User Manual for GL5610-16P

V4.2
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1 PON Function Configuration

1.1 PON Management Function Configuration

- ont-find
- ont-find list-age
- show ont-find config
- show ont-find List
- show dba-map

1.1.1 ont-find

This command is used to enable ONT discovery function. The ONT will be discovered every polling interval. The polling interval can be configured. If not, the polling interval will be set to the default value. The default polling interval is 10 seconds. This function is disabled by default.

```
ont-find [interval-time <interval_time>] interface gpon {<interface_list>| all }
```

```
no ont-find interface gpon {<interface_list>| all }
```

【Parameter Specification】

- interval_time: Polling interval in seconds, in the range of 3 to 30 seconds
- interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports are separated by commas, such as: 0/1-0/5,0/8
- all: All GPON ports
【Usage】

Global configuration mode

【Example】

Enable ONT discovery on GPON port 0/1 and set the polling interval to 5 seconds

GPON (config) # ont-find interval-time 5 interface gpon 0/1

1.1.2 ont-find list-age

This command is used to enable aging function of the ONT discovery list. You can configure the aging time for the ONT discovery list at the same time. If not, the aging time will be set to the default value. The default aging time is 300 seconds. This function is disabled by default. ONT discovery list is used to record the ONT's SN that has been reported to, but not certified by the OLT. When an ONT in the list passes the authentication, the system deletes its SN from the list.

ont-find list-age [time <aging_time>] Interface gpon {<interface_list> | all}

no ont-find list-age interface gpon {<interface_list> | all}

【Parameter Specification】

Aging_time: ONT aging time in the discovery list, in the range of <1-86400>

Interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports are separated by commas, such as: 0 / 1-0 / 5,0 / 8

All: All GPON ports

【Usage】

Global configuration mode
【Example】

Enable the ONT discovery list aging function on GPON port 0/1 and set the aging time to 500 seconds.

GPON (config) # ont-find list-age time 500 interface gpon 0/1

1.1.3 show ont-find config

This command is used to check the configuration of the ONT discovery function: discovery function on/off status, discovery polling interval, discovery list aging function on/off status and discovery list aging time.

show ont-find Config interface gpon {<interface_list> | all}

【Parameter Specification】

Interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Continuous ports can be connected with a minus sign, with non-contiguous ports separated by commas, such as: 0 / 1-0 / 5,0 / 8

All: Specifies all GPON ports

【Usage】

All modes

【Example】

Check the ONT discovery configuration of GPON port 0/1

GPON (config) # show ont-find Config interface gpon 0/1

<table>
<thead>
<tr>
<th>Port</th>
<th>Find</th>
<th>Find-interval</th>
<th>Age</th>
<th>Aging-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0 / 1</td>
<td>enable</td>
<td>300</td>
<td>disable</td>
<td>-</td>
</tr>
</tbody>
</table>
1.1.4 show ont-find list

This command is used to check the details of the ONT discovery list on the OLT.

```
show ont-find list {interface gpon {<interface_list> | all} | sn {string-hex <sn_num> | hex <sn_num>}}
```

Show ont-find list interface gpon <interface_num> index <index_num>

【Parameter Specification】

Interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, where slot_num is the slot number, and port_num is the port number in the slot. Continuous ports can be connected with a minus sign, with non-contiguous ports separated by commas, such as: 0 / 1-0 / 5, 0 / 8

All: Specifies all GPON ports

Interface_num: GPON port number. The port number is represented as slot_num / port_num, where slot_num is the slot number, and port_num is the port number in the slot

Index_num: ONT discovery list index, in the range of 0-255

sn_num: the physical identification of the ONT. There are two formats:

- string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number, use the "" matches the corresponding bit of all characters or hexadecimal numbers;

- hex format: STRING <16-16>, all the bits are in hexadecimal number, use the "" matches the corresponding bit of all characters or hexadecimal numbers

【Usage】

All modes

【Example】
Check the ONT discovery list on GPON port 0/1

GPON (config) #show ont-find list interface gpon 0/1

<table>
<thead>
<tr>
<th>Port</th>
<th>Index</th>
<th>SN</th>
<th>Last-find</th>
<th>Find-cnt</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0 / 1</td>
<td>0</td>
<td>GCOM-13079998</td>
<td>2001-04-14 23:54:52</td>
<td>1</td>
</tr>
</tbody>
</table>

Total entries: 1.

1.1.5 show dba-map

This command is used to check the upstream bandwidth allocation of the specified GPON port.

show dba-map interface gpon <interface_num>

【Parameter Specification】

Interface_num: GPON port number. The port number is represented as slot_num / port_num, slot_num is the slot number, port_num is the port number in the slot

【Usage】

All modes

【Example】

Display the uplink bandwidth usage of PON port 0/1

GPON(config)#show dba-map interface gpon 0/1

<table>
<thead>
<tr>
<th>ONT</th>
<th>T-CONT</th>
<th>DBA-index</th>
<th>Fixed</th>
<th>Assured</th>
<th>Max</th>
<th>Assign</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10240 Y</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
<td>512</td>
<td>0</td>
<td>0 Y</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>1024</td>
<td>0 Y</td>
<td></td>
</tr>
</tbody>
</table>
1.2 PON Switching Function Configuration

- pon-switch

- show pon-switch

1.2.1 pon-switch

This command is used to enable the PON switching function between the ONTs under the same GPON port or different GPON port. All the ONTs under the PON port cannot communicate with each other by system default. The PON switching function is realized based on VLAN and it makes the ONTs under the GPON port can communicate with each other in a specified VLAN.

pon-switch

no pon-switch

【Parameter Specification】

no
【Usage】

VLAN configuration mode

【Example】

Enable the PON switching function under vlan 100

GPON(config)#vlan 100

GPON(config-if-vlan)#pon-switch

Config vlan pon-switch successfully.

1.2.2 show pon-switch

This command is used to check the configuration of PON switching function.

show pon-switch

【Parameter Specification】

no

【Usage】

All modes

【Example】

Check the PON switching function configuration

GPON(config)#show pon-switch

[PON-SWITCH]

vlan 1-100

pon-switch
2 Service Deployment Configuration

2.1 Service Deployment Configuration Management

- deploy profile vlan
- deploy profile us-traffic
- deploy profile ds-traffic
- deploy profile dba
- deploy profile line
- deploy profile unique
- deploy profile rule
- aim
- delete
- exit
- active
- show deploy

2.1.1 deploy profile vlan

This command is used to enter the configuration mode of the vlan profile.

```
deploy profile vlan
```

【Parameter Specification】

no
【Usage】

Global configuration mode

【Example】

Enter the vlan profile configuration mode

GPON (config) #deploy profile vlan

GPON (deploy-profile-vlan) #

2.1.2 deploy profile us-traffic

This command is used to enter the configuration mode of the upstream traffic profile.

deploy profile us-traffic

【Parameter Specification】

no

【Usage】

Global configuration mode

【Example】

Enter the upstream traffic profile configuration mode

GPON (config) #deploy profile us-traffic

GPON (deploy-profile-us-traffic) #

2.1.3 deploy profile ds-traffic

This command is used to enter the configuration mode of the downstream traffic profile.

deploy profile ds-traffic
2.1.4 deploy profile dba

This command is used to enter the DBA profile configuration mode.

`deploy profile dba`

2.1.5 deploy profile line
This command is used to enter the service profile configuration mode.

```
deploy profile line
```

**Parameter Specification**

no

**Usage**

Global configuration mode

**Example**

Enter service profile configuration mode

GPON (config) #deploy profile line

GPON (deploy-profile-line) #

### 2.1.6 deploy profile unique

This command is used to enter the special function profile configuration mode.

```
deploy profile unique
```

**Parameter Specification**

no

**Usage**

Global configuration mode

**Example**

Enter the special function profile configuration mode

GPON (config) #deploy profile unique
2.1.7 deploy profile rule

This command is used to enter the rule profile configuration mode.

`deploy profile rule`

【Parameter Specification】

no

【Usage】

Global configuration mode

【Example】

Enter the rule profile configuration mode

GPON (config) #deploy profile rule

GPON (deploy-profile-rule) #

2.1.8 aim

This command is used to enter into the configuration mode of profile entry. The index and name of this entry will be given at the same time entering this mode. For the rule and unique profile, the entry should be configured based on ONT ID.

`aim { <index_num> [ name <name> ] | name <name> }

aim <ont_id> [ name <name> ]`

【Parameter Specification】

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT
name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT

【Usage】

The related profile configuration mode

【Example】

Create a vlan profile entry, the index is 100 and the name is Internet

GPON (deploy-profile-vlan) #aim 100 name Internet

GPON (deploy-profile-vlan-100) #

2.1.9 delete

This command deletes one or more specified profile entries. For the rule and unique profile, the entry should be deleted based on ONT ID.

delete aim { <index_list> | name <name> }

delete aim { <ont_id_list> | name <name> }

【Parameter Specification】

index_list: entry index number combination, representing multiple entries. The range of individual index numbers ranges from <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10
【Usage】

The related profile configuration mode

【Example】

Delete the line profile entries with indexes between 101 and 200

GPON (deploy-profile-line) #delete aim 101-200

2.1.10 exit

This command is used to exit the service deployment profile and the profile entry configuration mode, and return to the upper level command line mode.

exit

【Parameter Specification】

no

【Usage】

The related profile or profile entry configuration mode

【Example】

Exit the vlan profile configuration mode and return to the global configuration mode

GPON (deploy-profile-vlan) #exit

GPON (config) #

2.1.11 active

This command is used to enable service deployment configuration. After creating a service profile entry, we need to use this command to make the configuration take into effect. If exiting the profile entry configuration mode without activating the profile, the configuration will be
cleared.

active

【Parameter Specification】

no

【Usage】

Global configuration mode

【Example】

Enable the inactive area service deployment configuration

GPON(deploy-profile-vlan-0)# active

GPON(deploy-profile-vlan-0)#aim 100

GPON(deploy-profile-vlan-100)#exit

Please active this profile before exit, or the latest configuration will lost. Are you sure to continue(y/n)?[n]

2.1.12 show deploy

This command displays the service deployment configuration in the active area.

show deploy vlan brief { <index_list> | all }

show deploy vlan { <index_num> | name <name> }

show deploy us-traffic brief { <index_list> | all }

show deploy us-traffic { <index_num> | name <name> }

show deploy ds-traffic brief { <index_list> | all }

show deploy ds-traffic { <index_num> | name <name> }
show deploy dba brief { <index_list> | all }

show deploy dba { <index_num> | name <name> }

show deploy line brief { <index_list> | all }

show deploy line { <index_num> | name <name> }

show deploy rule brief { <ont_id_list> | all }

show deploy rule { <ont_id> | name <name> }

show deploy unique brief { <ont_id_list> | all }

show deploy unique { <ont_id> | name <name> }

【Parameter Specification】

index_list: entry index number combination, representing multiple entries. The range of individual index numbers ranges from <0-(M-1)>, M is the maximum ONTs supported by the OLT

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

all: Specifies all profile entries

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONTs index assigned by the OLT

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10

【Usage】

All modes
【Example】

Check the brief information of the vlan profile in the active area

GPON(config)# show deploy vlan brief all

Index : 0
Name  : c100s2
Referenced by line : -
Referenced by unique : -

---------------------------------------------------------------------------

Index : 1
Name  : fghij
Referenced by line : -
Referenced by unique : -

---------------------------------------------------------------------------

Total entries: 2.

Check the detail information of the vlan profile in the active area

GPON(config)# show deploy vlan 0

aim 0 name abcd
translate old-vlan 100 1 new-vlan 200 3

Check the brief information of the us-traffic profile in the active area

GPON(config)# show deploy us-traffic brief all

Index: 0
Name : abcde
Mode: queue

Referenced by line: -
Referenced by unique: -

---------------------------------------------------------------------------

Index: 1
Name : fghij
Mode: car

Referenced by line: -
Referenced by unique: -

---------------------------------------------------------------------------

Check the detail information of the us-traffic profile in the active area

GPON(config)# show deploy us-traffic 0

aim 0 name abcde
us queue 1

Check the brief information of the ds-traffic profile in the active area

GPON(config)# show deploy ds-traffic brief all

Index: 0
Name : abcde

Referenced by line: -
Referenced by unique: -
Check the detail information of the ds-traffic profile in the active area

GPON(config)# show deploy ds-traffic 0

aim 0 name abcde
ds car bandwidth 10000

Check the brief information of the DBA profile in the active area

GPON(config)# show deploy dba brief all

Index: 0
Name:abcde
Type: 1
Referenced by Line: -

Index: 1
ame:fghij
Type: 2
Referenced by Line: -
Total entries: 2.

Check the detail information of the DBA profile in the active area

GPON(config)# show deploy dba 0

aim 0 name abcde
type 1 fix 10240

Check the brief information of the line profile in the active area

GPON(config)# show deploy line brief all

Index: 0
name:abcde
Device type:n20-100
Referenced by Rule: -

Index: 1
name:fghij
Device type: n20-400
Referenced by Rule: -

Total entries: 2.

Check the detail information of the line profile in the active area

GPON(config)# show deploy line 0
aim 0 name abcde

device type n20-100

tcont 1 profile dba index 1

gemport traffic-mode queue

gemport 1 tcont 1

gemport 2 tcont 1

gemport 3 tcont 1

mapping mode port-vlan-priority

mapping 1 vlan 1 priority 0 port eth 1 gemport 1

mapping 2 vlan 100 priority 0 port eth 1 gemport 2

mapping 3 vlan 200 priority 0 port eth 1 gemport 3

flow 1 port eth 1 default vlan 1 0

flow 2 port eth 1 cvlan 100 0 keep

multicast us-tag add 200 0 port 1

multicast ds-tag remove port 1

Check the brief information of the rule profile in the active area

GPON(config)# show deploy rule brief all

ONT : 0/1/1

Name:abcde

Reference Line: 0

------------------------------------------------------------------------------------------------------------------------------------------
ONT : 0/1/2

Name:fghij

Reference Line: -

---------------------------------------------------------------------------

Check the detail information of the rule profile in the active area

GPON(config)# show deploy rule 0/1/1

aim 0/1/1 name abcde

permit sn string-hex GPON-12345678 line 1 default line 1

Check the brief information of the unique profile in the active area

GPON(config)# show deploy unique brief all

ONT: 0/1/1

Name:abcde

---------------------------------------------------------------------------

ONT: 0/1/2

Name:fghij

---------------------------------------------------------------------------

ONT: 0/1/3

Name:aswq

---------------------------------------------------------------------------

Total entries: 3.

Check the detail information of the unique profile in the active area
GPON(config)# show deploy unique 0/1/1

aim 0/1/1 name abcde

gemport 1 vlan-profile 1 us-traffic-profile 1 ds-traffic-profile 1

sip proxy server primary ip 192.168.2.100 signal port 6666

sip user 1 name admin password 123456 telno 10000

2.2 VLAN Profile Configuration

- translate
- add
- default

Note: Each vlan profile entry can configure more than one translation or add rules, but the old vlan or the inner vlan should be different. The default vlan rule is used in the service scene needs vlan transparent based on the GEM Port. Each vlan profile entry can only configure one default vlan rule and other rules cannot be configured in this entry.

2.2.1 translate

This command is used to configure the translation rule of the ONT service vlan. The vlan profile should be quoted in the line profile or unique profile. After quoted, the OLT will translate the old service vlan of the ONT’s upstream to a new vlan.

    translate old-vlan <vid> [ <priority> ] new-vlan <vid> [ <priority> ]

【Parameter Specification】

vid: VLAN ID, in the range of <1-4094>

priority: 802.1P priority, in the range of <0-7>
【Usage】

vlan profile entry configuration mode

【Example】

Config an vlan profile entry

GPON (deploy-profile-vlan-1) # translate old-vlan 100 1 new-vlan 200 3

2.2.2 add

This command is used to configure the addition rule of the ONT service vlan. The vlan profile should be quoted in the line profile or unique profile. After quoted, the OLT will add an outer service vlan to the ONT’s upstream.

add inner-vlan <vid> [ <priority> ] outer-vlan <vid> [ <priority> ]

【Parameter Specification】

vid: VLAN ID, in the range of <1-4094>

priority: 802.1P priority, in the range of <0-7>

【Usage】

vlan profile entry configuration mode

【Example】

Config an vlan profile entry

GPON (deploy-profile-vlan-1) # add inner-vlan 100 1 outer-vlan 200 3

2.2.3 default

This command is used to configure the default addition rule of the ONT service vlan. The vlan profile should be quoted in the line profile or unique profile. After quoted, the OLT will
check the ONT's upstream. If the upstream is untagged or with priority tag, the OLT will add a default vlan to it; else the OLT will try to compare the tag with other vlan rules.

```
default vlan <vid> [ <priority> ]
```

【Parameter Specification】

vid: VLAN ID, in the range of <1-4094>

priority: 802.1P priority, in the range of <0-7>

【Usage】

```
vlan profile entry configuration mode
```

【Example】

Config an vlan profile entry

```
GPON (deploy-profile-vlan-1) # default vlan 200 3
```

2.3 Us-traffic Profile Configuration

- us

2.3.1 us

This command is used to configure the QoS parameters of the ONT upstream based on the GEM Port. The QoS of the ONT upstream based on the GEM Port has two mode: Queue scheduling and CAR scheduling.

In the Queue scheduling mode, the OLT will give each GEM Port a queue priority, and the GEM Ports in the same T-CONT will transmit the upstream traffic according to their queue priority. The higher priority the GEM Port has, the more bandwidth can be got.

In the CAR scheduling mode, the OLT will distribute an upstream bandwidth for each GEM Port, and the GEM Ports in the same T-CONT will transmit the upstream traffic according to the
bandwidth map configured by the OLT.

```
us { queue <queue_id> | car cir <cir> cbs <cbs> pir <pir> pbs <pbs> }
```

【Parameter Specification】

queue_id: the GEM Port queue id. This parameter ranges from \(<0-7\rangle\), 0 is the lowest priority and 7 is the highest priority.

cir: guaranteed bandwidth. The unit is kbps, and must be divisible by 64

cbs: guaranteed bandwidth burst. The unit is KB

pir: peak bandwidth. The unit is kbps, and must be divisible by 64. The peak bandwidth should be more than the guaranteed bandwidth

pbs: peak bandwidth burst. The unit is KB

【Usage】

Us-traffic profile entry configuration mode

【Example】

Config an us-traffic profile entry

```
GPON (deploy-profile-vlan-1) # us queue 1
```

2.4 Ds-traffic Profile Configuration

- ds

2.4.1 ds

This command is used to configure the QoS parameters of the ONT downstream based on the GEM Port. The QoS of the ONT downstream based on the GEM Port just supports CAR scheduling.
In the CAR scheduling mode, the OLT will distribute an downstream bandwidth for each GEM Port, and the GEM Ports will transmit the downstream traffic according to the bandwidth map configured by the OLT.

\[ \text{ds car bandwidth} \ < \text{bandwidth} \]

【Parameter Specification】

bandwidth: the downstream bandwidth. The unit is kbps

【Usage】

ds-traffic profile entry configuration mode

【Example】

Config an ds-traffic profile entry

GPON (deploy-profile-vlan-1) # ds car bandwidth 10000

2.5 DBA Profile Configuration

• type

2.5.1 type

This command is used to configure the DBA profile. There are five types: type 1, type 2, type 3, type 4, and type 5.

\[ \text{type 1 fix} \ < \text{fixed_bandwidth} > \]

\[ \text{type 2 assured} \ < \text{assured_bandwidth} > \]

\[ \text{type 3 assured} \ < \text{assured_bandwidth} > \text{ max} \ < \text{not_assured_bandwidth} > \]

\[ \text{type 4 max} \ < \text{best_effort_bandwidth} > \]

\[ \text{type 5 fix} \ < \text{fixed_bandwidth} > \text{ assured} \ < \text{assured_bandwidth} > \text{ max} \ < \text{not_assured_bandwidth} > \]
ndwidth>

【Parameter Specification】

fixed_bandwidth: fixed bandwidth, the unit is kbps, and must be divisible by 64, in the range of <256-800000>. The sum of the ONTs’ fixed bandwidth and assured bandwidth under the same PON port can not exceed 1.25Gbps

assured_bandwidth: assured bandwidth, the unit is kbps, and must be divisible by 64, in the range of <0-800000>. The sum of the ONTs' fixed bandwidth and assured bandwidth under the same PON port can not exceed 1.25Gbps

not_assured_bandwidth: non-assured bandwidth, the unit is kbps, and must be divisible by 64, in the range of <256-1200000>. Non-assured bandwidth must be more than or equal to the sum of the fixed bandwidth and assured bandwidth.

best_effort_bandwidth: best-effort bandwidth, the unit is kbps, and must be divisible by 64, in the range of <256-1200000>. Best-effort bandwidth must be more than or equal to the sum of the fixed bandwidth and assured bandwidth.

【Usage】

DBA profile entry configuration mode

【Example】

Config a DBA profile entry

GPON (deploy-profile-dba-30) #type 1 fix 4096

2.6 Multicast Profile Configuration

- multicast program

2.6.1 multicast program
This command is used to configure the controllable multicast groups.

```
multicast program index <index> permit mcast-ip <ip> [ source-ip <ip> | vlan <vid> | bandwidth <bandwidth> ]
```

```
multicast program index <index> permit mcast-ip <ip> [ source-ip <ip> | vlan <vid> | bandwidth <bandwidth> ] port <port_id>
```

```
multicast program index <index> preview mcast-ip <ip> [ source-ip <ip> | vlan <vid> | bandwidth <bandwidth> | duration <duration-time> | interval <interval-time> | times <preview-times> | reset-time <time> ]
```

```
multicast program index <index> preview mcast-ip <ip> [ source-ip <ip> | vlan <vid> | bandwidth <bandwidth> | duration <duration-time> | interval <interval-time> | times <preview-time> | reset-time <time> ] port <port_id>
```

【Parameter Specification】

- **index**: the index of controllable multicast entry
- **port_id**: ONT ethernet port number, in the range of <1-24>
- **ip**: multicast IP address or multicast source IP address
- **vid**: VLAN ID, in the range of <1-4094>
- **bandwidth**: the bandwidth of multicast traffic
- **duration-time**: the time preview once
- **interval-time**: the time preview between two times
- **preview-times**: the total times preview
- **time**: the reset time for the preview

【Usage】

Multicast profile entry configuration mode
【Example】

Config a controllable multicast group in the multicast profile entry

GPON(deploy-profile-multicast-0)#multicast program index 0 permit mcast-ip 2
24.1.1.1 224.1.1.1 vlan 10 port 1

2.7 Line Profile Configuration

- device type
- tcont
- gemport
- mapping
- flow
- multicast mode
- multicast group-limit
- multicast us-tag
- multicast ds-tag
- multicast program
- multicast fast-leave disable
- local mac-address-table max-mac-count
- local shutdown
- local flow-control
- local bandwidth egress
2.7.1 device type

This command is used to configure the ONT’s device type. When ONT registers on the OLT, it will report its device type to the OLT and then OLT will send the configuration to the ONT according to this device type.

```
device type <name>
```

【Parameter Specification】

name: ONT device type name.

【Usage】

Line profile entry configuration mode

【Example】

Config a device type in the line profile entry

```
GPON (deploy-profile-line-1) #device type n20-100
```

2.7.2 tcont

This command is used to create a T-CONT and assign a DBA profile to this T-CONT. T-CONT is a physical resource in the GPON system. All the upstreams of the ONT should be collected into the T-CONT before transmitted to the OLT and the DBA profile determines the size of the T-CONT, that is to say, the bandwidth of the upstream.

```
tcont <tcont_id> profile dba { <index_num> | name <name> }

no tcont <tcont_id>
```
【Parameter Specification】

tcont_id: the index of T-CONT. In the range of <1-24>

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

【Usage】

Line profile or unique profile entry configuration mode

【Example】

Config a T-CONT in the line profile entry

GPON (deploy-profile-line-1) #tcont 1 profile dba index 1

2.7.3 gemport

This command is used to create a GEM Port and configure the related attributes.

gemport traffic-mode { car | queue }

gemport <gem_index> tcont <tcont_id> [ vlan-profile { <index_num> | name <name> } ] [ us-traffic-profile { <index_num> | name <name> } ] [ ds-traffic-profile { <index_num> | name <name> } ]

no gemport <gem_index>

【Parameter Specification】

gem_index: the index of GEM Port. In the range of <1-1024>

tcont_id: the index of T-CONT. In the range of <1-24>

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs
supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

【Usage】

Line profile entry configuration mode

【Example】

Config a GEM Port in the line profile entry

GPON (deploy-profile-line-1) # gemport traffic-mode queue

GPON (deploy-profile-line-1) # gemport 1 tcont 1 vlan-profile 1 us-traffic-profile 1 ds-traffic-profile 1

2.7.4 mapping

This command is used to configure the GEM Port mapping rule. The rule includes: Port, VLAN ID, 802.1P priority, Port + VLAN ID, Port + 802.1P priority, VLAN ID + 802.1P priority and Port + VLAN ID + 802.1P priority

mapping mode {port | port-priority | port-vlan | port-vlan-priority | priority | vlan | vlan-priority }

mapping <index_num> { vlan <vid> | priority <priority> | port { eth <port_id> | veip | iphost } } gemport <gem_index>

no mapping <index_num>

【Parameter Specification】

index_num: the index of the mapping rule, in the range of <0-47>

vid: VLAN ID, in the range of <1-4094>
priority: 802.1P priority, in the range of <0-7>

eth: ONT ethernet port

veip: ONT routing ports, namely WAN interface

iphost: ONT voice interface

port_id: ONT ethernet port number, in the range of <1-24>

gem_index: the index of GEM Port. In the range of <1-24>

【Usage】

Line profile entry configuration mode

【Example】

Config a mapping rule in the line profile entry

GPON (deploy-profile-line-1) # mapping mode vlan

GPON (deploy-profile-line-1) # mapping 1 vlan 100 gemport 1

2.7.5 flow

This command is used to configure the vlan processing strategy of the ONT LAN interface: transparent, trunk, tag, translation or aggregation.

```
flow <flow_id> port { eth <port_id> | veip | iphost } [ etype { ipoe | pppoe | arp } ]
transparent

flow <flow_id> port { eth <port_id> | veip | iphost } [ etype { ipoe | pppoe | arp } ]
default vlan <vid> [ <priority> ]

flow <flow_id> port { eth <port_id> | veip | iphost } [ etype { ipoe | pppoe | arp } ]
vlan <vid> [ <priority> ] keep

flow <flow_id> port { eth <port_id> | veip | iphost } [ etype { ipoe | pppoe | arp } ]
```
vlan <vid> [ <priority> ] translate vlan <vid> [ <priority> ]

flow <flow_id> port { eth <port_id> | veip | iphost } [ etype { ipoe | pppoe | arp } ]
_vlan <vid> [ <priority> ] add vlan <vid> [ <priority> ]

no flow <flow_id>

【Parameter Specification】

flow_id: the index of vlan processing strategy, in the range of <0-63>

eth: ONT ethernet port

veip: ONT routing ports, namely WAN interface

iphost: ONT voice interface

port_id: ONT ethernet port number, in the range of <1-24>

ipoe: ethernet type is 0x0800

pppoe: ethernet type is 0x8863 or 0x8864

arp: ethernet type is 0x0806

vid: VLAN ID, in the range of <1-4094>

priority: 802.1P priority, in the range of <0-7>

【Usage】

Line profile entry configuration mode

【Example】

Config a vlan processing strategy in the line profile entry

GPON (deploy-profile-line-1) # flow 1 port 1 default vlan 100 7

2.7.6 multicast mode
This command is used to configure the ONT multicast working mode: igmp-snooping mode or controllable multicast mode

```
multicast mode { igmp-snooping | olt-control } [ port <port_id> ]
```

```
no multicast mode [ port <port_id> ]
```

【Parameter Specification】

port_id: ONT ethernet port number, in the range of <1-24>

【Usage】

Line profile entry configuration mode

【Example】

Config the multicast working mode in the line profile entry

GPON (deploy-profile-line-1) #multicast mode olt-control

### 2.7.7 multicast group-limit

This command is used to configure the maximum multicast groups learned by the ONT.

```
multicast group-limit <num> [ port <port_id> ]
```

```
no multicast group-limit [ port <port_id> ]
```

【Parameter Specification】

num: Maximum number of multicast groups, ranging from <1-128>

port_id: ONT ethernet port number, in the range of <1-24>

【Usage】

Line profile entry configuration mode

【Example】
Config the maximum multicast groups in the line profile entry

GPON (deploy-profile-line-1) #igmp group-limit 10 1

2.7.8 multicast us-tag

This command is used to configure the upstream multicast vlan processing strategy: add, translate.

multicast us-tag add <vid> [ <priority> ]
multicast us-tag translate <vid> [ <priority> ]
multicast us-tag add <vid> [ <priority> ] port <port_id>
multicast us-tag translate <vid> [ <priority> ] port <port_id>

no multicast us-tag

no multicast us-tag port <port_id>

【Parameter Specification】

vid: VLAN ID, in the range of <1-4094>
priority: 802.1P priority, in the range of <0-7>
port_id: ONT ethernet port number, in the range of <1-24>

【Usage】

Line profile entry configuration mode

【Example】

Config the upstream multicast vlan processing strategy in the line profile entry

GPON (deploy-profile-line-1) #multicast us-tag add 10 port 1
2.7.9 multicast ds-tag

This command is used to configure the downstream multicast vlan processing strategy: remove, add or translate.

`multicast ds-tag remove`

`multicast ds-tag add <vid> [ <priority> ]`

`multicast ds-tag translate <vid> [ <priority> ]`

`multicast ds-tag remove port <port_id>`

`multicast ds-tag add <vid> [ <priority> ] port <port_id>`

`multicast ds-tag translate <vid> [ <priority> ] port <port_id>`

`no multicast ds-tag`

`no multicast ds-tag port <port_id>`

【Parameter Specification】

vid: VLAN ID, in the range of 1-4094

priority: 802.1P priority, in the range of 0-7

port_id: ONT ethernet port number, in the range of 1-24

【Usage】

Line profile entry configuration mode

【Example】

Config the downstream multicast vlan processing strategy in the line profile entry

GPON (deploy-profile-line-1) #multicast ds-tag add 10 port 1
2.7.10 multicast profile

This command is used to configure the controllable multicast groups.

```
multicast profile refer { <index_num> | name <name> }
```

```
no multicast profile refer
```

【Parameter Specification】

- `index_num`: the index of the profile entry, the range is <0-127>,
- `name`: the name of the profile entry, combined with a string, and the range of the length is <1-128>

【Usage】

Line profile entry configuration mode

【Example】

Config a controllable multicast group in the line profile entry

```
GPON(deploy-profile-line-0)#multicast mode olt-control
```

```
GPON(deploy-profile-line-0)#multicast profile refer 0
```

2.7.11 multicast fast-leave disable

This command is used to disable the multicast group fast leave function of the ONT.

```
multicast fast-leave disable [ port <port_id> ]
```

```
no multicast fast-leave disable [ port <port_id> ]
```

【Parameter Specification】

- `port_id`: ONT ethernet port number, in the range of <1-24>
【Usage】

Line profile entry configuration mode

【Example】

Config a controllable multicast group in the line profile entry

GPON (deploy-profile-line-1) # multicast fast-leave disable port 1

2.7.12 local mac-address-table max-mac-count

This command is used to configure the maximum MAC addresses learned by the ONT.

local mac-address-table max-mac-count <num> [ port <port_id> ]

no local mac-address-table max-mac-count [ port <port_id> ]

【Parameter Specification】

num: Maximum number of dynamic MAC address, ranging from 1-255

port_id: ONT ethernet port number, in the range of 1-24

【Usage】

Line profile entry configuration mode

【Example】

Config the maximum number of MAC address in the line profile entry

GPON (deploy-profile-line-1) # local mac-address-table max-mac-count 10 port 1

2.7.13 local flow-control

This command is used to enable the flow control function of ONT Ethernet port.

local flow-control port <port_id>
no local flow-control port <port_id>

【Parameter Specification】

port_id: ONT ethernet port number, in the range of <1-24>

【Usage】

Line profile entry configuration mode

【Example】

Enable the flow control function of ONT Ethernet port in the line profile entry

GPON (deploy-profile-line-1) # local flow-control port 1

2.7.14 local bandwidth egress

This command is used to enable the outbound rate limit function of ONT Ethernet port .

local bandwidth egress port <port_id> <bandwidth>

no local bandwidth egress port <port_id> <bandwidth>

【Parameter Specification】

port_id: ONT ethernet port number, in the range of <1-24>

bandwidth: outbound bandwidth, the unit is kbps, in the range of < 64-1024000>

【Usage】

Line profile entry configuration mode

【Example】

Enable the outbound rate limit function of ONT Ethernet port in the line profile entry

GPON (deploy-profile-line-1) # local bandwidth egress port 1 51200
2.7.15 local loop-detect

This command is used to enable the loop detection function of the ONT.

local loop-detect port <port_id>

no local loop-detect port <port_id>

【Parameter Specification】

port_id: ONT ethernet port number, in the range of <1-24>

【Usage】

Line profile entry configuration mode

【Example】

Enable the loop detection function of the ONT in the line profile entry

GPON (deploy-profile-line-1) # local loop-detect port 1

2.7.16 local switch

This command is used to enable the local switching function of the ONT ethernet port.

local switch

no local switch

【Parameter Specification】

no

【Usage】

Line profile entry configuration mode

【Example】
Enable the local switching function of the ONT ethernet port in the line profile entry

GPON (deploy-profile-line-1) # local switch

### 2.7.17 local fec

This command is used to enable the upstream fec function of the ONT pon port.

```bash
local fec
```

```bash
no local fec
```

**Parameter Specification**

- **no**

**Usage**

Line profile entry configuration mode

**Example**

Enable the upstream fec function of the ONT pon port in the line profile entry

```bash
GPON (deploy-profile-line-1) # local fec
```

### 2.8 Unique Profile Configuration

- description
- tcont
- gemport
- sip agent
- sip user
• sip digitmap
• local neg-mode
• local shutdown
• local catv-age

2.8.1 description

This command is used to configure the ONT’s description.

description <description>

【Parameter Specification】

description: ONT’s description, combined with a string, and the range of the length is <1-128>

【Usage】

Unique profile entry configuration mode

【Example】

Configure an ONT description in the unique profile entry

GPON (deploy-profile-unique-0/1/1) # description FTTH

2.8.2 tcont

This command is used to create a T-CONT and assign a DBA profile to this T-CONT. T-CONT is a physical resource in the GPON system. All the upstreams of the ONT should be collected into the T-CONT before transmitted to the OLT and the DBA profile determines the size of the T-CONT, that is to say, the bandwidth of the upstream.

tcont <tcont_id> profile dba { <index_num> | name <name> }
no tcont <tcont_id>

【Parameter Specification】

tcont_id: the index of T-CONT. In the range of <1-24>

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

【Usage】

Line profile or unique profile entry configuration mode

【Example】

Config a T-CONT in the unique profile entry

GPON (deploy-profile-unique-0/1/1) #tcont 1 profile dba index 1

2.8.3 gemport

This command is used to configure the ONT’s vlan profile or traffic profile based on the gemport

gemport <gem_index> vlan-profile { <index_num> | name <name> }

gemport <gem_index> us-traffic-profile { <index_num> | name <name> }

gemport <gem_index> ds-traffic-profile { <index_num> | name <name> }

【Parameter Specification】

gem_index: the index of GEM Port. In the range of <1-1024>

tcont_id: the index of T-CONT. In the range of <1-24>
index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

【Usage】

Unique profile entry configuration mode

【Example】

Configure a vlan profile and traffic profile for an ONT in the unique profile entry

GPON (deploy-profile-unique-0/1/1) # gemport 1 vlan-profile 1 us-traffic-profile 1 ds-traffic-profile 1

2.8.4 sip agent

This command is used to configure the SIP agent of the ONT.

sip agent proxy-server <ip> [outbound-proxy <ip>] [registrar-server <ip>] signal-port <port_id>

【Parameter Specification】

ip: IP address of the server

port_id: signaling port number, the default is 5060

【Usage】

Unique profile entry configuration mode

【Example】

Configure a SIP agent in the unique profile entry

GPON (deploy-profile-unique-0/1/1) # sip agent proxy-server 192.168.2.100 signal-port 6666
2.8.5 sip user

This command is used to configure the voice port of the ONT.

```
sip user ip <ip> mask <ip_mask> vlan <vid>
```

```
sip user <user_id> name <username> password <password> telno <phone_num>
```

【Parameter Specification】

- ip: IP address of the local voice interface
- ip_mask: IP address mask
- vid: VLAN ID, in the range of <1-4094>
- user_id: ONT POTS port id, in the range <1-2>
- username: SIP server for authentication username
- password: password for SIP server authentication
- phone_num: ONT local voice telephone number

【Usage】

Unique profile entry configuration mode

【Example】

Configure a SIP user in the unique profile entry

```
GPON (deploy-profile-unique-0/1/1) #sip user ip-address 192.168.2.20 mask 255.255.255.0
vlan 20
```

```
GPON (deploy-profile-unique-0/1/1) #sip user 1 name admin password 123456 telno 10000
```

2.8.6 sip digitmap
This command is used to configure the SIP digitmap of the ONT. Digitmap provides the dialing rules when we make a phone call.

```
sip digitmap dial-plan-id <id> dial-plan-token <token>
```

【Parameter Specification】

id: the index of the digitmap

token: the content of the digitmap

【Usage】

Unique profile entry configuration mode

【Example】

Configure a SIP digitmap in the unique profile entry

```
GPON (deploy-profile-unique-1) #sip digit-map dial-plan-id 1 dial-plan-token * x. * X. #
```

2.8.7 local neg-mode

This command is used to configure the speed and duplex mode of the ONT ethernet port.

```
local neg-mode speed <speed> duplex <duplex_mode> port <port_id>

no local neg-mode speed port <port_id>
```

【Parameter Specification】

speed: the speed mode of the ONT ethernet port. It can be forced 10/100/1000M or auto negotiation.

duplex: the duplex mode of the ONT ethernet port. It can be forced full/half duplex or auto negotiation.

port_id: ONT ethernet port number, in the range of <1-24>
【Usage】

Unique profile entry configuration mode

【Example】

Configure the speed and duplex mode of the ONT ethernet port in the unique profile entry

GPON(deploy-profile-unique-0/1/1)#local neg-mode speed 100 duplex full port 1

2.8.8 local shutdown

This command is used to disable the ONT’s ethernet port or CATV port

local shutdown { port <port_id> | catv-port <catv_port_id> }

no local shutdown { port <port_id> | catv-port <catv_port_id> }

【Parameter Specification】

port_id: ONT ethernet port number, in the range of <1-24>

catv_port_id: ONT CATV port number, in the range of <1-4>

【Usage】

Unique profile entry configuration mode

【Example】

Disable an ethernet port of ONT in the line profile entry

GPON (deploy-profile-line-1) # local shutdown port 1

2.8.9 local catv-agc

This command is used to set the AGC function of the ONT CATV port.

local catv-agc mode { optical-based | rf-based } { decrease | increase } <range> catv-port
no local catv-age catv-port <catv_port_id>

【Parameter Specification】

port_id: ONT ethernet port number, in the range of <1-24>

catv_port_id:ONT CATV port number, in the range of <1-4>

range: the range of gain. In the range of <1-120>, the unit is 0.1dB

【Usage】

Unique profile entry configuration mode

【Example】

Set the AGC function of the ONT CATV port

GPON (deploy-profile-line-1) # local catv-age mode optical-based decrease 10 catv-port

t 1

2.9 Rule Profile Configuration

• permit

2.9.1 permit

This command is used to configure the permit rule. The ONT matching the rule can register on the OLT and the configuration in the line profile will be sent to the ONT at the same time.

The OLT supports six ONT authentication modes: SN, Password, SN+Password, LOID, Logical Password, LOID+ Logical Password.

The line profile will be bound with the ONT when the ONT authentication rule is created. Each rule can configure more than one line profiles, and the OLT will match the correct line
profile to the ONT according to the device type reported to the OLT. If the device type reported by the ONT is not match with the line profile, the OLT would not send the configuration to the ONT except that we have configured a default line profile.

In Password, LOID, Logical Password and LOID+ Logical Password authentication mode, the ONT’s SN will be changed sometime. OLT determines whether the ONT can be registered or not according to the ONT find mode. There are two kinds of ONT find mode: always-on and once-on.

The always-on find mode means that when a ONT can match with the rule profile, the ONT ID can always be distributed to this ONT even though the SN has been changed. The default ONT find mode is always-on.

The once-on find mode means that ONT should be registered on the OLT in a specified time and when the time expired, the ONT cannot be registered even though it matches with the rule profile. After the ONT ID is distributed, it cannot be used by other ONT with different SN.

```
permit sn { string-hex <sn_num> | hex <sn_num> } line { <index_list> | name <name> } [ default line { <index_num> | name <name> } ]

permit pw { string <password> | hex <password> } line { <index_list> | name <name> } [ default line { <index_num> | name <name> } ] [ once-on { no-aging | aging-time <time> } ]

permit loid <loid> line { <index_list> | name <name> } [ default line { <index_num> | name <name> } ] [ once-on { no-aging | aging-time <time> } ]

permit lopw <logical_password> line { <index_list> | name <name> } [ default line { <index_num> | name <name> } ] [ once-on { no-aging | aging-time <time> } ]

permit sn-pw { string-hex <sn_num> | hex <sn_num> } { string <password> | hex <password> } line { <index_list> | name <name> } [ default line { <index_num> | name <name> } ]

permit loid-lopw <loid> <logical_password> line { <index_list> | name <name> } [ default line { <index_num> | name <name> } ] [ once-on { no-aging | aging-time <time> } ]
```
【Parameter Specification】

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

password: ONT key combined with SN. There are two input methods:

string format: STRING <1-10>, full match;

hex format: STRING <1-20>, full match.

loid: ONT logical identity. STRING <1-24>, full match

logical_password: ONT key combined with logical identity. STRING <1-12>, full match

index_list: entry index number combination, representing multiple entries. The range of individual index numbers ranges from <0-(M-1)>, M is the maximum ONTs supported by the OLT

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

time: the expired time for the once-on find mode. The unit is hour and in the range of <1-168>

【Usage】

Rule profile entry configuration mode

【Example】

Configure a permit rule in the rule profile entry
GPON (deploy-profile-rule-0/1/1) #permit sn string-hex GPON-12345678 line 1

3 ONT Management Function

3.1 ONT Information Query

- show ont optical-info
- show ont statistics
- show ont port-status
- show ont multicast
- show ont info
- show ont brief
- show ont description
- show ont profile
- show ont upgrade-status
- show ont version
- show ont mac-address-table

3.1.1 show ont optical-info

This command is used to check the information of ONT's optical parameter, including: the working voltage, the bias current, the received optical power, the transmitting optical power and the working temperature.

```
show ont optical-info { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } | interface gpon { <interface_list> | all } }
```
【Parameter Specification】

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT’s index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports are separated by commas, such as: 0 / 1-0 / 5,0 / 8

all: All GPON ports

【Usage】

All modes

【Example】

Check the optical parameter information of ONT 0/6/2

GPON(config)#show ont optical-info 0/6/2

Power Feed Voltage(V)       :   3.36
RX Optical Power(dBm)       :   -9.958  (OLT TX: 4.020)
TX Optical Power(dBm)       :   2.178   (OLT RX: -11.805)
Laser Bias Current(mA)      :   16.320
Temperature(C)              :   53.00
CATV RX Power(dBm) : -

CATV Output Power(dBmV) : -

Check the ONTs’ optical parameter on GPON port 0/1

```
GPON(config)#show ont optical-info interface gpon 0/1
```

<table>
<thead>
<tr>
<th>ONT</th>
<th>Voltage</th>
<th>Rx-power</th>
<th>Tx-power</th>
<th>Bias</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/1/1</td>
<td>3.30</td>
<td>-11.428</td>
<td>2.814</td>
<td>12.800</td>
</tr>
<tr>
<td>0/1/2</td>
<td>3.30</td>
<td>-11.612</td>
<td>2.172</td>
<td>20.400</td>
</tr>
<tr>
<td>0/1/128</td>
<td>3.28</td>
<td>-12.472</td>
<td>1.978</td>
<td>15.500</td>
</tr>
</tbody>
</table>

Total entries: 3.

### 3.1.2 show ont statistics

This command is used to check the statistics of frames received or transmitted by the ONT. The statistics is based on the ethernet port or the GEM Port or the ONT.

```
show ont statistics { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } } [ pot <port_id> | gem { broadcast | multicast | unicast <gem_index>} | traffic ]
```

```
show ont statistics overall { <ont_id> | sn { string-hex <sn_num> } [ port <port_id>
```

【Parameter Specification】

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT’s index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then ‘-’ behind, after that is 8 hexadecimal number
hex format: STRING <16-16>, all the bits are in hexadecimal number

port_id: ONT ethernet port number, in the range of <1-24>

gem_index: the index of GEM Port. In the range of <1-1024>

【Usage】

All modes

【Example】

Check the optical parameter information of ONT 0/6/2

GPON (config) #show ont statistics 0/6/2

Discarded frames: 0

Upstream frames: 0

Upstream bytes: 4043664

Downstream frames: 0

Downstream bytes: 0

Up traffic (kbps): 37

Down traffic (kbps): 0

3.1.3 show ont port-status

This command is used to check the status of the ONT ethernet port, including port enable status, port speed, duplex mode.

    show ont port-status { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } } port <port_id>

【Parameter Specification】
ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

port_id: ONT ethernet port number, in the range of <1-24>

【Usage】

All modes

【Example】

Check the status of ONT 0/6/1 ethernet port 1

GPON (config) #show ont port-status 0/6/1 port 1

Port State is Enable, Gigabit Ethernet full duplex

3.1.4 show ont multicast

This command is used to check the multicast groups learned by ONT.

show ont multicast { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } } [ port <port_id> ]

【Parameter Specification】

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after
that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

port_id: ONT ethernet port number, in the range of <1-24>

【Usage】
All modes

【Example】
Check the multicast groups learned by ONT 0/6/1

GPON (config) #show ont multicast 0/6/1 port 2

MAC Address: 01: 00: 5e: 01: 02: 03

IP Address: 224.1.2.3

VLAN ID: 100

Client IP: 3.3.3.3

Age time: 0

IGMP Version: 0

Total entries: 1.

3.1.5 show ont info

This command is used to check the detail information of ONT.

show ont info { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } }

【Parameter Specification】
ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT
sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

【Usage】

All modes

【Example】

Check the detail information of ONT 0/6/2

GPON(config)#show ont info 0/6/2

ONT : 0/6/2

Description : -

Status : Online

Distance(m) : <10

Vendor ID : CIGG

Software Version : R4.1.36.436 / R4.1.36.474

Firmware Version : N20-400

Equipment ID : GN2000-04G

SN : CIGG-d2716231(0x43494747d2716231)

Password : 00d2716231(0x30306432373136323331)

LOID : CIGGD2716231

LOID Password : -
Uplink PON ports : 1

ETH/POTS/ TDM/MOCA ports : 4 / 0 / 0 / 0

CATV ANI/UNI ports : 0 / 0

T-CONTs/GEM ports : 8 / 256

Traffic Schedulers : 8

PQs in T-CONT 1-8 : 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8

IP configuration : not support

Type of flow control : PQ and FLEXIBLY SCHEDULED

TX power cut off : not support

Online/Offline time : 04:43:46 2000/03/02

Up/Down time : 0 day(s) 01 hour(s) 35 minute(s)

3.1.6 show ont brief

This command is used to check the brief information of the ONT.

show ont brief count interface gpon { <interface_list> | all }

show ont brief [ online | offline ] { <ont_id_list> | sn { string-hex <sn_num> | hex <sn_num> } | interface gpon { <interface_list> | all } }

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number, use the "*" matches the corresponding bit of all characters or
hexadecimal numbers;

hex format: STRING <1-16>, all the bits are in hexadecimal number, use the "*" matches the corresponding bit of all characters or hexadecimal numbers.

Interface list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports are separated by commas, such as: 0 / 1-0 / 5,0 / 8

all: All GPON ports

【Usage】
All modes

【Example】

Check the brief information of ONT

GPON (config) #show ont brief count interface gpon 0/6

<table>
<thead>
<tr>
<th>Port</th>
<th>Online-num</th>
<th>Offline-num</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/6</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Total entries: 1.

GPON (config) #show ont brief interface gpon 0/6

<table>
<thead>
<tr>
<th>ONT</th>
<th>SN</th>
<th>Device-type</th>
<th>Up / Down-time</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/6/1</td>
<td>CIGG-d2716230</td>
<td>C30-401</td>
<td>0d1h40m</td>
<td>Offline</td>
</tr>
<tr>
<td>0/6/2</td>
<td>CIGG-d2716231</td>
<td>C40-100</td>
<td>0d1h40m</td>
<td>Online</td>
</tr>
</tbody>
</table>

Total entries: 2.

GPON(config)#show ont brief online interface gpon 0/6
ONT  SN  Device-type  Up-time  Running

0/6/2  CIGG-d2716231  C40-100  0d1h40m  NORAML

Total entries: 1.

GPON(config)#show ont brief offline interface gpon 0/6

ONT  SN  Device-type  Down-time  Reason

0/6/1  CIGG-d2716231  C40-100  0d1h40m  Poweroff

Total entries: 1.

3.1.7 show ont description

This command is used to the description of the ONT.

show ont description { <ont_id_list> | sn { string-hex <sn_num> | hex <sn_num> } | interface gpon <interface_list> }

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number, use the "*" matches the corresponding bit of all characters or hexadecimal numbers;

hex format: STRING <16-16>, all the bits are in hexadecimal number, use the "*" matches the corresponding bit of all characters or hexadecimal numbers

Interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports
are separated by commas, such as: 0 / 1-0 / 5,0 / 8

【Usage】

All modes

【Example】

Check the description of ONT 0/6/2

GPON (config) #show ont description 0/6/2

<table>
<thead>
<tr>
<th>ONT</th>
<th>SN</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/6/2</td>
<td>CIGG-d2716231</td>
<td>abcd</td>
</tr>
</tbody>
</table>

3.1.8 show ont profile

This command is used to check the configuration of ONT which is online.

show ont profile { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } }

【Parameter Specification】

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

Interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports are separated by commas, such as: 0 / 1-0 / 5,0 / 8
【Usage】

All modes

【Example】

Check the configuration of ONT

GPON (config) #show ont profile 0/5/100

----------------------------------------------------------------

Unique profile 0/5/100 name GPON16301084

gemport 2 vlan-profile 0 us-traffic-profile 0 ds-traffic-profile 0

gemport 30 vlan-profile 1 us-traffic-profile 1 ds-traffic-profile 1

----------------------------------------------------------------

DBA profile 0 name 20M

Type 2 assured 20480

----------------------------------------------------------------

VLAN profile 0 name TRANSLATE_100_TO_2

translate old-vlan 100 new-vlan 2

VLAN profile 1 name TRANSLATE_591_TO_593

translate old-vlan 591 new-vlan 593
US-traffic profile 0 name US_10M
us car cir 10000 cbs 1000 pir 20000 pbs 1000
US-traffic profile 1 name US_20M
us car cir 20000 cbs 1000 pir 20000 pbs 1000

DS-traffic profile 0 name DS_10M
ds car bandwidth 10000
DS-traffic profile 1 name DS_2M
ds car bandwidth 2000

Line profile 0 name C40-100
device type c40-100
tcont 1 profile dba 0
gemport 2 tcont 1
gemport 30 tcont 1
mapping 0 vlan 100 gemport 2
mapping 1 vlan 591 gemport 30
3.1.9 show ont upgrade-status

This command is used to check the status of the ONT software upgrading or xml configuration provisioning.

```
show ont upgrade-status { image | xml } { <ont_id_list> | all }
```

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10

all: All the ONTs

【Usage】

All modes

【Example】

Check the status of the ONT software upgrading

```
GPON (config) #show ont upgrade-status image all
```

<table>
<thead>
<tr>
<th>ONT</th>
<th>Active-version</th>
<th>Inactive-version</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/6/1</td>
<td>V1.1</td>
<td>V1.0</td>
<td>success</td>
</tr>
<tr>
<td>0/6/2</td>
<td>V1.0</td>
<td>V1.1</td>
<td>100%</td>
</tr>
<tr>
<td>0/6/3</td>
<td>V1.0</td>
<td>V1.0</td>
<td>crc error</td>
</tr>
<tr>
<td>0/6/4</td>
<td>V1.0</td>
<td>V1.0</td>
<td>time out</td>
</tr>
<tr>
<td>0/6/5</td>
<td>V1.0</td>
<td>V1.0</td>
<td>offline</td>
</tr>
<tr>
<td>0/6/6</td>
<td>V1.0</td>
<td>V1.1</td>
<td>50%</td>
</tr>
</tbody>
</table>

Total entries: 6.
3.1.10 show ont version

This command is used to check the ONTs software and firmware version under a specified GPON port.

```
show ont version interface gpon { <interface_list> | all }
```

【Parameter Specification】

interface_list: GPON port list, representing multiple GPON ports. The port number is represented as slot_num / port_num, slot_num is the slot number, and port_num is the port number in the slot. Consecutive ports are connected with a minus sign, and non-contiguous ports are separated by commas, such as: 0 / 1-0 / 5,0 / 8

all: All GPON ports

【Usage】

All modes

【Example】

Check the ONT software version under GPON port 0/1

```
GPON(config)#show ont version interface gpon 0/1
```

<table>
<thead>
<tr>
<th>ONT</th>
<th>SN</th>
<th>Software-version</th>
<th>Firmware-version</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/1/1</td>
<td>GPON-173a00f1</td>
<td>R4.2.56.074/R4.2.56.074</td>
<td>G72210044</td>
</tr>
<tr>
<td>0/1/2</td>
<td>GCOM-174a003f</td>
<td>R4.2.56.074/R4.2.56.074</td>
<td>C40-428</td>
</tr>
<tr>
<td>0/1/128</td>
<td>GCOM-1770000c</td>
<td>C01R03/C01R02</td>
<td>GCOM_V1.1.0</td>
</tr>
</tbody>
</table>

Total entries: 3.

3.1.11 show ont mac-address-table
This command is used to check the mac address table of a specified ONT.

```
show ont mac-address-table { <mac_address> | <ont_id> | sn { string-hex <sn_num> | hex <sn_num> }}
```

【Parameter Specification】

mac_address: the mac address, in the format of H:H:H:H:H:H

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

【Usage】

All modes

【Example】

Check the mac address table of ONT 0/1/1

GPON(config)#show ont mac-address-table 0/1/1

```text
MAC-Address   VID  ONT-ID  SN                ID/GEM
00:00:00:00:11 2    0/1/1    GPON-173a00f1 1/256
00:0a:5a:46:b3:66 2 0/1/1    GPON-173a00f1 1/256
```

Total entries: 2.
3.2 ONT Remote Management

- ont reboot
- ont upgrade
- ont active
- ont deactive
- ont loopback
- ont auto-config

3.2.1 ont reboot

This command is used to reboot ONT remotely.

```
ont reboot { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } }
```

【Parameter Specification】

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

【Usage】

Global Configuration Mode

【Example】

Reboot ONT 0/6/2
3.2.2 ont upgrade

This command is used to upgrade the ONT software version remotely. The auto-reboot and manual-reboot can be chosen before we upgrade the ONT. After the ONT finishes downloading the new software from the OLT, the system will auto-reboot or wait for the user to manual-reboot the ONT and at the same time, OLT will commit the new software and make it into effect.

```
ont upgrade { auto-reboot | manual-reboot } { <ont_id_list> | sn { string-hex <sn_num> | hex <sn_num> } }
```

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10

sn_num: the physical identification of the ONT. There are two formats:

- string-hex format: STRING <13-13>, the first four string is character, then '.' behind, after that is 8 hexadecimal number, use the "#" matches the corresponding bit of all characters or hexadecimal numbers;

- hex format: STRING <16-16>, all the bits are in hexadecimal number, use the "#" matches the corresponding bit of all characters or hexadecimal numbers

【Usage】

Global Configuration Mode

【Example】

Reboot ONT 0/6/2

```
GPON (config) #ont upgrade 0/6/2
```

The ONT will reboot automatically after finishing the transmission of the ONT image, are you sure (y / n)? [N] y
The ONT is upgrading. Please execute "ont upgrade commit" to activate the new software after the ONT reboots and registers again.

3.2.3 ont active

This command is used to active ONT.

ont active <ont_id_list>

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5.0 / 2/10

【Usage】

Global Configuration Mode

【Example】

Active ONT 0/6/2

GPON (config) #ont active 0/6/2

3.2.4 ont deactive

This command is used to deactive ONT. The ONT will be offline after we deactive it.

ont deactive <ont_id_list>

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5.0 / 2/10

【Usage】

Global Configuration Mode

【Example】
Deactive ONT 0/6/2

GPON (config) #ont deactive 0/6/2

3.2.5 ont loopback

This command is used to enable the loopback detecting function of the ONT ethernet port.

```
ont loopback { <ont_id> | sn { string-hex <sn_num> | hex <sn_num> } } port <port_id>
```

【Parameter Specification】

- **ont_id**: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT's index assigned by the OLT
- **sn_num**: the physical identification of the ONT. There are two formats:
  - string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number
  - hex format: STRING <16-16>, all the bits are in hexadecimal number
- **port_id**: ONT ethernet port number, in the range of <1-24>

【Usage】

Global Configuration Mode

【Example】

Enable the loopback detecting function of ONT 0/6/2

GPON (config) #ont loopback 0/6/2 port 1

3.2.6 ont auto-config

This command is used to enable the ONT auto-config function and create the auto-config
With the ONT auto-config function, users don’t need to configure the rule profile and the OLT will create the rule profile based on SN authentication mode according to the ont-find list information. Before we use the ONT auto-config function, we must enable the ONT find function first.

```
ont auto-config

ont auto-config { <index_num> [ name <name> ] | name <name> } { all-ont | device <device_type> }
```

【Parameter Specification】

index_num: the index of the profile entry, the range is <0-(M-1)>, M is the maximum ONTs supported by the OLT

name: the name of the profile entry, combined with a string, and the range of the length is <1-128>

device_type: ONT device type name.

【Usage】

Global Configuration Mode

【Example】

Enable the ONT auto-config function

GPON (config) #ont auto-config

Create an auto-config profile entry

GPON(config)#ont auto-config 0 name test device-type C40-100 line 0

3.3 ONT Logging Management

- ont-logging
- ont-logging buffer
- ont-logging monitor
- ont-logging prefix
- ont-logging timestamps
- show ont-logging config
- show ont-logging buffer
- clear ont-logging buffer

3.3.1 ont-logging

This command is used to enable ONT logging function.

```
ont-logging

no ont-logging
```

【Parameter Specification】

ont_id: ONT ID number, in the form slot_num / port_num / ont_num, slot_num is the slot number, port_num is the port number, ont_num is the ONT’s index assigned by the OLT

sn_num: the physical identification of the ONT. There are two formats:

string-hex format: STRING <13-13>, the first four string is character, then '-' behind, after that is 8 hexadecimal number

hex format: STRING <16-16>, all the bits are in hexadecimal number

【Usage】

Global Configuration Mode

【Example】
Enable the ONT logging function

GPON(config) #ont-logging

### 3.3.2 ont-logging buffer

This command is used to enable the ONT log caching function.

```plaintext
ont-logging buffer {<ont_id_list> | all}
o ont-logging buffer {<ont_id_list> | all}
```

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5.0 / 2/10

all: All the ONTs

【Usage】

Global Configuration Mode

【Example】

Enable the ONT log caching function

GPON(config) #ont-logging buffer all

### 3.3.3 ont-logging monitor

This command is used to enable the monitoring function of ONT log.

```plaintext
ont-logging monitor {<ont_id_list> | all}
o ont-logging monitor {<ont_id_list> | all}
```

【Parameter Specification】

【Parameter Specification】
ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5.0 / 2/10

all: All the ONTs

【Usage】

Global Configuration Mode

【Example】

Enable the ONT log monitoring function

GPON(config) #ont-logging monitor all

3.3.4 ont-logging prefix

This command is used to add prefixes in the ONT log. The prefix can be ONT ID or SN or both.

ont-logging prefix {ontid | sn}

no ont-logging prefix {ontid | sn}

【Parameter Specification】

no

【Usage】

Global Configuration Mode

【Example】

Add a SN prefix in the ONT log

GPON(config) #ont-logging prefix sn

3.3.5 ont-logging timestamps
This command is used to configure the format of timestamp in the ONT log.

`ont-logging timestamps {uptime | notime | datetime}`

**Parameter Specification**

- **uptime**: the time system running
- **notime**: no timestamps
- **datetime**: the system time

**Usage**

Global Configuration Mode

**Example**

Configure the format of the timestamps in the ONT log as system time

GPON(config) # ont-logging timestamps datetime

### 3.3.6 show ont-logging config

This command is used to view the current ONT log management configuration.

`show ont-logging config`

**Parameter Specification**

- **no**

**Usage**

Global Configuration Mode

**Example**

Check the configuration of ONT logging function
show ont-logging config

logging state: on
logging timestamps: uptime
logging prefix: ontid: on; sn: on
logging buffer: 0/1 / 1-0 / 16/128
logging monitor:
0: 0/6/1
1: off
2: off
3: off
4: off
5: off

3.3.7 show ont-logging buffer

This command is used to check the current buffer of the ONT log.

show ont-logging buffer {<ont_id_list> | all}

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10
all: All the ONTs

【Usage】

Global Configuration Mode
【Example】

Check the log of ONT 0/1/1

GPON (config) #show ont-logging buffer 0/1/1

00:25:45 0/1/1 GPON-15b00374: eth port 2 links down.
00:25:45 0/1/1 GPON-15b00374: eth port 1 links down.
00:25:42 0/1/1 GPON-15b00374: online.
00:24:25 0/1/1 GPON-15b00374: offline, reason: LOS.
00:15:45 0/1/1 GPON-15b00374: eth port 2 links up.
00:15:45 0/1/1 GPON-15b00374: eth port 1 links up.
00:15:42 0/1/1 GPON-15b00374: online.
00:13:46 0/1/1 GPON-15b00374: offline, reason: NONE.
00:01:34 0/1/1 GPON-15b00374: online.

3.3.8 clear ont-logging buffer

This command is used to clear the current buffer of the ONT log.

clear ont-logging buffer {<ont_id_list> | all}

【Parameter Specification】

ont_id_list: the list of ONT IDs. Such as 0/1 / 1-0 / 2 / 5,0 / 2/10

all:All the ONTs

【Usage】

Global Configuration Mode
【Example】

Clear the log of ONT 0/1/1

GPON (config) #clear ont-logging buffer 0/1/1