

95- ONT Status Commands

95.1 ONT Status Command Tree	95-2142
95.2 GPON ONT Status Command	95-2143
95.3 GPON ONT Status Command	95-2146
95.4 GPON ONT Status Command	95-2149
95.5 NGPON ONT Status Command	95-2152

95.1 ONT Status Command Tree

Description

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

Command Tree

```
----show
  ----equipment
    ----ont
      ----status
        ----pon
          - (pon)
          - ont
        ----x-pon
          - (x-pon)
          - ont
      ----twenty-five-g
        - (twenty-five-g)
        - ont
      ----channel-pair
        - (chanpair)
        - ont
```

95.2 GPON ONT Status Command

Command Description

This command reports a summary of ont parameters under a given pon

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> show equipment ont status pon [ (pon) [ ont <Gpon::OntIndex> ] ]
```

Command Parameters

Table 95.2-1 "GPON ONT Status Command" Resource Parameters

Resource Identifier	Type	Description
(pon)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PonId> - the PON identifier	access identifier for the pon
ont	Parameter type: <Gpon::OntIndex> 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	identification of ont

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

Command Output

Table 95.2-2 "GPON ONT Status Command" Display parameters

Specific Information		
name	Type	Description
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 <i>This element is always shown.</i>
admin-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies admin state of the interface. <i>This element is always shown.</i>
oper-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies oper state of the interface. <i>This element is always shown.</i>
olt-rx-sig-level(dbm)	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) <i>This element is always shown.</i>
ont-olt-distance(km)	Parameter type: <Gpon::OntOltDist> (invalid not-supported	estimate of the distance between this ont and the olt. <i>This element is always shown.</i>

name	Type	Description
	<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]	
desc1	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
desc2	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
hostname	Parameter type: <Gpon::HostName> (undefined unknown <Gpon::hostname>) Possible values: - undefined : DHCP is unavailable or ONT returns null string - unknown : OLT could not communicate with ONT for discovery Field type <Gpon::hostname> - host name address - length: x<=255	the host name <i>This element is always shown.</i>

95.3 GPON ONT Status Command

Command Description

This command reports a summary of ont parameters under a given x-pon

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> show equipment ont status x-pon [ (x-pon) [ ont <Gpon::OntIndex> ] ]
```

Command Parameters

Table 95.3-1 "GPON ONT Status Command" Resource Parameters

Resource Identifier	Type	Description
(x-pon)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::XPonId> 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::XPonId> - the XGS PON identifier	access identifier for the pon
ont	Parameter type: <Gpon::OntIndex> 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	identification of ont

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

Command Output

Table 95.3-2 "GPON ONT Status Command" Display parameters

Specific Information		
name	Type	Description
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 <i>This element is always shown.</i>
admin-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies admin state of the interface. <i>This element is always shown.</i>
oper-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies oper state of the interface. <i>This element is always shown.</i>
olt-rx-sig-level(dbm)	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) <i>This element is always shown.</i>
ont-olt-distance(km)	Parameter type: <Gpon::OntOltDist> (invalid not-supported	estimate of the distance between this ont and the olt. <i>This element is always shown.</i>

95 ONT Status Commands

name	Type	Description
	<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]	
desc1	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
desc2	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
hostname	Parameter type: <Gpon::HostName> (undefined unknown <Gpon::hostname>) Possible values: - undefined : DHCP is unavailable or ONT returns null string - unknown : OLT could not communicate with ONT for discovery Field type <Gpon::hostname> - host name address - length: x<=255	the host name <i>This element is always shown.</i>

95.4 GPON ONT Status Command

Command Description

This command reports a summary of ont parameters under a given 25g-pon

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> show equipment ont status twenty-five-g [ (twenty-five-g) [ ont <Gpon::OntIndex> ] ]
```

Command Parameters

Table 95.4-1 "GPON ONT Status Command" Resource Parameters

Resource Identifier	Type	Description
(twenty-five-g)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::M25GPonId> 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::M25GPonId> - the 25G PON identifier	access identifier for the pon
ont	Parameter type: <Gpon::OntIndex> 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	identification of ont

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

Command Output

Table 95.4-2 "GPON ONT Status Command" Display parameters

Specific Information		
name	Type	Description
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 <i>This element is always shown.</i>
admin-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies admin state of the interface. <i>This element is always shown.</i>
oper-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies oper state of the interface. <i>This element is always shown.</i>
olt-rx-sig-level(dbm)	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) <i>This element is always shown.</i>
ont-olt-distance(km)	Parameter type: <Gpon::OntOltDist> (invalid not-supported	estimate of the distance between this ont and the olt. <i>This element is always shown.</i>

name	Type	Description
	<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]	
desc1	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
desc2	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
hostname	Parameter type: <Gpon::HostName> (undefined unknown <Gpon::hostname>) Possible values: - undefined : DHCP is unavailable or ONT returns null string - unknown : OLT could not communicate with ONT for discovery Field type <Gpon::hostname> - host name address - length: x<=255	the host name <i>This element is always shown.</i>

95.5 NGPON ONT Status Command

Command Description

This command reports a summary of ont parameters under a given channel pair

User Level

The command can be accessed by operators with equipment privileges.

Command Syntax

The command has the following syntax:

```
> show equipment ont status channel-pair [ (chanpair) [ ont <Gpon::OntIndex> ] ]
```

Command Parameters

Table 95.5-1 "NGPON ONT Status Command" Resource Parameters

Resource Identifier	Type	Description
(chanpair)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::ChannelPairId> Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::ChannelPairId> - the channel pair identifier	access identifier for the channel pair
ont	Parameter type: <Gpon::OntIndex> 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	identification of ont

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

Command Output

Table 95.5-2 "NGPON ONT Status Command" Display parameters

Specific Information		
name	Type	Description
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 <i>This element is always shown.</i>
admin-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies admin state of the interface. <i>This element is always shown.</i>
oper-status	Parameter type: <Itf::ifAdminStatus> (not-appl up down testing) Possible values: - not-appl : not-applicable - up : admin status is up - down : admin status is down - testing : no operational packets can be passed	Specifies oper state of the interface. <i>This element is always shown.</i>
olt-rx-sig-level(dbm)	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) <i>This element is always shown.</i>
ont-olt-distance(km)	Parameter type: <Gpon::OntOltDist> (invalid not-supported	estimate of the distance between this ont and the olt. <i>This element is always shown.</i>

name	Type	Description
	<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]	
desc1	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
desc2	Parameter type: <Gpon::Desc> - desc - length: x<=64	free-form textual field for user to describe the ONT <i>This element is always shown.</i>
hostname	Parameter type: <Gpon::HostName> (undefined unknown <Gpon::hostname>) Possible values: - undefined : DHCP is unavailable or ONT returns null string - unknown : OLT could not communicate with ONT for discovery Field type <Gpon::hostname> - host name address - length: x<=255	the host name <i>This element is always shown.</i>
ranging-status	Parameter type: <Ng2::OntRangedStatusChanPair> (pref-ranged pref-not-ranged pref-not-ranged-ready pref-not-rng-not-ready prot-ranged prot-not-ranged-ready prot-not-rng-not-ready ranged-parked altpref-ranged altpref-not-ranged-rdy altprf-not-rng-not-rdy) Possible values: - pref-ranged : Channel-pair is preferred and ONT is ranged on it - pref-not-ranged : Channel-pair is preferred and ONT is NOT ranged on it, no protection - pref-not-ranged-ready : Channel-pair is preferred and ONT is NOT ranged on it, ready - pref-not-rng-not-ready: Channel-pair is preferred and ONT is NOT ranged on it, not ready - prot-ranged : Channel-pair is protection and ONT is ranged on it - prot-not-ranged-ready : Channel-pair is protection and ONT is NOT ranged on it, ready - prot-not-rng-not-ready: Channel-pair is protection and ONT is NOT ranged on it, not ready - ranged-parked : Channel-pair is NOT preferred, NOT protection and NOT alternative preferred and ONT is ranged	ont ranging status <i>This element is always shown.</i>

name	Type	Description
	on it, parked - altpref-ranged : Channel-pair is alternative preferred and ONT is ranged on it - altpref-not-ranged-rdy: Channel-pair is alternative preferred and ONT is NOT ranged on it, ready - altprf-not-rng-not-rdy: Channel-pair is alternative preferred and ONT is NOT ranged on it, not ready	