

# 202- Pon Management Commands

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## 202.1 Pon Management Command Tree

### Description

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

### Command Tree

```
----admin
  ----pon
    ----ber-stats
      - (pon-idx)
      - (clear-statistics)
    ----diagnostic
      - (index)
      - mode
      - bkgstucklasermode
      - bkgpatternmode
      - bkgroguetestinterval
      - alien-mantestmode
      - alien-bkgtestmode
      - alien-bkgtestinterval
    ----utilization
      - (pon-idx)
      - (clear-counters)
    ----peak-utilization
      - (pon-idx)
      - (clear-counters)
    ----clear-alarm
      - (pon-idx)
      - (clr-rng-mismatch)
    ----reboot-all-ont
      - (pon-idx)
      - (reboot-all-ont)
```

## 202.2 Pon Bit Error Statistics Commands

### Command Description

*This command allows the operator to reset the Pon Bit Error Statistics.*

### 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 pon ber-stats (pon-idx) (clear-statistics)
```

### Command Parameters

**Table 202.2-1 "Pon Bit Error Statistics 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 202.2-2 "Pon Bit Error Statistics Commands" Command Parameters**

Parameter	Type	Description
(clear-statistics)	Format: clear-statistics Possible values:	<i>optional parameter</i> clear the pon bit error counts

Parameter	Type	Description
	- clear-statistics : clear the pon bit error counts	

## 202.3 PON Rogue Test Diagnostic Command

### Command Description

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

*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 pon 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 202.3-1 "PON Rogue Test Diagnostic Command" Resource Parameters**

Resource Identifier	Type	Description
(index)	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	identification of pon

Table 202.3-2 "PON 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 - init-patterntest : start the Pattern rogue test	<i>optional parameter</i> enable or disable pon rogue test diagnostic
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 pon 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 pon 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 rogue ont 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 pon 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 pon 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

## 202.4 PON Utilization PM Reset Command

### Command Description

*This command resets the PON 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 pon utilization (pon-idx) (clear-counters)
```

### Command Parameters

**Table 202.4-1 "PON Utilization PM Reset 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 202.4-2 "PON Utilization PM Reset Command" Command Parameters**

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

Parameter	Type	Description
	- clear-counters : clear the utilization pm counters	



## 202.5 PON Peak Utilization PM Reset Command

### Command Description

*This command resets the PON 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 pon peak-utilization (pon-idx) (clear-counters)
```

### Command Parameters

**Table 202.5-1 "PON Peak Utilization PM Reset 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 202.5-2 "PON Peak Utilization PM Reset Command" Command Parameters**

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

Parameter	Type	Description
	- clear-counters : clear the peak utilization pm counters	

# 202.6 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 pon clear-alarm (pon-idx) (clr-rng-mismatch)

## Command Parameters

Table 202.6-1 "Pon RangeNumMismatch Alarm Reset 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 202.6-2 "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

## 202.7 Ont on Given Pon Reboot Commands

### Command Description

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

```
> admin pon reboot-all-ont (pon-idx) (reboot-all-ont)
```

### Command Parameters

**Table 202.7-1 "Ont on Given Pon Reboot 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 202.7-2 "Ont on Given Pon Reboot Commands" Command Parameters**

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

Parameter	Type	Description
	- via-ploam : reboot via ploam	