

7- Epon ONT Configuration Commands

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7.1 Epon ONT Configuration Command Tree

Description

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

Command Tree

```
----configure
  ----equipment
    ----eont
      ----[no] interface
        - (epon-idx)
        - mac-addr
        - auth-id
        - auth-pwd
        - [no] sw-ver-pland
        - [no] fec
        - [no] igmp-mode
        - [no] fastleave
        - [no] macage-time
        - [no] phy-lineid
        - [no] upgrade-mode
        - [no] plnd-var
        - [no] ont-cfg-mode
        - [no] ont-type
        - [no] ont-onuidmthd
        - alarm-profile-name
        - [no] admin-state
        - [no] stpid
        - [no] llidpattern
      ----[no] rssi
        - [no] temp-alm-low
        - [no] temp-alm-high
        - [no] temp-warn-low
        - [no] temp-warn-high
        - [no] voltage-alm-low
        - [no] voltage-alm-high
        - [no] voltage-warn-low
        - [no] voltage-warn-high
        - [no] bias-alm-low
        - [no] bias-alm-high
        - [no] bias-warn-low
        - [no] bias-warn-high
        - [no] tx-pwr-alm-low
        - [no] tx-pwr-alm-high
        - [no] tx-pwr-warn-low
        - [no] tx-pwr-warn-high
        - [no] rx-pwr-alm-low
        - [no] rx-pwr-alm-high
        - [no] rx-pwr-warn-low
        - [no] rx-pwr-warn-high
      ----[no] management
```

```

- ip
- mask
- gateway
- cvlan
- [no] svlan
- [no] priority
- [no] snmpver
- trap-ip
- [no] trap-port
- [no] snmp-port
- security-name
- community-write
- community-read
----[no] port
  - (uni-index)
  - [no] auto-detect
  - [no] vlanmode
  - [no] vlanid-default
  - [no] pbit-default
  - [no] pause
  - [no] policyup
  - cir-up
  - bucket-up
  - exbrsize-up
  - [no] policydown
  - cir-dw
  - pir-dw
  - [no] multiconf
  - [no] mac-max
  - [no] multigroup-max
  - [no] pm-collect
  - [no] loopback
  - [no] loopportshut
  - [no] port-mode
----[no] auto-adv-abili
  - autoneg10t
  - autoneg10tfd
  - autoneg100t4
  - autoneg100tx
  - autoneg100txfd
  - autoneg100t2
  - autoneg100t2fd
  - autoneg1000x
  - autoneg1000xfd
  - autoneg1000t
  - autoneg1000tfd
  - fdxpause
  - fdxapause
  - fdxspause
  - fdxbpause
  - remfault1
  - remfault2
  - isoethernet
----[no] llid
  - (llid-num)
  - [no] queue-profile
  - [no] churn
  - [no] churn-time

```

- [no] churn-keyetime
- [no] loop-backadmin
- [no] dbapollinglevel
- rate-limit-prof
- [no] closeportasovld

----[no] rms

- [no] ip-mode
- ip
- mask
- gateway
- [no] pppoe-mode
- [no] pppoe-username
- [no] pppoe-pwd
- [no] tagged-mode
- cvlan
- [no] svlan
- [no] pbit
- [no] url

----[no] sw-ctrl

- (sw-ctrl-id)
- hw-version
- [no] ont-variant
- plnd-sw-version
- [no] upgrade-mode

7.2 EONT Interface Configuration Command

Command Description

This command allows the operator to create and configure the EONT parameters.

mac-addr - Mac address for this ONT. The parameter cannot be modified. Either mac-addr or auth-id should be configured.

auth-id - logical authentication id for this ONT. Either mac-addr or auth-id should be configured.

sw-ver-pland - The planned ONT software version number. If this software version number is different from the active version number on the ONT, a software download, activation and commit is performed. The special string of AUTO is used to indicate that if this ONT's hardware version has a matching entry created using configure equipment eont sw-ctrl, then the plnd-sw-version will be downloaded to the ONT. The special string of MANUAL is used to download ONT Software manually. Operator could use command "admin equipment eont swdw(ont-idx)". For detailed sw version, its format is like XXXXYYYYRnnmmaae for current release.

plnd-var - software version variant. This attribute only valid when sw-ver-pland is auto

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 equipment eont ( no interface (epon-idx) ) | ( interface (epon-idx) [ mac-addr <Epon::MacAddr> ] [
auth-id <Epon::AuthId> ] [ auth-pwd <Epon::AuthPwd> ] [ no sw-ver-pland | sw-ver-pland <Epon::SwVerPlnd> ]
[ no fec | fec <Epon::FecMode> ] [ no igmp-mode | igmp-mode <Epon::IgmpMode> ] [ no fastleave | fastleave
<Epon::FastLeaveMode> ] [ no macage-time | macage-time <Epon::MacAge> ] [ no phy-lineid | phy-lineid
<Epon::PhyLineId> ] [ no upgrade-mode | upgrade-mode <Epon::UpMode> ] [ no plnd-var | plnd-var
<Epon::PlannedVariant> ] [ no ont-cfg-mode | ont-cfg-mode <Epon::OntCfgMode> ] [ no ont-type | ont-type
<epon::onttype> ] [ no ont-onuidmthd | ont-onuidmthd <Epon::OntOnuldMthd> ] [ alarm-profile-name
<Epon::EponAlrmCtrlProfileName> ] [ no admin-state | admin-state <Epon::ItfAdminStatus> ] [ no stpid | stpid
<Epon::Stpid> ] [ no llidpattern | llidpattern <Epon::Llidpattern> ] )
```

Command Parameters

Table 7.2-1 "EONT Interface Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId>	ONT index

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Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - the LT slot number Field type <Eqpt::PonId> <ul style="list-style-type: none"> - the PON identifier Field type <Eqpt::OntId> <ul style="list-style-type: none"> - the ONT identifier 	

Table 7.2-2 "EONT Interface Configuration Command" Command Parameters

Parameter	Type	Description
mac-addr	Parameter type: <Epon::MacAddr> Format: - mac-address (example : 01:02:03:04:05:06) - length: 6	<i>optional parameter</i> mac address
auth-id	Parameter type: <Epon::AuthId> Format: - Authentication ID - length: 1<=x<=24	<i>optional parameter</i> logical authentication id
auth-pwd	Parameter type: <Epon::AuthPwd> Format: - Authentication password - length: 1<=x<=12	<i>optional parameter</i> logical authentication password
[no] sw-ver-pland	Parameter type: <Epon::SwVerPlnd> Format: (auto manual <Epon::SwVerPlnd>) Possible values: - auto : auto - manual : manual Field type <Epon::SwVerPlnd> - software version planned - length: 1<=x<=16	<i>optional parameter with default value: "MANUAL"</i> software version planned
[no] fec	Parameter type: <Epon::FecMode> Format: (enable disable) Possible values: - enable : enable FEC mode - disable : disable FEC mode	<i>optional parameter with default value: "disable"</i> FEC mode
[no] igmp-mode	Parameter type: <Epon::IgmpMode> Format: (snoopingmode controllablename floodingmode) Possible values: - snoopingmode : igmp snooping mode - controllablename : controllable igmp mode - floodingmode : flooding mode	<i>optional parameter with default value: "controllable IGMP mode"</i> IGMP handling mode
[no] fastleave	Parameter type: <Epon::FastLeaveMode> Format: (disable enable) Possible values: - disable : disable fastleave mode - enable : enable fastleave mode	<i>optional parameter with default value: "disable"</i> fastleave mode
[no] macage-time	Parameter type: <Epon::MacAge> Format: - MAC aging time	<i>optional parameter with default value: "287"</i> MAC aging time per ONT

Parameter	Type	Description
	- unit: secs - range: [0...287]	
[no] phy-lineid	Parameter type: <Epon::PhyLineId> Format: (enable disable) Possible values: - enable : enable to add option for DHCP/PPP partially - disable : disable to add option for DHCP/PPP partially	<i>optional parameter with default value: "disable"</i> Physical line ID
[no] upgrade-mode	Parameter type: <Epon::UpMode> Format: (none ctc tk dpoe) Possible values: - none : no software upgrade mode - ctc : CTC software upgrade mode - tk : TK software upgrade mode - dpoe : DPoE software upgrade mode	<i>optional parameter with default value: "CTC"</i> software upgrade mode
[no] plnd-var	Parameter type: <Epon::PlannedVariant> Format: - planned variant - length: 1<=x<=16	<i>optional parameter with default value: ""</i> planned variant
[no] ont-cfg-mode	Parameter type: <Epon::OntCfgMode> Format: (disable enable-alu-mode enable-cu-mode) Possible values: - disable : disable ont config save - enable-alu-mode : enable ALU ont config save mode - enable-cu-mode : enable CU ont config save mode	<i>optional parameter with default value: "disable"</i> Ont config save mode
[no] ont-type	Parameter type: <epon::onttype> Format: (auto 10gsym 10gasym 1g) Possible values: - auto : auto - 10gsym : 10gsym - 10gasym : 10gasym - 1g : 1g	<i>optional parameter with default value: "auto"</i> for CAC pre-configuration, to limit the registered ont type
[no] ont-onuidmthd	Parameter type: <Epon::OntOnIdMthd> Format: (sys mac loid) Possible values: - sys : inherit from pon - mac : fill onu id with mac@ in loop id - loid : fill onu id with loid in loop id	<i>optional parameter with default value: "sys"</i> Ont onu id method
alarm-profile-name	Parameter type: <Epon::EponAlrmCtrlProfileName> Format: - name of the Alarm Control profile - length: 1<=x<=32	<i>optional parameter</i> name of the alarm control profile

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Parameter	Type	Description
[no] admin-state	Parameter type: <Epon::ItfAdminStatus> Format: (up down) Possible values: - up : set the admin-state to up - down : set the admin-state to down	<i>optional parameter with default value: "down"</i> <i>The parameter is not visible during creation.</i> administrative status of the interface
[no] stpid	Parameter type: <Epon::Stpid> Format: (88a8 8100 9100 9200) Possible values: - 88a8 : 0x88a8 - 8100 : 0x8100 - 9100 : 0x9100 - 9200 : 0x9200	<i>optional parameter with default value: "0x88a8"</i> STPID
[no] llidpattern	Parameter type: <Epon::Llidpattern> Format: (1x1 1x4 1x8 2x1 2x4) Possible values: - 1x1 : 1 LLID-group,1 LLID per group - 1x4 : 1 LLID-group,4 LLIDs per group - 1x8 : 1 LLID-group,8 LLIDs per group - 2x1 : 2 LLID-groups,1 LLID per group - 2x4 : 2 LLID-groups,4 LLIDs per group	<i>optional parameter with default value: "1x1"</i> LLID pattern

7.3 Epon Ont RSSI Configuration Command

Command Description

This command allows the operator to create and configure the EONT RSSI parameters.

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 equipment eont interface (epon-idx) ( no rssi ) | ( rssi [ no temp-alm-low | temp-alm-low
<Epon::TcaTemp> ] [ no temp-alm-high | temp-alm-high <Epon::TcaTemp> ] [ no temp-warn-low |
temp-warn-low <Epon::TcaTemp> ] [ no temp-warn-high | temp-warn-high <Epon::TcaTemp> ] [ no
voltage-alm-low | voltage-alm-low <Epon::TcaVoltage> ] [ no voltage-alm-high | voltage-alm-high
<Epon::TcaVoltage> ] [ no voltage-warn-low | voltage-warn-low <Epon::TcaVoltage> ] [ no voltage-warn-high |
voltage-warn-high <Epon::TcaVoltage> ] [ no bias-alm-low | bias-alm-low <Epon::TcaBias> ] [ no bias-alm-high |
bias-alm-high <Epon::TcaBias> ] [ no bias-warn-low | bias-warn-low <Epon::TcaBias> ] [ no bias-warn-high |
bias-warn-high <Epon::TcaBias> ] [ no tx-pwr-alm-low | tx-pwr-alm-low <Epon::TcaPwr> ] [ no tx-pwr-alm-high |
tx-pwr-alm-high <Epon::TcaPwr> ] [ no tx-pwr-warn-low | tx-pwr-warn-low <Epon::TcaPwr> ] [ no
tx-pwr-warn-high | tx-pwr-warn-high <Epon::TcaPwr> ] [ no rx-pwr-alm-low | rx-pwr-alm-low <Epon::TcaPwr> ]
[ no rx-pwr-alm-high | rx-pwr-alm-high <Epon::TcaPwr> ] [ no rx-pwr-warn-low | rx-pwr-warn-low
<Epon::TcaPwr> ] [ no rx-pwr-warn-high | rx-pwr-warn-high <Epon::TcaPwr> ] )
```

Command Parameters

Table 7.3-1 "Epon Ont RSSI Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> 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::OntId> - the ONT identifier	ONT index

Table 7.3-2 "Epon Ont RSSI Configuration Command" Command Parameters

Parameter	Type	Description
[no] temp-alm-low	Parameter type: <Epon::TcaTemp>	<i>optional parameter with default</i>

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Parameter	Type	Description
	Format: - temperature of eponont - unit: degree C - range: [-128...128]	<i>value: "0"</i> alarm low threshold for temperature
[no] temp-alm-high	Parameter type: <Epon::TcaTemp> Format: - temperature of eponont - unit: degree C - range: [-128...128]	<i>optional parameter with default value: "70"</i> alarm high threshold for temperature
[no] temp-warn-low	Parameter type: <Epon::TcaTemp> Format: - temperature of eponont - unit: degree C - range: [-128...128]	<i>optional parameter with default value: "0"</i> warn low threshold for temperature
[no] temp-warn-high	Parameter type: <Epon::TcaTemp> Format: - temperature of eponont - unit: degree C - range: [-128...128]	<i>optional parameter with default value: "70"</i> warn high threshold for temperature
[no] voltage-alm-low	Parameter type: <Epon::TcaVoltage> Format: - voltage of epon ont - unit: volts - range: [0...6.55]	<i>optional parameter with default value: "3.135"</i> alarm low threshold for Voltage
[no] voltage-alm-high	Parameter type: <Epon::TcaVoltage> Format: - voltage of epon ont - unit: volts - range: [0...6.55]	<i>optional parameter with default value: "3.465"</i> alarm high threshold for Voltage
[no] voltage-warn-low	Parameter type: <Epon::TcaVoltage> Format: - voltage of epon ont - unit: volts - range: [0...6.55]	<i>optional parameter with default value: "3.135"</i> warn low threshold for Voltage
[no] voltage-warn-high	Parameter type: <Epon::TcaVoltage> Format: - voltage of epon ont - unit: volts - range: [0...6.55]	<i>optional parameter with default value: "3.465"</i> warn high threshold for Voltage
[no] bias-alm-low	Parameter type: <Epon::TcaBias> Format: - bias of epon ont - unit: mA - range: [0...262]	<i>optional parameter with default value: "5"</i> alarm low threshold for bias
[no] bias-alm-high	Parameter type: <Epon::TcaBias> Format: - bias of epon ont - unit: mA - range: [0...262]	<i>optional parameter with default value: "110"</i> alarm high threshold for bias
[no] bias-warn-low	Parameter type: <Epon::TcaBias> Format: - bias of epon ont - unit: mA - range: [0...262]	<i>optional parameter with default value: "5"</i> warn low threshold for bias
[no] bias-warn-high	Parameter type: <Epon::TcaBias> Format: - bias of epon ont	<i>optional parameter with default value: "110"</i> warn high threshold for bias

Parameter	Type	Description
	- unit: mA - range: [0...262]	
[no] tx-pwr-alm-low	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "-1"</i> alarm low threshold for Tx power
[no] tx-pwr-alm-high	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "3.99"</i> alarm high threshold for Tx power
[no] tx-pwr-warn-low	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "-1"</i> warn low threshold for Tx power
[no] tx-pwr-warn-high	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "3.99"</i> warn high threshold for Tx power
[no] rx-pwr-alm-low	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "-23.979"</i> alarm low threshold for Rx power
[no] rx-pwr-alm-high	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "-2.999"</i> alarm high threshold for Rx power
[no] rx-pwr-warn-low	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm - range: [-40...8.2]	<i>optional parameter with default value: "-23.979"</i> warn low threshold for Rx power
[no] rx-pwr-warn-high	Parameter type: <Epon::TcaPwr> Format: <Epon::float> Field type <Epon::float> - OLT side TCA threshold - unit: dbm	<i>optional parameter with default value: "-2.999"</i> warn high threshold for Rx power

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Parameter	Type	Description
	- range: [-40...8.2]	

7.4 Epon Ont Management Configuration

Command

Command Description

This command allows the operator to create and configure the EONT Management parameters.

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 equipment eont interface (epon-idx) ( no management ) | ( management [ ip <Ip::V4Address> ] [ mask
<Ip::V4Address> ] [ gateway <Ip::V4Address> ] cvlan <Epon::cvlan> [ no svlan | svlan <Epon::svlan> ] [ no
priority | priority <Epon::Priority> ] [ no snmpver | snmpver <Epon::SnmpVersion> ] [ trap-ip <Ip::V4Address> ] [
no trap-port | trap-port <Epon::MgntPort> ] [ no snmp-port | snmp-port <Epon::MgntPort> ] [ security-name
<Epon::securityname> ] [ community-write <Epon::communitystr> ] [ community-read <Epon::communitystr> ] )
```

Command Parameters

Table 7.4-1 "Epon Ont Management Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> 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::OntId> - the ONT identifier	ONT index

Table 7.4-2 "Epon Ont Management Configuration Command" Command Parameters

Parameter	Type	Description
ip	Parameter type: <Ip::V4Address> Format: - IPv4-address	<i>optional parameter</i> IP address for this ONT
mask	Parameter type: <Ip::V4Address> Format:	<i>optional parameter</i> network mask for this ONT

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Parameter	Type	Description
	- IPv4-address	
gateway	Parameter type: <Ip::V4Address> Format: - IPv4-address	<i>optional parameter</i> network gateway address for this ONT
cvlan	Parameter type: <Epon::cvlan> Format: - Vlan id - range: [0...4093]	<i>mandatory parameter</i> management CVLAN id for this ONT
[no] svlan	Parameter type: <Epon::svlan> Format: - Vlan id - range: [2...4093,0]	<i>optional parameter with default value: "0"</i> management SVLAN id for this ONT
[no] priority	Parameter type: <Epon::Priority> Format: - priority - range: [0...7]	<i>optional parameter with default value: "5"</i> management PBIT for this ONT
[no] snmpver	Parameter type: <Epon::SnmpVersion> Format: (v1 v2 v3) Possible values: - v1 : snmp version v1 - v2 : snmp version v2 - v3 : snmp version v3	<i>optional parameter with default value: "v2"</i> snmp version for this ONT
trap-ip	Parameter type: <Ip::V4Address> Format: - IPv4-address	<i>optional parameter</i> trap IP address for this ONT
[no] trap-port	Parameter type: <Epon::MgntPort> Format: - mgnt Port - range: [0...65535]	<i>optional parameter with default value: "162"</i> trap port for this ONT
[no] snmp-port	Parameter type: <Epon::MgntPort> Format: - mgnt Port - range: [0...65535]	<i>optional parameter with default value: "161"</i> snmp port for this ONT
security-name	Parameter type: <Epon::securityname> Format: - an octet string defining security name of EPON - length: 1<=x<=32	<i>optional parameter</i> security name for this ONT
community-write	Parameter type: <Epon::communitystr> Format: - an octet string defining community string of EPON - length: 1<=x<=32	<i>optional parameter</i> community string for write for this ONT
community-read	Parameter type: <Epon::communitystr> Format: - an octet string defining community string of EPON - length: 1<=x<=32	<i>optional parameter</i> community string for read for this ONT

7.5 Epon Ont Ethernet Configuration Command

Command Description

This command allows the operator to configure provisioning data associated with epon ont ethernet port.

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 equipment eont interface (epon-idx) ( no port (uni-index) ) | ( port (uni-index) [ no auto-detect |
auto-detect <Epon::AutoDetect> ] [ no vlanmode | vlanmode <Epon::VlanMode> ] [ no vlanid-default |
vlanid-default <Epon::DefaultVlanID> ] [ no pbit-default | pbit-default <Epon::DefaultPBit> ] [ no pause | pause
<Epon::PauseAdmin> ] [ no policyup | policyup <Epon::PolicyUpAdmin> ] [ cir-up <Epon::CIRUp> ] [ bucket-up
<Epon::BucketUp> ] [ exbrsize-up <Epon::ExBrSizeUp> ] [ no policydown | policydown
<Epon::PolicyDwnAdmin> ] [ cir-dw <Epon::CIRDwn> ] [ pir-dw <Epon::PIRDwn> ] [ no multiconf | multiconf
<Epon::McastCfg> ] [ no mac-max | mac-max <Epon::MacLrnLimit> ] [ no multigroup-max | multigroup-max
<Epon::MultiGroupMax> ] [ no pm-collect | pm-collect <Epon::CollectInd> ] [ no loopback | loopback
<Epon::LoopbackAdmin> ] [ no loopportshut | loopportshut <Epon::LoopShutoff> ] [ no port-mode | port-mode
<Epon::PortMode> ] )
```

Command Parameters

Table 7.5-1 "Epon Ont Ethernet Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> 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::OntId> - the ONT identifier	ONT index
(uni-index)	Format: <Epon::EontSlot> / <Epon::EontPort> Field type <Epon::EontSlot> - Epon Ont Slot - range: [1...16] Field type <Epon::EontPort>	port index

Resource Identifier	Type	Description
	- Epon Ont Port - range: [1...64]	

Table 7.5-2 "Epon Ont Ethernet Configuration Command" Command Parameters

Parameter	Type	Description
[no] auto-detect	Parameter type: <Epon::AutoDetect> Format: (enable disable) Possible values: - enable : enable auto negotiation - disable : disable auto negotiation	<i>optional parameter with default value: "enable"</i> enable or disable auto negotiation
[no] vlanmode	Parameter type: <Epon::VlanMode> Format: (transparent tagged translation trunk aggregation) Possible values: - transparent : VLAN mode transparent - tagged : VLAN mode tag - translation : Vlan mode translate - trunk : Vlan trunk - aggregation : Vlan aggregation	<i>optional parameter with default value: "transparent"</i> vlan mode for ethernet port
[no] vlanid-default	Parameter type: <Epon::DefaultVlanID> Format: - default vlan id - range: [2...4092,4097]	<i>optional parameter with default value: "4097"</i> default vlan of this port
[no] pbit-default	Parameter type: <Epon::DefaultPBit> Format: - default pbit - range: [0...7]	<i>optional parameter with default value: "0"</i> default pbit of this port
[no] pause	Parameter type: <Epon::PauseAdmin> Format: (enable disable) Possible values: - enable : enable flow control - disable : disable flow control	<i>optional parameter with default value: "enable"</i> enable or disable pause
[no] policyup	Parameter type: <Epon::PolicyUpAdmin> Format: (enable disable) Possible values: - enable : enable rate limit in upstream - disable : disable rate limit in upstream	<i>optional parameter with default value: "disable"</i> enable or disable policy upstream
cir-up	Parameter type: <Epon::CIRUp> Format: - information rate - unit: kbps - range: [0...1000000]	<i>optional parameter</i> committed information rate upstream
bucket-up	Parameter type: <Epon::BucketUp> Format: - depth of the token bucket - unit: bytes - range: [2000...64000]	<i>optional parameter</i> depth of this token bucket to be tolerant of a certain burst size in upstream direction

Parameter	Type	Description
exbrsize-up	Parameter type: <Epon::ExBrSizeUp> Format: - token to permit the forwarding engine to finish the packet being sent when the CBS - unit: bytes - range: [0...2000]	<i>optional parameter</i> token to permit the forwarding engine to finish the packet being sent when CBS is exhausted in upstream direction
[no] policydown	Parameter type: <Epon::PolicyDwnAdmin> Format: (enable disable) Possible values: - enable : enable rate limit in downstream - disable : disable rate limit in downstream	<i>optional parameter with default value: "disable"</i> enable or disable policy downstream
cir-dw	Parameter type: <Epon::CIRDwn> Format: - information rate - unit: kbps - range: [0...1000000]	<i>optional parameter</i> committed information rate downstream
pir-dw	Parameter type: <Epon::PIRDwn> Format: - information rate - unit: kbps - range: [0...1000000]	<i>optional parameter</i> peak information rate downstream
[no] multiconf	Parameter type: <Epon::McastCfg> Format: (strip nostrip translation) Possible values: - strip : strip vlan tag - nostrip : do not strip vlan tag - translation : translation	<i>optional parameter with default value: "strip"</i> multicast traffic configuration on ethernet port
[no] mac-max	Parameter type: <Epon::MacLrnLimit> Format: - mac learning limit - range: [0...64]	<i>optional parameter with default value: "0"</i> max MAC number at this port
[no] multigroup-max	Parameter type: <Epon::MultiGroupMax> Format: - max multicast group - range: [CLI_EPON_MTIGRPMAX_VALUE_MIN...CLI_EPON_MTIGRPMAX_VALUE_MAX]	<i>optional parameter with default value: "16"</i> max multicast group at this port
[no] pm-collect	Parameter type: <Epon::CollectInd> Format: (enable disable) Possible values: - enable : enable PM collection - disable : disable PM collection	<i>optional parameter with default value: "disable"</i> performance monitor switch
[no] loopback	Parameter type: <Epon::LoopbackAdmin> Format: (enable disable) Possible values: - enable : enable loopback - disable : disable loopback	<i>optional parameter with default value: "disable"</i> enable or disable loopback on ethernet Port
[no] loopportshut	Parameter type: <Epon::LoopShutoff> Format:	<i>optional parameter with default value: "enable"</i>

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Parameter	Type	Description
	(disable enable) Possible values: - disable : disable auto shut off - enable : enable auto shut off	enable or disable the auto shut off when loopback is detected on this ethernet port
[no] port-mode	Parameter type: <Epon::PortMode> Format: (10m-half 10m-full 100m-half 100m-full 1g) Possible values: - 10m-half : 10M Half - 10m-full : 10M Full - 100m-half : 100M Half - 100m-full : 100M Full - 1g : 1G	<i>optional parameter with default value: "100M-Full"</i> Enet port mode

7.6 Epon Ont Ethernet Auto-Negotiation Configuration Command

Command Description

This command allows the operator to configure provisioning data associated with epon ont ethernet port auto-negotiation.

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 equipment eont interface (epon-idx) port (uni-index) ( no auto-adv-abili ) | ( auto-adv-abili [ autoneg10t
<Epon::autoneg10t> ] [ autoneg10tfd <Epon::autoneg10tfd> ] [ autoneg100t4 <Epon::autoneg100t4> ] [
autoneg100tx <Epon::autoneg100tx> ] [ autoneg100txfd <Epon::autoneg100txfd> ] [ autoneg100t2
<Epon::autoneg100t2> ] [ autoneg100t2fd <Epon::autoneg100t2fd> ] [ autoneg1000x <Epon::autoneg1000x> ] [
autoneg1000xfd <Epon::autoneg1000xfd> ] [ autoneg1000t <Epon::autoneg1000t> ] [ autoneg1000tfd
<Epon::autoneg1000tfd> ] [ fdxpause <Epon::fdxpause> ] [ fdxapause <Epon::fdxapause> ] [ fdxspause
<Epon::fdxspause> ] [ fdxbpause <Epon::fdxbpause> ] [ remfault1 <Epon::remfault1> ] [ remfault2
<Epon::remfault2> ] [ isoethernet <Epon::isoethernet> ] )
```

Command Parameters

Table 7.6-1 "Epon Ont Ethernet Auto-Negotiation Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> 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::OntId> - the ONT identifier	ONT index
(uni-index)	Format: <Epon::EontSlot> / <Epon::EontPort> Field type <Epon::EontSlot> - Epon Ont Slot	port index

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - range: [1...16] Field type <Epon::EontPort> - Epon Ont Port - range: [1...64] 	

Table 7.6-2 "Epon Ont Ethernet Auto-Negotiation Configuration Command" Command Parameters

Parameter	Type	Description
autoneg10t	Parameter type: <Epon::autoneg10t> Format: (yes no) Possible values: - yes : 10t supported - no : 10t not supported	<i>optional parameter</i> advertise support of 10T
autoneg10tfd	Parameter type: <Epon::autoneg10tfd> Format: (yes no) Possible values: - yes : 10tfd supported - no : 10tfd not supported	<i>optional parameter</i> advertise support of 10TFD
autoneg100t4	Parameter type: <Epon::autoneg100t4> Format: (yes no) Possible values: - yes : 100t4 supported - no : 100t4 not supported	<i>optional parameter</i> advertise support of 100T4
autoneg100tx	Parameter type: <Epon::autoneg100tx> Format: (yes no) Possible values: - yes : 100tx supported - no : 100tx not supported	<i>optional parameter</i> advertise support of 100TX
autoneg100txfd	Parameter type: <Epon::autoneg100txfd> Format: (yes no) Possible values: - yes : 100txfd supported - no : 100txfd not supported	<i>optional parameter</i> advertise support of 100TXFD
autoneg100t2	Parameter type: <Epon::autoneg100t2> Format: (yes no) Possible values: - yes : 100t2 supported - no : 100t2 not supported	<i>optional parameter</i> advertise support of 100T2
autoneg100t2fd	Parameter type: <Epon::autoneg100t2fd> Format: (yes no) Possible values: - yes : 100t2fd supported - no : 100t2fd not supported	<i>optional parameter</i> advertise support of 100T2FD

Parameter	Type	Description
autoneg1000x	Parameter type: <Epon::autoneg1000x> Format: (yes no) Possible values: - yes : 1000x supported - no : 1000x not supported	<i>optional parameter</i> advertise support of 1000X
autoneg1000xfd	Parameter type: <Epon::autoneg1000xfd> Format: (yes no) Possible values: - yes : 1000xfd supported - no : 1000xfd not supported	<i>optional parameter</i> advertise support of 1000XFD
autoneg1000t	Parameter type: <Epon::autoneg1000t> Format: (yes no) Possible values: - yes : 1000t supported - no : 1000t not supported	<i>optional parameter</i> advertise support of 1000T
autoneg1000tfd	Parameter type: <Epon::autoneg1000tfd> Format: (yes no) Possible values: - yes : 1000tfd supported - no : 1000tfd not supported	<i>optional parameter</i> advertise support of 1000TFD
fdxpause	Parameter type: <Epon::fdxpause> Format: (yes no) Possible values: - yes : fdxpause supported - no : fdxpause not supported	<i>optional parameter</i> advertise support of FdxPause
fdxapause	Parameter type: <Epon::fdxapause> Format: (yes no) Possible values: - yes : fdxapause supported - no : fdxapause not supported	<i>optional parameter</i> advertise support of FdxAPause
fdxspause	Parameter type: <Epon::fdxspause> Format: (yes no) Possible values: - yes : fdxspause supported - no : fdxspause not supported	<i>optional parameter</i> advertise support of FdxSPause
fdxbpause	Parameter type: <Epon::fdxbpause> Format: (yes no) Possible values: - yes : fdxbpause supported - no : fdxbpause not supported	<i>optional parameter</i> advertise support of FdxBPause
remfault1	Parameter type: <Epon::remfault1>	<i>optional parameter</i>

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Parameter	Type	Description
	Format: (yes no) Possible values: - yes : remfault1 supported - no : remfault1 not supported	advertise support of RemFault1
remfault2	Parameter type: <Epon::remfault2> Format: (yes no) Possible values: - yes : remfault2 supported - no : remfault2 not supported	<i>optional parameter</i> advertise support of RemFault2
isoethernet	Parameter type: <Epon::isoethernet> Format: (yes no) Possible values: - yes : isoethernet supported - no : isoethernet not supported	<i>optional parameter</i> advertise support of IsoEthernet

7.7 Epon Ont LLID Configuration Command

Command Description

This command modifies provisioning data associated with epon ont llid.

Note: Multi-LLID is not supported, llid-num only support '1'.

queue-profile - queue profile ID for LLID, only 1 is supported.

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 equipment eont interface (epon-idx) ( no llid (llid-num) ) | ( llid (llid-num) [ no queue-profile |
queue-profile <Epon::ProfIdOne> ] [ no churn | churn <Epon::churnState> ] [ no churn-time | churn-time
<Epon::churnTime> ] [ no churn-keyextime | churn-keyextime <Epon::churnTime> ] [ no loop-backadmin |
loop-backadmin <Epon::LoopBack> ] [ no dbapollinglevel | dbapollinglevel <Epon::dba> ] rate-limit-prof
<Qos::QosRateLimitProfileNameEllid> [ no closeportasovld | closeportasovld <Epon::closePortAsOvld> ] )
```

Command Parameters

Table 7.7-1 "Epon Ont LLID Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> 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::OntId> - the ONT identifier	ONT index
(llid-num)	Format: - Ont llid number, range 1 for EPON, range 1-8 for DPOE - range: [1...8]	Ont llid number, range 1 for EPON, range 1-8 for DPOE

Table 7.7-2 "Epon Ont LLID Configuration Command" Command Parameters

Parameter	Type	Description
[no] queue-profile	Parameter type: <Epon::ProfIdOne> Format:	<i>optional parameter with default value: IL</i>

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Parameter	Type	Description
	- LLID Queue Profile ID - range: [1]	Queue profile ID for LLID. Currently only 1 is supported
[no] churn	Parameter type: <Epon::churnState> Format: (enable disable) Possible values: - enable : Enable churning encryption - disable : Disable churning encryption	<i>optional parameter with default value: "disable"</i> Enable/Disable churning encryption
[no] churn-time	Parameter type: <Epon::churnTime> Format: - ONT churn time - unit: secs - range: [1...65535]	<i>optional parameter with default value: 3L</i> churning time
[no] churn-keyexptime	Parameter type: <Epon::churnTime> Format: - ONT churn time - unit: secs - range: [1...65535]	<i>optional parameter with default value: 10L</i> churning key exchanging time
[no] loop-backadmin	Parameter type: <Epon::LoopBack> Format: (enable disable) Possible values: - enable : Enable Loopback function - disable : Disable Loopback function	<i>optional parameter with default value: "disable"</i> Enable/Disable Loopback function
[no] dbapollinglevel	Parameter type: <Epon::dba> Format: - DBA polling level - range: [0...7]	<i>optional parameter with default value: 2L</i> DBA polling level
rate-limit-prof	Parameter type: <Qos::QosRateLimitProfileNameEllid> Format: (none name : <Qos::IgnoredQosProfileName>) Possible values: - none : no profile name to associated - name : enter profile name to be associated Data driven field type Possible values are depending on the actual configuration and software. The currently allowed values can be shown with online-help.	<i>mandatory parameter</i> the name of the protocol profile to be mapped on ellid. none for no ratelimit. It only used for EPON ELLID interface current.
[no] closeportasovld	Parameter type: <Epon::closePortAsOvld> Format: (enable disable) Possible values: - enable : Enable close port as overload - disable : Disable close port as overload	<i>optional parameter with default value: "disable"</i> Enable/Disable close port as protocol total rate or burst overload

7.8 Epon Ont RMS Configuration Command

Command Description

This command allows the operator to configure epon ont RMS.

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 equipment eont interface (epon-idx) ( no rms ) | ( rms [ no ip-mode | ip-mode <Epon::IpMode> ] [ ip
<Epon::IpAddr> ] [ mask <Epon::IpAddr> ] [ gateway <Epon::IpAddr> ] [ no pppoe-mode | pppoe-mode
<Epon::pppoeMode> ] [ no pppoe-username | pppoe-username <Epon::pppoeUsrName> ] [ no pppoe-pwd |
pppoe-pwd <Epon::pppoePwd> ] [ no tagged-mode | tagged-mode <Epon::TagMode> ] cvlan <Epon::rmsCvlan> [
no svlan | svlan <Epon::rmsSvlan> ] [ no pbit | pbit <Epon::pbit> ] [ no url | url <Epon::url> ] )
```

Command Parameters

Table 7.8-1 "Epon Ont RMS Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(epon-idx)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> 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::OntId> - the ONT identifier	ONT index

Table 7.8-2 "Epon Ont RMS Configuration Command" Command Parameters

Parameter	Type	Description
[no] ip-mode	Parameter type: <Epon::IpMode> Format: (static dhcp pppoe) Possible values: - static : static mode - dhcp : dhcp mode	optional parameter with default value: "dhcp" mode to get the ip address

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Parameter	Type	Description
	- pppoe : PPPoE mode	
ip	Parameter type: <Epon::IpAddr> Format: - IPv4-address	<i>optional parameter</i> ip address
mask	Parameter type: <Epon::IpAddr> Format: - IPv4-address	<i>optional parameter</i> subnet of the ip
gateway	Parameter type: <Epon::IpAddr> Format: - IPv4-address	<i>optional parameter</i> default gateway of the ip
[no] pppoe-mode	Parameter type: <Epon::pppoeMode> Format: (auto chap pap) Possible values: - auto : AUTO mode - chap : CHAP mode - pap : PAP mode	<i>optional parameter with default value: "auto"</i> PPPoE configure mode
[no] pppoe-username	Parameter type: <Epon::pppoeUsrName> Format: - user name - length: 1<=x<=32	<i>optional parameter with default value: ""</i> PPPoE user name
[no] pppoe-pwd	Parameter type: <Epon::pppoePwd> Format: - PPPoE password hidden from users - length: 1<=x<=32	<i>optional parameter with default value: ""</i> PPPoE password
[no] tagged-mode	Parameter type: <Epon::TagMode> Format: (transparent tag stacking) Possible values: - transparent : transparent mode - tag : tagged mode - stacking : stacking mode	<i>optional parameter with default value: "tag"</i> vlan tag mode
cvlan	Parameter type: <Epon::rmsCvlan> Format: - Vlan id - range: [2...4092]	<i>mandatory parameter</i> customer vlan for RMS
[no] svlan	Parameter type: <Epon::rmsSvlan> Format: - Vlan id - range: [0,2...4092]	<i>optional parameter with default value: 0L</i> Service vlan for RMS
[no] pbit	Parameter type: <Epon::pbit> Format: - DBA polling level - range: [0...7]	<i>optional parameter with default value: 7L</i> default pbit of this service is associated
[no] url	Parameter type: <Epon::url> Format: - URL - length: x<=256	<i>optional parameter with default value: ""</i> PPPoE user name

7.9 EONT Software Control Configuration Command

Command Description

This command configures an association between an ONT hardware version/variant and an ONT software version (download and planned).

Note: the combination for hw-version and ont-variant should be unique.

Note: hw-version and ont-variant could not be modified.

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 equipment eont ( no sw-ctrl (sw-ctrl-id) ) | ( sw-ctrl (sw-ctrl-id) hw-version <Epon::HwVer> [ no
ont-variant | ont-variant <Epon::PlndVar> ] plnd-sw-version <Epon::SwVer> [ no upgrade-mode | upgrade-mode
<Epon::UpMode> ] )
```

Command Parameters

Table 7.9-1 "EONT Software Control Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(sw-ctrl-id)	Format: - eont sw ctrl id - range: [1...500]	software control id

Table 7.9-2 "EONT Software Control Configuration Command" Command Parameters

Parameter	Type	Description
hw-version	Parameter type: <Epon::HwVer> Format: - Octet String - length: 1<=x<=8	<i>mandatory parameter</i> <i>The parameter is not visible during modification.</i> EONT hardware version
[no] ont-variant	Parameter type: <Epon::PlndVar> Format: - eont sw version - length: x<=16	<i>optional parameter with default value: ""</i> <i>The parameter is not visible during modification.</i> variant of the EONT hardware version
plnd-sw-version	Parameter type: <Epon::SwVer> Format: - eont sw version	<i>mandatory parameter</i> planned EONT software version

7 Epon ONT Configuration Commands

Parameter	Type	Description
	- length: x<=16	
[no] upgrade-mode	Parameter type: <Epon::UpMode> Format: (none ctc tk dpoe) Possible values: - none : no software upgrade mode - ctc : CTC software upgrade mode - tk : TK software upgrade mode - dpoe : DPoE software upgrade mode	<i>optional parameter with default value: "ctc"</i> EONT software upgrade mode