44- ONT Ethernet Port Configuration Command

44.1 ONT Ethernet Port Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "ONT Ethernet Port Configuration Command".

Command Tree

----configure
----ethernet
----ont
- (uni-idx)
- [no] cust-info
- auto-detect
- [no] power-control
- [no] pse-class
- [no] pse-pw-priority
- [no] pwr-override
- [no] lpt-mode
- [no] admin-state

----X port
- [no] pm-collect

----phy
- [no] pm

----l2
- [no] pm
- [no] tca
- [no] dropped-frames-up
- [no] dropped-frames-dn

----pm-collect-ext
- [no] pm-collect
- [no] p-bits
- [no] vlan-id

----cfm
- [no] portshut-ais

44.2 ONT Ethernet Port Configuration Command

Command Description

This command allows the operator to modify ONT Ethernet port provisioning data.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure ethernet ont (uni-idx) [no cust-info | cust-info <Gpon::CustInfo>] [auto-detect <Gpon::AutoDetect>] [no power-control | power-control <Gpon::PowerControl>] [no pse-class | pse-class <Gpon::PSEClass>] [no pse-pw-priority | pse-pw-priority <Gpon::PSEPwrPri>] [no pwr-override | pwr-override <Gpon::PowerShedOverride>] [no lpt-mode | lpt-mode <Gpon::LPTMODE>] [no admin-state | admin-state <Gpon::ItfAdminStatus>]

Command Parameters

Table 44.2-1 "ONT Ethernet Port Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) 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 uni interface index

Resource Identifier	Type	Description
	Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 44.2-2 "ONT Ethernet Port Configuration Command" Command Parameters

Parameter	Type	Description
[no] cust-info	Parameter type: <Gpon::CustInfo> Format: - a printable string - length: x<=80	*optional parameter with default value: "none"* port information
auto-detect	Parameter type: <Gpon::AutoDetect> Format: (10_100baset-auto | 10baset-fd | 100baset-fd | 1000baset-fd | auto-basetfd | 10gig-fd | 2.5gig-fd | 5gig-fd | 10baset-auto | 10baset-hd | 100baset-hd | 1000baset-hd | autobaset-hd | 10_100_1000baset-auto | 100baset-auto | auto | 1000baset-auto) Possible values: - 10_100baset-auto : 10/100/1000 Base T, auto sensing (note: this auto sensing behavior ensures backward compatibility with older software releases. It may result in the port negotiating to 1 Gbps) - 10baset-fd : 10 Base T, full duplex - 100baset-fd : 100 Base T, full duplex - 1000baset-fd : 1000 Base T, full duplex - auto-basetfd : 10/100/1000 Base T, full duplex - 10gig-fd : 10 Gig, full duplex only - 2.5gig-fd : 2.5 Gig, full duplex only - 5gig-fd : 5 Gig, full duplex only - 10baset-auto : 10 Base T,automatic sensing - 10baset-hd : 10 Base T, half Duplex - 100baset-hd : 100 Base T, half duplex - 1000baset-hd : 1000 Base T, half duplex - autobaset-hd : 10/100/1000 Base T, half duplex - 10_100_1000baset-auto : 10/100/1000 Base T, auto sensing - 100baset-auto : 100 Base T, auto sensing - auto : 10/100/1000 Base T, auto sensing - 1000baset-auto : 1000 Base T auto sensing	*optional parameter* auto detection configuration
[no] power-control	Parameter type: <Gpon::PowerControl> Format: (enable	*optional parameter with default value: "disable"* power control configuration

Parameter	Type	Description
	| disable) Possible values: - enable : provide power to external equipment - disable : not provide power to external equipment	
[no] pse-class	Parameter type: <Gpon::PSEClass> Format: (0 | 1 | 2 | 3 | 4 | 5) Possible values: - 0 : Default output power - 1 : Class 0, the output power is 15.4w - 2 : Class 1, the output power is 4.0w - 3 : Class 2, the output power is 7.0w - 4 : Class 3, the output power is 15.4w - 5 : Class 4, the output power is 30.0w	*optional parameter with default value: "0"* power class configuration
[no] pse-pw-priority	Parameter type: <Gpon::PSEPwrPri> Format: (critical | high | low) Possible values: - critical : Prevents overcurrent situations by last disconnecting the ports with critical priority - high : Prevents overcurrent situations by disconnecting the ports with high priority - low : Prevents overcurrent situations by first disconnecting the ports with lower priority(Default)	*optional parameter with default value: "low"* power supply priority
[no] pwr-override	Parameter type: <Gpon::PowerShedOverride> Format: (enable | disable) Possible values: - enable : port is excluded from data class power shedding - disable : port is included in data class power shedding	*optional parameter with default value: "disable"* configure power shedding
[no] lpt-mode	Parameter type: <Gpon::LPTMODE> Format: (not-supported | enabled | disabled) Possible values: - not-supported : ignore and don't send the configuration to ONT - enabled : enable the LPT mode on this port - disabled : disable the LPT mode on this port	*optional parameter with default value: "not-supported"* LinkPassThrough(LPT) mode configuration
[no] 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 with default value: "down"* *The parameter is not visible during creation.* administrative status of the interface

Command Output

Table 44.2-3 "ONT Ethernet Port 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	the operational state of the interface *This element is always shown.*

44.3 ONT Ethernet Port Physical Layer Performance Monitoring Configuration Command

Command Description

Obsolete command, replaced by configure ethernet ont phy pm.

This command allows the operator to enable or disable PM on the ONT ethernet port physical layer.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

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

Obsolete command, replaced by configure ethernet ont phy pm.

Command Parameters

Table 44.3-1 "ONT Ethernet Port Physical Layer Performance Monitoring Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) 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>	identification of the uni interface index

Resource Identifier	Type	Description
	- the ONT identifier Field type <Ng2::OntId> - the ONT identifier Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 44.3-2 "ONT Ethernet Port Physical Layer Performance Monitoring Configuration Command" Command Parameters

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

44.4 Ethernet ONT Uni Physical Layer Configuration Command

Command Description

This command allows the operator to provision performance monitoring for an Ethernet ONT physical layer UNI.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure ethernet ont (uni-idx) phy [no pm | pm <Gpon::OntPmCollect>]

Command Parameters

Table 44.4-1 "Ethernet ONT Uni Physical Layer Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) 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 Field type <Gpon::OntSlotId>	identification of the uni interface index

Resource Identifier	Type	Description
	- Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 44.4-2 "Ethernet ONT Uni Physical Layer Configuration Command" Command Parameters

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

Command Output

Table 44.4-3 "Ethernet ONT Uni Physical Layer Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
pm-intervals	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponEtherTrafficIntervalTable *This element is only shown in detail mode.*

44.5 Ethernet ONT Uni Layer 2 Configuration Command

Command Description

This command allows the operator to provision performance monitoring and threshold crossing alerts for an Ethernet ONT layer 2 UNI.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure ethernet ont (uni-idx) l2 [no pm | pm <Gpon::OntPmCollect>] [no tca | tca <Gpon::OntPmCollect>] [no dropped-frames-up | dropped-frames-up <Gpon::ErrorCountThreshold>] [no dropped-frames-dn | dropped-frames-dn <Gpon::ErrorCountThreshold>]

Command Parameters

Table 44.5-1 "Ethernet ONT Uni Layer 2 Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) 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	identification of the uni interface index

Resource Identifier	Type	Description
	Field type <Ng2::OntId> - the ONT identifier Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 44.5-2 "Ethernet ONT Uni Layer 2 Configuration Command" Command Parameters

Parameter	Type	Description
[no] pm	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* l2 pm collection
[no] tca	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* l2 threshold crossing alerts
[no] dropped-frames-up	Parameter type: <Gpon::ErrorCountThreshold> Format: (disable | <Gpon::ErrorCountThreshold>) Possible values: - disable : disable tca Field type <Gpon::ErrorCountThreshold> - error count threshold (0-4294967295) - range: [0...4294967295]	*optional parameter with default value: "disable"* incoming (upstream) dropped frames threshold
[no] dropped-frames-dn	Parameter type: <Gpon::ErrorCountThreshold> Format: (disable | <Gpon::ErrorCountThreshold>) Possible values: - disable : disable tca Field type <Gpon::ErrorCountThreshold> - error count threshold (0-4294967295) - range: [0...4294967295]	*optional parameter with default value: "disable"* outgoing (downstream) drooped frames threshold

Command Output

Table 44.5-3 "Ethernet ONT Uni Layer 2 Configuration Command" Display parameters

Specific Information		
name	**Type**	**Description**
pm-intervals	Parameter type: <SignedInteger> - a signed integer	number of rows currently present in the gponEtherTrafficIntervalTable *This element is only shown in detail mode.*

44.6 L2 UNI ONT Performance Monitor Extended 32bit Configuration Command

Command Description

This command sets the PM EXT 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 ethernet ont (uni-idx) l2 pm-collect-ext [no pm-collect | pm-collect <Gpon::OntPmCollect>] [no p-bits | p-bits <SignedInteger>] [no vlan-id | vlan-id <Vlan::VlanIndexOrZero>]

Command Parameters

Table 44.6-1 "L2 UNI ONT Performance Monitor Extended 32bit Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) 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>	identification of the uni interface index

Resource Identifier	Type	Description
	- the ONT identifier Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 44.6-2 "L2 UNI ONT Performance Monitor Extended 32bit Configuration Command" Command Parameters

Parameter	Type	Description
[no] pm-collect	Parameter type: <Gpon::OntPmCollect> Format: (enable | disable) Possible values: - enable : enable PM - disable : disable PM	*optional parameter with default value: "disable"* indicates whether enable this pm collect for this Ethernet Port
[no] p-bits	Parameter type: <SignedInteger> Format: - a signed integer	*optional parameter with default value: 0xFF* indicates the P bits of the TCI field are used to filter the PM data collected or not\n 0xFF: not used\n 0-7: p-bit used to filter data
[no] vlan-id	Parameter type: <Vlan::VlanIndexOrZero> Format: - vlan id - range: [0...4092]	*optional parameter with default value: 0* indicates the vlan-id bits of the TCI field are used to filter the PM data collected\n 0: not used\n Other value : this vlan-id used to filter data

44.7 UNI Port Shutdown-Ais Configuration Commands

Command Description

This attribute is linked to a CFM functionality on the ONU. It indicates if the ONU is programmed to autonomously shut down its UNI upon reception of a downstream AIS PDU on an UP MEP residing on top of the ONU UNI.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure ethernet ont (uni-idx) cfm [[no] portshut-ais]

Command Parameters

Table 44.7-1 "UNI Port Shutdown-Ais Configuration Commands" Resource Parameters

Resource Identifier	Type	Description
(uni-idx)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId> / <Gpon::OntSlotId> / <Gpon::OntPortId>) 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 uni interface index

Resource Identifier	Type	Description
	Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14] Field type <Gpon::OntPortId> - Gpon Ont Port - range: [1...16]	

Table 44.7-2 "UNI Port Shutdown-Ais Configuration Commands" Command Parameters

Parameter	Type	Description
[no] portshut-ais	Parameter type: boolean	*optional parameter* shutdown the corresponding Ethernet port on ONT when receiving DS Y.1731 AIS PDU.