92- ONT Status Commands

92.1 ONT Status Command Tree

Description

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

Command Tree

```
----show
    ----equipment
        ----ont
            ----interface
                - (ont-idx)
            ----operational-data
                - (ont-idx)
            ----slot
                - (ont-slot-idx)
            ----sw-ctrl
                - (sw-ctrl-idx)
            ----sw-version
                - (sw-ver-id)
            ----sw-download
                - (ont-idx)
            ----data-store
                - (ont-idx)
            ----optics
                - (ont-idx)
            ----optics-history
                - (ont-idx)
            ----pwr-shed
                - (ont-idx)
            ----tc-layer
                ----olt-side-on-demand
                    ----current-interval
                        - (ont-idx)
                    ----previous-interval
                        - (ont-idx)
                        - interval-num
                ----ont-side
                    ----current-interval
                        - (ont-idx)
                    ----previous-interval
                        - (ont-idx)
                        - interval-num
                ----olt-side
                    ----current-interval
                        - (ont-idx)
                    ----previous-interval
                        - (ont-idx)
                        - interval-num
            ----mcast-tc-layer
                ----ont-side
                    ----current-interval
                        - (ont-idx)
```

```
            ----previous-interval
                - (ont-idx)
                - interval-no
    ----fec-tc-layer
        ----ont-side
            ----current-interval
                - (ont-idx)
        ----olt-side
            ----current-interval
                - (ont-idx)
    ----sw-ctrl-list
        - (sw-ctrl-idx)
    ----ethernet
        ----current-interval
            - (ont-idx)
        ----previous-interval
            - (ont-idx)
            - interval-num
        ----total
            - (ont-idx)
    ----phy-layer
        ----olt-side
            ----current-interval
                - (ont-idx)
    ----xg-tc-layer
        ----ont-side
            ----current-interval
                - (ont-idx)
            ----previous-interval
                - (ont-idx)
                - interval-no
        ----olt-side
            ----current-interval
                - (ont-idx)
            ----previous-interval
                - (ont-idx)
                - interval-no
    ----utilization
        ----current-interval
            - (ont-idx)
        ----previous-interval
            - (ont-idx)
            - interval-num
    ----cfg-download
        - (ont-idx)
    ----ng2-cfg-download
        ----channel-group
            - (channel-group)
            - subchannel-group
            - ont-id
    ----index
        - (ont-search-string)
    ----gis
        - (ont-idx)
    ----xg-mgmt
        ----ont-side
            ----current-interval
                - (ont-idx)
            ----previous-interval
```

- (ont-idx)
- interval-no

----memory-usage

----current-interval

- (ont-idx)

----previous-interval

- (ont-idx)
- interval-num

----cpu-load

----current-interval

- (ont-idx)

----previous-interval

- (ont-idx)
- interval-num

92.2 ONT Interface Command

Command Description

This command reports Interface parameters for the ont.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont interface [(ont-idx)]

Command Parameters

Table 92.2-1 "ONT Interface 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	identification of ont

Command Output

Table 92.2-2 "ONT Interface Command" Display parameters

Specific Information

name	Type	Description
eqpt-ver-num	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	version number of the ont *This element is always shown.*
sw-ver-act	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	active software version in the ont *This element is always shown.*
sw-ver-psv	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	passive software version in the ont *This element is only shown in detail mode.*
vendor-id	Parameter type: <Gpon::VendorId> - vendor id - 4 ASCII characters - range: [a-zA-Z0-9] - length: 4	vendor id *This element is only shown in detail mode.*
equip-id	Parameter type: <Gpon::EquipId> - ont equip Id - length: x<=20	equipment id *This element is only shown in detail mode.*
actual-num-slots	Parameter type: <Gpon::ActualOntSlotId> - Gpon Ont Slot - range: [0...16]	actual number of slots on ont *This element is always shown.*
version-number	Parameter type: <Gpon::OntVersion> - the version number of a card - length: x<=14	version number of ont *This element is always shown.*
num-tconts	Parameter type: <Gpon::Tconts> - tconts - range: [0...4095]	number of t-conts supported *This element is only shown in detail mode.*
num-trf-sched	Parameter type: <Gpon::TrafficSched> - traffic schedule - range: [0...255]	number of traffic schedulers supported *This element is only shown in detail mode.*
num-prio-queues	Parameter type: <Gpon::PrioQueues> - priority queues - range: [0...4095]	number of priority queues supported *This element is only shown in detail mode.*
auto-sw-planned-ver	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	planned software of ont *This element is only shown in detail mode.*
auto-sw-download-ver	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	download software version of ont *This element is only shown in detail mode.*
sernum	Parameter type: <Gpon::SerNum2> <Gpon::VendorIdNum> : <Gpon::SerialNo> Field type <Gpon::VendorIdNum> - vendor id -4 ASCII characters - length: 4 Field type <Gpon::SerialNo> - serial num - 8 ASCII characters - range: [a-fA-F0-9] - length: 8	Serial number of ont *This element is always shown.*
yp-serial-no	Parameter type: <Gpon::YpSerialNumber> (unknown | <PrintableString>) Possible values: - unknown : yp serial number not supported for this ONT Field type <PrintableString> - printable string	Yp Serial number of ont *This element is always shown.*
oper-spec-ver	Parameter type: <Gpon::OperSpecVer>	the ctc spec version supported by

name	Type	Description
	(ctc-v2.0 | unknown | <Gpon::OperSpecVer>) Possible values: - ctc-v2.0 : ctc version 2.0 - unknown : the version is unknown Field type <Gpon::OperSpecVer> - the ctc spec version supported by the ont - range: [0...256]	the ont *This element is only shown in detail mode.*
act-ont-type	Parameter type: <Gpon::ActOntType> (sfu | hgu | sbu | cbu | mdu | mtu | unknown | <Gpon::ActOntType>) Possible values: - sfu : the ont type is sfu - hgu : the ont type is hgu - sbu : the ont type is sbu - cbu : the ont type is cbu - mdu : the ont type is mdu - mtu : the ont type is mtu - unknown : the ont type is unknown Field type <Gpon::ActOntType> - the ctc ont type - range: [0...256]	the ctc ont type *This element is only shown in detail mode.*
act-txpower-ctrl	Parameter type: <Gpon::ActTxPwrCtrl> (not-supported | tx-only | tx-rx | unknown | <Gpon::ActTxPwrCtrl>) Possible values: - not-supported : not supported - tx-only : only supporting tx control - tx-rx : tx and rx power supplies can be controlled independently - unknown : the power supply ctrl mode is unknown Field type <Gpon::ActTxPwrCtrl> - whether power supply of ONT transmitter can be independently controlled - range: [0...256]	whether power supply of ONT transmitter can be independently controlled *This element is only shown in detail mode.*
sn-bundle-status	Parameter type: <Gpon::SnBundleStatus> (idle | bundling | bundled) Possible values: - idle : the sn currently is not bundled - bundling : the sn currently is not bundled while auto-bundle timer has been started - bundled : the sn currently is bundled	sn with loid/slid bundling status *This element is only shown in detail mode.*
cfgfile1-ver-act	Parameter type: <Gpon::CfgFile> - ont configure file version - length: 1<=x<=14	active configure file 1 version in the ont *This element is always shown.*

name	Type	Description
cfgfile1-ver-psv	Parameter type: <Gpon::CfgFile> - ont configure file version - length: 1<=x<=14	passive configure file 1 version in the ont *This element is only shown in detail mode.*
cfgfile2-ver-act	Parameter type: <Gpon::CfgFile> - ont configure file version - length: 1<=x<=14	active configure file 2 version in the ont *This element is always shown.*
cfgfile2-ver-psv	Parameter type: <Gpon::CfgFile> - ont configure file version - length: 1<=x<=14	passive configure file 2 version in the ont *This element is only shown in detail mode.*
actual-us-rate	Parameter type: <Gpon::ActualUsRate> (| 2.5g | 10g | 1.25g | 25g) Possible values: - : unknown - 2.5g : 2.5 GBit/sec - 10g : 10 GBit/sec - 1.25g : 1.25 GBit/sec - 25g : 25 GBit/sec	actual upstream rate. *This element is always shown.*
template-name	Parameter type: <Gpon::OnuProvTemplateName> - Template name to be used for ONU auto provisioning - range: [a-zA-Z0-9-_] - length: x<=20	ONT Semi-Auto Provision template name *This element is only shown in detail mode.*
auto-prov-status	Parameter type: <Gpon::OnuAutoProvStatus> (not-applicable | failed | success) Possible values: - not-applicable : ONU semi-auto provisioning is not applicable - failed : ONU semi-auto provisioning failed - success : ONU semi-auto provisioning is success	ONT Semi-Auto provisioning status *This element is only shown in detail mode.*

92.3 ONT Interface Operational Status Command

Command Description

this command reports current operational parameters for the ont.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont operational-data [(ont-idx)]

Command Parameters

Table 92.3-1 "ONT Interface Operational Status 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	identification of ont

Command Output

Table 92.3-2 "ONT Interface Operational Status Command" Display parameters

Specific Information

name	Type	Description
loss-of-signal	Parameter type: <Gpon::LossOfSignal> (no | yes) Possible values: - no : no loss of signal - yes : loss of signal	loss of signal alarm (los). *This element is always shown.*
loss-of-ack	Parameter type: <Gpon::LossOfAck> (no | yes) Possible values: - no : no loss of acknowledgement - yes : loss of acknowledgement	loss of acknowledge alarm (loa). *This element is always shown.*
loss-of-gem	Parameter type: <Gpon::LossOfGem> (no | yes) Possible values: - no : no loss of gem channel delineation - yes : loss of gem channel delineation	loss of gem channel delineation (lcd). *This element is always shown.*
physical-eqpt-err	Parameter type: <Gpon::PhysicalEqptErr> (no | yes) Possible values: - no : no physical equipment error - yes : physical equipment error	physical equiptment error (pee). *This element is only shown in detail mode.*
startup-failure	Parameter type: <Gpon::StartupFailure> (no | yes) Possible values: - no : no startup failure - yes : startup failure	startup failure (suf). *This element is only shown in detail mode.*
signal-degrade	Parameter type: <Gpon::SignalDegrade> (no | yes) Possible values: - no : no signal degrade - yes : signal degrade	signal degrade (sd). *This element is only shown in detail mode.*
ont-disabled	Parameter type: <Gpon::OntDisabled> (no | yes) Possible values: - no : ont not disabled - yes : ont disabled	ont disabled (ontdisabled). *This element is always shown.*
msg-error-msg	Parameter type: <Gpon::MsgErrorMsg> (no | yes) Possible values: - no : no message error message - yes : message error message	message error message (mem). *This element is only shown in detail mode.*
inactive	Parameter type: <Gpon::Inactive> (no | yes) Possible values: - no : active - yes : inactive	inactive (inact). *This element is always shown.*
loss-of-frame	Parameter type: <Gpon::LossOfFrame> (no | yes)	loss of frame (lof). *This element is only shown in detail mode.*

name	Type	Description
	Possible values: - no : no loss of frame - yes : loss of frame	
signal-fail	Parameter type: <Gpon::SignalFail> (no | yes) Possible values: - no : no signal failure - yes : signal failure	signal fail (sf). *This element is only shown in detail mode.*
dying-gasp	Parameter type: <Gpon::DyingGasp> (no | yes) Possible values: - no : no dying gasp - yes : dying gasp	dying gasp (dg). *This element is always shown.*
deactivate-fail	Parameter type: <Gpon::DeactivateFail> (no | yes) Possible values: - no : no deactivate failure - yes : deactivate failure	deactivate failure (df). *This element is only shown in detail mode.*
loss-of-ploam	Parameter type: <Gpon::LossOfPloam> (no | yes) Possible values: - no : no loss of ploam - yes : loss of ploam	loss of ploam(lop). *This element is only shown in detail mode.*
drift-of-window	Parameter type: <Gpon::DriftOfWindow> (no | yes) Possible values: - no : no drift of window - yes : drift of window	drift of window (dow). *This element is only shown in detail mode.*
remote-defect-ind	Parameter type: <Gpon::RemoteDefectInd> (no | yes) Possible values: - no : no remote defect indication - yes : remote defect indication	remote defect indication (rdi). *This element is only shown in detail mode.*
loss-of-key-sync	Parameter type: <Gpon::LossOfKeySync> (no | yes) Possible values: - no : no loss of key synchronization - yes : loss of key synchronization	loss of key synchronization (loks). *This element is only shown in detail mode.*
rogue-ont-disabled	Parameter type: <Gpon::RogueOntDis> (no | yes) Possible values: - no : no rogue ont disable - yes : rogue ont disable	rogue ont disable (rogueontdis). *This element is only shown in detail mode.*
diff-reach	Parameter type: <Gpon::DiffReach> (no | yes) Possible values: - no : differential reach capability not exceeded - yes : differential reach capability exceeded	differential reach capability exceeded (difreach). *This element is only shown in detail mode.*

name	Type	Description
ont-olt-distance	Parameter type: <Gpon::OntOltDist> (invalid | not-supported | <Gpon::DistOntOlt>) Possible values: - invalid : valid measurement is currently unattainable for some reason - not-supported : the measurement functionality is not supported by this particular unit. Field type <Gpon::DistOntOlt> - estimate of the distance between this ont and the olt - unit: km - range: [0...6550,6553.4...6553.5]	estimate of the distance between this ont and the olt. *This element is always shown.*
tod-sync	Parameter type: <Gpon::OntSyncStatus> (no | yes) Possible values: - no : ont Clock not synced to olt - yes : ont Clock synced to olt	the ont clock tod synchronized status. *This element is always shown.*
sw-ver-act	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	active software version in the ont. *This element is only shown in detail mode.*
sw-ver-psv	Parameter type: <Gpon::SwVer> - ont sw version - length: 1<=x<=14	passive software version in the ont. *This element is only shown in detail mode.*
last-restart-reason	Parameter type: <Gpon::OntLatestRestartReason> (unspecified-other | software-restart | hardware-restart | timer-expiration | hardware-error | hardware-auto-restart | over-temperature | software-out-of-memory | software-auto-restart | user-software-restart | n/a) Possible values: - unspecified-other : Unspecified other - software-restart : User initiated software restart remotely by OMCI/PLOAM - hardware-restart : User initiated hardware restart - timer-expiration : Self-monitor timer expiration - hardware-error : Hardware error (bus time-out, misaligned memory access, etc.) - hardware-auto-restart : Hardware auto-restart (on-board voltage monitor auto-restart, etc.) - over-temperature : Over temperature - software-out-of-memory: Software out of memory - software-auto-restart : Software auto-restart (unresolvable references, critical internal inconsistency) - user-software-restart : User initiated software restart locally by CLI/WEB - n/a : unknown	show ont latest restart reason *This element is always shown.*
down-reason	Parameter type: <Gpon::OntLastDownReason> (loss-of-signal	down cause of ont form OLT perspective

name	Type	Description
	| loss-of-acknowledge | channel-delineation | equipment-error | start-up-failure | signal-degrade | ont-disabled | error-message | ploam-inactive | loss-of-frame | signal-failure | dying-gasp | deactivate-failure | loss-of-oam | drift-of-window | remote-defect | loss-of-key-signal | roque-ont-disabled | pon-exceeds-diff-reach | loss-of-omci-channel | ont-omci-failure | ont-equipment-failure | sw-activation-failure | password-auth-failure | equipment-mismatch | invalid-active-version | upstream-rate-mismatch | me-mismatch-alarm | voip-config-error | ont-temperature-rise | ont-tuning-failed | user-software-restart | admin-down | pon-down | not-yet-detected | lt-reboot | n/a) Possible values: - loss-of-signal : PLOAM Loss Of Signal - loss-of-acknowledge : PLOAM Loss of Acknowledgement - channel-delineation : PLOAM Loss of Channel Delineation - equipment-error : PLOAM Physical Equipment Error - start-up-failure : PLOAM Start Up Failure - signal-degrade : PLOAM Signal Degrade - ont-disabled : PLOAM Misbehaved ONT Disabled - error-message : PLOAM Message Error Message - ploam-inactive : PLOAM Inactive - loss-of-frame : PLOAM Loss of Frame - signal-failure : PLOAM Signal Fail - dying-gasp : PLOAM Dying Gasp - deactivate-failure : PLOAM Deactivate Failure - loss-of-oam : PLOAM Loss of Operations, Administrations and Maintenance - drift-of-window : PLOAM Drift of Window - remote-defect : PLOAM Remote Defect Indication - loss-of-key-signal : PLOAM Loss of Key Signal - roque-ont-disabled : PLOAM Roque ONT Disabled	*This element is always shown.*

name	Type	Description
	- pon-exceeds-diff-reach: PLOAM PON exceeds differential reach capability - loss-of-omci-channel : PLOAM Loss of OMCI Channel on ONT - ont-omci-failure : ONT OMCI Failure - ont-equipment-failure : ONT Equipment Failure - sw-activation-failure : ONT Software Activation Failed - password-auth-failure : ONT Password Authentication Failed - equipment-mismatch : ONT Equipment Mismatch Alarm - invalid-active-version: ONT Invalid active version - upstream-rate-mismatch: ONT Planned and active Upstream Rate Mismatch - me-mismatch-alarm : ONT ME Mismatch Alarm - voip-config-error : VOIP Configuration File Error - ont-temperature-rise : ONT Temperature Rise - ont-tuning-failed : ONT Tuning Failed - user-software-restart : User initiated software restart locally by CLI/WEB - admin-down : Admin down - pon-down : Pon down - not-yet-detected : Not Yet Detected - lt-reboot : Down by LT - ONT went down due to LT reboot - n/a : Unknown	

92.4 ONT Card Status Command

Command Description

This command show ont card holder actual information.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont slot [(ont-slot-idx)]

Command Parameters

Table 92.4-1 "ONT Card Status 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 Field type <Gpon::OntSlotId> - Gpon Ont Slot - range: [1...14]	current operational parameters for the ont

Command Output

Table 92.4-2 "ONT Card Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
act-num-data-ports	Parameter type: <Gpon::OntCardNoOfPorts> - the actual number of ports - range: [0...24]	the actual number of data ports for the ont card. *This element is always shown.*
act-num-voice-ports	Parameter type: <Gpon::OntCardNoOfPotsPorts> - the actual number of ports - range: [0...24]	the actual number of voice ports for the ont card. *This element is always shown.*
actual-card-type	Parameter type: <Gpon::OntCardType> (ethernet | 10_100baset | pots | 802_11 | vdsl2pots | vdsl2 | ethpots | none | video | veip | ds1/e1 | hpna | 2488_1244 | moca | unknown) Possible values: - ethernet : 10/100/1000/10000 base-t - 10_100baset : 10/100 base-t or 10/100/1000 base-t card - pots : pots card - 802_11 : 80211 card - vdsl2pots : vdsl2/pots combo card - vdsl2 : vdsl2 only card - ethpots : ethernet/pots combo card - none : no card is present - video : video card - veip : VEIP card - ds1/e1 : configurable ds1/e1 card - hpna : hpna card - 2488_1244 : GPON24881244 card - moca : moca - unknown : an unknown card type is present	the type of card that is present in the ont. *This element is always shown.*
actual-ont-integ	Parameter type: <Gpon::OntInteg> (nonintegrated | integrated | unknown) Possible values: - nonintegrated : non-integrated interfaces (pluggable units) - integrated : integrated interfaces (no pluggable units) - unknown : not known	how the interfaces at the ont are modeled. *This element is only shown in detail mode.*
actual-serial-num	Parameter type: <Gpon::OntSerial> - significant 8 characters of the serial number - length: x<=8	the least significant 8 characters of the serial number of a card that is present in the ont. *This element is always shown.*
actual-version-num	Parameter type: <Gpon::OntVersion> - the version number of a card - length: x<=14	the version number of a card that is present in the ont. *This element is only shown in detail mode.*

name	Type	Description
actual-vendorid	Parameter type: <Gpon::OntVendor> - the vendor id of a card - length: x<=4	the vendor id of a card that is present in the ont. *This element is only shown in detail mode.*
actual-cardid	Parameter type: <Gpon::OntCardId> - the identifier of a card - length: x<=20	the identifier of a card (such as clei code) that is present in the ont. *This element is only shown in detail mode.*
state	Parameter type: <Gpon::OntOperState> (enabled | disabled) Possible values: - enabled : enabled - disabled : disabled	operation state of ont. *This element is always shown.*

92.5 ONT Software Control Status Command

Command Description

This command shows an association between an ont hardware version/variant and an ont software version.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont sw-ctrl [(sw-ctrl-idx)]

Command Parameters

Table 92.5-1 "ONT Software Control Status Command" Resource Parameters

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

Command Output

Table 92.5-2 "ONT Software Control Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
last-update-time	Parameter type: <Gpon::OntLastUpdateTime> - the time (yyyy-mm-dd:hour:minutes:secs) - unit: UTC	last update time of ont software control table. *This element is always shown.*
num-ref-onts	Parameter type: <Gpon::OntNoOfRefONTs> - number of onts that are referencing - range: [0...4608]	the number of onts that are referencing this ont software control entry. *This element is always shown.*
pre-plan-swver	Parameter type: <Gpon::OntVersion> - the version number of a card - length: x<=14	the previous planned ont software version used when swverplan=auto . *This element is always shown.*

92.6 ONT Software Version Status Command

Command Description

This command reports the ont software version files that are currently resident on the nt file system.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont sw-version [(sw-ver-id)]

Command Parameters

Table 92.6-1 "ONT Software Version Status Command" Resource Parameters

Resource Identifier	Type	Description
(sw-ver-id)	Format: - software version info index - range: [1...250]	index of software version file

Command Output

Table 92.6-2 "ONT Software Version Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
sw-ver	Parameter type: <Gpon::OntVersion> - the version number of a card - length: x<=14	ont software version identifier. *This element is always shown.*
sw-ver-size	Parameter type: <Gpon::OntSwVerSize> - ont software file size - range: [0...4294967295]	this attribute contains the ont software file size (in bytes). *This element is always shown.*

92.7 ONT Software Download Status Command

Command Description

This command shows individual ont fine-grain status associated with any sw download activity.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont sw-download [(ont-idx)]

Command Parameters

Table 92.7-1 "ONT Software Download Status 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	current operational parameters for the ont

Command Output

Table 92.7-2 "ONT Software Download Status Command" Display parameters

Specific Information

name	Type	Description
planned	Parameter type: <Gpon::notPlnd> (no | yes) Possible values: - no : ont is planned - yes : ont is not planned	ont is not planned. *This element is always shown.*
inactive	Parameter type: <Gpon::inAct> (no | yes) Possible values: - no : ont is active - yes : ont is not active	ont is not active. *This element is only shown in detail mode.*
planned-notok	Parameter type: <Gpon::nokPlnd> (no | yes) Possible values: - no : planned sw is active - yes : planned sw is not active	planned did not equal to active. *This element is only shown in detail mode.*
download-notok	Parameter type: <Gpon::nokDld> (no | yes) Possible values: - no : download software is in active or passive - yes : download software is not active or passive	download did not equal to active / passive. *This element is only shown in detail mode.*
download-inprogress	Parameter type: <Gpon::dldInProg> (no | yes) Possible values: - no : download not started - yes : download started	download activity in progress. *This element is always shown.*
ntlt-inprogress	Parameter type: <Gpon::ntltInProg> (no | yes) Possible values: - no : ntlt file transfer not in progress - yes : ntlt file transfer in progress	ntlt file transfer in progress. *This element is always shown.*
omci-inprogress	Parameter type: <Gpon::omciInProg> (no | yes) Possible values: - no : omci file transfer not in progress - yes : omci file transfer in progress	omci file transfer in progress. *This element is always shown.*
ontflash-inprogress	Parameter type: <Gpon::ontFlashInProg> (no | yes) Possible values: - no : ont write not in progress - yes : ont flash in progress	ont flash in progress. *This element is only shown in detail mode.*
ontswact-inprogress	Parameter type: <Gpon::ontSwActInProg> (no | yes) Possible values: - no : ont software activation not in progress - yes : ont software activation in progress	ont software activation is progress. *This element is always shown.*
ntlt-failure	Parameter type: <Gpon::ntltFailure> (no | yes)	ntlt file transfer failure. *This element is only shown in detail mode.*

name	Type	Description
	Possible values: - no : ntlt file transfer not failed - yes : ntlt file transfer failed	
omci-failure	Parameter type: <Gpon::omciFailure> (no | yes) Possible values: - no : omci file transfer not failed - yes : omci file transfer failed	omci file transfer failure. *This element is only shown in detail mode.*
ontflash-failure	Parameter type: <Gpon::ontFlashFail> (no | yes) Possible values: - no : ont flash writing not failed - yes : ont flash writing failed	ont flash write failure. *This element is only shown in detail mode.*
ontswact-failure	Parameter type: <Gpon::ontSwActFail> (no | yes) Possible values: - no : ont software activate not failed - yes : ont software activate failed	ont software activation failure. *This element is only shown in detail mode.*
download-file-notfound	Parameter type: <Gpon::noDldFile> (no | yes) Possible values: - no : download file found - yes : download file not found	download file not found. *This element is always shown.*
no-matching-software	Parameter type: <Gpon::noMatch> (no | yes) Possible values: - no : sw entry found in ctrl table - yes : sw entry not found in table	entry match not found in sw ctrl table. *This element is only shown in detail mode.*
sw-version-mismatch	Parameter type: <Gpon::swVerMisMatch> (no | yes) Possible values: - no : sofware version match - yes : software version mismatch	software version mismatch. *This element is always shown.*
sw-download-failure	Parameter type: <Gpon::swDlFail> (no | yes) Possible values: - no : software download not failed - yes : software download failed	software download failed. *This element is always shown.*
sw-delayactivate	Parameter type: <Gpon::swDelayActivate> (no | yes) Possible values: - no : no delay activation pending - yes : delay activation pending	software activation delayed. *This element is always shown.*
sw-download-pending	Parameter type: <Gpon::downloadPending> (no | yes) Possible values: - no : no download activity pending - yes : download activity pending	sw download activity is pending. *This element is only shown in detail mode.*

92.8 ONT Data Store Status Command

Command Description

This command reports information on the latest ont data dump/save.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont data-store [(ont-idx)]

Command Parameters

Table 92.8-1 "ONT Data Store Status 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	access identifier for the ont

Command Output

Table 92.8-2 "ONT Data Store Status Command" Display parameters

Specific Information

name	Type	Description
ont-status	Parameter type: <Gpon::OntDataStatus> (unknown | notsupported | reported) Possible values: - unknown : unknown (olt has not yet communicated with ont - notsupported : ont does not support data store feature - reported : dumpdate and dumptime reported by the ont	current status ont data save. *This element is always shown.*
last-dump-time	Parameter type: <Gpon::OntLastUpdateTime> - the time (yyyy-mm-dd:hour:minutes:secs) - unit: UTC	date of the last data dump/save. *This element is always shown.*

92.9 ONT Optics Status Command

Command Description

This command reports a summary of current optical power levels between the olt and a specific ont.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont optics [(ont-idx)]

Command Parameters

Table 92.9-1 "ONT Optics Status 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	access identifier for the ont

Command Output

Table 92.9-2 "ONT Optics Status Command" Display parameters

Specific Information

name	Type	Description
rx-signal-level	Parameter type: <Gpon::OntOpticalSignalLevel> (unknown | unsupported | <Gpon::OpticalSignalLevel>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OpticalSignalLevel> - ont receive / tranmit optical signal level - unit: dbm - range: [-65.536...65.538]	indicates the current measurement of the ont receive optical signal level in dBm . *This element is always shown.*
tx-signal-level	Parameter type: <Gpon::OntOpticalSignalLevel> (unknown | unsupported | <Gpon::OpticalSignalLevel>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OpticalSignalLevel> - ont receive / tranmit optical signal level - unit: dbm - range: [-65.536...65.538]	indicates the current measurement of the ont transmit optical signal level in dBm . *This element is always shown.*
ont-temperature	Parameter type: <Gpon::OntTemperature> (unknown | unsupported | <Gpon::OntTemperature>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OntTemperature> - temperature of ont optical module - unit: degree C - range: [-128...128.004]	indicates the current temperature of the optics module associated with this ont. *This element is always shown.*
ont-voltage	Parameter type: <Gpon::OntVoltage> (unknown | unsupported | <Gpon::OntVoltage>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OntVoltage> - power feed voltage of ont optical module - unit: Volts - range: [-655.36...655.38]	indicates the current voltage of the optics module associated with this ont. *This element is always shown.*
laser-bias-curr	Parameter type: <Gpon::OntLaserBias> (unknown | unsupported | <Gpon::LaserBias>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::LaserBias>	indicates the current bias current of the laser associated with this ont. *This element is always shown.*

name	Type	Description
	- indicates the bias current of the laser - unit: uA - range: [0...131074]	
olt-rx-sig-level	Parameter type: <Gpon::OntOltRxSignalLevel> (invalid | unsupported | <Gpon::OltRxSignalLevel>) Possible values: - invalid : valid measurement is currently unattainable for some reason - unsupported : measurement functionality is not supported Field type <Gpon::OltRxSignalLevel> - measurement of the ont receive optical signal level in dBm - unit: dbm - range: [-50...0,6553.4...6553.5]	indicates the current level of the ONT's optical signal(as measured at olt-side) *This element is always shown.*

92.10 ONT Optics History Status Command

Command Description

This command reports the history of optical power levels between the olt and a specific ont.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont optics-history [(ont-idx)]

Command Parameters

Table 92.10-1 "ONT Optics History Status 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	access identifier for the ont

Command Output

Table 92.10-2 "ONT Optics History Status Command" Display parameters

Specific Information

name	Type	Description
last-update-time	Parameter type: <Gpon::OntLastUpdateTime> - the time (yyyy-mm-dd:hour:minutes:secs) - unit: UTC	date of the last data dump/save. *This element is always shown.*
ont-rx-signal-level	Parameter type: <Gpon::OntOpticalSignalLevel> (unknown | unsupported | <Gpon::OpticalSignalLevel>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OpticalSignalLevel> - ont receive / tranmit optical signal level - unit: dbm - range: [-65.536...65.538]	indicates the daily measurement of the ont receive optical signal level in dBm . *This element is always shown.*
ont-tx-signal-level	Parameter type: <Gpon::OntOpticalSignalLevel> (unknown | unsupported | <Gpon::OpticalSignalLevel>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OpticalSignalLevel> - ont receive / tranmit optical signal level - unit: dbm - range: [-65.536...65.538]	indicates the daily measurement of the ont transmit optical signal level in dBm . *This element is always shown.*
ont-temperature	Parameter type: <Gpon::OntTemperature> (unknown | unsupported | <Gpon::OntTemperature>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OntTemperature> - temperature of ont optical module - unit: degree C - range: [-128...128.004]	indicates the daily temperature of the optics module associated with this ont. *This element is always shown.*
ont-voltage	Parameter type: <Gpon::OntVoltage> (unknown | unsupported | <Gpon::OntVoltage>) Possible values: - unknown : olt has not yet communicated with ont - unsupported : ont does not support the measurement of this attribute Field type <Gpon::OntVoltage> - power feed voltage of ont optical module - unit: Volts - range: [-655.36...655.38]	indicates the daily voltage of the optics module associated with this ont. *This element is always shown.*
ont-laser-bias-curr	Parameter type: <Gpon::OntLaserBias> (unknown | unsupported | <Gpon::LaserBias>) Possible values: - unknown : olt has not yet communicated with ont	indicates the daily bias current of the laser associated with this ont. *This element is always shown.*

name	Type	Description
	- unsupported : ont does not support the measurement of this attribute Field type <Gpon::LaserBias> - indicates the bias current of the laser - unit: uA - range: [0...131074]	
olt-rx-signal-level	Parameter type: <Gpon::OntOltRxSignalLevel> (invalid | unsupported | <Gpon::OltRxSignalLevel>) Possible values: - invalid : valid measurement is currently unattainable for some reason - unsupported : measurement functionality is not supported Field type <Gpon::OltRxSignalLevel> - measurement of the ont receive optical signal level in dBm - unit: dbm - range: [-50...0,6553.4...6553.5]	indicates the daily measurement of the ont receive optical signal level in dBm. *This element is always shown.*
olt-tx-signal-level	Parameter type: <Gpon::OntOltTxSignalLevel> (invalid | unsupported | <Gpon::OltTxSignalLevel>) Possible values: - invalid : valid measurement is currently unattainable for some reason - unsupported : measurement functionality is not supported Field type <Gpon::OltTxSignalLevel> - measurement of the ont transmit optical signal level in dBm - unit: dbm - range: [-30...30,6553.4...6553.5]	indicates the daily measurement of the ont transmit optical signal level in dBm. *This element is always shown.*
olt-temperature	Parameter type: <Gpon::OntOltTemp> (invalid | unsupported | <Gpon::OltTemp>) Possible values: - invalid : valid measurement is currently unattainable for some reason - unsupported : measurement functionality is not supported Field type <Gpon::OltTemp> - temperature of the optics module - unit: degree C - range: [-100...100,655.34...655.35]	Iindicates the daily temperature of the optics module associated with this pon. *This element is always shown.*
olt-voltage	Parameter type: <Gpon::OntOltPwrFeedVoltage> (invalid | unsupported | <Gpon::OntOltVoltage>) Possible values: - invalid : valid measurement is currently unattainable for some reason - unsupported : measurement functionality is not supported Field type <Gpon::OntOltVoltage> - temperature of the optics module - unit: Volts - range: [0...20,655.34...655.35]	indicates the daily voltage of the optics module associated with this pon. *This element is always shown.*
olt-laser-bias-curr	Parameter type: <Gpon::OntOltLaserBias> (invalid	indicates the daily bias current of the laser associated with this pon.

name	Type	Description
	| notsupported | <Gpon::OntOltLaserBias>) Possible values: - invalid : valid measurement is currently unattainable for some reason - notsupported : measurement functionality is not supported Field type <Gpon::OntOltLaserBias> - bias current of the laser - unit: mA - range: [0...500,65534...65535]	*This element is always shown.*

92.11 ONT Power Shedding Status Command

Command Description

This command shows the power shedding status information of an ont.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont pwr-shed [(ont-idx)]

Command Parameters

Table 92.11-1 "ONT Power Shedding Status 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	access identifier for the ont

Command Output

Table 92.11-2 "ONT Power Shedding Status Command" Display parameters

Specific Information

name	Type	Description
ont-status	Parameter type: <Gpon::OntPwrStatus> (unknown | notsupported | supported) Possible values: - unknown : unknown (olt has not yet communicated with ont - notsupported : ont does not support power shedding feature - supported : ont supports power shedding status feature and status is known	indication of power shedding status feature of the ont. *This element is always shown.*
data-class	Parameter type: <Gpon::DataClass> (not-in-effect | in-effect) Possible values: - not-in-effect : power shedding not in effect - in-effect : power shedding in effect	power shedding of data-class. *This element is always shown.*
voice-class	Parameter type: <Gpon::VoiceClass> (not-in-effect | in-effect) Possible values: - not-in-effect : power shedding not in effect - in-effect : power shedding in effect	power shedding of voice-class. *This element is always shown.*
video-class	Parameter type: <Gpon::VideoClass> (not-in-effect | in-effect) Possible values: - not-in-effect : power shedding not in effect - in-effect : power shedding in effect	power shedding of video-class. *This element is always shown.*
dsl-class	Parameter type: <Gpon::DslClass> (not-in-effect | in-effect) Possible values: - not-in-effect : power shedding not in effect - in-effect : power shedding in effect	power shedding of dsl-class. *This element is always shown.*
ces-class	Parameter type: <Gpon::CesClass> (not-in-effect | in-effect) Possible values: - not-in-effect : power shedding not in effect - in-effect : power shedding in effect	power shedding of ces-class. *This element is always shown.*

92.12 GPON ont Olt-side on-demand Aggregate gem Current-Interval Performance Monitoring Command

Command Description

This command retrieves OLT-side TC layer (GEM-based) current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont tc-layer olt-side-on-demand current-interval [(ont-idx)]

Command Parameters

Table 92.12-1 "GPON ont Olt-side on-demand Aggregate gem Current-Interval Performance Monitoring 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	identification of ont

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

Command Output

Table 92.12-2 "GPON ont Olt-side on-demand Aggregate gem Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
lost-frags-down	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments downstream *This element is always shown.*
lost-frags-up	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments upstream *This element is always shown.*
receive-frags	Parameter type: <Counter> - 32 bit counter	count of recieve gem fragments *This element is always shown.*
transmit-frags	Parameter type: <Counter> - 32 bit counter	count of transmitted gem fragments *This element is always shown.*
receive-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of recieve gem blocks *This element is always shown.*
transmit-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of transmitted gem blocks *This element is always shown.*

92.13 GPON ont Olt-side on-demand aggregate gem Previous-Interval Performance Monitoring Command

Command Description

This command retrieves OLT-side TC layer (GEM-based) previous interval performance monitoring data for the ONT.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont tc-layer olt-side-on-demand previous-interval [(ont-idx) [interval-num <Gpon::IntervalNo>]]

Command Parameters

Table 92.13-1 "GPON ont Olt-side on-demand aggregate gem Previous-Interval Performance Monitoring 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>	identification of ont

Resource Identifier	Type	Description
	- the ONT identifier Field type <Ng2::OntId> - the ONT identifier	
interval-num	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls,val 1 as the latest intvl

Command Output

Table 92.13-2 "GPON ont Olt-side on-demand aggregate gem Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
lost-frags-down	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments downstream *This element is always shown.*
lost-frags-up	Parameter type: <Counter> - 32 bit counter	count of lost gem Fragments upstream *This element is always shown.*
receive-frags	Parameter type: <Counter> - 32 bit counter	count of recieve gem fragments *This element is always shown.*
transmit-frags	Parameter type: <Counter> - 32 bit counter	count of transmitted gem fragments *This element is always shown.*
receive-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of recieve gem blocks *This element is always shown.*
transmit-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of transmitted gem blocks *This element is always shown.*

92.14 GPON ont Ont-side aggregate gem Current-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side TC layer (GEM-based) current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont tc-layer ont-side current-interval [(ont-idx)]

Command Parameters

Table 92.14-1 "GPON ont Ont-side aggregate gem Current-Interval Performance Monitoring 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	identification of ont

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

Command Output

Table 92.14-2 "GPON ont Ont-side aggregate gem Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
lost-frags-down	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments downstream *This element is always shown.*
lost-frags-up	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments upstream *This element is always shown.*
receive-frags	Parameter type: <Counter> - 32 bit counter	count of recieve gem fragments *This element is always shown.*
transmit-frags	Parameter type: <Counter> - 32 bit counter	count of transmitted gem fragments *This element is always shown.*
receive-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of recieve gem blocks *This element is always shown.*
transmit-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of transmitted gem blocks *This element is always shown.*
bad-headers	Parameter type: <Counter> - 32 bit counter	count of received gem headers that are bad *This element is always shown.*

92.15 GPON ont Ont-side Aggregate gem Previous-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side TC layer (GEM-based) previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont tc-layer ont-side previous-interval [(ont-idx) [interval-num <Gpon::IntervalNo>]]

Command Parameters

Table 92.15-1 "GPON ont Ont-side Aggregate gem Previous-Interval Performance Monitoring 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	identification of ont

Resource Identifier	Type	Description
	Field type <Ng2::OntId> - the ONT identifier	
interval-num	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls,val 1 as the latest intvl

Command Output

Table 92.15-2 "GPON ont Ont-side Aggregate gem Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
lost-frags-down	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments downstream *This element is always shown.*
lost-frags-up	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments upstream *This element is always shown.*
receive-frags	Parameter type: <Counter> - 32 bit counter	count of recieve gem fragments *This element is always shown.*
transmit-frags	Parameter type: <Counter> - 32 bit counter	count of transmitted gem fragments *This element is always shown.*
receive-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of recieve gem blocks *This element is always shown.*
transmit-blocks	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of transmitted gem blocks *This element is always shown.*
bad-headers	Parameter type: <Counter> - 32 bit counter	count of received gem headers that are bad *This element is always shown.*

92.16 GPON ont Olt-side Always-on Aggregate gem Current-Interval Performance Monitoring Command

Command Description

This command reports OLT-side TC layer (GEM-based) current interval performance monitoring data for errored fragments

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont tc-layer olt-side current-interval [(ont-idx)]

Command Parameters

Table 92.16-1 "GPON ont Olt-side Always-on Aggregate gem Current-Interval Performance Monitoring 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	identification of ont

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

Command Output

Table 92.16-2 "GPON ont Olt-side Always-on Aggregate gem Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
err-frags-up	Parameter type: <Counter> - 32 bit counter	a count of errored gem fragments (upstream) *This element is always shown.*

92.17 GPON Ont Olt-side Always-on Aggregate gem Previous-Interval Performance Monitoring Command

Command Description

This command reports command reports OLT-side TC layer (GEM-based)previous interval performance monitoring data for errored fragments for ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont tc-layer olt-side previous-interval [(ont-idx) [interval-num <Gpon::IntervalNo>]]

Command Parameters

Table 92.17-1 "GPON Ont Olt-side Always-on Aggregate gem Previous-Interval Performance Monitoring 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	identification of ont

Resource Identifier	Type	Description
	Field type <Ng2::OntId> - the ONT identifier	
interval-num	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls,val 1 as the latest intvl

Command Output

Table 92.17-2 "GPON Ont Olt-side Always-on Aggregate gem Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
err-frags-up	Parameter type: <Counter> - 32 bit counter	count of errored gem fragments (upstream) *This element is always shown.*

92.18 Multicast TC-layer Current Interval Performance Data Status Command

Command Description

This command displays various statistics collected for Multicast ONT TC-layer during the current 15 minute interval of operation.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont mcast-tc-layer ont-side current-interval [(ont-idx)]

Command Parameters

Table 92.18-1 "Multicast TC-layer Current Interval Performance Data Status 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

Command Output

Table 92.18-2 "Multicast TC-layer Current Interval Performance Data Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
lost-frags-dn	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments in downstream direction *This element is always shown.*
receive-frags	Parameter type: <Counter> - 32 bit counter	count of received gem fragments *This element is always shown.*
receive-blocks	Parameter type: <Counter> - 32 bit counter	count of received gem blocks *This element is always shown.*

92.19 Multicast TC-layer Previous Interval Performance Data Status Command

Command Description

This command displays various statistics collected for Multicast ONT TC-layer over the previous 8 hours of operations which is broken in to 32 completed 15 minute intervals.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont mcast-tc-layer ont-side previous-interval [(ont-idx) [interval-no <Gpon::IntervalNo>]]

Command Parameters

Table 92.19-1 "Multicast TC-layer Previous Interval Performance Data Status 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
interval-no	Parameter type: <Gpon::IntervalNo>	identifies prev 15min intvls,val 1

Resource Identifier	Type	Description
	Format: - a number of a previous interval number - range: [1...32]	as the latest intvl

Command Output

Table 92.19-2 "Multicast TC-layer Previous Interval Performance Data Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
lost-frags-dn	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments in downstream direction *This element is always shown.*
receive-frags	Parameter type: <Counter> - 32 bit counter	count of received gem fragments *This element is always shown.*
receive-blocks	Parameter type: <Counter> - 32 bit counter	count of received gem blocks *This element is always shown.*

92.20 Fec TC-layer Current Interval Counters Command

Command Description

This command displays various statistics collected for Fec ONT TC-layer during the current 15 minute interval of operation.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont fec-tc-layer ont-side current-interval [(ont-idx)]

Command Parameters

Table 92.20-1 "Fec TC-layer Current Interval Counters 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

Command Output

Table 92.20-2 "Fec TC-layer Current Interval Counters Command" Display parameters

Specific Information		
name	**Type**	**Description**
corrected-bytes	Parameter type: <Counter> - 32 bit counter	A count of number of bytes that were corrected by the FEC function *This element is always shown.*
corrected-code-words	Parameter type: <Counter> - 32 bit counter	A count of number of code words that were corrected by the FEC function. *This element is always shown.*
uncorrected-words	Parameter type: <Counter> - 32 bit counter	A count of number of errored code words that could not be corrected by the FEC function. *This element is always shown.*
total-code-words	Parameter type: <Counter> - 32 bit counter	A count of total number of received code words. *This element is always shown.*
fec-seconds	Parameter type: <Counter> - 32 bit counter	A count seconds during which there was a forward error correction anomaly. *This element is always shown.*

92.21 Olt-side FEC TC-layer Current Interval Counters Command

Command Description

This command displays various statistics collected for olt-side FEC ONT TC-layer during the current 15 minute interval of operation.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont fec-tc-layer olt-side current-interval [(ont-idx)]

Command Parameters

Table 92.21-1 "Olt-side FEC TC-layer Current Interval Counters 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

Command Output

Table 92.21-2 "Olt-side FEC TC-layer Current Interval Counters Command" Display parameters

Specific Information		
name	**Type**	**Description**
corrected-bytes	Parameter type: <Counter> - 32 bit counter	A count of number of bytes that were corrected by the FEC function *This element is always shown.*
corrected-code-words	Parameter type: <Counter> - 32 bit counter	A count of number of code words that were corrected by the FEC function. *This element is always shown.*
uncorrected-words	Parameter type: <Counter> - 32 bit counter	A count of number of errored code words that could not be corrected by the FEC function. *This element is always shown.*
total-code-words	Parameter type: <Counter> - 32 bit counter	A count of total number of received code words. *This element is always shown.*

92.22 ONT Software Control List Status Command

Command Description

This command shows an list of ONT associated with the given particular ont software control id. Index is mandatory parameter.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont sw-ctrl-list [(sw-ctrl-idx)]

Command Parameters

Table 92.22-1 "ONT Software Control List Status Command" Resource Parameters

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

Command Output

Table 92.22-2 "ONT Software Control List Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
ont	Parameter type: <Gpon::OntIndex> (<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>	aid of associated onts. *This element is always shown.*

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

92.23 GPON ont pon aggregate ethernet Current-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side ethernet current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont ethernet current-interval [(ont-idx)]

Command Parameters

Table 92.23-1 "GPON ont pon aggregate ethernet Current-Interval Performance Monitoring 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>	identification of ont

Resource Identifier	Type	Description
	- the ONT identifier	

Command Output

Table 92.23-2 "GPON ont pon aggregate ethernet Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
eth-errors-down	Parameter type: <Counter> - 32 bit counter	count of ethernet errors downstream *This element is always shown.*
eth-errors-up	Parameter type: <Counter> - 32 bit counter	count of ethernet errors uptream *This element is always shown.*
eth-frames-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	total count of ethernet packets downtream *This element is always shown.*
eth-frames-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	total count of ethernet packets uptream *This element is always shown.*
eth-bytes-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet bytes downtream *This element is always shown.*
eth-bytes-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet bytes uptream *This element is always shown.*
eth-unicast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet unicast downtream *This element is only shown in detail mode.*
eth-unicast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet unicast uptream *This element is only shown in detail mode.*
eth-multicast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet multicast downtream *This element is only shown in detail mode.*
eth-multicast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet multicast uptream *This element is only shown in detail mode.*
eth-broadcast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet broadcast downtream *This element is only shown in detail mode.*
eth-broadcast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet broadcast uptream *This element is only shown in detail mode.*
eth-rate-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet rate downtream *This element is always shown.*
eth-rate-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet rate uptream *This element is always shown.*

92.24 GPON ont pon Aggregate ethernet Previous-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side ethernet previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont ethernet previous-interval [(ont-idx) [interval-num <Gpon::IntervalNo>]]

Command Parameters

Table 92.24-1 "GPON ont pon Aggregate ethernet Previous-Interval Performance Monitoring 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>	identification of ont

Resource Identifier	Type	Description
	- the ONT identifier	
interval-num	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls,val 1 as the latest intvl

Command Output

Table 92.24-2 "GPON ont pon Aggregate ethernet Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
eth-errors-down	Parameter type: <Counter> - 32 bit counter	count of ethernet errors downstream *This element is always shown.*
eth-errors-up	Parameter type: <Counter> - 32 bit counter	count of ethernet errors upstream *This element is always shown.*
eth-frames-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	total count of ethernet packets downtream *This element is always shown.*
eth-frames-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	total count of ethernet packets uptream *This element is always shown.*
eth-bytes-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet bytes downtream *This element is always shown.*
eth-bytes-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet bytes uptream *This element is always shown.*
eth-unicast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet unicast downtream *This element is only shown in detail mode.*
eth-unicast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet unicast uptream *This element is only shown in detail mode.*
eth-multicast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet multicast downtream *This element is only shown in detail mode.*
eth-multicast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet multicast uptream *This element is only shown in detail mode.*
eth-broadcast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet broadcast downtream *This element is only shown in detail mode.*
eth-broadcast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet broadcast uptream *This element is only shown in detail mode.*
eth-rate-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet rate downtream *This element is always shown.*
eth-rate-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet rate uptream *This element is always shown.*

92.25 GPON ont pon aggregate ethernet total Performance Monitoring Command

Command Description

This command retrieves ONT-side ethernet total performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont ethernet total [(ont-idx)]

Command Parameters

Table 92.25-1 "GPON ont pon aggregate ethernet total Performance Monitoring 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	identification of ont

Command Output

Table 92.25-2 "GPON ont pon aggregate ethernet total Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
eth-frames-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	total count of ethernet packets downtream *This element is always shown.*
eth-frames-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	total count of ethernet packets uptream *This element is always shown.*
eth-bytes-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet bytes downtream *This element is always shown.*
eth-bytes-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet bytes uptream *This element is always shown.*
eth-unicast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet unicast downtream *This element is only shown in detail mode.*
eth-unicast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet unicast uptream *This element is only shown in detail mode.*
eth-multicast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet multicast downtream *This element is only shown in detail mode.*
eth-multicast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet multicast uptream *This element is only shown in detail mode.*
eth-broadcast-down	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet broadcast downtream *This element is only shown in detail mode.*
eth-broadcast-up	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of ethernet broadcast uptream *This element is only shown in detail mode.*

92.26 Olt-side Physical-layer Current Interval Counters Command

Command Description

This command displays various statistics collected at the ONT for olt-side physical-layer during the current 15 minute interval of operation.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont phy-layer olt-side current-interval [(ont-idx)]

Command Parameters

Table 92.26-1 "Olt-side Physical-layer Current Interval Counters 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

Command Output

Table 92.26-2 "Olt-side Physical-layer Current Interval Counters Command" Display parameters

Specific Information		
name	**Type**	**Description**
bip32-prot-words	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	A count of total number of BIP32 words on physical-layer *This element is always shown.*
bip32-bit-errors	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	A count of number of BIP32 errors on physical-layer *This element is always shown.*

92.27 XGPON ONT Ont-side tc-layer Current-Interval Performance Monitoring Command

Command Description

This command retrieves XGPON ONT-side TC layer (GEM-based) current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont xg-tc-layer ont-side current-interval [(ont-idx)]

Command Parameters

Table 92.27-1 "XGPON ONT Ont-side tc-layer Current-Interval Performance Monitoring 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	identification of ont

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

Command Output

Table 92.27-2 "XGPON ONT Ont-side tc-layer Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
hec-errs	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments downstream *This element is always shown.*
key-errs	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments upstream *This element is always shown.*
psb-hec	Parameter type: <Counter> - 32 bit counter	This attribute counts HEC errors in any of the fields of the downstream physical sync block. *This element is always shown.*
xh-tc	Parameter type: <Counter> - 32 bit counter	HEC errors detected in the XGTC header. *This element is always shown.*
unknow-prof	Parameter type: <Counter> - 32 bit counter	the number of grants received whose specified profile was not known to the ONU *This element is always shown.*
tr-xgem-frame	Parameter type: <Counter> - 32 bit counter	the number of non-idle XGEM frames transmitted *This element is always shown.*
frag-xgem-fram	Parameter type: <Counter> - 32 bit counter	counts the number of non-idle XGEM frames transmitted *This element is always shown.*
xgem-lostword	Parameter type: <Counter> - 32 bit counter	counts the number of non-idle XGEM frames transmitted *This element is always shown.*

92.28 XGPON ONT Ont-side tc-layer Previous-Interval Performance Monitoring Command

Command Description

This command retrieves XGPON ONT-side TC layer (GEM-based) previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont xg-tc-layer ont-side previous-interval [(ont-idx) [interval-no <Gpon::IntervalNo>]]

Command Parameters

Table 92.28-1 "XGPON ONT Ont-side tc-layer Previous-Interval Performance Monitoring 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	ont index

Resource Identifier	Type	Description
	Field type <Ng2::OntId> - the ONT identifier	
interval-no	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls,val 1 as the latest intvl

Command Output

Table 92.28-2 "XGPON ONT Ont-side tc-layer Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
hec-errs	Parameter type: <Counter> - 32 bit counter	count of hec errors *This element is always shown.*
key-errs	Parameter type: <Counter> - 32 bit counter	count of key errors *This element is always shown.*
psb-hec	Parameter type: <Counter> - 32 bit counter	This attribute counts HEC errors in any of the fields of the downstream physical sync block. *This element is always shown.*
xg-tc	Parameter type: <Counter> - 32 bit counter	This attribute counts HEC errors detected in the XGTC header . *This element is always shown.*
unknow-prof	Parameter type: <Counter> - 32 bit counter	This attribute counts the number of grants received whose specified profile was not known to the ONU. *This element is always shown.*
tr-xgem-frame	Parameter type: <Counter> - 32 bit counter	This attribute counts the number of non-idle XGEM frames transmitted. If an SDU is fragmented, each fragment is an XGEM frame and is counted as such. *This element is always shown.*
frag-xgem-fram	Parameter type: <Counter> - 32 bit counter	This attribute counts the number of XGEM frames that represent fragmented SDUs, as indicated by the LF bit =0. *This element is always shown.*
xgem-lostword	Parameter type: <Counter> - 32 bit counter	This attribute counts the number of four-byte words lost because of an XGEM frame HEC error. In general, all XGTC payload following the error is lost, until the next PSBd event. *This element is always shown.*

92.29 XGPON ONT Olt-side tc-layer Current-Interval Performance Monitoring Command

Command Description

This command retrieves XGPON OLT-side TC layer (GEM-based) current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont xg-tc-layer olt-side current-interval [(ont-idx)]

Command Parameters

Table 92.29-1 "XGPON ONT Olt-side tc-layer Current-Interval Performance Monitoring 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	identification of ont

Command Output

Table 92.29-2 "XGPON ONT Olt-side tc-layer Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
hec-errs	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments downstream *This element is always shown.*
key-errs	Parameter type: <Counter> - 32 bit counter	count of lost gem fragments upstream *This element is always shown.*
rng-time-msgs	Parameter type: <Counter> - 32 bit counter	count of recieve gem fragments *This element is always shown.*

92.30 XGPON ONT Olt-side tc-layer Previous-Interval Performance Monitoring Command

Command Description

This command retrieves XGPON OLT-side TC layer (GEM-based) previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont xg-tc-layer olt-side previous-interval [(ont-idx) [interval-no <Gpon::IntervalNo>]]

Command Parameters

Table 92.30-1 "XGPON ONT Olt-side tc-layer Previous-Interval Performance Monitoring 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	ont index

Resource Identifier	Type	Description
	Field type <Ng2::OntId> - the ONT identifier	
interval-no	Parameter type: <Gpon::IntervalNo> Format: - a number of a previous interval number - range: [1...32]	identifies prev 15min intvls,val 1 as the latest intvl

Command Output

Table 92.30-2 "XGPON ONT Olt-side tc-layer Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
hec-errs	Parameter type: <Counter> - 32 bit counter	count of hec errors *This element is always shown.*
key-errs	Parameter type: <Counter> - 32 bit counter	count of key errors *This element is always shown.*
rng-time-msgs	Parameter type: <Counter> - 32 bit counter	A count of number of ranging time messages that were sent for this ONT. *This element is always shown.*

92.31 ONT Utilization Current Interval PM Command

Command Description

This command retrieves ONT utilization current interval performance monitoring data.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont utilization current-interval [(ont-idx)]

Command Parameters

Table 92.31-1 "ONT Utilization Current Interval PM 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	identification of ONT

Command Output

Table 92.31-2 "ONT Utilization Current Interval PM Command" Display parameters

Specific Information		
name	**Type**	**Description**
txucfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast frames transmitted downstream on the PON or channel-pair for that ONT *This element is always shown.*
rxucfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast frames transmitted upstream on the PON or channel-pair for that ONT *This element is always shown.*
txucdropfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast frames dropped on the PON or channel-pair destined for that ONT *This element is always shown.*
rxucdropfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes dropped on the PON or channel-pair from that ONT *This element is always shown.*
txucbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes transmitted downstream on the PON or channel-pair for that ONT *This element is only shown in detail mode.*
rxucbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes transmitted upstream on the PON or channel-pair for that ONT *This element is only shown in detail mode.*
txucdropbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes dropped on the PON or channel-pair destined for that ONT *This element is only shown in detail mode.*
rxucdropbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes dropped on the PON or channel-pair from that ONT *This element is only shown in detail mode.*

92.32 ONT Utilization Previous Interval PM Command

Command Description

This command retrieves ONT utilization previous interval performance monitoring data.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont utilization previous-interval [(ont-idx) [interval-num <Gpon::FiveMinIntvlNo>]]

Command Parameters

Table 92.32-1 "ONT Utilization Previous Interval PM 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	identification of ONT
interval-num	Parameter type: <Gpon::FiveMinIntvlNo> Format: - a number of a previous five minute interval number	identifies prev five-min interval (1 is the most recent)

Resource Identifier	Type	Description
	- range: [1...288]	

Command Output

Table 92.32-2 "ONT Utilization Previous Interval PM Command" Display parameters

Specific Information		
name	**Type**	**Description**
txucfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast frames transmitted downstream on the PON or channel-pair for that ONT *This element is always shown.*
rxucfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast frames transmitted upstream on the PON or channel-pair for that ONT *This element is always shown.*
txucdropfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast frames dropped on the PON or channel-pair destined for that ONT *This element is always shown.*
rxucdropfrm	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes dropped on the PON or channel-pair from that ONT *This element is always shown.*
txucbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes transmitted downstream on the PON or channel-pair for that ONT *This element is only shown in detail mode.*
rxucbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes transmitted upstream on the PON or channel-pair for that ONT *This element is only shown in detail mode.*
txucdropbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes dropped on the PON or channel-pair destined for that ONT *This element is only shown in detail mode.*
rxucdropbyte	Parameter type: <OctetCounter64> - 64 bit counter,range:[0-9223372036854775808]	count of total unicast bytes dropped on the PON or channel-pair from that ONT *This element is only shown in detail mode.*

92.33 ONT Configure File Download Status Command

Command Description

This command shows individual ont fine-grain status associated with any configure file download activity.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont cfg-download [(ont-idx)]

Command Parameters

Table 92.33-1 "ONT Configure File Download Status 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	current operational parameters for the ont

Command Output

Table 92.33-2 "ONT Configure File Download Status Command" Display parameters

Specific Information		
name	**Type**	**Description**
planned	Parameter type: <Gpon::notPlnd> (no | yes) Possible values: - no : ont is planned - yes : ont is not planned	ont is not planned. *This element is always shown.*
inactive	Parameter type: <Gpon::inAct> (no | yes) Possible values: - no : ont is active - yes : ont is not active	ont is not active. *This element is only shown in detail mode.*
cfg1-planned-notok	Parameter type: <Gpon::cfgNokPlnd> (no | yes) Possible values: - no : planned configure file is active - yes : planned configure file is not active	planned configure file 1 did not equal to active. *This element is only shown in detail mode.*
cfg1-dld-notok	Parameter type: <Gpon::cfgNokDld> (no | yes) Possible values: - no : download configure file is in active or passive - yes : download configure file is not active or passive	download configure file 1 did not equal to active / passive. *This element is only shown in detail mode.*
cfg1-dld-inprogress	Parameter type: <Gpon::dldInProg> (no | yes) Possible values: - no : download not started - yes : download started	configure file 1 download activity in progress. *This element is always shown.*
cfg1-ntlt-inprogress	Parameter type: <Gpon::ntltInProg> (no | yes) Possible values: - no : ntlt file transfer not in progress - yes : ntlt file transfer in progress	configure file 1 ntlt file transfer in progress. *This element is always shown.*
cfg1-omci-inprogress	Parameter type: <Gpon::omciInProg> (no | yes) Possible values: - no : omci file transfer not in progress - yes : omci file transfer in progress	configure file 1 omci file transfer in progress. *This element is always shown.*
cfg1-flash-inprogress	Parameter type: <Gpon::ontFlashInProg> (no | yes) Possible values: - no : ont write not in progress - yes : ont flash in progress	configure file 1 ont flash in progress. *This element is only shown in detail mode.*
cfg1-act-inprogress	Parameter type: <Gpon::ontCfgActInProg> (no | yes) Possible values: - no : ont configure file activation not in progress - yes : ont configure file activation in progress	ont configure file 1 activation is progress. *This element is always shown.*

name	Type	Description
cfg1-ntlt-failure	Parameter type: <Gpon::ntltFailure> (no | yes) Possible values: - no : ntlt file transfer not failed - yes : ntlt file transfer failed	configure file 1 ntlt file transfer failure. *This element is only shown in detail mode.*
cfg1-omci-failure	Parameter type: <Gpon::omciFailure> (no | yes) Possible values: - no : omci file transfer not failed - yes : omci file transfer failed	configure file 1 omci file transfer failure. *This element is only shown in detail mode.*
cfg1-ontflash-failure	Parameter type: <Gpon::ontFlashFail> (no | yes) Possible values: - no : ont flash writing not failed - yes : ont flash writing failed	configure file 1 ont flash write failure. *This element is only shown in detail mode.*
ontcfg1act-failure	Parameter type: <Gpon::ontCfgActFail> (no | yes) Possible values: - no : ont configure file activate not failed - yes : ont configure file activate failed	ont configure file 1 activation failure. *This element is only shown in detail mode.*
dld-cfgfile1-notfound	Parameter type: <Gpon::noDldFile> (no | yes) Possible values: - no : download file found - yes : download file not found	download configure file 1 not found. *This element is only shown in detail mode.*
no-matching-cfgfile1	Parameter type: <Gpon::cfgNoMatch> (no | yes) Possible values: - no : configure file entry found in ctrl table - yes : configure file entry not found in table	entry match not found in sw ctrl table. *This element is only shown in detail mode.*
cfgfile1-mismatch	Parameter type: <Gpon::cfgFileMisMatch> (no | yes) Possible values: - no : configure file match - yes : configure file mismatch	configure file 1 mismatch. *This element is only shown in detail mode.*
cfgfile1-dld-failure	Parameter type: <Gpon::cfgDlFail> (no | yes) Possible values: - no : configure file download not failed - yes : configure file download failed	configure file 1 download failed. *This element is only shown in detail mode.*
cfgfile1-delayactivate	Parameter type: <Gpon::cfgDelayActivate> (no | yes) Possible values: - no : no delay activation pending - yes : delay activation pending	configure file 1 activation delayed. *This element is only shown in detail mode.*
cfgfile1-dld-pending	Parameter type: <Gpon::downloadPending> (no | yes)	configure file 1 download activity is pending. *This element is only shown in*

name	Type	Description
	Possible values: - no : no download activity pending - yes : download activity pending	*detail mode.*
cfg2-planned-notok	Parameter type: <Gpon::cfgNokPlnd> (no | yes) Possible values: - no : planned configure file is active - yes : planned configure file is not active	planned configure file 2 did not equal to active. *This element is only shown in detail mode.*
cfg2-dld-notok	Parameter type: <Gpon::cfgNokDld> (no | yes) Possible values: - no : download configure file is in active or passive - yes : download configure file is not active or passive	download configure file 2 did not equal to active / passive. *This element is only shown in detail mode.*
cfg2-dld-inprogress	Parameter type: <Gpon::dldInProg> (no | yes) Possible values: - no : download not started - yes : download started	configure file 2 download activity in progress. *This element is always shown.*
cfg2-ntlt-inprogress	Parameter type: <Gpon::ntltInProg> (no | yes) Possible values: - no : ntlt file transfer not in progress - yes : ntlt file transfer in progress	configure file 2 ntlt file transfer in progress. *This element is always shown.*
cfg2-omci-inprogress	Parameter type: <Gpon::omciInProg> (no | yes) Possible values: - no : omci file transfer not in progress - yes : omci file transfer in progress	configure file 2 omci file transfer in progress. *This element is always shown.*
cfg2-flash-inprogress	Parameter type: <Gpon::ontFlashInProg> (no | yes) Possible values: - no : ont write not in progress - yes : ont flash in progress	configure file 2 ont flash in progress. *This element is only shown in detail mode.*
cfg2-act-inprogress	Parameter type: <Gpon::ontCfgActInProg> (no | yes) Possible values: - no : ont configure file activation not in progress - yes : ont configure file activation in progress	ont configure file 2 activation is progress. *This element is always shown.*
cfg2-ntlt-failure	Parameter type: <Gpon::ntltFailure> (no | yes) Possible values: - no : ntlt file transfer not failed - yes : ntlt file transfer failed	configure file 2 ntlt file transfer failure. *This element is only shown in detail mode.*
cfg2-omci-failure	Parameter type: <Gpon::omciFailure> (no | yes) Possible values: - no : omci file transfer not failed - yes : omci file transfer failed	configure file 2 omci file transfer failure. *This element is only shown in detail mode.*

name	Type	Description
cfg2-ontflash-failure	Parameter type: <Gpon::ontFlashFail> (no | yes) Possible values: - no : ont flash writing not failed - yes : ont flash writing failed	configure file 2 ont flash write failure. *This element is only shown in detail mode.*
ontcfg2act-failure	Parameter type: <Gpon::ontCfgActFail> (no | yes) Possible values: - no : ont configure file activate not failed - yes : ont configure file activate failed	ont configure file 2 activation failure. *This element is only shown in detail mode.*
dld-cfgfile2-notfound	Parameter type: <Gpon::noDldFile> (no | yes) Possible values: - no : download file found - yes : download file not found	download configure file 2 not found. *This element is only shown in detail mode.*
no-matching-cfgfile2	Parameter type: <Gpon::cfgNoMatch> (no | yes) Possible values: - no : configure file entry found in ctrl table - yes : configure file entry not found in table	entry match not found in sw ctrl table. *This element is only shown in detail mode.*
cfgfile2-mismatch	Parameter type: <Gpon::cfgFileMisMatch> (no | yes) Possible values: - no : configure file match - yes : configure file mismatch	configure file 2 mismatch. *This element is only shown in detail mode.*
cfgfile2-dld-failure	Parameter type: <Gpon::cfgDlFail> (no | yes) Possible values: - no : configure file download not failed - yes : configure file download failed	configure file 2 download failed. *This element is only shown in detail mode.*
cfgfile2-delayactivate	Parameter type: <Gpon::cfgDelayActivate> (no | yes) Possible values: - no : no delay activation pending - yes : delay activation pending	configure file 2 activation delayed. *This element is only shown in detail mode.*
cfgfile2-dld-pending	Parameter type: <Gpon::downloadPending> (no | yes) Possible values: - no : no download activity pending - yes : download activity pending	configure file 2 download activity is pending. *This element is only shown in detail mode.*

92.34 ONT Configure File Download Status Command

Command Description

This command shows individual ngpon2 ont fine-grain status associated with any configure file download activity.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont ng2-cfg-download

92.35 ONT Config File Download Status Per Channel Group/Sub Channel Group Command

Command Description

show individual ont fine-grain status associated with any config file download activity.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont ng2-cfg-download channel-group [(channel-group) [subchannel-group <Ng2::SubchannelGroupId>] [ont-id <Ng2::OntNum>]]

Command Parameters

Table 92.35-1 "ONT Config File Download Status Per Channel Group/Sub Channel Group Command" Resource Parameters

Resource Identifier	Type	Description
(channel-group)	Format: <Ng2::ChannelGroup> Field type <Ng2::ChannelGroup> - channel group number	channel group id
subchannel-group	Parameter type: <Ng2::SubchannelGroupId> Format: - subchannel group number - range: [1...4]	subchannel group id
ont-id	Parameter type: <Ng2::OntNum> Format: - ont id in a subchannel group - range: [1...256]	ont id

Command Output

Table 92.35-2 "ONT Config File Download Status Per Channel Group/Sub Channel Group Command" Display parameters

Specific Information		
name	**Type**	**Description**
ont	Parameter type: <Gpon::OntIndex> (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId>	ont ifindex *This element is always shown.*

name	Type	Description
	| 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	
planned	Parameter type: <Gpon::notPlnd> (no | yes) Possible values: - no : ont is planned - yes : ont is not planned	ont is not planned. *This element is always shown.*
inactive	Parameter type: <Gpon::inAct> (no | yes) Possible values: - no : ont is active - yes : ont is not active	ont is not active. *This element is only shown in detail mode.*
cfg1-planned-notok	Parameter type: <Gpon::cfgNokPlnd> (no | yes) Possible values: - no : planned configure file is active - yes : planned configure file is not active	planned configure file 1 did not equal to active. *This element is only shown in detail mode.*
cfg1-dld-notok	Parameter type: <Gpon::cfgNokDld> (no | yes) Possible values: - no : download configure file is in active or passive - yes : download configure file is not active or passive	download configure file 1 did not equal to active / passive. *This element is only shown in detail mode.*
cfg1-dld-inprogress	Parameter type: <Gpon::dldInProg> (no | yes) Possible values: - no : download not started - yes : download started	configure file 1 download activity in progress. *This element is always shown.*
cfg1-ntlt-inprogress	Parameter type: <Gpon::ntltInProg> (no | yes) Possible values: - no : ntlt file transfer not in progress - yes : ntlt file transfer in progress	configure file 1 ntlt file transfer in progress. *This element is always shown.*
cfg1-omci-inprogress	Parameter type: <Gpon::omciInProg>	configure file 1 omci file transfer

name	Type	Description
	(no | yes) Possible values: - no : omci file transfer not in progress - yes : omci file transfer in progress	in progress. *This element is always shown.*
cfg1-flash-inprogress	Parameter type: <Gpon::ontFlashInProg> (no | yes) Possible values: - no : ont write not in progress - yes : ont flash in progress	configure file 1 ont flash in progress. *This element is only shown in detail mode.*
cfg1-act-inprogress	Parameter type: <Gpon::ontCfgActInProg> (no | yes) Possible values: - no : ont configure file activation not in progress - yes : ont configure file activation in progress	ont configure file 1 activation is progress. *This element is always shown.*
cfg1-ntlt-failure	Parameter type: <Gpon::ntltFailure> (no | yes) Possible values: - no : ntlt file transfer not failed - yes : ntlt file transfer failed	configure file 1 ntlt file transfer failure. *This element is only shown in detail mode.*
cfg1-omci-failure	Parameter type: <Gpon::omciFailure> (no | yes) Possible values: - no : omci file transfer not failed - yes : omci file transfer failed	configure file 1 omci file transfer failure. *This element is only shown in detail mode.*
cfg1-ontflash-failure	Parameter type: <Gpon::ontFlashFail> (no | yes) Possible values: - no : ont flash writing not failed - yes : ont flash writing failed	configure file 1 ont flash write failure. *This element is only shown in detail mode.*
ontcfg1act-failure	Parameter type: <Gpon::ontCfgActFail> (no | yes) Possible values: - no : ont configure file activate not failed - yes : ont configure file activate failed	ont configure file 1 activation failure. *This element is only shown in detail mode.*
dld-cfgfile1-notfound	Parameter type: <Gpon::noDldFile> (no | yes) Possible values: - no : download file found - yes : download file not found	download configure file 1 not found. *This element is only shown in detail mode.*
no-matching-cfgfile1	Parameter type: <Gpon::cfgNoMatch> (no | yes) Possible values: - no : configure file entry found in ctrl table - yes : configure file entry not found in table	entry match not found in sw ctrl table. *This element is only shown in detail mode.*
cfgfile1-mismatch	Parameter type: <Gpon::cfgFileMisMatch> (no | yes) Possible values:	configure file 1 mismatch. *This element is only shown in detail mode.*

name	Type	Description
	- no : configure file match - yes : configure file mismatch	
cfgfile1-dld-failure	Parameter type: <Gpon::cfgDlFail> (no | yes) Possible values: - no : configure file download not failed - yes : configure file download failed	configure file 1 download failed. *This element is only shown in detail mode.*
cfgfile1-delayactivate	Parameter type: <Gpon::cfgDelayActivate> (no | yes) Possible values: - no : no delay activation pending - yes : delay activation pending	configure file 1 activation delayed. *This element is only shown in detail mode.*
cfgfile1-dld-pending	Parameter type: <Gpon::downloadPending> (no | yes) Possible values: - no : no download activity pending - yes : download activity pending	configure file 1 download activity is pending. *This element is only shown in detail mode.*
cfg2-planned-notok	Parameter type: <Gpon::cfgNokPlnd> (no | yes) Possible values: - no : planned configure file is active - yes : planned configure file is not active	planned configure file 2 did not equal to active. *This element is only shown in detail mode.*
cfg2-dld-notok	Parameter type: <Gpon::cfgNokDld> (no | yes) Possible values: - no : download configure file is in active or passive - yes : download configure file is not active or passive	download configure file 2 did not equal to active / passive. *This element is only shown in detail mode.*
cfg2-dld-inprogress	Parameter type: <Gpon::dldInProg> (no | yes) Possible values: - no : download not started - yes : download started	configure file 2 download activity in progress. *This element is always shown.*
cfg2-ntlt-inprogress	Parameter type: <Gpon::ntltInProg> (no | yes) Possible values: - no : ntlt file transfer not in progress - yes : ntlt file transfer in progress	configure file 2 ntlt file transfer in progress. *This element is always shown.*
cfg2-omci-inprogress	Parameter type: <Gpon::omciInProg> (no | yes) Possible values: - no : omci file transfer not in progress - yes : omci file transfer in progress	configure file 2 omci file transfer in progress. *This element is always shown.*
cfg2-flash-inprogress	Parameter type: <Gpon::ontFlashInProg> (no | yes) Possible values: - no : ont write not in progress - yes : ont flash in progress	configure file 2 ont flash in progress. *This element is only shown in detail mode.*
cfg2-act-inprogress	Parameter type: <Gpon::ontCfgActInProg>	ont configure file 2 activation is

name	Type	Description
	(no | yes) Possible values: - no : ont configure file activation not in progress - yes : ont configure file activation in progress	progress. *This element is always shown.*
cfg2-ntlt-failure	Parameter type: <Gpon::ntltFailure> (no | yes) Possible values: - no : ntlt file transfer not failed - yes : ntlt file transfer failed	configure file 2 ntlt file transfer failure. *This element is only shown in detail mode.*
cfg2-omci-failure	Parameter type: <Gpon::omciFailure> (no | yes) Possible values: - no : omci file transfer not failed - yes : omci file transfer failed	configure file 2 omci file transfer failure. *This element is only shown in detail mode.*
cfg2-ontflash-failure	Parameter type: <Gpon::ontFlashFail> (no | yes) Possible values: - no : ont flash writing not failed - yes : ont flash writing failed	configure file 2 ont flash write failure. *This element is only shown in detail mode.*
ontcfg2act-failure	Parameter type: <Gpon::ontCfgActFail> (no | yes) Possible values: - no : ont configure file activate not failed - yes : ont configure file activate failed	ont configure file 2 activation failure. *This element is only shown in detail mode.*
dld-cfgfile2-notfound	Parameter type: <Gpon::noDldFile> (no | yes) Possible values: - no : download file found - yes : download file not found	download configure file 2 not found. *This element is only shown in detail mode.*
no-matching-cfgfile2	Parameter type: <Gpon::cfgNoMatch> (no | yes) Possible values: - no : configure file entry found in ctrl table - yes : configure file entry not found in table	entry match not found in sw ctrl table. *This element is only shown in detail mode.*
cfgfile2-mismatch	Parameter type: <Gpon::cfgFileMisMatch> (no | yes) Possible values: - no : configure file match - yes : configure file mismatch	configure file 2 mismatch. *This element is only shown in detail mode.*
cfgfile2-dld-failure	Parameter type: <Gpon::cfgDlFail> (no | yes) Possible values: - no : configure file download not failed - yes : configure file download failed	configure file 2 download failed. *This element is only shown in detail mode.*
cfgfile2-delayactivate	Parameter type: <Gpon::cfgDelayActivate> (no | yes) Possible values:	configure file 2 activation delayed. *This element is only shown in detail mode.*

name	Type	Description
	- no : no delay activation pending - yes : delay activation pending	
cfgfile2-dld-pending	Parameter type: <Gpon::downloadPending> (no | yes) Possible values: - no : no download activity pending - yes : download activity pending	configure file 2 download activity is pending. *This element is only shown in detail mode.*

92.36 ONT Index Lookup Command

Command Description

This command is to look for ONT AID based on the given search string.

Usage: show equipment ont index {search mode : search string}

search mode is the type of search string, only support "sn" at current

search string is used to look for ONT AID, only support serial number at current

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont index [(ont-search-string)]

Command Parameters

Table 92.36-1 "ONT Index Lookup Command" Resource Parameters

Resource Identifier	Type	Description
(ont-search-string)	Format: sn : <Gpon::VendorId> : <Gpon::SerialNo> Possible values: - sn : search ONT AID by SN 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	gpon ont search string:search mode and search string

Command Output

Table 92.36-2 "ONT Index Lookup Command" Display parameters

Specific Information		
name	**Type**	**Description**
ont-idx	Parameter type: <Gpon::OntIndex> (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> | ng2 : <Ng2::ChannelGroup> / <Ng2::SubchannelGroup> / <Ng2::OntId>)	identification of ont *This element is always shown.*

name	Type	Description
	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	

92.37 ONT Gis Info Command

Command Description

This command reports the GIS info of the ONT.

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont gis [(ont-idx)]

Command Parameters

Table 92.37-1 "ONT Gis Info 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	access identifier for the ont

Command Output

Table 92.37-2 "ONT Gis Info Command" Display parameters

Specific Information

name	Type	Description
longitude	Parameter type: <Gpon::OltLongitude> - longitude of the GIS info - unit: degree - range: [-180.00000...180.00000]	indicates the gis longitude of the ont. *This element is always shown.*
latitude	Parameter type: <Gpon::OltLatitude> - latitude of the GIS info - unit: degree - range: [-90.00000...90.00000]	indicates the gis latitude of the ont. *This element is always shown.*
elevation	Parameter type: <Gpon::OltElevation> - latitude of the GIS info - unit: meter - range: [-32768...32767]	indicates the gis latitude of the ont. *This element is always shown.*
horizontal-error	Parameter type: <Gpon::OltHrzErr> - horizontal error of the GIS info - unit: meter - range: [0...65535]	indicates the gis horizontal error of the ont. *This element is always shown.*
altitude-error	Parameter type: <Gpon::OltAltErr> - altitude error of the GIS info - unit: meter - range: [0...65535]	indicates the gis altitude error of the ont. *This element is always shown.*
area-code	Parameter type: <Gpon::OltAreaCode> - altitude error of the GIS info - 12 Decimal charaters - length: 12	indicates the gis area code of the ont. *This element is always shown.*
timestamp	Parameter type: <Gpon::OltTimestamp> - the seconds eclapsed since 1970-01-01:00:00:00 - unit: Seconds - range: [0...4294967295]	indicates the gis timestamp of the ont. *This element is always shown.*
gis-digest	Parameter type: <Gpon::OltGisDigest> - digest of the GIS info - 16 hex characters - length: 16	indicates the gis digest of the ont. *This element is always shown.*

92.38 XGPON ONT Olt-side Performance Monitoring Command

Command Description

This command retrieves XGPON ont-side current-interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont xg-mgmt ont-side current-interval [(ont-idx)]

Command Parameters

Table 92.38-1 "XGPON ONT Olt-side Performance Monitoring 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

Command Output

Table 92.38-2 "XGPON ONT Olt-side Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
ploammic-errmsgs	Parameter type: <Counter> - 32 bit counter	Count of MIC errors detected in downstream PLOAM messages *This element is only shown in detail mode.*
downsploam-msgs	Parameter type: <Counter> - 32 bit counter	count of received gem fragments *This element is always shown.*
profrece-msgs	Parameter type: <Counter> - 32 bit counter	count of received gem blocks *This element is always shown.*
rangtime-recemsgs	Parameter type: <Counter> - 32 bit counter	Count of downstream ranging_time messages received *This element is only shown in detail mode.*
deactonuid-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream deactivate_ONU-ID messages received *This element is only shown in detail mode.*
disablesn-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream disable_serial_number messages received *This element is only shown in detail mode.*
req-registration	Parameter type: <Counter> - 32 bit counter	Count of downstream request_registration messages received *This element is only shown in detail mode.*
allocid-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream assign_alloc-ID messages received *This element is only shown in detail mode.*
keycontrol-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream key_control messages received *This element is only shown in detail mode.*
sleepallow-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream sleep_allow messages received *This element is only shown in detail mode.*
baseomci-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream baseline messages received *This element is only shown in detail mode.*
extendomci-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream extended messages received *This element is only shown in detail mode.*
assonuid-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream assign_ONU-ID messages received *This element is only shown in detail mode.*
omcimic-errmsgs	Parameter type: <Counter>	Count of MIC errors detected in

name	Type	Description
	- 32 bit counter	downstream OMCI messages *This element is only shown in detail mode.*
usploam-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream PLOAM messages transmitted, excluding acknowledge messages *This element is always shown.*
serinumonu-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream Serial_number_ONU PLOAM messages transmitted *This element is always shown.*
registr-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream registration PLOAM messages transmitted *This element is always shown.*
keyreport-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream key_report PLOAM messages transmitted *This element is always shown.*
acknow-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream acknowledge PLOAM messages transmitted *This element is only shown in detail mode.*
sleepreq-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream sleep_request PLOAM messages transmitted *This element is only shown in detail mode.*

92.39 XGPON ONT Previous-Interval Performance Monitoring Command

Command Description

This command retrieves XGPON ONT previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont xg-mgmt ont-side previous-interval [(ont-idx) [interval-no <Gpon::IntervalNo>]]

Command Parameters

Table 92.39-1 "XGPON ONT Previous-Interval Performance Monitoring 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
interval-no	Parameter type: <Gpon::IntervalNo> Format:	identifies prev 15min intvls,val 1 as the latest intvl

Resource Identifier	Type	Description
	- a number of a previous interval number - range: [1...32]	

Command Output

Table 92.39-2 "XGPON ONT Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
ploammic-errmsgs	Parameter type: <Counter> - 32 bit counter	Count of MIC errors detected in downstream PLOAM messages *This element is only shown in detail mode.*
downsploam-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream PLOAM messages *This element is always shown.*
profrece-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream profile messages received *This element is always shown.*
rangtime-recemsgs	Parameter type: <Counter> - 32 bit counter	Count of downstream ranging_time messages received *This element is only shown in detail mode.*
deactonuid-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream deactivate_ONU-ID messages received *This element is only shown in detail mode.*
disablesn-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream disable_serial_number messages received *This element is only shown in detail mode.*
req-registration	Parameter type: <Counter> - 32 bit counter	Count of downstream request_registration messages received *This element is only shown in detail mode.*
allocid-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream assign_alloc-ID messages received *This element is only shown in detail mode.*
keycontrol-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream key_control messages received *This element is only shown in detail mode.*
sleepallow-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream sleep_allow messages received *This element is only shown in detail mode.*
baseomci-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream baseline messages received *This element is only shown in detail mode.*
extendomci-msgs	Parameter type: <Counter>	Count of downstream extended

name	Type	Description
	- 32 bit counter	messages received *This element is only shown in detail mode.*
assonuid-msgs	Parameter type: <Counter> - 32 bit counter	Count of downstream assign_ONU-ID messages received *This element is only shown in detail mode.*
omcimic-errmsgs	Parameter type: <Counter> - 32 bit counter	Count of MIC errors detected in downstream OMCI messages *This element is only shown in detail mode.*
usploam-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream PLOAM messages transmitted, excluding acknowledge messages *This element is always shown.*
serinumonu-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream Serial_number_ONU PLOAM messages transmitted *This element is always shown.*
registr-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream registration PLOAM messages transmitted *This element is always shown.*
keyreport-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream key_report PLOAM messages transmitted *This element is always shown.*
acknow-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream acknowledge PLOAM messages transmitted *This element is only shown in detail mode.*
sleepreq-msgs	Parameter type: <Counter> - 32 bit counter	Count of upstream sleep_request PLOAM messages transmitted *This element is only shown in detail mode.*

92.40 GPON ONT Memory Usage Current-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side memory usage current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont memory-usage current-interval [(ont-idx)]

Command Parameters

Table 92.40-1 "GPON ONT Memory Usage Current-Interval Performance Monitoring 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	identification of ont

Command Output

Table 92.40-2 "GPON ONT Memory Usage Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
total(kbytes)	Parameter type: <Gpon::OntMemory> (unknown | <Gpon::OntMemory>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntMemory> - ont memory usage - range: [0...4294967295]	the size of the total memory on this ONT *This element is always shown.*
used(kbytes)	Parameter type: <Gpon::OntMemory> (unknown | <Gpon::OntMemory>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntMemory> - ont memory usage - range: [0...4294967295]	the size of the memory actually in use *This element is always shown.*
used-portion(%)	Parameter type: <Gpon::OntMemoryUsage> (unknown | <Gpon::OntMemoryUsage>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntMemoryUsage> - the size of the memory actually in use, expressed as a portion of the total memory - range: [0...4294967295]	the size of the memory actually in use, expressed as a portion of the total memory *This element is always shown.*

92.41 GPON ONT Memory Usage Previous-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side memory usage previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont memory-usage previous-interval [(ont-idx) [interval-num <Gpon::DayIntervalNo>]]

Command Parameters

Table 92.41-1 "GPON ONT Memory Usage Previous-Interval Performance Monitoring 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	identification of ont
interval-num	Parameter type: <Gpon::DayIntervalNo> Format:	identifies prev 24-hour intvls,val 1 as the latest intvl

Resource Identifier	Type	Description
	- a number of a previous interval number - range: [1...7]	

Command Output

Table 92.41-2 "GPON ONT Memory Usage Previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
total(kbytes)	Parameter type: <Gpon::OntMemory> (unknown | <Gpon::OntMemory>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntMemory> - ont memory usage - range: [0...4294967295]	the size of the total memory on this ONT *This element is always shown.*
used(kbytes)	Parameter type: <Gpon::OntMemory> (unknown | <Gpon::OntMemory>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntMemory> - ont memory usage - range: [0...4294967295]	the size of the memory actually in use *This element is always shown.*
used-portion(%)	Parameter type: <Gpon::OntMemoryUsage> (unknown | <Gpon::OntMemoryUsage>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntMemoryUsage> - the size of the memory actually in use, expressed as a portion of the total memory - range: [0...4294967295]	the size of the memory actually in use, expressed as a portion of the total memory *This element is always shown.*

92.42 GPON ONT CPU Load Current-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side cpu load current interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont cpu-load current-interval [(ont-idx)]

Command Parameters

Table 92.42-1 "GPON ONT CPU Load Current-Interval Performance Monitoring 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	identification of ont

Command Output

Table 92.42-2 "GPON ONT CPU Load Current-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
average(%)	Parameter type: <Gpon::OntCPULoad> (unknown | <Gpon::OntCPULoad>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntCPULoad> - cpu load average of ont during a 15-min interval, expressed as a percentage - range: [0...4294967295]	average CPU load for the measurement period , expressed in percentage *This element is always shown.*

92.43 GPON ONT CPU Load previous-Interval Performance Monitoring Command

Command Description

This command retrieves ONT-side cpu load previous interval performance monitoring data for the ONT

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

> show equipment ont cpu-load previous-interval [(ont-idx) [interval-num <Gpon::IntervalNo>]]

Command Parameters

Table 92.43-1 "GPON ONT CPU Load previous-Interval Performance Monitoring 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	identification of ont
interval-num	Parameter type: <Gpon::IntervalNo> Format:	identifies prev 15-minute intvls,val 1 as the latest intvl

Resource Identifier	Type	Description
	- a number of a previous interval number - range: [1...32]	

Command Output

Table 92.43-2 "GPON ONT CPU Load previous-Interval Performance Monitoring Command" Display parameters

Specific Information		
name	**Type**	**Description**
average(%)	Parameter type: <Gpon::OntCPULoad> (unknown | <Gpon::OntCPULoad>) Possible values: - unknown : olt has not yet communicated with ont or ont doesn't support Field type <Gpon::OntCPULoad> - cpu load average of ont during a 15-min interval, expressed as a percentage - range: [0...4294967295]	average CPU load for the measurement period , expressed in percentage *This element is always shown.*