69- Epon Configuration Commands

69.1 Epon Configuration Command Tree

Description

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

Command Tree

----configure
    ----epon
        ----[no] interface
            - (epon-idx)
            - [no] polling-period
            - [no] dba-polling0
            - [no] dba-polling1
            - [no] dba-polling2
            - [no] dba-polling3
            - [no] dba-polling4
            - [no] dba-polling5
            - [no] dba-polling6
            - [no] dba-polling7
            - [no] auth-mode
            - [no] pm-collect
            - [no] fec-dn
            - [no] rssi
            - [no] rx-pwr-low
            - [no] rx-pwr-high
            - [no] op-module-type
            - [no] pon-port-mode
            - [no] idlepwrtca
            - [no] idlepwrthreshold
            ----otdr
                - [no] mode

69.2 Epon Interface Configuration Command

Command Description

This command allows the operator to configure the provisioning data associated with a EPON 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 fec-dn can be changed only after setting the administrative status to down. If the FEC change is made while the adm in status is up, then it must be set to down and then put back to up for the change to take place.

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 epon (no interface (epon-idx)) | (interface (epon-idx) [no polling-period | polling-period <epon::pollingperiod>] [no dba-polling0 | dba-polling0 <epon::dbapollinginterval0>] [no dba-polling1 | dba-polling1 <epon::dbapollinginterval1>] [no dba-polling2 | dba-polling2 <epon::dbapollinginterval2>] [no dba-polling3 | dba-polling3 <epon::dbapollinginterval3>] [no dba-polling4 | dba-polling4 <epon::dbapollinginterval4>] [no dba-polling5 | dba-polling5 <epon::dbapollinginterval5>] [no dba-polling6 | dba-polling6 <epon::dbapollinginterval6>] [no dba-polling7 | dba-polling7 <epon::dbapollinginterval7>] [no auth-mode | auth-mode <epon::authmode>] [no pm-collect | pm-collect <epon::pmcollect>] [no fec-dn | fec-dn <epon::fecdn>] [no rssi | rssi <epon::rssiadmin>] [no rx-pwr-low | rx-pwr-low <epon::rxpowerlow>] [no rx-pwr-high | rx-pwr-high <epon::rxpowerhigh>] [no op-module-type | op-module-type <epon::opmoduletype>] [no pon-port-mode | pon-port-mode <epon::ponportmode>] [no idlepwrtca | idlepwrtca <epon::idlepwrtca>] [no idlepwrthreshold | idlepwrthreshold <epon::idlth>])

Command Parameters

Table 69.2-1 "Epon Interface Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> 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	Pon interface

Table 69.2-2 "Epon Interface Configuration Command" Command Parameters

Parameter	Type	Description
[no] polling-period	Parameter type: <epon::pollingperiod> Format: - discovery window for onu register - range: [10...65540]	*optional parameter with default value: 1000L* discovery window for ONT register
[no] dba-polling0	Parameter type: <epon::dbapollinginterval0> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 15L* DBA polling interval time for level-0
[no] dba-polling1	Parameter type: <epon::dbapollinginterval1> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 30L* DBA polling interval time for level-1
[no] dba-polling2	Parameter type: <epon::dbapollinginterval2> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 60L* DBA polling interval time for level-2
[no] dba-polling3	Parameter type: <epon::dbapollinginterval3> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 60L* DBA polling interval time for level-3
[no] dba-polling4	Parameter type: <epon::dbapollinginterval4> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 60L* DBA polling interval time for level-4
[no] dba-polling5	Parameter type: <epon::dbapollinginterval5> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 60L* DBA polling interval time for level-5
[no] dba-polling6	Parameter type: <epon::dbapollinginterval6> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 60L* DBA polling interval time for level-6
[no] dba-polling7	Parameter type: <epon::dbapollinginterval7> Format: - DBA polling interval per pon interface - range: [0...65535]	*optional parameter with default value: 60L* DBA polling interval time for level-7
[no] auth-mode	Parameter type: <epon::authmode> Format: (mix | mac | logicalid) Possible values: - mix : - mac : - logicalid :	*optional parameter with default value: "mix"* authentication mode for ONT
[no] pm-collect	Parameter type: <epon::pmcollect> Format: (enable | disable) Possible values: - enable : PM collection enabled - disable : PM collection disabled	*optional parameter with default value: "disable"* Performance monitor switch
[no] fec-dn	Parameter type: <epon::fecdn> Format: (enable | disable) Possible values:	*optional parameter with default value: "disable"* enable or disable FEC in Downstream direction

Parameter	Type	Description
	- enable : fec is enabled - disable : fec is disabled	
[no] rssi	Parameter type: <epon::rssiadmin> Format: (enable | disable) Possible values: - enable : RSSI function enabled - disable : RSSI function disabled	*optional parameter with default value: "disable"* Enable or disable RSSI function on this PON
[no] rx-pwr-low	Parameter type: <epon::rxpowerlow> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	*optional parameter with default value: "-27"* alarm low threshold for RXPWR
[no] rx-pwr-high	Parameter type: <epon::rxpowerhigh> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	*optional parameter with default value: "-6"* alarm high threshold for RXPWR
[no] op-module-type	Parameter type: <epon::opmoduletype> Format: (auto | 1000base-px20h | 1000base-px20 | 10/1gbase-prx | 10gbase-pr-d3 | 10g1g/1gbase-prx | 10g1g/10gbase-pr) Possible values: - auto : auto - 1000base-px20h : 1000base-px20h - 1000base-px20 : 1000base-px20 - 10/1gbase-prx : 10/1gbase-prx - 10gbase-pr-d3 : 10gbase-pr-d3 - 10g1g/1gbase-prx : 10g1g/1gbase-prx - 10g1g/10gbase-pr : 10g1g/10gbase-pr	*optional parameter with default value: "auto"* identify optical module type
[no] pon-port-mode	Parameter type: <epon::ponportmode> Format: (1g | 10g-asym | 1g,10g-asym | 10g-sym | 1g,10g-sym | 10g-asym,10g-sym | 1g,10g-asym,10g-sym) Possible values: - 1g : 1g - 10g-asym : 10g asymmetric - 1g,10g-asym : 1g, 10g asymmetric - 10g-sym : 10g symmetric - 1g,10g-sym : 1g, 10g symmetric - 10g-asym,10g-sym : 10g asymmetric, 10g symmetric - 1g,10g-asym,10g-sym : 1g, 10g asymmetric, 10g	*optional parameter with default value: "1g,10g-asym,10g-sym"* Pon port mode, to limit the registered ont type

Parameter	Type	Description
	symmetric	
[no] idlepwrtca	Parameter type: <epon::idlepwrtca> Format: (enable | disable) Possible values: - enable : enable pon idle pwr monitor - disable : disable pon idle pwr monitor	*optional parameter with default value: "disable"* Pon idle pwr monitor
[no] idlepwrthreshold	Parameter type: <epon::idlth> Format: <Epon::floatidlepwr> Field type <Epon::floatidlepwr> - OLT side TCA threshold - unit: dbm - range: [-40...8.164]	*optional parameter with default value: "-30"* add a new idlepwrthreshold parameter

69.3 OTDR enable Command for PON

Command Description

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

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 epon interface (epon-idx) otdr [no mode | mode <Epon::OTDRenable>]

Command Parameters

Table 69.3-1 "OTDR enable Command for PON" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> 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	Pon interface

Table 69.3-2 "OTDR enable Command for PON" Command Parameters

Parameter	Type	Description
[no] mode	Parameter type: <Epon::OTDRenable> Format: (enable | disable | test) Possible values: - enable : otdr enable - disable : otdr disable - test : otdr test	*optional parameter with default value: "disable"* enable otdr