6- Gpon ONT Configuration Commands

6.1 Gpon ONT Configuration Command Tree

Description

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

Command Tree

----configure
----equipment
----ont
----[no] interface
- (ont-idx)
- [no] battery-bkup
- [no] berint
- [no] desc1
- [no] desc2
- [no] provversion
- [no] sernum
- subslocid
- sw-ver-pland
- [no] fec-up
- [no] bridge-map-mode
- [no] pwr-shed-prof-id
- [no] ont-enable
- [no] p2p-enable
- [no] optics-hist
- [no] sw-dnload-version
- [no] plnd-var
- [no] rf-filter
- [no] us-police-mode
- [no] enable-aes
- [no] voip-allowed
- [no] iphc-allowed
- [no] slid-visibility
- [no] log-auth-id
- [no] log-auth-pwd
- [no] cvlantrans-mode
- [no] sn-bundle-ctrl
- [no] pland-cfgfile1
- [no] pland-cfgfile2
- [no] dnload-cfgfile1
- [no] dnload-cfgfile2
- [no] us-tcpolice-mode
- [no] planned-us-rate
- admin-state
- [no] oltdscppbitalign
- [no] pref-channel-pair
- [no] prot-channel-pair
- [no] alt-pref-ch-pair
- [no] ratelimit-us-dhcp
- [no] ratelimit-us-arp
- [no] flush-mac

- [no] template-name
- [no] evtocd
- [no] vtfd

----onu-tssi-detect

- [no] poll-interval
- [no] poll-cnt
- [no] alm-ctrl

----tc-layer

- [no] olt-pm-collect
- [no] od-pm-collect
- [no] ont-pm-collect

----tc-layer-threshold

- [no] lost-frags-down
- [no] lost-frags-up
- [no] bad-headers-down

----mcast-tc-layer

- [no] ont-pm-collect

----fec-tc-layer

- [no] olt-pm-collect
- [no] ont-pm-collect

----ethernet

- [no] ont-pm-collect

----xg-tc-layer

- [no] olt-pm-collect
- [no] ont-pm-collect

----phy-layer

- [no] olt-pm-collect

----delay-act

- [no] at

----cpu-load

- [no] ont-pm-collect

----memory-usage

- [no] ont-pm-collect

----[no] slot

- **(ont-slot-idx)**
- planned-card-type
- plndnumdataports
- plndnumvoiceports
- [no] port-type
- [no] transp-mode-rem
- [no] no-mcast-control
- [no] admin-state

----[no] sw-ctrl

- **(sw-ctrl-id)**
- hw-version
- [no] ont-variant
- [no] plnd-sw-version
- [no] plnd-sw-ver-conf
- [no] sw-dwload-ver
- [no] pland-cfgfile1
- [no] pland-cfgfile2
- [no] dnload-cfgfile1
- [no] dnload-cfgfile2

----delay-act

- [no] at

----loop

- **(ont-idx)**
- [no] loop-detect
- [no] loop-portautoshut

----gis
- (ont-idx)
- [no] olt-location
----pm-collect
- (ont-idx)
- [no] xg-pm-collect

6.2 ONT Interface Configuration Command

Command Description

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

provversion - when ''is set, it detects ONT hardware version on board and is updated accordingly.*

sernum - User can only set it when admin state is down and admin-state cannot be changed to up with default sernum (ALCL:00000000). The First 4 bytes form the vendorid and the last 8 butes form the serial no.

sw-ver-pland - The special string of 'AUTO' is used to indicate that if this ONT's hardware version (eqpt-ver-num in 'show ont interface command) and planned variant (plnd-var) has a matching entry created using 'configure equipment ont sw-ctrl', then the plnd-sw-version from the gponOntSwVerCtlTable table will be downloaded to the ONT. The special string of 'UNPLANNED' is used to avoid any download. The special string of 'DISABLED' is used not to control onu sw version, and not report mismatch alarm. The special string of 'DELAYACTIVATE' is used for non-immediate activation.

subslocid - 0 to 12 (36 for ngpon2/xgs/25g) ASCII character string or 0 to 24 (72 for ngpon2/xgs/25g) HEX string depending on slidmode.

sw-dnload-version - The special string of 'AUTO' is used to indicate that if this ONT's hardware version (eqpt-ver-num in 'show equipment ont interface command) and planned variant (plnd-var) has a matching entry created using 'configure equipment ont sw-ctrl', then the plnd-sw-version from the gponOntSwVerCtlTable table will be downloaded to the ONT. The special string of 'DISABLED' is used to indicate this feature as blocked. If sw-ver-pland is set to 'DISABLED', sw-dnload-version can only be 'DISABLED'.

NOTE: In order to change power-shed-profile, provversion, sernum, fec-up, us-police-mode, us_tcpolice-mode, log-auth-id and log-auth-pwd parameters, the ONT state must be in Out-of-Service. If not specified, the values of the above parameters stay unchanged.

admin-state - cannot be modified in the same command execution with any other parameter and vice versa. If not specified, the value of this parameter stays unchanged.

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 ont (no interface (ont-idx)) | (interface (ont-idx) [no battery-bkup | battery-bkup <Gpon::BatteryBkup>] [no berint | berint <Gpon::BertInterval>] [no desc1 | desc1 <Gpon::Desc>] [no desc2 | desc2 <Gpon::Desc>] [no provversion | provversion <Gpon::ProvVersion>] [no sernum | sernum <Gpon::SerNum>] [subslocid <Gpon::SubsLocId>] sw-ver-pland <Gpon::SwVerPlnd> [no fec-up | fec-up <Gpon::FecUp>] [no bridge-map-mode | bridge-map-mode <Gpon::BridgeMapMode>] [no pwr-shed-prof-id | pwr-shed-prof-id <Gpon::PwrShedProfIndex>] [no ont-enable | ont-enable <Gpon::OntEnable>] [no p2p-enable | p2p-enable <Gpon::P2PEnable>] [no optics-hist | optics-hist <Gpon::OpticsHist>] [no sw-dnload-version | sw-dnload-version <Gpon::SwVerDn>] [no plnd-var | plnd-var <Gpon::PlndVar>] [no rf-filter | rf-filter <Gpon::RfFilter>] [no us-police-mode | us-police-mode <Gpon::UsPoliceMode>] [no enable-aes | enable-aes <Gpon::EnableAES>] [no voip-allowed | voip-allowed <Gpon::VoipAllowed>] [no iphc-allowed | iphc-allowed <Gpon::IphcAllowed>] [no slid-visibility | slid-visibility <Gpon::SlidAvailabilityStatus>] [no log-auth-id | log-auth-id <Gpon::LogAuthId>] [no log-auth-pwd | log-auth-pwd <Security::Password6>] [no cvlantrans-mode

| cvlantrans-mode <Gpon::CVlanTransMode>] [no sn-bundle-ctrl | sn-bundle-ctrl <Gpon::SnBundleCtrl>] [no pland-cfgfile1 | pland-cfgfile1 <Gpon::CfgFileName>] [no pland-cfgfile2 | pland-cfgfile2 <Gpon::CfgFileName>] [no dnload-cfgfile1 | dnload-cfgfile1 <Gpon::CfgFileName>] [no dnload-cfgfile2 | dnload-cfgfile2 <Gpon::CfgFileName>] [no us-tcpolice-mode | us-tcpolice-mode <Gpon::UsTcPoliceMode>] [no planned-us-rate | planned-us-rate <Gpon::PlannedUsRate>] [admin-state <Gpon::ItfAdminStatus>] [no oltdscppbitalign | oltdscppbitalign <Gpon::OltDscpPbitAlign>] [no pref-channel-pair | pref-channel-pair <Ng2::PreferredChannelPairIndex>] [no prot-channel-pair | prot-channel-pair <Ng2::PreferredChannelPairIndex>] [no alt-pref-ch-pair | alt-pref-ch-pair <Ng2::PreferredChannelPairIndex>] [no ratelimit-us-dhcp | ratelimit-us-dhcp <Gpon::RateLimitUsDhcp>] [no ratelimit-us-arp | ratelimit-us-arp <Gpon::RateLimitUsArp>] [no flush-mac | flush-mac <Gpon::FlushMac>] [no template-name | template-name <Gpon::OnuProvTemplateName>] [no evtocd | evtocd <Gpon::Evtocd>] [no vtfd | vtfd <Gpon::Vtfd>])

Command Parameters

Table 6.2-1 "ONT Interface Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.2-2 "ONT Interface Configuration Command" Command Parameters

Parameter	Type	Description
[no] battery-bkup	Parameter type: <Gpon::BatteryBkup> Format: (disable | enable) Possible values: - disable : ONT is not equiped with battery backup - enable : ONT is equiped with battery backup	*optional parameter with default value: "disable"* battery backup
[no] berint	Parameter type: <Gpon::BertInterval> Format: - BER Interval - range: [8000...100000]	*optional parameter with default value: "8000"* accumulation interval (in number of downstream frames) for ONU BER calculation
[no] desc1	Parameter type: <Gpon::Desc> Format:	*optional parameter with default value: """"*

Parameter	Type	Description
	- desc - length: x<=64	free-form textual field for user to describe the ONT
[no] desc2	Parameter type: <Gpon::Desc> Format: - desc - length: x<=64	*optional parameter with default value: """"* free-form textual field for user to describe the ONT
[no] provversion	Parameter type: <Gpon::ProvVersion> Format: - provisioned version number - length: x<=14	*optional parameter with default value: "*"* the provisioned version number
[no] sernum	Parameter type: <Gpon::SerNum> Format: <Gpon::VendorId> : <Gpon::SerialNo> Field type <Gpon::VendorId> - vendor id - 4 ASCII characters - range: [a-zA-Z0-9] - length: 4 Field type <Gpon::SerialNo> - serial num - 8 ASCII characters - range: [a-fA-F0-9] - length: 8	*optional parameter with default value: "ALCL : 00000000"* the provisioned serial number
subslocid	Parameter type: <Gpon::SubsLocId> Format: - subsloc id, 0 to 12 (36 for ngpon2/xgs/25g) ASCII character string or 0 to 24 (72 for ngpon2/xgs/25g) HEX string depending on slidmode - length: x<=72	*optional parameter* subscriber location id (SLID)
sw-ver-pland	Parameter type: <Gpon::SwVerPlnd> Format: (auto | unplanned | disabled | delayactivate | <Gpon::SwVerPlnd>) Possible values: - auto : download sw to onu using the sw-ctrl version - unplanned : avoid any download related action,but report mismatch alarm - disabled : not to control onu sw version, and not report mismatch alarm - delayactivate : for non-immediate activation Field type <Gpon::SwVerPlnd> - ont sw version - length: 1<=x<=14	*mandatory parameter* planned ONT software version number. If sw-dnload-version is set to disabled, sw-ver-pland cannot be set to delayactivate.
[no] fec-up	Parameter type: <Gpon::FecUp> Format: (disable | enable | recommended) Possible values: - disable : Disable use of FEC in Upstream direction - enable : Enable use of FEC in Upstream direction - recommended : Automatically set based on planned ONT technology: gpon=disable,ngpon=enable,auto-match=enable	*optional parameter with default value: "gpon : disable,ngpon : enable,auto-match : enable"* enable/disable use of FEC in Upstream direction
[no] bridge-map-mode	Parameter type: <Gpon::BridgeMapMode> Format: (1-mp-bridge-map-filter	*optional parameter with default value: "1-mp-bridge-map-filter"* ont bridge map mode

Parameter	Type	Description
	| n-p-bridge-map-filter | n-mp-bridge-map-filter) Possible values: - 1-mp-bridge-map-filter: 1:MP bridge map mode - n-p-bridge-map-filter : N:P bridge map mode - n-mp-bridge-map-filter: N:MP bridge map mode	
[no] pwr-shed-prof-id	Parameter type: <Gpon::PwrShedProfIndex> Format: (none | <Gpon::PwrShedProfIndex>) Possible values: - none : no profile to associate Field type <Gpon::PwrShedProfIndex> - a pwr shed profile index value - range: [0...50]	*optional parameter with default value: "none"* power shed profile id
[no] ont-enable	Parameter type: <Gpon::OntEnable> Format: (auto | disable | enable) Possible values: - auto : OLT automatically decided on proper action - disable : ONT is Manually Disabled - enable : ONT is Manually Enabled	*optional parameter with default value: "auto"* ONT disabling decision for rogue ONTs
[no] p2p-enable	Parameter type: <Gpon::P2PEnable> Format: (disable | enable) Possible values: - disable : Disable Port-to-port traffic exchange - enable : Enable Port-to-port traffic exchange	*optional parameter with default value: "disable"* *The parameter is not visible during modification.* allow port-to-port traffic exchange between ethernet UNIs on the same ONT
[no] optics-hist	Parameter type: <Gpon::OpticsHist> Format: (disable | enable) Possible values: - disable : Disable daily optical supervision measurements collection - enable : Enable daily optical supervision measurements collection	*optional parameter with default value: "disable"* daily optical supervision measurements collection
[no] sw-dnload-version	Parameter type: <Gpon::SwVerDn> Format: (auto | disabled | <Gpon::SwVerDn>) Possible values: - auto : download sw to onu using the sw-ctrl version - disabled : indicate this feature is blocked. If sw-ver-pland is set to disabled, sw-dnload-version can only be disabled Field type <Gpon::SwVerDn> - ont sw version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* standby ONT software version number to be downloaded. If sw-ver-pland is set to delayactivate, sw-dnload-version cannot be set to disabled.
[no] plnd-var	Parameter type: <Gpon::PlndVar> Format: - planned variant of the ONT hardware version - length: x<=80	*optional parameter with default value: """"* planned variant of the ONT hardware version.Use DO for Data-only ONTs,SIP for SIP

Parameter	Type	Description
		ONTs,H.248 for MEGACO ONTs
[no] rf-filter	Parameter type: <Gpon::RfFilter> Format: (pass-none | pass-low | pass-low-high | pass-low-middle) Possible values: - pass-none : Pass Nothing - pass-low : Pass only Low Band - pass-low-high : Pass Low and High Band - pass-low-middle : Pass Low and Middle Band	*optional parameter with default value: "pass-low-high"* filter settings for RF video
[no] us-police-mode	Parameter type: <Gpon::UsPoliceMode> Format: (local | network | remote) Possible values: - local : local at OLT - network : remote at OLT obsolete alternative replaced by remote - remote : remote at ONT	*optional parameter with default value: "local"* upstream police mode
[no] enable-aes	Parameter type: <Gpon::EnableAES> Format: (disable | enable) Possible values: - disable : disable downstream AES encryption - enable : enable downstream AES encryption	*optional parameter with default value: "disable"* downstream AES encryption for all unicast (X)GEM ports pertaining to the ONT
[no] voip-allowed	Parameter type: <Gpon::VoipAllowed> Format: (disable | enable | iphost | veip) Possible values: - disable : disable voip support on ONT - enable : enable voip support on ONT - iphost : enable voip support on ONT using iphost - veip : enable voip support on ONT using veip	*optional parameter with default value: "disable"* *The parameter is not visible during modification.* voip support on ONT
[no] iphc-allowed	Parameter type: <Gpon::IphcAllowed> Format: (disable | enable) Possible values: - disable : disable iphc support on ONT - enable : enable iphc support on ONT	*optional parameter with default value: "disable"* *The parameter is not visible during modification.* iphc support on ONT
[no] slid-visibility	Parameter type: <Gpon::SlidAvailabilityStatus> Format: (disabled | enabled-slid-on | enabled-all) Possible values: - disabled : no access using http or telnet - enabled-slid-on : read-only access using http or telnet - enabled-all : read-write access using http or telnet	*optional parameter with default value: "disabled"* *The parameter is not visible during creation.* slid visibility of the interface

Parameter	Type	Description
[no] log-auth-id	Parameter type: <Gpon::LogAuthId> Format: - ont logical id - length: x<=24	*optional parameter with default value: ""* the logical id for the ont
[no] log-auth-pwd	Parameter type: <Security::Password6> Format: (prompt | plain : <Security::PlainPassword6>) Possible values: - prompt : prompts the operator for a password - plain : the password in plain text Field type <Security::PlainPassword6> - ont password - length: x<=12	*optional parameter with default value: "plain : "* the password for the ont
[no] cvlantrans-mode	Parameter type: <Gpon::CVlanTransMode> Format: (remote | local) Possible values: - remote : cvlan translate remote - local : cvlan translate local	*optional parameter with default value: "remote"* cvlan translation settings for all traffic except the configured multicast traffic
[no] sn-bundle-ctrl	Parameter type: <Gpon::SnBundleCtrl> Format: (unbundle | bundle | auto) Possible values: - unbundle : no bundle behavior for sn with loid/slid - bundle : manual bundling of sn with loid/slid - auto : automatically bundle the sn with loid/slid when a new sn is learned	*optional parameter with default value: "unbundle"* sn bundling behavior associated with slid/loid
[no] pland-cfgfile1	Parameter type: <Gpon::CfgFileName> Format: (auto | <Gpon::CfgFileName>) Possible values: - auto : download configure file to onu using the sw-ctrl version Field type <Gpon::CfgFileName> - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile1 version to be planned
[no] pland-cfgfile2	Parameter type: <Gpon::CfgFileName> Format: (auto | <Gpon::CfgFileName>) Possible values: - auto : download configure file to onu using the sw-ctrl version Field type <Gpon::CfgFileName> - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile2 version to be planned
[no] dnload-cfgfile1	Parameter type: <Gpon::CfgFileName> Format: (auto | <Gpon::CfgFileName>) Possible values: - auto : download configure file to onu using the sw-ctrl	*optional parameter with default value: "DISABLED"* indicate the cfgfile1 version to be downloaded

Parameter	Type	Description
	version Field type <Gpon::CfgFileName> - ont configure file version - length: 1<=x<=14	
[no] dnload-cfgfile2	Parameter type: <Gpon::CfgFileName> Format: (auto | <Gpon::CfgFileName>) Possible values: - auto : download configure file to onu using the sw-ctrl version Field type <Gpon::CfgFileName> - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile2 version to be downloaded
[no] us-tcpolice-mode	Parameter type: <Gpon::UsTcPoliceMode> Format: (local | remote) Possible values: - local : local at OLT - remote : remote at ONT	*optional parameter with default value: "local"* upstream tc(gemport) police mode
[no] planned-us-rate	Parameter type: <Gpon::PlannedUsRate> Format: (nominal-line-rate | 2.5g | 10g | 1.25g | auto-match | 25g) Possible values: - nominal-line-rate : ont inherits upstream rate from nominal line rate(default) - 2.5g : 2.5 GBit/sec - 10g : 10 GBit/sec - 1.25g : 1.25 GBit/sec - auto-match : upstream rate is detected when onu activates - 25g : 25 GBit/sec	*optional parameter with default value: "nominal-line-rate,cde : auto-match"* planned upstream rate
admin-state	Parameter type: <Gpon::ItfAdminStatus> Format: (up | down) Possible values: - up : set the admin-state to up - down : set the admin-state to down	*optional parameter* *The parameter is not visible during creation.* administrative status of the interface
[no] oltdscppbitalign	Parameter type: <Gpon::OltDscpPbitAlign> Format: (disable | enable) Possible values: - disable : OLT will not do dscp-to-pbit alignment - enable : OLT will do dscp-to-pbit alignment	*optional parameter with default value: "disable"* if OLT need perform DSCP to Pbit alignment for this ONU, when the DSCP to Pbit alignment is configured on the vlan port
[no] pref-channel-pair	Parameter type: <Ng2::PreferredChannelPairIndex> Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> | none) Possible values:	*optional parameter with default value: "none"* preferred channel pair in case of ngpon2 ont

Parameter	Type	Description
	- none : lt board not specified 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	
[no] prot-channel-pair	Parameter type: <Ng2::PreferredChannelPairIndex> Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> | none) Possible values: - none : lt board not specified 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	*optional parameter with default value: "none"* protecting channel pair in case of ngpon2 ont
[no] alt-pref-ch-pair	Parameter type: <Ng2::PreferredChannelPairIndex> Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> | none) Possible values: - none : lt board not specified 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	*optional parameter with default value: "none"* alternative preferred channel pair in case of ngpon2 ont
[no] ratelimit-us-dhcp	Parameter type: <Gpon::RateLimitUsDhcp> Format: - ratelimit upstream DHCP packets, 0 - Disabled, 1..16 - Enabled (Packets Per Second limit) - range: [0...16]	*optional parameter with default value: "10"* upstream rate limit for DHCP packets, unit is pps which means packets per second
[no] ratelimit-us-arp	Parameter type: <Gpon::RateLimitUsArp> Format: - ratelimit upstream ARP packets, 0 - Disabled, 1..16 - Enabled (Packets Per Second limit) - range: [0...16]	*optional parameter with default value: "10"* upstream rate limit for ARP packets, unit is pps which means packets per second
[no] flush-mac	Parameter type: <Gpon::FlushMac> Format: (disable | enable) Possible values: - disable : the MAC will not be flushed when UNIs go down - enable : the MAC will be flushed when UNIs go down	*optional parameter with default value: "disable"* flush MAC decision for UNIs of this ONT
[no] template-name	Parameter type: <Gpon::OnuProvTemplateName>	*optional parameter with default*

Parameter	Type	Description
	Format: - Template name to be used for ONU auto provisioning - range: [a-zA-Z0-9-_] - length: x<=20	*value: "DEFAULT"* Name of the Template to be used for ONU auto-provisioning
[no] evtocd	Parameter type: <Gpon::Evtocd> Format: (disable | enable) Possible values: - disable : Disable ME Extended VLAN tagging operation configuration data - enable : Enable ME Extended VLAN tagging operation configuration data	*optional parameter with default value: "enable"* ME Evtocd control
[no] vtfd	Parameter type: <Gpon::Vtfd> Format: (disable | enable) Possible values: - disable : Disable ME VLAN tagging filter data - enable : Enable ME VLAN tagging filter data	*optional parameter with default value: "enable"* ME Vtfd control

Command Output

Table 6.2-3 "ONT Interface Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
oper-state	Parameter type: <Itf::ifOperStatus> (up | down | testing | unknown | dormant | no-value) Possible values: - up : up,traffic can pass - down : down,no traffic is passing - testing : testing,no traffic is passing - unknown : unknown - dormant : dormant,no traffic is passing - no-value : no entry in the table	operational state of the interface *This element is always shown.*
pwr-shed-prof-name	Parameter type: <Gpon::IgnoredPrintableString> - ignored printable string	power shed profile name *This element is always shown.*

6.3 NGPON2 Rogue Onu Prevention Configuration Commands

Command Description

This command allows the operator to configure following rogue onu prevention paramters.

- *Parameters that controls rogue onu optical transceiver abnormal declaration*
- *Parameters that enable or disable reporting of rogue onu optical transceiver abnormal 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:

> configure equipment ont interface (ont-idx) onu-tssi-detect [no poll-interval | poll-interval <Gpon::RogOnuPollInter>] [no poll-cnt | poll-cnt <Gpon::RogOnuPollCnt>] [no alm-ctrl | alm-ctrl <Gpon::RogOnuAlmCtl>]

Command Parameters

Table 6.3-1 "NGPON2 Rogue Onu Prevention Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId>	ONT index

Resource Identifier	Type	Description
	- the ONT identifier Field type <Ng2::OntId> - the ONT identifier	

Table 6.3-2 "NGPON2 Rogue Onu Prevention Configuration Commands" Command Parameters

Parameter	Type	Description
[no] poll-interval	Parameter type: <Gpon::RogOnuPollInter> Format: (nopoll | <Gpon::RogOnuPollInter>) Possible values: - nopoll : polling is not used Field type <Gpon::RogOnuPollInter> - interval of polling optical transceiver at the ONT(0 : polling is not used) - unit: millisec - range: [20...60000,0]	*optional parameter with default value: "20"* interval of polling optical transceiver at the ONT
[no] poll-cnt	Parameter type: <Gpon::RogOnuPollCnt> Format: - the number of consecutive polling, which results in abnormality, for declaring the optical transceiver as abnormal - range: [1...250]	*optional parameter with default value: "150"* number of consecutive polling, which results in abnormality, for declaring the optical transceiver as abnormal
[no] alm-ctrl	Parameter type: <Gpon::RogOnuAlmCtl> Format: (enable | disable) Possible values: - enable : enable TSSI alarm - disable : disable TSSI alarm	*optional parameter with default value: "enable"* enabling or disable alarm for rouge ONU

6.4 GPON GEM port performance monitoring Configuration Commands

Command Description

This command allows the operator to enable the following GEM port performance monitoring counters.

- *PM Mode of OLT-side TC-layer (GEM-based) counters*
- *PM Mode of OLT-side TC-layer (GEM-based) counters for errored fragments*
- *PM Mode of ONT-side TC-layer (GEM-based) 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:

> configure equipment ont interface (ont-idx) tc-layer [no olt-pm-collect | olt-pm-collect <Gpon::OntPmTcaCollect>] [no od-pm-collect | od-pm-collect <Gpon::OntPmCollect>] [no ont-pm-collect | ont-pm-collect <Gpon::OntPmTcaCollect>]

Command Parameters

Table 6.4-1 "GPON GEM port performance monitoring Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup>	ONT index

Resource Identifier	Type	Description
	- subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	

Table 6.4-2 "GPON GEM port performance monitoring Configuration Commands" Command Parameters

Parameter	Type	Description
[no] olt-pm-collect	Parameter type: <Gpon::OntPmTcaCollect> Format: (none | pm-enable | tca-enable) Possible values: - none : no pm - pm-enable : enable pm - tca-enable : enable tca	*optional parameter with default value: "pm-enable"* OLT-side aggregate TC layer performance monitoring
[no] od-pm-collect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* OLT-side on-demand aggregate TC layer performance monitoring
[no] ont-pm-collect	Parameter type: <Gpon::OntPmTcaCollect> Format: (none | pm-enable | tca-enable) Possible values: - none : no pm - pm-enable : enable pm - tca-enable : enable tca	*optional parameter with default value: "pm-enable"* ONT-side aggregate TC layer performance monitoring

6.5 ONT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for ONT

Command Description

This command allows the operator to enable configuration of performance Monitoring counter thresholds for ONT-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 equipment ont interface (ont-idx) tc-layer-threshold [no lost-frags-down | lost-frags-down <Gpon::TcaThresholdValue>] [no lost-frags-up | lost-frags-up <Gpon::TcaThresholdValue>] [no bad-headers-down | bad-headers-down <Gpon::TcaThresholdValue>]

Command Parameters

Table 6.5-1 "ONT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for ONT" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup>	ONT index

Resource Identifier	Type	Description
	- subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	

Table 6.5-2 "ONT-SIDE TC-layer Performance Monitoring Counter Thresholds Configuration Command for ONT" Command Parameters

Parameter	Type	Description
[no] lost-frags-down	Parameter type: <Gpon::TcaThresholdValue> Format: (disabled | <Gpon::TcaThresholdValue>) Possible values: - disabled : threshold is disabled Field type <Gpon::TcaThresholdValue> - tc-layer tca threshold value (4294967295=disabled) - range: [0...4294967294,4294967295]	*optional parameter with default value: "disabled"* tca setting for lost gem fragments in downstream
[no] lost-frags-up	Parameter type: <Gpon::TcaThresholdValue> Format: (disabled | <Gpon::TcaThresholdValue>) Possible values: - disabled : threshold is disabled Field type <Gpon::TcaThresholdValue> - tc-layer tca threshold value (4294967295=disabled) - range: [0...4294967294,4294967295]	*optional parameter with default value: "disabled"* tca setting for lost gem fragments in upstream
[no] bad-headers-down	Parameter type: <Gpon::TcaThresholdValue> Format: (disabled | <Gpon::TcaThresholdValue>) Possible values: - disabled : threshold is disabled Field type <Gpon::TcaThresholdValue> - tc-layer tca threshold value (4294967295=disabled) - range: [0...4294967294,4294967295]	*optional parameter with default value: "disabled"* tca setting for bad gem headers in downstream

6.6 Multicast TC-layer Performance Monitoring Command for ONT

Command Description

This command allows the operator to enable or disable the ONT-side Multicast Port Performance Monitor collection for the ONT.

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 ont interface (ont-idx) mcast-tc-layer [no ont-pm-collect | ont-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.6-1 "Multicast TC-layer Performance Monitoring Command for ONT" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId>	ONT index

Resource Identifier	Type	Description
	- the ONT identifier	

Table 6.6-2 "Multicast TC-layer Performance Monitoring Command for ONT" Command Parameters

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

Command Output

Table 6.6-3 "Multicast TC-layer Performance Monitoring Command for ONT" Display parameters

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

6.7 Fec TC-layer Performance Monitoring Command for ONT

Command Description

This command allows the operator to enable or disable the Fec Port Performance Monitor collection for the ONT.

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 ont interface (ont-idx) fec-tc-layer [no olt-pm-collect | olt-pm-collect <Gpon::OntPmCollect>] [no ont-pm-collect | ont-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.7-1 "Fec TC-layer Performance Monitoring Command for ONT" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.7-2 "Fec TC-layer Performance Monitoring Command for ONT" Command Parameters

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

Command Output

Table 6.7-3 "Fec TC-layer Performance Monitoring Command for ONT" Display parameters

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

6.8 GPON port Aggregate Ethernet performance monitoring Configuration Commands

Command Description

This command allows the operator to enable the following PON Aggregate Ethernet performance monitoring counters.

- *PM Mode of ONT-side PON Aggregate Ethernet 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:

> configure equipment ont interface (ont-idx) ethernet [no ont-pm-collect | ont-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.8-1 "GPON port Aggregate Ethernet performance monitoring Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId>	ONT index

Resource Identifier	Type	Description
	- the ONT identifier Field type <Ng2::OntId> - the ONT identifier	

Table 6.8-2 "GPON port Aggregate Ethernet performance monitoring Configuration Commands" Command Parameters

Parameter	Type	Description
[no] ont-pm-collect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* ONT-side PON aggregate Ethernet performance monitoring

6.9 XGPON tc-layer port performance monitoring Configuration Commands

Command Description

This command allows the operator to enable or disable XGPON TC layer performance monitoring for the ONT.

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 ont interface (ont-idx) xg-tc-layer [no olt-pm-collect | olt-pm-collect <Gpon::OntPmCollect>] [no ont-pm-collect | ont-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.9-1 "XGPON tc-layer port performance monitoring Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.9-2 "XGPON tc-layer port performance monitoring Configuration Commands" Command Parameters

Parameter	Type	Description
[no] olt-pm-collect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* OLT-side XGPON TC layer performance monitoring
[no] ont-pm-collect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* ONT-side XGPON TC layer performance monitoring

6.10 XGPON physical-layer port performance monitoring Configuration Commands

Command Description

This command allows the operator to enable or disable the OLT-side XGPON Physical Performance Monitor collection for the ONT.

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 ont interface (ont-idx) phy-layer [no olt-pm-collect | olt-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.10-1 "XGPON physical-layer port performance monitoring Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId>	ONT index

Resource Identifier	Type	Description
	- the ONT identifier	

Table 6.10-2 "XGPON physical-layer port performance monitoring Configuration Commands" Command Parameters

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

6.11 GPON ONT software delay activation control Configuration Commands

Command Description

This command allows the operator to specify when OLT should attempt to activate ONT software.

This command is enabled only when sw-ver-pland is set as "delayactivate".

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 ont interface (ont-idx) delay-act [no at | at <Gpon::SwActTime>]

Command Parameters

Table 6.11-1 "GPON ONT software delay activation control Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId>	ONT index

Resource Identifier	Type	Description
	- the ONT identifier	

Table 6.11-2 "GPON ONT software delay activation control Configuration Commands" Command Parameters

Parameter	Type	Description
[no] at	Parameter type: <Gpon::SwActTime> Format: - scheduled ont sw activation time - range: [0...4294967295]	*optional parameter with default value: "1970-01-01 : 00 : 00"* schedule ONT SW specific activating time. Only if sw-ver-pland is set to delayactivate, delay-act at can be configured.

6.12 GPON ONT CPU Load Performance Monitoring Configuration Command

Command Description

This command allows the operator to enable the CPU Load Performance Monitoring PM flag for the ONT.

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 ont interface (ont-idx) cpu-load [no ont-pm-collect | ont-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.12-1 "GPON ONT CPU Load Performance Monitoring Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.12-2 "GPON ONT CPU Load Performance Monitoring Configuration Command" Command Parameters

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

6.13 GPON ONT Memory Usage Performance Monitoring Configuration Command

Command Description

This command allows the operator to enable the Memory Usage Performance Monitoring PM flag for the ONT.

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 ont interface (ont-idx) memory-usage [no ont-pm-collect | ont-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.13-1 "GPON ONT Memory Usage Performance Monitoring Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.13-2 "GPON ONT Memory Usage Performance Monitoring Configuration Command" Command Parameters

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

6.14 ONT Card Configuration Command

Command Description

This command allows the operator to create and configure the ONT Card parameters.

Prior to entering this command the ONT must have been already created.

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 ont (no slot (ont-slot-idx)) | (slot (ont-slot-idx) planned-card-type <Gpon::PlndCardType> plndnumdataports <Gpon::PlndNumDataPorts> plndnumvoiceports <Gpon::PlndNumVoicePorts> [no port-type | port-type <Gpon::PortType>] [no transp-mode-rem | transp-mode-rem <Gpon::TranspMode>] [no no-mcast-control | no-mcast-control <Gpon::NoMcastCtrl>] [no admin-state | admin-state <Gpon::AdminStatus>])

Command Parameters

Table 6.14-1 "ONT Card Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-slot-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	identification of the ont-slot

Resource Identifier	Type	Description
	Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14]	

Table 6.14-2 "ONT Card Configuration Command" Command Parameters

Parameter	Type	Description
planned-card-type	Parameter type: <Gpon::PlndCardType> Format: (ethernet | 10_100base | pots | vdsl2pots | vdsl2 | ethpots | video | veip | ds1 | e1 | hpna | moca | eth_adaptive) Possible values: - ethernet : 10/100/1000/10000 base-t - 10_100base : 10/100 base-t - pots : pots - vdsl2pots : vdsl2/pots combo - vdsl2 : vdsl2 - ethpots : ethernet/pots combo - video : video - veip : VEIP card - ds1 : ds1 - e1 : e1 - hpna : hpna - moca : moca - eth_adaptive : Self-adaptive between PPTP Ethernet and VEIP	*mandatory parameter* *The parameter is not visible during modification.* planned card type
plndnumdataports	Parameter type: <Gpon::PlndNumDataPorts> Format: - planned number of data ports - range: [0...16]	*mandatory parameter* planned number of data ports
plndnumvoiceports	Parameter type: <Gpon::PlndNumVoicePorts> Format: - planned number of voice ports - range: [0...24]	*mandatory parameter* planned number of voice ports
[no] port-type	Parameter type: <Gpon::PortType> Format: (uni | nni) Possible values: - uni : uni interface - nni : nni interface	*optional parameter with default value: "uni"* *The parameter is not visible during modification.* port type of the line card
[no] transp-mode-rem	Parameter type: <Gpon::TranspMode> Format: (disable | enable) Possible values: - disable : disable transparent	*optional parameter with default value: "disable"* *The parameter is not visible during modification.* transparent mode of the line card

Parameter	Type	Description
	- enable : enable transparent	
[no] no-mcast-control	Parameter type: <Gpon::NoMcastCtrl> Format: (disable | enable) Possible values: - disable : disable igmp NoMcastCtrl - enable : enable igmp NoMcastCtrl	*optional parameter with default value: "disable"* *The parameter is not visible during modification.* used to control whether the mcast related OMCI message should be sent to ONT
[no] admin-state	Parameter type: <Gpon::AdminStatus> Format: (down | up) Possible values: - down : set the admin-state to down - up : set the admin-state to up	*optional parameter with default value: "up"* administrative status of the interface

6.15 ONT Software Control Configuration Command

Command Description

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

*hw-version - has the same meaning as the eqpt-ver-num parameter supported by 'show equipment ont interface' command. Special character * (asterisk) may be provided in the string which means that the * character (and all subsequent character positions) are considered to be automatic 'matches' for values in same character positions of eqpt-ver-num parameter.*

ont-variant - has the same meaning as the plnd-var in 'configure equipment ont interface' command

Note: Combination of hw-version and ont-variant must be unique.

plnd-sw-version - has the same meaning as the 'auto-sw-plnd-ver parameter supported by 'show equipment ont interface' command.

sw-dwload-ver - has the same meaning as the 'auto-sw-dld-ver parameter supported by 'show equipment ont interface' command.

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 ont (no sw-ctrl (sw-ctrl-id)) | (sw-ctrl (sw-ctrl-id) hw-version <Gpon::SwVer> [no ont-variant | ont-variant <Gpon::PlndVar>] [no plnd-sw-version | plnd-sw-version <Gpon::SwVer>] [no plnd-sw-ver-conf | plnd-sw-ver-conf <Gpon::SwVer>] [no sw-dwload-ver | sw-dwload-ver <Gpon::SwVer>] [no pland-cfgfile1 | pland-cfgfile1 <Gpon::CfgFile>] [no pland-cfgfile2 | pland-cfgfile2 <Gpon::CfgFile>] [no dnload-cfgfile1 | dnload-cfgfile1 <Gpon::CfgFile>] [no dnload-cfgfile2 | dnload-cfgfile2 <Gpon::CfgFile>])

Command Parameters

Table 6.15-1 "ONT Software Control Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(sw-ctrl-id)	Format: - ont sw ctrl id - range: [1...250]	software control id

Table 6.15-2 "ONT Software Control Configuration Command" Command Parameters

Parameter	Type	Description
hw-version	Parameter type: <Gpon::SwVer>	*mandatory parameter*

Parameter	Type	Description
	Format: - ont sw version - length: 1<=x<=14	*The parameter is not visible during modification.* ONT hardware version
[no] ont-variant	Parameter type: <Gpon::PlndVar> Format: - planned variant of the ONT hardware version - length: x<=80	*optional parameter with default value: ""* *The parameter is not visible during modification.* planned variant of the ONT hardware version.Use DO for Data-only ONTs,SIP for SIP ONTs,H.248 for MEGACO ONTs
[no] plnd-sw-version	Parameter type: <Gpon::SwVer> Format: - ont sw version - length: 1<=x<=14	*optional parameter with default value: "UNPLANNED"* planned ONT software version number. If sw-dwload-ver is set to disabled, plnd-sw-version cannot be set to delayactivate.
[no] plnd-sw-ver-conf	Parameter type: <Gpon::SwVer> Format: - ont sw version - length: 1<=x<=14	*optional parameter with default value: "UNPLANNED"* software planned version confirmation
[no] sw-dwload-ver	Parameter type: <Gpon::SwVer> Format: - ont sw version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* software download version. If plnd-sw-version is set to delayactivate, sw-dwload-ver cannot be set to disabled.
[no] pland-cfgfile1	Parameter type: <Gpon::CfgFile> Format: - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile1 version to be planned
[no] pland-cfgfile2	Parameter type: <Gpon::CfgFile> Format: - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile2 version to be planned
[no] dnload-cfgfile1	Parameter type: <Gpon::CfgFile> Format: - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile1 version to be downloaded
[no] dnload-cfgfile2	Parameter type: <Gpon::CfgFile> Format: - ont configure file version - length: 1<=x<=14	*optional parameter with default value: "DISABLED"* indicate the cfgfile2 version to be planned

6.16 GPON ONT software delay activation control Configuration Commands

Command Description

This command allows the operator to specify when OLT should attempt to activate ONT software.

This command is enabled only when sw-ver-pland is set as "delayactivate".

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 ont sw-ctrl (sw-ctrl-id) delay-act [no at | at <Gpon::SwActTime>]

Command Parameters

Table 6.16-1 "GPON ONT software delay activation control Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(sw-ctrl-id)	Format: - ont sw ctrl id - range: [1...250]	software control id

Table 6.16-2 "GPON ONT software delay activation control Configuration Commands" Command Parameters

Parameter	Type	Description
[no] at	Parameter type: <Gpon::SwActTime> Format: - scheduled ont sw activation time - range: [0...4294967295]	*optional parameter with default value: "1970-01-01 : 00 : 00"* schedule ONT SW specific activating time. Only if sw-ver-pland is set to delayactivate, delay-act at can be configured.

6.17 ONT Interface Configuration Command

Command Description

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

loop-detect - when default value no-control is set, OLT won't care about ONT loop detect, when disable is set, ONT won't detect loop, when enable is set , ONT will loop detect

loop-portautoshutoff - when default value enable is set, if ONT detect loop, it will autoly shut down the port, when disable is set, ONT won't auto shutdown

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 ont loop (ont-idx) [no loop-detect | loop-detect <Gpon::LoopDetectAdmin>] [no loop-portautoshut | loop-portautoshut <Gpon::LoopDetectAutoShut>]

Command Parameters

Table 6.17-1 "ONT Interface Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId>	ONT index

Resource Identifier	Type	Description
	- the ONT identifier	

Table 6.17-2 "ONT Interface Configuration Command" Command Parameters

Parameter	Type	Description
[no] loop-detect	Parameter type: <Gpon::LoopDetectAdmin> Format: (no-control | disable | enable) Possible values: - no-control : loop detect no control - disable : loop detect disable - enable : loop detect enable	*optional parameter with default value: "no-control"* loop detect admin state settings for this ONT
[no] loop-portautoshut	Parameter type: <Gpon::LoopDetectAutoShut> Format: (disable | enable) Possible values: - disable : loop detect disable - enable : loop detect enable	*optional parameter with default value: "enable"* loop detect auto shutoff settings for this ONT

6.18 ONT GIS Configuration Command

Command Description

This command allows the operator to configure the ONT GIS parameters.

olt-location - when default value disable is set, OLT won't care about ONT GIS info, when enable is set, OLT would provison OLT's location to ONT

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 ont gis (ont-idx) [no olt-location | olt-location <Gpon::OltLocation>]

Command Parameters

Table 6.18-1 "ONT GIS Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.18-2 "ONT GIS Configuration Command" Command Parameters

Parameter	Type	Description
[no] olt-location	Parameter type: <Gpon::OltLocation> Format: (disable | enable) Possible values: - disable : the OLT GIS info will not be used - enable : the OLT GIS info will be used	*optional parameter with default value: "disable"* GIS settings for this ONT

6.19 ONT xgpon Configuration Command

Command Description

This command allows the operator to configure the ONT,parameters,enable/disable Performance monitors.

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 ont pm-collect (ont-idx) [no xg-pm-collect | xg-pm-collect <Gpon::OntPmCollect>]

Command Parameters

Table 6.19-1 "ONT xgpon Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(ont-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>) Possible values: - ng2 : ngpon2 style identification 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 <Ng2::ChannelGroup> - channel group number Field type <Ng2::SubchannelGroup> - subchannel group number Field type <Eqpt::OntId> - the ONT identifier Field type <Ng2::OntId> - the ONT identifier	ONT index

Table 6.19-2 "ONT xgpon Configuration Command" Command Parameters

Parameter	Type	Description
[no] xg-pm-collect	Parameter type: <Gpon::OntPmCollect> Format:	*optional parameter with default value: "disable"*

Parameter	Type	Description
	(enable | disable) Possible values: - enable : enable PM - disable : disable PM	enable/disable Performance monitors