000,149000,156000...161000] | *during modification.*<br>downstream wavelength for the channel-pair using this profile |

# 68.4 Channel Pair Interface Configuration Command

## Command Description

*This command allows the operator to configure the provisioning data associated with a channel pair interface.*

*The value of channel-speed can be only changed if the channel pair is not currently a member of a subchannelgroup. All channel pairs in a subchannelgroup must have the same channel-speed. The equipped optics will not be checked against the configured speed. It is up to the operator to ensure that these match.*

## 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 channel-pair interface (chanpair-idx) [ no label | label <Gpon::Label> ] [ no pon-tag | pon-tag <Gpon::PonTag> ] [ no x-pon-id | x-pon-id <Ng2::XPonId> ] [ no max-ranging-onts | max-ranging-onts <Ng2::ChanPairMaxRangingOnts> ] [ no tconts-per-frame | tconts-per-frame <Ng2::ChanPairTcontsPerFrame> ] [ no ber-calc-period | ber-calc-period <Ng2::ChanPairBerPeriod> ] [ no sig-degrade-th | sig-degrade-th <Ng2::ChanPairSdThreshold> ] [ no sig-fail-th | sig-fail-th <Ng2::ChanPairSfThreshold> ] [ no wavelength-prof | wavelength-prof <Gpon::WavelengthProfile> ] [ no channel-speed | channel-speed <Gpon::ChannelSpeed> ] [ no burst-overhead | burst-overhead <Gpon::BurstModeOverhead> ] [ no admin-label | admin-label <Ng2::AdminLabel> ] [ no onu-prov-mode | onu-prov-mode <Gpon::OnuProvMode> ] [ no admin-state | admin-state <Gpon::ItfAdminStatus> ]

## Command Parameters

**Table 68.4-1 "Channel Pair Interface Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.4-2 "Channel Pair Interface Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] label | Parameter type: <Gpon::Label><br>Format:<br>- char string<br>- length: x<=80 | *optional parameter with default value: ""*<br>label of the channel pair port |
| [no] pon-tag | Parameter type: <Gpon::PonTag><br>Format:<br>- Pon Tag - 16 hex characters<br>- length: x<=16 | *optional parameter with default value: "0000000000000000"*<br>label of the channel-pair port |
| [no] x-pon-id | Parameter type: <Ng2::XPonId><br>Format:<br>- Pon Id - 8 hex characters<br>- length: x<=8 | *optional parameter with default value: "00000000"*<br>label of the channelpair port, used when channelpair is in XGS-mode |
| [no] max-ranging-onts | Parameter type: <Ng2::ChanPairMaxRangingOnts><br>Format:<br>- ranging onts number;if 0 indicates bandwidth calculated by provisioned onts; other value indicates pre-configured onts<br>- range: [0...128] | *optional parameter with default value: 128L*<br>max ranging ont number for guaranteed bandwidth cac |
| [no] tconts-per-frame | Parameter type: <Ng2::ChanPairTcontsPerFrame><br>Format:<br>- tcont number to calculate the guaranteed bandwidth. Range: XGSPON and XGPON1 [0..64], NGPON2 [0..16]<br>- range: [0...64] | *optional parameter with default value: 16L*<br>max service tcont number per gtc frame |
| [no] ber-calc-period | Parameter type: <Ng2::ChanPairBerPeriod><br>Format:<br>- ber caculate period used to detect determine whether an SDi/SFi alarm has occurred for an ONT. default = 10<br>- unit: 1/10 sec<br>- range: [1...864000] | *optional parameter with default value: 10L*<br>ber caculate period used to detect determine whether an SDi/SFi alarm has occurred for an ONT |
| [no] sig-degrade-th | Parameter type: <Ng2::ChanPairSdThreshold><br>Format:<br>- ber threshold used to detect a signal degrade alarms for onts default = 9<br>- range: [4...10] | *optional parameter with default value: 9L*<br>the BER threshold used to detect Signal Degrade alarms for ONTs on this PON |
| [no] sig-fail-th | Parameter type: <Ng2::ChanPairSfThreshold><br>Format:<br>- ber threshold used to detect a signal fail alarms for onts default = 5<br>- range: [3...8] | *optional parameter with default value: 5L*<br>the BER threshold used to detect Signal Fail alarms for ONTs on this PON |
| [no] wavelength-prof | Parameter type: <Gpon::WavelengthProfile><br>Format:<br>( none<br>\| <Gpon::WavelengthProfile><br>\| name : <AsamProfileName> )<br>Possible values:<br>- none : no profile to associate<br>- name : profile name<br>Field type <Gpon::WavelengthProfile><br>- profile index<br>- range: [0...34]<br>Data driven field type<br>Possible values are depending on the actual configuration and software.<br>The currently allowed values can be shown with online-help. | *optional parameter with default value: "none"*<br>wavelength profile |
| [no] channel-speed | Parameter type: <Gpon::ChannelSpeed><br>Format:<br>( unplanned | *optional parameter with default value: "unplanned"*<br>channel speed |

| Parameter | Type | Description |
|---|---|---|
| | \| 10g-10g<br>\| 10g-2.5g<br>\| 2.5g-2.5g<br>\| 10g-dualrate )<br>Possible values:<br>- unplanned : unplanned<br>- 10g-10g : 10g down / 10g up<br>- 10g-2.5g : 10g down / 2.5g up<br>- 2.5g-2.5g : 2.5g down / 2.5 up<br>- 10g-dualrate : 10g down / dual-rate up | |
| [no] burst-overhead | Parameter type: <Gpon::BurstModeOverhead><br>Format:<br>( robust<br>\| reduced )<br>Possible values:<br>- robust : robust<br>- reduced : reduced | *optional parameter with default value: "robust"*<br>burst mode overhead |
| [no] admin-label | Parameter type: <Ng2::AdminLabel><br>Format:<br>- Admin label - 7 hex characters<br>- length: x<=7 | *optional parameter with default value: "0000000"*<br>admin label of the channelpair port, used when channelpair is in TWDM-mode |
| [no] onu-prov-mode | Parameter type: <Gpon::OnuProvMode><br>Format:<br>( semi-auto<br>\| auto )<br>Possible values:<br>- semi-auto : ONU semi-auto provisioning. Template file needs to be specified in ONT config<br>- auto : ONU auto provisioning. Template file selection done automatically based on ONT type | *optional parameter with default value: "semi-auto"*<br>ONU auto provisioning mode |
| [no] admin-state | Parameter type: <Gpon::ItfAdminStatus><br>Format:<br>( up<br>\| down )<br>Possible values:<br>- up : set the admin-state to up<br>- down : set the admin-state to down | *optional parameter with default value: "down"*<br>*The parameter is not visible during creation.*<br>administrative status of the interface |

# Command Output

**Table 68.4-3 "Channel Pair Interface Configuration Command" Display parameters**

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

| name | Type | Description |
|---|---|---|
| | - dormant : dormant,no traffic is passing<br>- no-value : no entry in the table | |
| actual-lambda-down | Parameter type: <Gpon::ActualDownstreamLambda><br>- downstream lambda range for a channel-pair<br>- range: [131000,149000,156000...161000] | the actual lambda used in downstream<br>*This element is always shown.* |

# 68.5 Channel Pair XGEM Port Performance Monitoring Configuration Command

## Command Description

*This command allows the operator to set the PM mode of OLT side XGEM 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 channel-pair interface (chanpair-idx) tc-layer [ no pm-collect | pm-collect <Gpon::OntPmTcaCollect> ]

## Command Parameters

**Table 68.5-1 "Channel Pair XGEM Port Performance Monitoring Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.5-2 "Channel Pair XGEM Port Performance Monitoring Configuration Command" Command Parameters**

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

# 68.6 OLT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for channel pair

## 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 channel-pair interface (chanpair-idx) tc-layer-threshold [ no error-frags-up | error-frags-up <Gpon::TcaThresholdValue> ]

## Command Parameters

**Table 68.6-1 "OLT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for channel pair" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.6-2 "OLT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for channel pair" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] error-frags-up | Parameter type: <Gpon::TcaThresholdValue><br>Format:<br>( disabled<br>\| <Gpon::TcaThresholdValue> ) | *optional parameter with default value: "disabled"*<br>tca setting for errored gem fragments |

| Parameter | Type | Description |
|---|---|---|
| | Possible values:<br>- disabled : threshold is disabled<br>Field type <Gpon::TcaThresholdValue><br>- tc-layer tca threshold value (4294967295=disabled)<br>- range: [0...4294967294,4294967295] | |

# 68.7 Multicast TC-layer Performance Monitoring Command for channel pair

## Command Description

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

## 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 channel-pair interface (chanpair-idx) mcast-tc-layer [ no pm-collect | pm-collect <Gpon::OntPmCollect> ]

## Command Parameters

**Table 68.7-1 "Multicast TC-layer Performance Monitoring Command for channel pair" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.7-2 "Multicast TC-layer Performance Monitoring Command for channel pair" Command Parameters**

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

## Command Output

**Table 68.7-3 "Multicast TC-layer Performance Monitoring Command for channel pair" Display parameters**

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

# 68.8 NGPON2 Physical-layer Performance Monitoring Command for channel pair

## Command Description

*This command allows the operator to enable or disable the OLT-side NGPON2 Physical Performance Monitor collection for the channel pair.*

## 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 channel-pair interface (chanpair-idx) phy-layer [ no pm-collect | pm-collect <Gpon::PmEnable> ]

## Command Parameters

**Table 68.8-1 "NGPON2 Physical-layer Performance Monitoring Command for channel pair" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.8-2 "NGPON2 Physical-layer Performance Monitoring Command for channel pair" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] pm-collect | Parameter type: <Gpon::PmEnable><br>Format:<br>( disable<br>\| enable )<br>Possible values:<br>- disable : disable the collection<br>- enable : enable the collection | *optional parameter with default value: "disable"*<br>OLT-side NGPON2 Physical performance monitoring |

# Command Output

**Table 68.8-3 "NGPON2 Physical-layer Performance Monitoring Command for channel pair" Display parameters**

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

# 68.9 NGPON2 Upstream FEC Performance Monitoring Command for channel pair

## Command Description

*This command allows the operator to enable or disable the OLT-side NGPON2 upstream FEC Performance Monitor collection for the channel pair.*

## 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 channel-pair interface (chanpair-idx) fec-tc-layer [ no pm-collect | pm-collect <Gpon::PmEnable> ]

## Command Parameters

**Table 68.9-1 "NGPON2 Upstream FEC Performance Monitoring Command for channel pair" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.9-2 "NGPON2 Upstream FEC Performance Monitoring Command for channel pair" Command Parameters**

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

# Command Output

**Table 68.9-3 "NGPON2 Upstream FEC Performance Monitoring Command for channel pair" Display parameters**

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

# 68.10 NGPON2 TC-layer Performance Monitoring Command for channel pair

## Command Description

*This command allows the operator to enable or disable the OLT-side NGPON2 TC-layer Performance Monitor collection for the channel pair.*

## 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 channel-pair interface (chanpair-idx) xg-tc-layer [ no pm-collect | pm-collect <Gpon::PmEnable> ]

## Command Parameters

**Table 68.10-1 "NGPON2 TC-layer Performance Monitoring Command for channel pair" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.10-2 "NGPON2 TC-layer Performance Monitoring Command for channel pair" Command Parameters**

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

## Command Output

**Table 68.10-3 "NGPON2 TC-layer Performance Monitoring Command for channel pair" Display parameters**

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

# 68.11 Trouble shooting Configuration Command

## Command Description

*This command is to configure the channel-pair threshold of bytes up or 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 channel-pair interface (chanpair-idx) troubleshooting

## Command Parameters

**Table 68.11-1 "Trouble shooting Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

# 68.12 Trouble-shooting Interface Configuration Commands

## Command Description

*This command allows the operator to enable or disable the extensive trouble-shooting counters.*

*By default troubleshooting is not enabled on a channelpair.*

*Note however that this default is not displayed by an info config neither info config detail.*

*When troubleshooting is enabled on a specific channelpair, info config and info config detail will both report it.*

## User Level

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

## Command Syntax

The command has the following syntax:

> configure channel-pair interface (chanpair-idx) troubleshooting ( no enable ) | ( enable )

## Command Parameters

**Table 68.12-1 "Trouble-shooting Interface Configuration Commands" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

# 68.13 Trouble shooting Configuration Command

## Command Description

*This command is to configure the channel-pair threshold of bytes up or 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 channel-pair interface (chanpair-idx) troubleshooting threshold [ no upstr-bw-thresh | upstr-bw-thresh <Gpon::TrbstBwThUp> ] [ no downstr-bw-thresh | downstr-bw-thresh <Gpon::TrbstBwThDn> ]

## Command Parameters

**Table 68.13-1 "Trouble shooting Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.13-2 "Trouble shooting Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] upstr-bw-thresh | Parameter type: <Gpon::TrbstBwThUp><br>Format:<br>- the attribute is used to specify the average rate threshold in kbps for upstream traffic,0 is disable<br>- range: [0...4294967295] | *optional parameter with default value: "0"*<br>the attribute is used to specify the average rate threshold in kbps for upstream traffic,0 is disable |
| [no] downstr-bw-thresh | Parameter type: <Gpon::TrbstBwThDn><br>Format:<br>- the attribute is used to specify the average rate threshold in kbps for downstream traffic,0 is disable<br>- range: [0...4294967295] | *optional parameter with default value: "0"*<br>the attribute is used to specify the average rate threshold in kbps for downstream traffic,0 is disable |

# 68.14 Channel Pair Utilization PM Configuration Command

## Command Description

*This command configures the channel-pair and ont utilization performance monitoring modes for a channel-pair.*

## 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 channel-pair interface (chanpair-idx) utilization [ no chpair-pmcollect | chpair-pmcollect <Gpon::PonUtilPmTcaCollect> ] [ no ont-pmcollect | ont-pmcollect <Gpon::PonUtilOntPmCollect> ] [ no ontbulk-pmcollect | ontbulk-pmcollect <Gpon::OntPmCollect> ]

## Command Parameters

**Table 68.14-1 "Channel Pair Utilization PM Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.14-2 "Channel Pair Utilization PM Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] chpair-pmcollect | Parameter type: <Gpon::PonUtilPmTcaCollect><br>Format:<br>( none<br>\| pm-enable<br>\| tca-enable<br>\| inherit )<br>Possible values:<br>- none : no pm<br>- pm-enable : enable pm | *optional parameter with default value: "inherit"*<br>channel-pair utilization performance monitoring |

| Parameter | Type | Description |
|---|---|---|
| | - tca-enable : enable tca<br>- inherit : inherit from generic-pon (system-wide) pon-pmcollect and threshold values | |
| [no] ont-pmcollect | Parameter type: <Gpon::PonUtilOntPmCollect><br>Format:<br>( enable<br>\| disable<br>\| inherit )<br>Possible values:<br>- enable : enable PM<br>- disable : disable PM<br>- inherit : inherit from generic-pon (system-wide) ont-pmcollect value | *optional parameter with default value: "inherit"*<br>channel-pair utilization ont detailed performance monitoring |
| [no] ontbulk-pmcollect | Parameter type: <Gpon::OntPmCollect><br>Format:<br>( enable<br>\| disable )<br>Possible values:<br>- enable : enable PM<br>- disable : disable PM | *optional parameter with default value: "disable"*<br>channel-pair utilization ont pm bulk collectable via BFMU |

# 68.15 Channel Pair Utilization TCA Threshold Configuration Command

## Command Description

*This command configures the utilization TCA threshold parameters for a channel-pair.*

## 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 channel-pair interface (chanpair-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 68.15-1 "Channel Pair Utilization TCA Threshold Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format: | channel pair index |

| Resource Identifier | Type | Description |
|---|---|---|
| | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | |

**Table 68.15-2 "Channel Pair Utilization TCA Threshold Configuration Command" Command Parameters**

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

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

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

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

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

# 68.16 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 channel-pair interface (chanpair-idx) deact-ont-tca [ no mode | mode <Gpon::DeactOnuTcaMode> ] [ no monitor-interval | monitor-interval <Gpon::DeactOnuInterval> ]

## Command Parameters

**Table 68.16-1 "Deactivate Ont threshold Configuration Commands" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.16-2 "Deactivate Ont threshold Configuration Commands" Command Parameters**

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

| Parameter | Type | Description |
|---|---|---|
| | Format:<br>- tca interval<br>- unit: second<br>- range: [5...300] | *value: 30L*<br>Used to specify PON or Channel-Pair deactivated ONT detection interval. |

# 68.17 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 channel-pair interface (chanpair-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 68.17-1 "Deactivate Ont threshold Configuration Commands" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.17-2 "Deactivate Ont threshold Configuration Commands" Command Parameters**

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

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

# 68.18 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 channel-pair interface (chanpair-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 68.18-1 "Deactivate Ont threshold Configuration Commands" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (chanpair-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::ChannelPairId><br>- the channel pair identifier | channel pair index |

**Table 68.18-2 "Deactivate Ont threshold Configuration Commands" Command Parameters**

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

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

# 68.19 Trouble-Shooting threshold Configuration Commands

## Command Description

*This command is to configure the ethernet traffic tca detect interval*

## User Level

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

## Command Syntax

The command has the following syntax:

> configure channel-pair troubleshooting [ no bw-meter-interval | bw-meter-interval <Gpon::TcaDetectIntval> ]

## Command Parameters

**Table 68.19-2 "Trouble-Shooting threshold Configuration Commands" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] bw-meter-interval | Parameter type: <Gpon::TcaDetectIntval><br>Format:<br>- ethernet traffic tca detect interval for pon in second<br>- range: [60...86400] | *optional parameter with default value: "300"*<br>ethernet traffic tca detect interval for channel pair in second |