

203- Channel Pair Management Commands

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203.1 Channel Pair Management Command Tree

Description

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

Command Tree

- admin**
 - channel-pair**
 - diagnostic**
 - (index)
 - mode
 - bkgstucklasermode
 - bkgpatternmode
 - bkgroguetestinterval
 - alien-mantestmode
 - alien-bkgtestmode
 - alien-bkgtestinterval
 - utilization**
 - (chpair-idx)
 - (clear-counters)
 - peak-utilization**
 - (chpair-idx)
 - (clear-counters)
 - clear-alarm**
 - (chpair-idx)
 - (clr-rng-mismatch)
 - reboot-all-ont**
 - (index)
 - (reboot-all-ont)

203.2 NGPON2 Rogue Test Diagnostic Command

Command Description

This command is used to initiate and stop the rogue ONT discovery procedure on a channel pair.

Background Pattern Test is 'stop-bkg-test' by default.

Background Alien Test is 'stop-bkg-test' by default.

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:

```
> admin channel-pair diagnostic (index) [ mode <Gpon::PonRogueTestMode> ] [ bkgstucklasermode
<Gpon::PonBkgdRogueTestMode> ] [ bkgpatternmode <Gpon::PonBkgdRogueTestMode> ] [ bkgroguetestinterval
<Gpon::BkgdRogueTestInterval> ] [ alien-mantestmode <Gpon::PonManAlienTestMode> ] [ alien-bkgtestmode
<Gpon::PonBkgdAlienTestMode> ] [ alien-bkgtestinterval <Gpon::BkgdAlienTestInterval> ]
```

Command Parameters

Table 203.2-1 "NGPON2 Rogue Test Diagnostic Command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> 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::ChannelPairId> - the channel pair identifier	identification of channel pair

Table 203.2-2 "NGPON2 Rogue Test Diagnostic Command" Command Parameters

Parameter	Type	Description
mode	Parameter type: <Gpon::PonRogueTestMode> Format: (init-onofftest stop init-patterntest) Possible values: - init-onofftest : start the ON-OFF rogue test - stop : stop the rogue test	<i>optional parameter</i> enable or disable channel pair rogue test diagnostic

Parameter	Type	Description
	- init-patterntest : start the Pattern rogue test	
bkgstucklasermode	Parameter type: <Gpon::PonBkgdRogueTestMode> Format: (init-bkg-test stop-bkg-test) Possible values: - init-bkg-test : start the background rogue test - stop-bkg-test : stop the background rogue test	<i>optional parameter</i> enable or disable channel pair background stuck laser test diagnostic
bkgpatternmode	Parameter type: <Gpon::PonBkgdRogueTestMode> Format: (init-bkg-test stop-bkg-test) Possible values: - init-bkg-test : start the background rogue test - stop-bkg-test : stop the background rogue test	<i>optional parameter</i> enable or disable channel pair background pattern test diagnostic
bkgroguetestinterval	Parameter type: <Gpon::BkgdRogueTestInterval> Format: - Numbers divisible by 15 are permitted. - unit: Minutes - range: [60...1440]	<i>optional parameter</i> Frequency of background pattern test execution
alien-mantestmode	Parameter type: <Gpon::PonManAlienTestMode> Format: (init-man-test stop-man-test) Possible values: - init-man-test : start the manual Alien test - stop-man-test : stop the manual Alien test	<i>optional parameter</i> Enable or disable channelpair manual alien ont test diagnostic
alien-bkgtestmode	Parameter type: <Gpon::PonBkgdAlienTestMode> Format: (init-bkg-test stop-bkg-test) Possible values: - init-bkg-test : start the background Alien test - stop-bkg-test : stop the background Alien test	<i>optional parameter</i> Enable or disable channelpair background alien ont test diagnostic
alien-bkgtestinterval	Parameter type: <Gpon::BkgdAlienTestInterval> Format: - Numbers divisible by 30 are permitted. - unit: Minutes - range: [30...240]	<i>optional parameter</i> Frequency of background alien ont test execution

203.3 Channel Pair Utilization PM Reset Command

Command Description

This command resets the channel-pair utilization PM counters.

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:

> admin channel-pair utilization (chpair-idx) (clear-counters)

Command Parameters

Table 203.3-1 "Channel Pair Utilization PM Reset Command" Resource Parameters

Resource Identifier	Type	Description
(chpair-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> 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::ChannelPairId> - the channel pair identifier	channel pair index

Table 203.3-2 "Channel Pair Utilization PM Reset Command" Command Parameters

Parameter	Type	Description
(clear-counters)	Format: clear-counters Possible values: - clear-counters : clear the utilization pm counters	<i>optional parameter</i> clear the channel pair utilization pm counters

203.4 Channel Pair Peak Utilization PM Reset Command

Command Description

This command resets the channel-pair peak utilization PM counters.

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:

```
> admin channel-pair peak-utilization (chpair-idx) (clear-counters)
```

Command Parameters

Table 203.4-1 "Channel Pair Peak Utilization PM Reset Command" Resource Parameters

Resource Identifier	Type	Description
(chpair-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> 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::ChannelPairId> - the channel pair identifier	channel pair index

Table 203.4-2 "Channel Pair Peak Utilization PM Reset Command" Command Parameters

Parameter	Type	Description
(clear-counters)	Format: clear-counters Possible values: - clear-counters : clear the peak utilization pm counters	<i>optional parameter</i> clear the channel pair peak utilization pm counters

203.5 Pon RangeNumMismatch Alarm Reset Commands

Command Description

This command allows the operator to reset the Pon RangeNumMismatch Alarm.

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:

```
> admin channel-pair clear-alarm (chpair-idx) (clr-rng-mismatch)
```

Command Parameters

Table 203.5-1 "Pon RangeNumMismatch Alarm Reset Commands" Resource Parameters

Resource Identifier	Type	Description
(chpair-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> 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::ChannelPairId> - the channel pair identifier	channel pair index

Table 203.5-2 "Pon RangeNumMismatch Alarm Reset Commands" Command Parameters

Parameter	Type	Description
(clr-rng-mismatch)	Format: clr-rng-mismatch Possible values: - clr-rng-mismatch : clear alarm of ranging number mismatch	<i>optional parameter</i> clear alarm of ranging number mismatch

203.6 NGPON2 Rogue Ont Reboot Command

Command Description

This command allows the operator to reboot all ont on the given 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:

> admin channel-pair reboot-all-ont (index) (reboot-all-ont)

Command Parameters

Table 203.6-1 "NGPON2 Rogue Ont Reboot Command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> 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::ChannelPairId> - the channel pair identifier	identification of channel pair

Table 203.6-2 "NGPON2 Rogue Ont Reboot Command" Command Parameters

Parameter	Type	Description
(reboot-all-ont)	Format: via-ploam Possible values: - via-ploam : reboot via ploam	<i>optional parameter</i> reboot the ont on the given channel-pair