
GPON OLT USER MANUAL

(WEB Management)

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Chapter 1 System Description

1.1 Overview

1.1.1 OLT Introduction

The Web management user manual is for the OLTs listed in Table 1-1.

After you have completed installation, connection and commissioning of the equipment, you can start on configuring various services and functions for the equipment.

Table 1-1 OLT interfaces

| Products | | 8 ports GPON OLT |
|-----------------------|-----------------------|---|
| Chassis | Rack | 1U 19 inch standard box |
| 1000M Uplink Port | QTY | 14 |
| | Copper | 8*10/100/1000M auto-negotiation |
| | SFP (Independent) | 6*SFP |
| 10000M Uplink Port | QTY | 2 |
| | SFP (Independent) | 2*SFP+ (SFP+ is compatible with 10GE) |
| GPON Port | QTY | 8 |
| | Physical Interface | SFP Slots |
| Management Ports | | 1*10/100BASE-T out-band port(AUX), 1*CONSOLE port |
| Management Mode | | SNMP, WEB, Telnet and CLI |

1.1.2 PC System Requirement

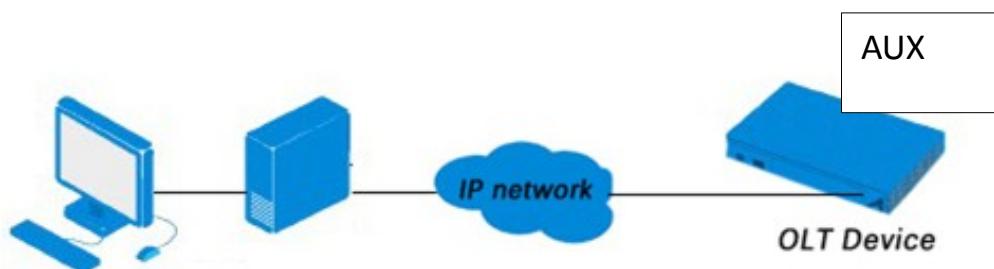
Table 1-2 PC System requirement

| CPU | Memory | DISK | Video Card | Operating System |
|----------------------|--------------|-----------------|--|---|
| Frequency above 2GHz | 2GB Or above | 10GB disk space | 65000 color resolving capability 1024*768 and above | Windows2008 Windows XP Windows 7 Windows 8 Windows 10 |

1.2 Connection

Connect the OLT AUX port to IP network. The OLT default management IP is 192.168.8.200.

Please set your PC IP to 192.168.8.XXX (e.g. 192.168.8.123).

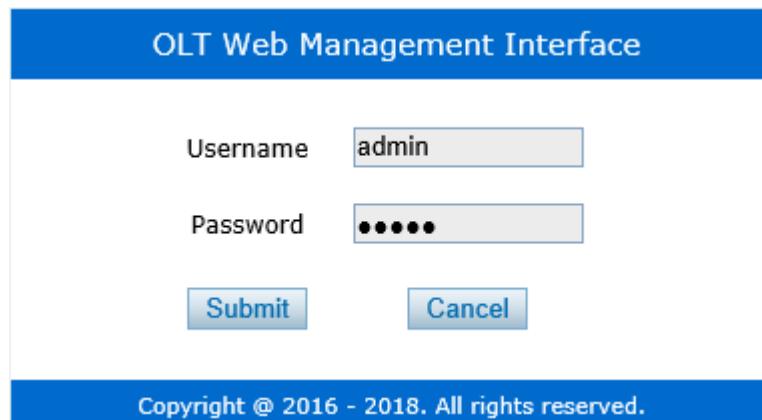


Chapter 2 OLT Information

2.1 Login

Follow the steps to login:

1. Conform “1.2 Connection” to connect;
2. The device default IP address is 192.168.8.200;
3. Open your web browser, type the device IP in address bar;
4. Entry of the username and password will be prompted. Enter the default login User Name and Password. Both the username and password are "**admin**" by default.



The image shows a screenshot of the "OLT Web Management Interface". At the top, there is a blue header bar with the text "OLT Web Management Interface". Below this, the main content area has two input fields: "Username" with the value "admin" and "Password" with the value "*****". There are two buttons at the bottom left: "Submit" and "Cancel". At the very bottom of the page, there is a blue footer bar with the text "Copyright @ 2016 - 2018. All rights reserved."

Figure 2-1: Login

2.2 Device Information

The OLT ports connection status are shown in the top of the interface, and about the OLT basic information.

OLT Information→Device Information

This part shows the OLT information such as system name, serialnumber, hardwareversion, firmwareversion, MAC address and system time. The system name can be modified if need.

The screenshot displays a web-based management interface for an OLT. On the left, a vertical sidebar lists navigation options: OLT Information, Device Information (which is selected and highlighted in blue), OLT Configuration, ONU Configuration, Profile Configuration, and System Configuration. The main content area is titled "Device Information". It contains two tabs: "Device Status" and "Device Basic Information". The "Device Status" tab is active, showing a grid of icons representing various ports (PON1-PON8 and GE1-GE16). Below this, the "Device Basic Information" tab is shown, containing a table with the following data:

| System Name | gpon-olt | Serial Number | V1603160001 |
|------------------|-------------------------|------------------|--------------------------------------|
| Hardware Version | eight gpon olt platform | Firmware Version | V1.4_170814154525 |
| MAC Address | 80:14:A8:75:83:AD | Temperature | 69°C |
| System Time | 2004 /1 /1 10:18:22 | Running Time | 0 Days 6 Hours 15 Minutes 23 Seconds |
| CPU Usage | 25% | Memory Usage | 21% |

At the bottom of the table are two buttons: "Submit" and "Refresh".

Figure 2-2: Device Information

Chapter 3 OLT Configuration

This section is about the basic service of OLT configuration.

3.1 VLAN

OLT equipment switch engine is fully compliant with the IEEE802.1Q VLAN standard and has the following main features:

- Support Port-based VLAN and IEEE802.1Q VLAN.
- Support full 4K VLAN group, VID range 1~4095.

All switch ports, including uplink ports and downlink ports, support VLAN partition.

VLAN 1 is the system reserved VLAN, it includes all switch ports which are UNTAG mode.

The screenshot shows the 'VLAN' configuration page of an OLT. The left sidebar has a tree view with 'VLAN' highlighted and circled in red. The main area has tabs for 'VLAN', 'VLAN Port', and 'QinQ/Translation'. Under 'VLAN', there's a 'New VLAN' section with fields for 'VLAN ID' (1-4094) and 'Description', and an 'Add' button. Below that is a 'VLAN Table' with the following data:

| VLAN ID | Description | Edit | Delete |
|---------|-------------|------|--------|
| 1 | default | | |
| 100 | vlan100 | | |
| 200 | vlan200 | | |
| 1010 | vlan1010 | | |

3.1.1 Create VLAN

OLT Configuration→VLAN

In this user interface, can be create new VLAN.

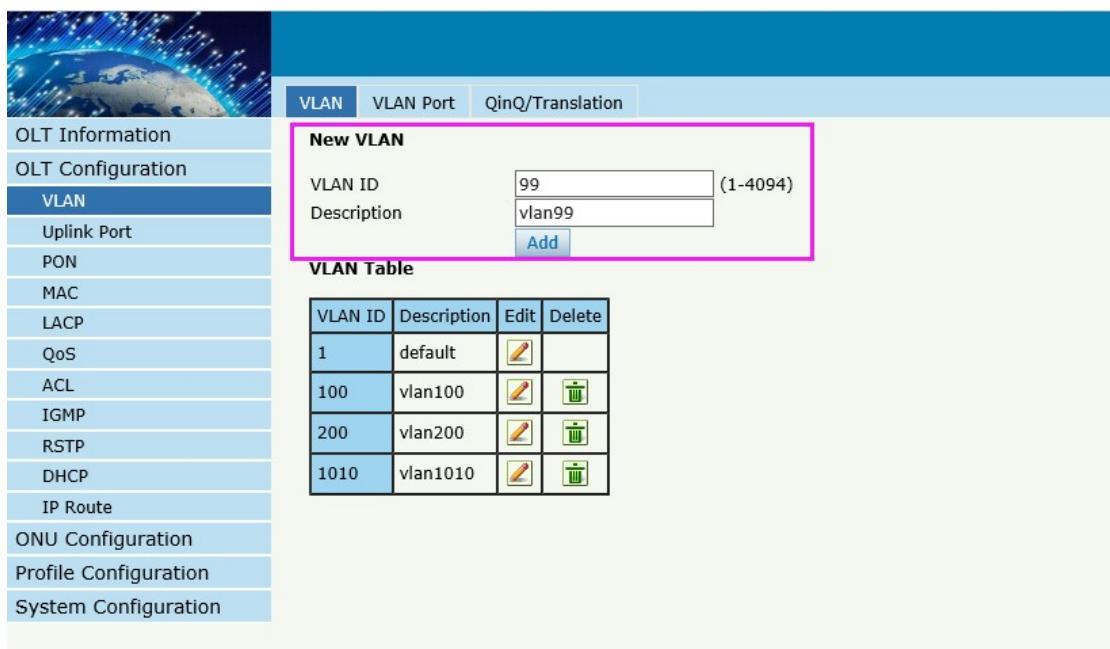


Figure 3-1: Create New VLAN

3.1.2 VLAN Port

OLT Configuration→VLAN→VALN Port.

The screenshot shows a user interface for managing VLAN ports. On the left is a sidebar with various configuration options: OLT Information, OLT Configuration, VLAN (selected), Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration.

The main area has tabs at the top: VLAN, VLAN Port (selected), and QinQ/Translation. Below the tabs is a section titled "Port VLAN Configuration". A dropdown menu shows "VLAN ID" set to "99".

A table titled "Port VLAN Table" lists 16 ports (GE1 to GE16) across four columns: Port ID, Forbidden, Tag, and Untag. The "Forbidden" column contains radio buttons. The "Tag" and "Untag" columns contain checkboxes. The "Submit" button is located at the bottom right of the table area.

| Port ID | Forbidden | Tag | Untag |
|---------|----------------------------------|----------------------------------|----------------------------------|
| GE1 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE2 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE3 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE4 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="checkbox"/> |
| GE5 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="checkbox"/> |
| GE6 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE7 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE8 | <input type="radio"/> | <input type="checkbox"/> | <input checked="" type="radio"/> |
| GE9 | <input type="radio"/> | <input type="checkbox"/> | <input checked="" type="radio"/> |
| GE10 | <input type="radio"/> | <input type="checkbox"/> | <input checked="" type="radio"/> |
| GE11 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE12 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE13 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE14 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE15 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GE16 | <input checked="" type="radio"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Figure 3-2: Add VLAN Port

3.1.3 QinQ/Translation

OLT Configuration → VLAN → QinQ/Translation

In this user interface, VLAN QinQ and VLAN translation can be configured. VLAN QinQ and translation are effective for ingress.

| Port ID | Customer VLAN | Customer Cos | Service VLAN | Service Cos | Mode | Delete |
|---------|---------------|--------------|--------------|-------------|------------------|--------|
| GE6 | 99 | any | 100 | any | VLAN Translation | |

Figure 3-3: QinQ/Translation Configuration

3.2 Uplink Port

GE port traffic statistics and basic configuration setting.

3.2.1 Information

OLT Configuration → Uplink Port → Information

This user interface displays traffic statistics of uplink ports.

| Traffic Statistics | | | | | | | | | | | | | Log | Status |
|--------------------|-------------|------------|-------------|------------|-----------|-----------|-----------|-------------|------------|-----------|-----------|-----------|------------|--------|
| Port ID | Link Status | Speed | Rx Bytes | Rx Packets | | | | Tx Bytes | Tx Packets | | | | Collisions | Errors |
| | | | | Packets | Unicast | Broadcast | Multicast | | Packets | Unicast | Broadcast | Multicast | | |
| GE1 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE2 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE3 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE4 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE5 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE6 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE7 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE8 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE9 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE10 | Down | - | 4292241 | 50334 | 29673 | 17705 | 2953 | 4094572 | 60112 | 248 | 51731 | 8133 | 0 | 3 |
| GE11 | Down | - | 1505534976 | 11761992 | 11761992 | 0 | 0 | 4187 | 58 | 0 | 32 | 26 | 0 | 0 |
| GE12 | Up | 1000M Full | 33217903360 | 266466398 | 266466393 | 0 | 0 | 31232952872 | 250979729 | 250905193 | 58255 | 16276 | 0 | 0 |
| GE13 | Down | - | 1161398784 | 9073428 | 9073428 | 0 | 0 | 1263815518 | 9873915 | 9873163 | 601 | 151 | 0 | 0 |
| GE14 | Down | - | 0 | 0 | 0 | 0 | 0 | 64 | 1 | 0 | 0 | 1 | 0 | 0 |
| GE15 | Down | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GE16 | Down | - | 0 | 0 | 0 | 0 | 0 | 4568247 | 58156 | 7143 | 45949 | 5064 | 0 | 0 |

[Clear Counters](#) [Refresh](#)

Figure3-4 : GETraffic Statistcs

3.2.2 Configuration

OLT Configuration→Uplink Port→Information

This user interface is used to configure port related functions and characteristic parameters of uplink port, such as port attributes, PVID, flow control, rate limit, storm inhibition, port isolation and so on.

| Port ID | Description | Admin Status | Flow Control | Isolate | PVID | Storm(0 64-1000000fps) | | | Rate(0 32-1000000kbps) | | MAC Limit(0-16384) |
|---------|-------------|-------------------------------------|--------------------------|--------------------------|------|------------------------|-----------|---------|------------------------|--------|--------------------|
| | | | | | | Broadcast | Multicast | Unicast | Ingress | Egress | |
| GE1 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 100 |
| GE2 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE3 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE4 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE5 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE6 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE7 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE8 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE9 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 | 512 | 0 | 512 | 0 | 0 | 10 |
| GE10 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE11 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE12 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1010 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE13 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE14 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE15 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |
| GE16 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100 | 512 | 0 | 512 | 0 | 0 | 0 |

[Submit](#) [Reset](#)

Figure3-5: Uplink Ports Configuration

Illustrations of each parameter:

| Parameters | Illustration |
|-----------------|---|
| Port ID | GE port has two types, fiber SFP(GE1 to GE8) and copper(GE9 to GE16). |
| Description | Descriptions or remarks of port. |
| Admin Status | Active or inactive status of port. It is "Enable" by default. |
| Flow Control | Enable or disable flow control function of uplink port to control congestion. It is "disable" by default. |
| Isolate | Port isolation with each other. |
| PVID | Default VLAN ID of the port. |
| Broadcast | Broadcast storm inhibition. |
| Multicast | Multicast storm inhibition. |
| Unknown Unicast | Unknown unicast storm inhibition. |
| Ingress Rate | Port ingress rate. |
| Egress Rate | Port egress rate. |
| MAC limit | Number of mac |

3.3 PON

3.3.1 Information

OLT Configuration→PON→Information

This user interface is used to displays parameters of PON port, such as PON module port current temperature, Voltage,current, transmit power and the traffic statistics.

The screenshot shows a user interface for managing PON ports. On the left is a vertical navigation menu with the following items:

- OLT Information
- OLT Configuration
- VLAN
- Uplink Port
- PON** (highlighted)
- MAC
- LACP
- QoS
- ACL
- IGMP
- RSTP
- DHCP
- IP Route
- ONU Configuration
- Profile Configuration
- System Configuration

The main content area has two tabs at the top: "Information" (selected) and "Configuration".

Optical Transceiver

| Port ID | Temperature(Degree) | Voltage(V) | Bias Current(mA) | Transmit Power(dBm) |
|---------|---------------------|------------|------------------|---------------------|
| PON1 | 0.000 | 0.000 | 0.000 | 0.000 |
| PON2 | 57.242 | 3.377 | 14.880 | 3.557 |
| PON3 | 0.000 | 0.000 | 0.000 | 0.000 |
| PON4 | 55.969 | 3.344 | 16.282 | 3.631 |
| PON5 | 59.453 | 3.346 | 18.082 | 3.693 |
| PON6 | 0.000 | 0.000 | 0.000 | 0.000 |
| PON7 | 0.000 | 0.000 | 0.000 | 0.000 |
| PON8 | 53.551 | 3.343 | 14.346 | 3.737 |

Traffic Statistics

| Interface | Rx Packets | | | Tx Packets | | | Collisions | Errors |
|-----------|------------|-----------|-----------|------------|-----------|-----------|------------|--------|
| | packets | Broadcast | Multicast | packets | Broadcast | Multicast | | |
| PON | 267170374 | 85036 | 1149 | 818451253 | 96059 | 1149 | 0 | 0 |

Buttons at the bottom:

- Clear Counters
- Refresh

Figure3-6: PON Information

3.3.2 Configuration

OLT Configuration→PON→Configuration

This user interface is used to configure port status

The screenshot shows a user interface for configuring port status. On the left is a vertical sidebar with a globe icon at the top, followed by a list of configuration options: OLT Information, OLT Configuration, VLAN, Uplink Port, PON (which is selected and highlighted in blue), MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. At the top right, there are two tabs: 'Information' and 'Configuration', with 'Configuration' being the active tab. Below the tabs is a section titled 'PON Configuration'. A table lists eight PON ports (PON1 to PON8) with their 'Admin Status' checked. At the bottom of the configuration section are 'Submit' and 'Refresh' buttons.

| Port ID | Admin Status |
|---------|-------------------------------------|
| PON1 | <input checked="" type="checkbox"/> |
| PON2 | <input checked="" type="checkbox"/> |
| PON3 | <input checked="" type="checkbox"/> |
| PON4 | <input checked="" type="checkbox"/> |
| PON5 | <input checked="" type="checkbox"/> |
| PON6 | <input checked="" type="checkbox"/> |
| PON7 | <input checked="" type="checkbox"/> |
| PON8 | <input checked="" type="checkbox"/> |

Figure3-7: PON configuration

3.4 MAC

In this section, you can check MAC address table of OLT, set MAC aging time and MAC limit of the ports.

3.4.1 MAC Table

OLT Configuration→MAC→MAC Table

This table displays MAC addresses that OLT has learnt at PON port and GE port.

| VLAN ID | MAC | Type | Physical Port |
|---------|-------------------|---------|---------------|
| 1010 | 01:00:5E:16:02:02 | Static | CPU |
| 1010 | 01:00:5E:00:01:01 | Static | CPU |
| 1010 | 00:24:21:57:AC:39 | Dynamic | PON1 |
| 1010 | 00:E0:4C:86:70:70 | Dynamic | PON1 |
| 1010 | 01:00:5E:01:01:01 | Static | CPU |

Figure3-8: MAC Address Table

3.4.2 Configuration

OLT Configuration→MAC→Configuration

The default MAC aging time of OLT is 300s, user can change the value between 10~1000000s. Also, user can add the MAC to the OLT manually.

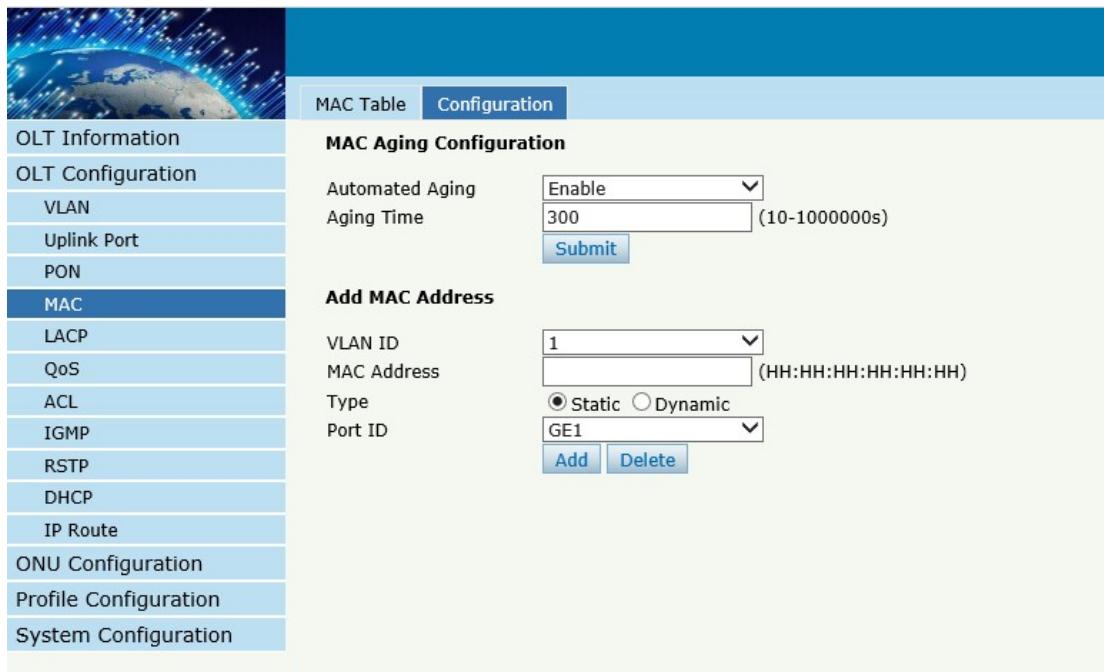


Figure 3-9:MAC Configuration

3.5 LACP

OLT Configuration→LACP→Static LACP

To assign and configure uplink physical interface to an EtherChannel.

When a traffic link can't be used suddenly, this traffic link will switch to another link automatically. The group range is from 1 to 4. Each group can add 4 ports maximally. Only GE ports can be added in the channel groups.

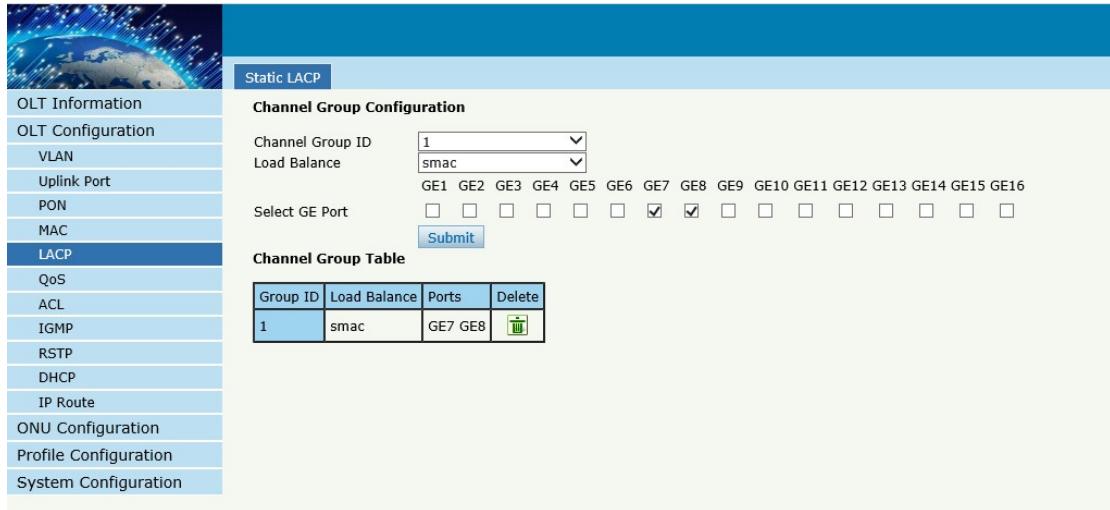


Figure 3-10: Create Static LACP

3.6 QOS

OLT Configuration→QOS

When bandwidth is not enough or there is congestion in the network, queue scheduling can make sure high priority data traffic passes through the device firstly. Traffic will map to queues according to their priorities and transmit in the queues.

OLT supports eight queues altogether. Queue scheduling mode includes strict priority (SP), weighted round robin (WRR) and hybrid mode (SP-WRR).

Strict priority scheduling guarantees high priority traffic occupy as much as bandwidth. The lower priority traffics pass though only when there is remaining bandwidth.

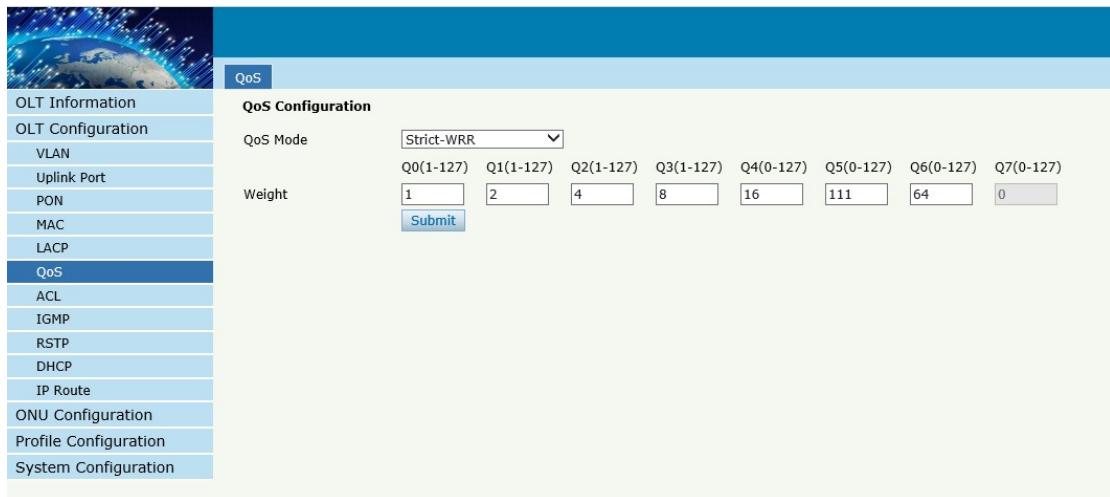


Figure 3-11: QOS Configuration

3.7 ACL

In order to filter data packages, network equipment need to setup a series of rules for identifying what need to be filtered. Only matched with the rules the data packages can be filtered. ACL can achieve this function.

Matched conditions of ACL rules can be source address, destination address, Ethernet type, VLAN, protocol port, and so on. These ACL rules also can be used in other situations, such as classification of stream in QoS. An ACL rule may contain one or several sub-rules, which have different matched conditions.

This device supports the following types of ACL.

3.7.1 IP Filter

The filter is basic on the IP address, include source IP address and

destination IP address.

OLT Configuration→ACL→IP Filter

The screenshot shows a web-based configuration interface for an OLT. The left sidebar contains a navigation menu with items like OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL (which is selected), IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main content area has tabs at the top: IP Filter (selected), MAC Filter, IP/MAC Filter, and Effect Filter. The IP Filter tab displays the 'Access List IP Configuration' section, which includes fields for Access List ID (set to 1000-1999), Filter Action (radio buttons for Deny and Permit, with Deny selected), and various filtering criteria (Source IP, Source Port, Destination IP, Destination Port, Protocol, DSCP). Below this is a table titled 'Access Lists Configured' with columns for List ID, Source IP, Source Port, Destination IP, Destination Port, Protocol, DSCP, Filter Action, and Delete. A single row is shown in the table:

| List ID | Source IP | Source Port | Destination IP | Destination Port | Protocol | DSCP | Filter Action | Delete |
|---------|-----------|-------------|----------------|------------------|----------|------|---------------|--------|
| 1000 | 4/ffff | | | 14/ffff | 17/ff | 14 | Permit | |

Figure 3-12: IP Filter

3.7.2 MAC Filter

The filter is basic on the MAC address, include source MAC address and destination MAC address.

OLT Configuration→ACL→MAC Filter

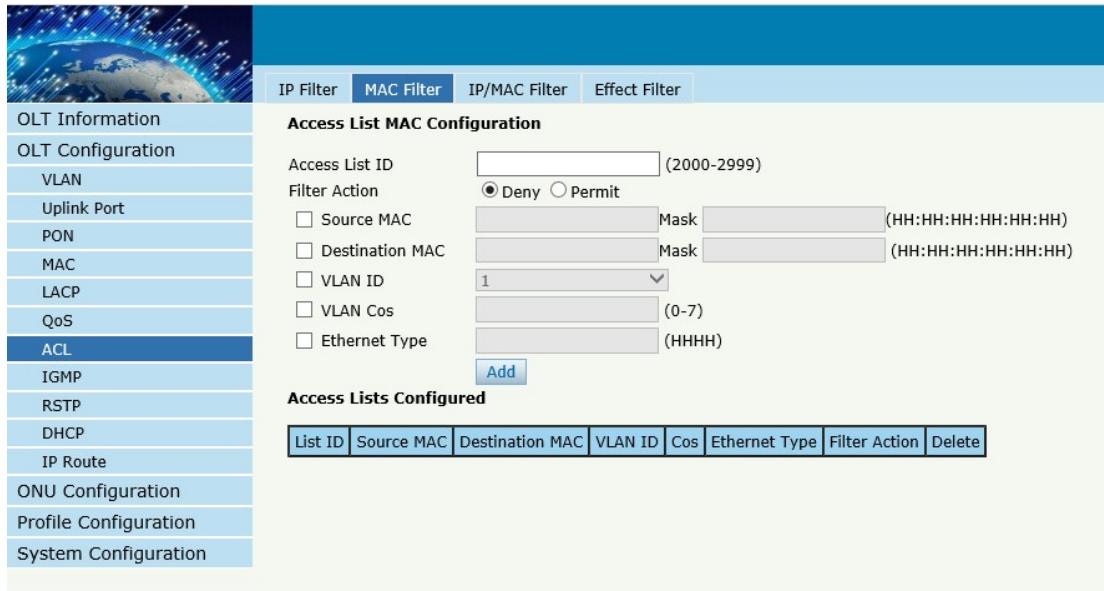


Figure 3-13: MAC Filter

3.7.3 IP/MAC Filter

This filter mix the IP address and MAC address, include source MAC address and destination MAC address, source IP address and destination IP address.

OLT Configuration→ACL→IP/MAC Filter

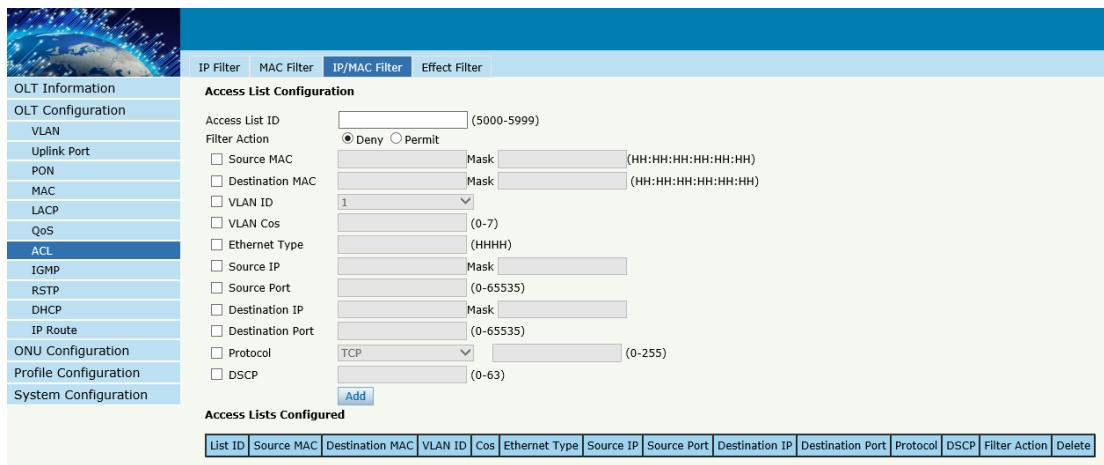


Figure 3-14 IP/MAC Filter

3.7.4 Effect Filter

Bind the access list to the portsthen it can take effect. Each access list can be bound several ports.

OLT Configuration→ACL→Effect Filter

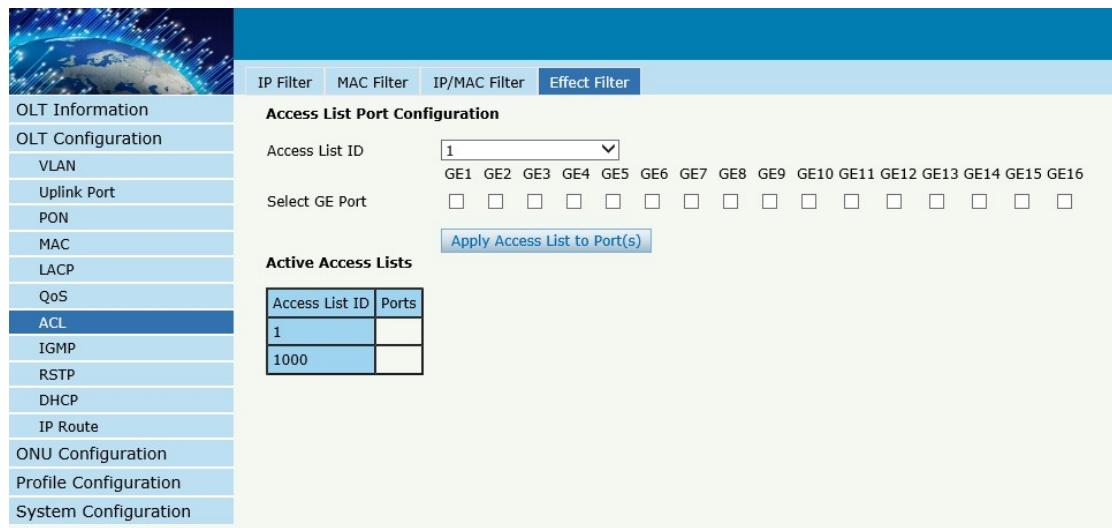


Figure 3-15: Bind Security Filter

3.8 IGMP

3.8.1 Group Member

When there is a multicast group produced, the group will display in this table.

OLT Configuration→IGMP→Group Member

| Group Member | Global | Port | Port User VLAN | Port Mrouter | Mvlan | Static Group |
|--------------------------|------------|------|----------------|--------------|-------|--------------|
| IGMP Group Member | | | | | | |
| | | | | | | |
| 1010 | 239.1.1.1 | PON7 | Static | 1010 | | |
| 1010 | 239.22.2.2 | PON7 | Static | 1010 | | |
| 1010 | 236.0.1.1 | PON7 | Static | 1010 | | |
| Refresh | | | | | | |

Figure 3-16: Group Member

3.8.2 Global

OLT Configuration → IGMP → Global.

IGMP basic configuration mainly contains parameters of query packet.

When IGMP status is checked, OLT works at IGMP snooping mode.

IGMP snooping is the process of listening to Internet Group Management Protocol (IGMP) network traffic. The feature allows a network switch to "listen in" on the IGMP conversation between hosts and routers. By listening to these conversations, the switch maintains a map of which devices need which IP multicast streams. Multicasts may be filtered from the ports which do not need them and thus controls which ports receive specific multicast traffic. When IGMP status is disable, OLT works at transparent mode.



| Group Member | Global | Port | Port User VLAN | Port Mrouter | Mvlan | Static Group |
|----------------------------|--|--------------------------------------|----------------|--------------|-------|--------------|
| IGMP Configuration | | | | | | |
| IGMP Status | <input type="button" value="Enable"/> <input type="button" value="Disable"/> | | | | | |
| Last Member Query Interval | <input type="text" value="1"/> | (1-255s) | | | | |
| Last Member Query Count | <input type="text" value="2"/> | (1-255) | | | | |
| Last Member Query Response | <input type="text" value="1"/> | (1-255s) | | | | |
| General Query Packet | <input type="radio"/> Disable <input checked="" type="radio"/> Enable | | | | | |
| General Query Interval | <input type="text" value="10"/> | (10-255s) | | | | |
| Query Source IP | <input type="text" value="2.2.2.2"/> | | | | | |
| | <input type="button" value="Submit"/> | <input type="button" value="Reset"/> | | | | |

OLT Information
OLT Configuration
VLAN
Uplink Port
PON
MAC
LACP
QoS
ACL
IGMP
RSTP
DHCP
IP Route
ONU Configuration
Profile Configuration
System Configuration

Figure 3-17: IGMP Global

3.8.3 Port

OLT Configuration → IGMP → Port.

This configuration is used to set the maximum number of multicast groups, filter and fast leave mode.



| Group Member | Global | Port | Port User VLAN | Port Mrouter | Mvlan | Static Group |
|--------------------------------|--------------------------|--------------------------|---------------------|--------------|-------|--------------|
| IGMP Port Configuration | | | | | | |
| Port ID | Fast Leave | Filter | Group Limit(0-1024) | | | |
| GE1 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE2 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE3 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE4 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE5 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE6 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE7 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE8 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE9 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE10 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE11 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE12 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE13 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE14 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |
| GE15 | <input type="checkbox"/> | <input type="checkbox"/> | 1024 | | | |

Figure 3-18: IGMP Port

3.8.4 Port User VLAN

OLT Configuration →IGMP→Port User VLAN

This configuration is used to configure IGMP VLAN for OLT. Generally, PON ports should be configured, and user VLAN and group VLAN are the same. If user VLAN and group VLAN are different, multicast VLAN will be translated.

The screenshot shows the 'User VLAN Configuration' section with Port ID GE1, User VLAN ID 1, and Group VLAN ID 1. An 'Add' button is visible. Below it is the 'User VLAN Table' with two entries: PON3 (User VLAN ID 88, Group VLAN ID 88) and PON7 (User VLAN ID 1010, Group VLAN ID 1010), each with a delete icon.

| Port ID | User VLAN ID | Group VLAN ID | Delete |
|---------|--------------|---------------|--------|
| PON3 | 88 | 88 | |
| PON7 | 1010 | 1010 | |

Figure 3-19: IGMP Port User VLAN

3.8.5 Port Mrouter

OLT Configuration → IGMP → Port Mrouter

Multicast router port is used to transmit IGMP signal messages.

Generally, OLT uplink ports should be set as multicast router ports.

The screenshot shows the 'Port Mrouter' tab selected. It includes an 'Add Multicast Router' form with Port ID GE1 and Group VLAN ID 1, and an 'Add' button. Below it is the 'Multicast Router Table' with entries for GE12 (Group VLAN ID 88) and GE3 (Group VLAN ID 200), each with a delete icon.

| Port ID | Group VLAN ID | Delete |
|---------|---------------|--------|
| GE12 | 88 | |
| GE3 | 200 | |

Figure 3-20: IGMP Port Mroute

3.8.6 Mvlan

OLT Configuration →IGMP→Mvlan

This configuration is used to configure Mvlan and its mode.

| | | |
|----------------------|-------------------|---------------|
| IGMP mode | Unknown multicast | Igmp packet |
| Snooping | drop | trap –to -cpu |
| Disable(transparent) | forward | forward |

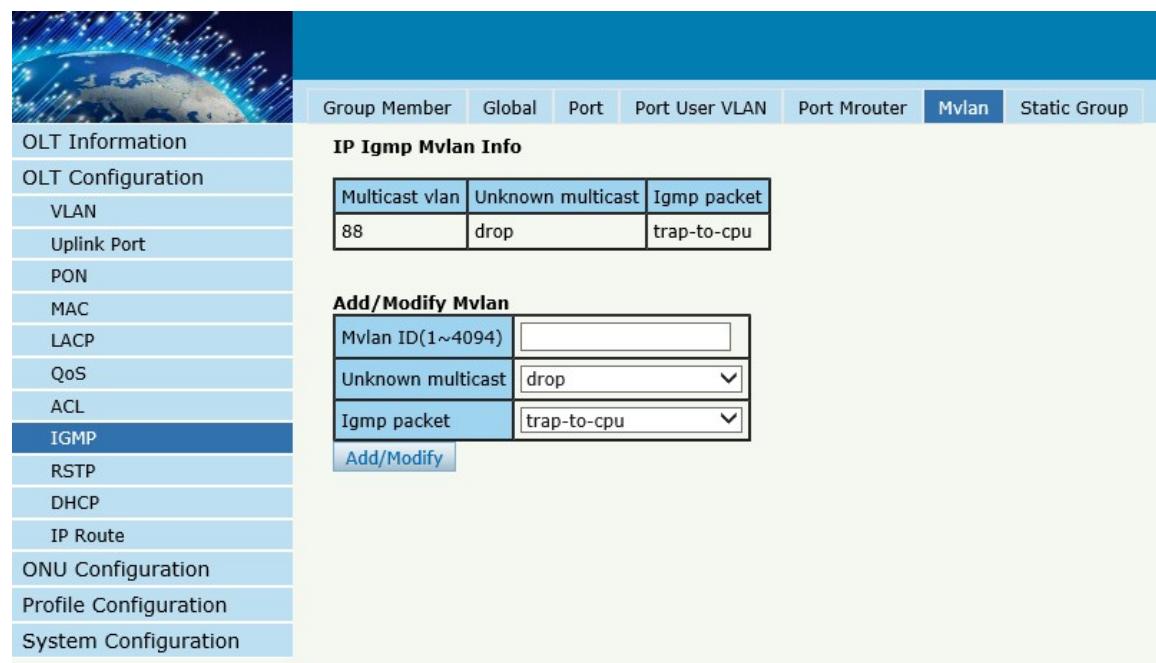


Figure 3-21: IGMP MVLAN

3.8.7 Static Group

OLT Configuration →IGMP→Static Group

This configuration is used to bind multicast IP address and VLAN ID.

The screenshot shows a network management interface with a sidebar on the left containing various configuration tabs: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, **IGMP**, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main panel has a header with tabs: Group Member, Global, Port, Port User VLAN, Port Mrouter, Mvlan, and **Static Group**. Below the header, there is a section titled "Add Static Group" with fields for Port ID (PON1), IP Address (empty), and User VLAN ID (1). An "Add" button is present. Below this is a "Static Group Table" with a single row showing PON7, 239.1.1.1, 1010, and a delete icon. The entire interface has a blue and white color scheme.

Figure 3-22: IGMP Static Group

3.9 RSTP

Spanning Tree Protocol is layer2 protocol, which is used to eliminate network loop by blocking network redundant links selectively. It has the feature of link backup as well.

3.9.1 Information

OLT Configuration→RSTP→Information

Global information mainly displays RSTP parameters of root bridge device.



The interface shows a sidebar on the left with various configuration tabs: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP (which is selected and highlighted in blue), DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration.

The main content area has three tabs at the top: Information, Global, and Port. The Information tab is selected.

RSTP Information

| | Root | Bridge |
|---------------|-------------------|-------------------|
| Cost | 0 | |
| Port | CPU | |
| Priority | 32768 | 32768 |
| MAC Address | 80:14:A8:75:83:AD | 80:14:A8:75:83:AD |
| Hello Time | 2s | 2s |
| Max Age | 20s | 20s |
| Forward Delay | 15s | 15s |

RSTP Port Status

| Port ID | Role | State | Cost | Priority | Point To Point |
|---------|--------|------------|--------|----------|----------------|
| GE12 | Design | Forwarding | 200000 | 128 | Enable |

[Refresh](#)

Figure 3-23:RSTP Information

3.9.2 Global

OLT Configuration→RSTP→Global

This configuration is used to set RSTP parameters of the device, which contains RSTP switch, priority, hello time, max age, forward delay and MAC address.

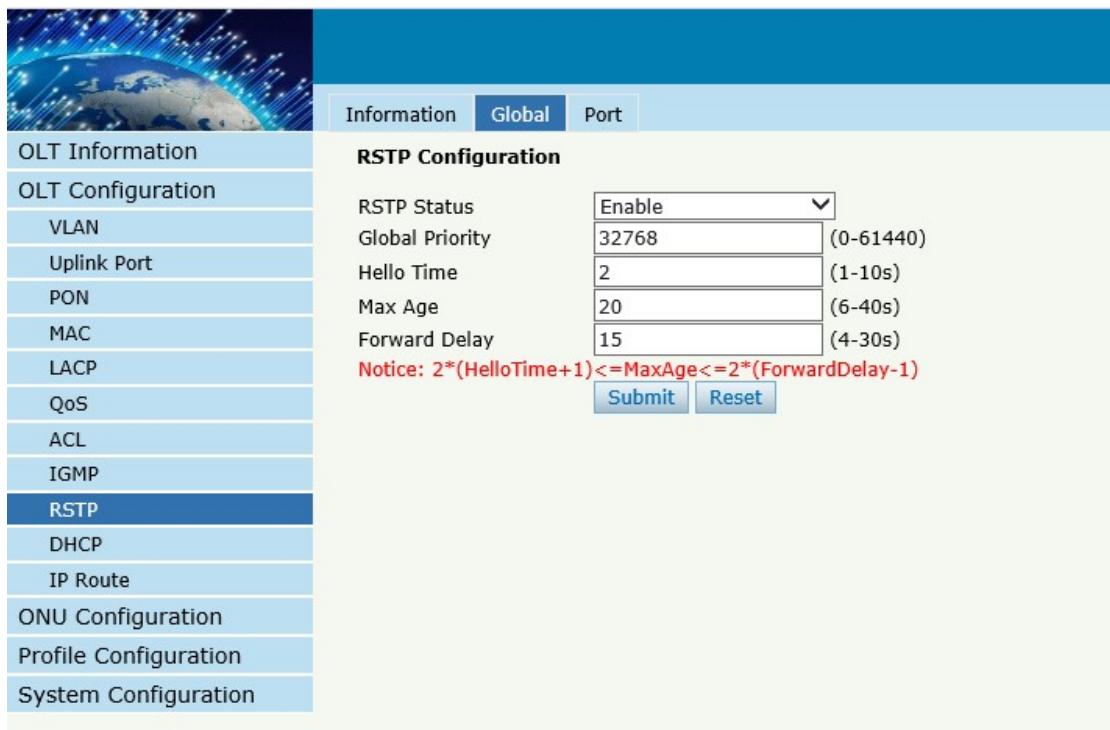


Figure 3-24: RSTP Global Setup

3.9.3 Port

OLT Configuration→RSTP→Port .

This user interface is used to set port RSTP parameters which contain RSTP switch, priority, cost, edge port and p2p port.



The interface shows a sidebar with navigation links: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP (which is selected), DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration.

RSTP Port Configuration

| Port ID | Status | Priority (0-255) | Cost (1-200000000) | OperEdge | Point To Point |
|---------|-------------------------------------|------------------|--------------------|-------------------------------------|-------------------------------------|
| GE1 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE2 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE3 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE4 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE5 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE6 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE7 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE8 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE9 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE10 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE11 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE12 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE13 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE14 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE15 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GE16 | <input checked="" type="checkbox"/> | 128 | 200000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Buttons: Submit, Reset

Figure 3-25: RSTP Port Setting

3.10 DHCP

OLT can support the following DHCP functions.

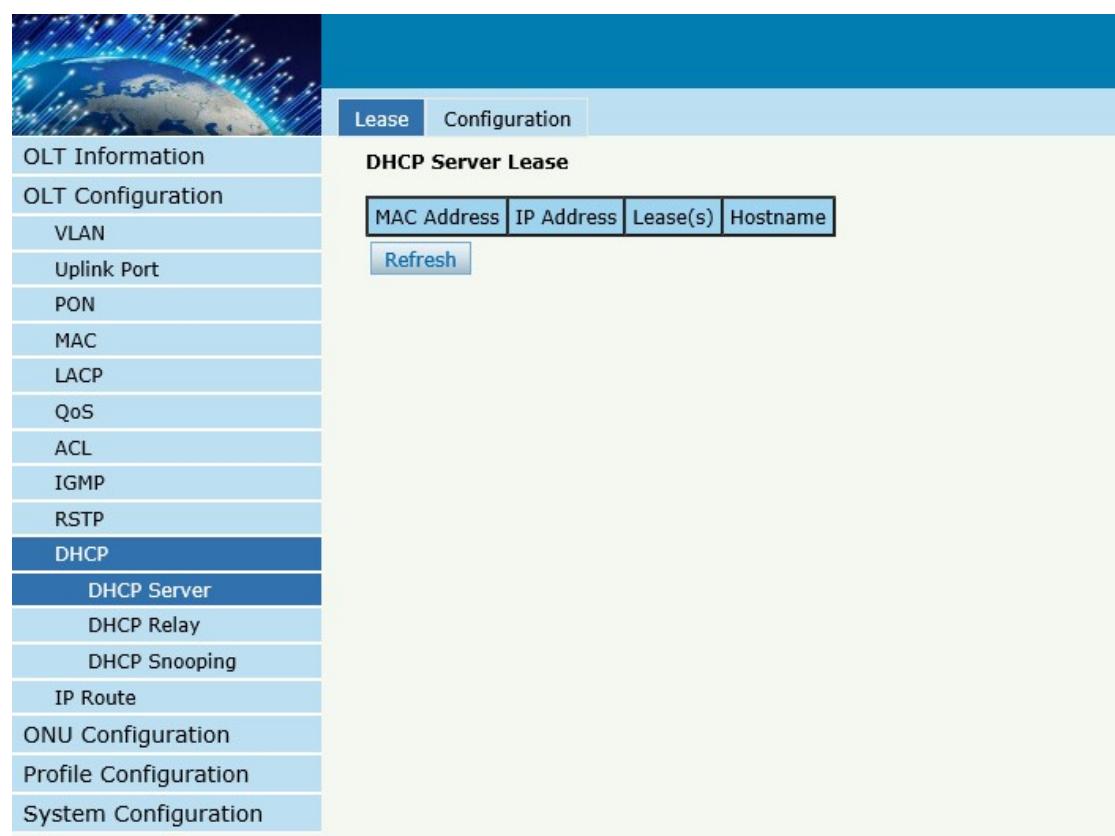
- DHCP Server
- DHCP Relay
- DHCP Snooping

3.10.1 DHCP Server

3.10.1.1 DHCP Lease

OLT Configuration → DHCP → DHCP Server → Lease

This table displays IP addresses assigned and their MAC addresses, lease time.



The screenshot shows a web-based management interface for an OLT (Optical Line Terminal). The left sidebar contains a vertical list of configuration categories: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, DHCP Server (which is selected and highlighted in blue), DHCP Relay, DHCP Snooping, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main content area has a header with tabs for 'Lease' (selected) and 'Configuration'. Below the tabs is a section titled 'DHCP Server Lease' with a table header row containing 'MAC Address', 'IP Address', 'Lease(s)', and 'Hostname'. A 'Refresh' button is located below the table.

Figure 3-26: DHCP Lease

3.10.1.2 DHCP Configuration

OLT Configuration → DHCP → DHCP Server → Configuration

Sometimes the devices need dynamic IP addresses, but there is no special

DHCP server in network. These configurations can solve the problem.

OLT will be a DHCP server in network and assign IP addresses to other devices.

Before enabling DHCP server, you must configure IP address for the VLAN.

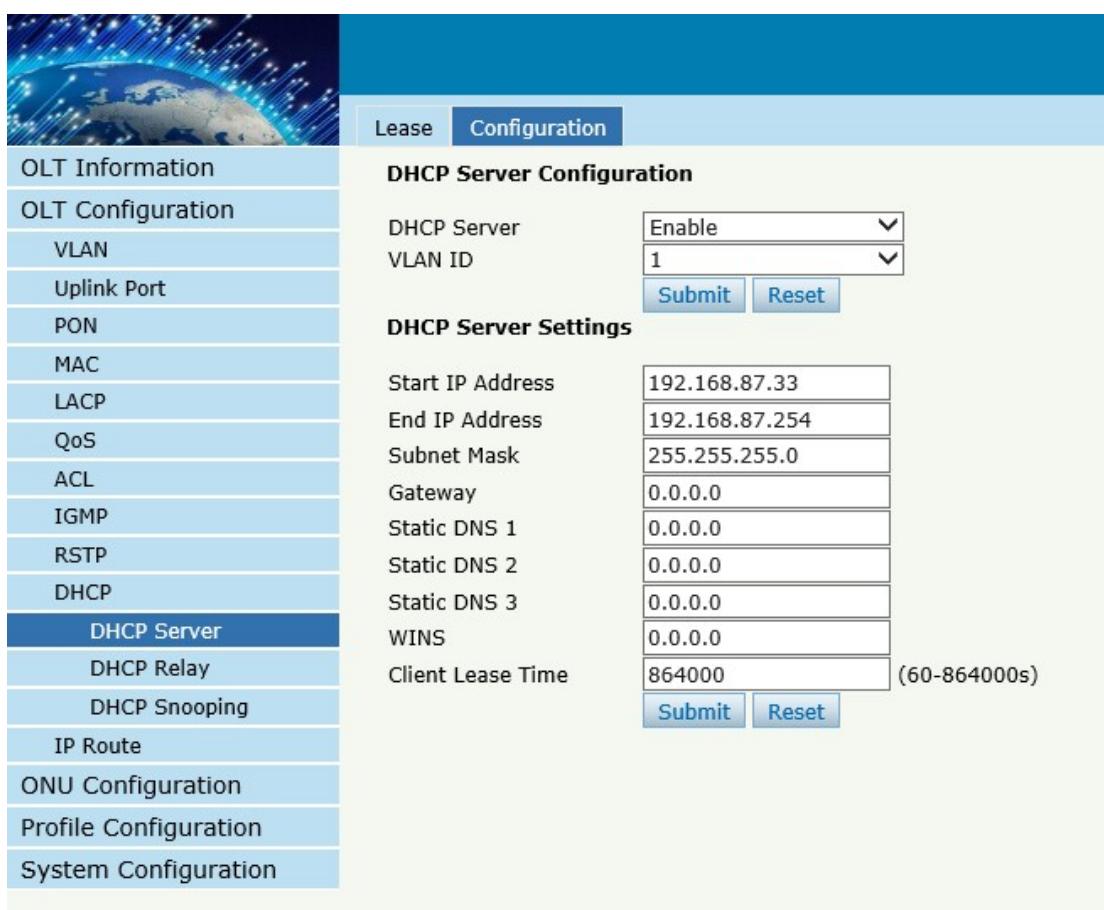


Figure 3-27:DHCP Configuration

3.10.2 DHCP Relay

3.10.2.1 DHCP Relay Configuration

OLT Configuration→DHCP→DHCP Relay

Because the DHCP service exists in one broadcast domain, the server and the client are usually in the same network segment. DHCP relay can solve the issue that DHCP server and client do not exist in the same network segment.

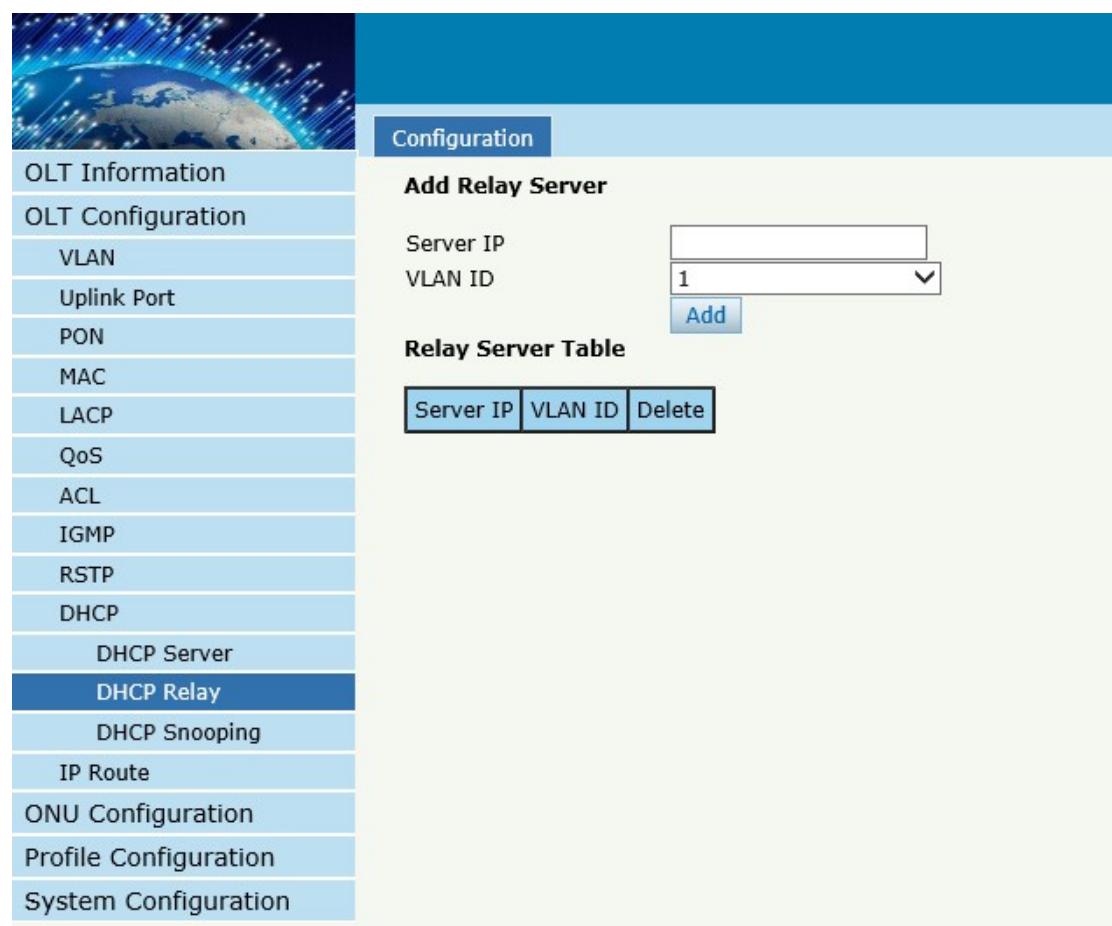


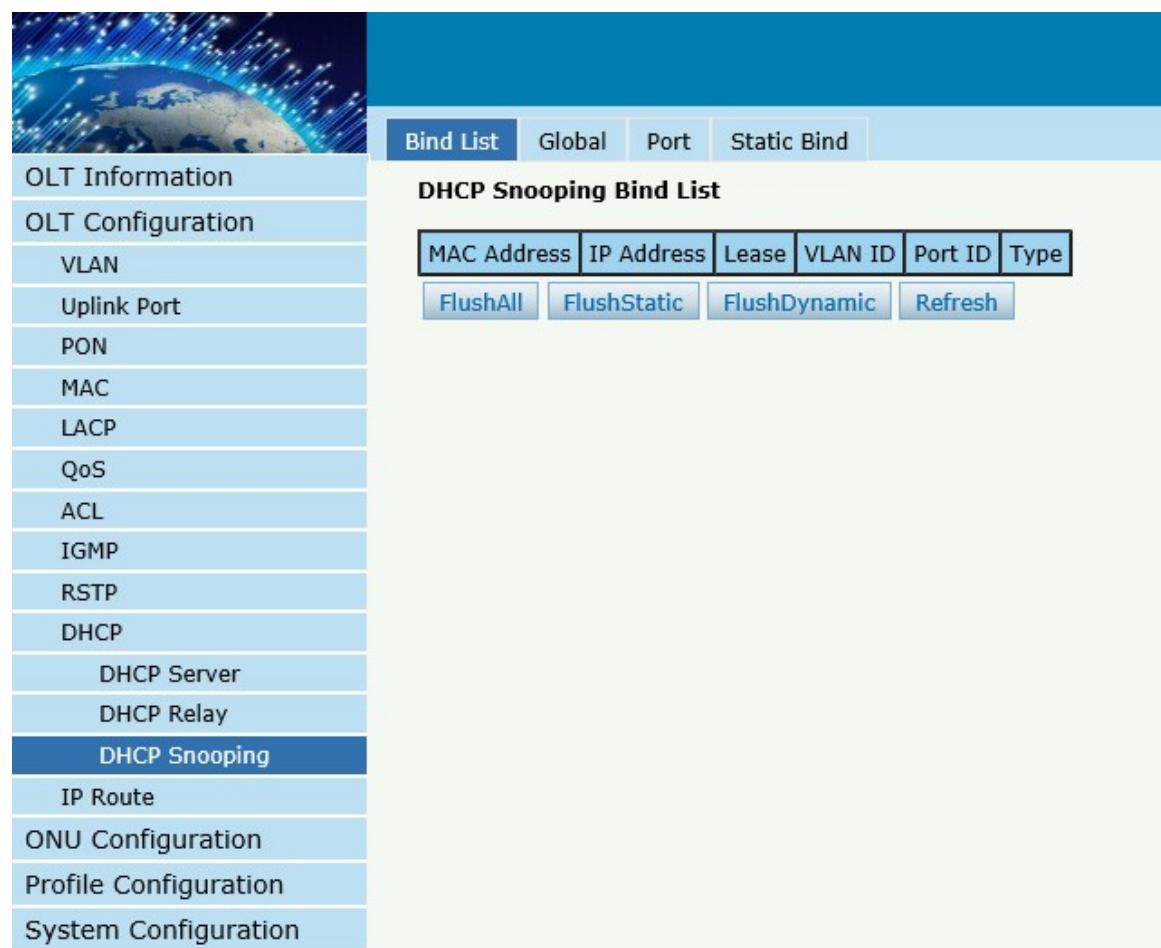
Figure 3-28:DHCP Relay Configuration

3.10.3 DHCP Snooping

3.10.3.1 DHCP Snooping Bind List

OLT Configuration→DHCP→DHCP Snooping→Bind List

The static bind of the DHCP Snooping will be shown ,



The screenshot shows a web-based management interface for an OLT. On the left is a vertical navigation menu with the following items:

- OLT Information
- OLT Configuration
- VLAN
- Uplink Port
- PON
- MAC
- LACP
- QoS
- ACL
- IGMP
- RSTP
- DHCP
- DHCP Server
- DHCP Relay
- DHCP Snooping** (This item is selected)
- IP Route
- ONU Configuration
- Profile Configuration
- System Configuration

The main content area has a blue header bar with tabs: Bind List, Global, Port, and Static Bind. The Bind List tab is active. Below the header is a sub-header "DHCP Snooping Bind List". A table header row contains columns for MAC Address, IP Address, Lease, VLAN ID, Port ID, and Type. Below the table are four buttons: FlushAll, FlushStatic, FlushDynamic, and Refresh.

Figure 3-29:DHCP Snooping Bind List

3.10.3.2 Global

OLT Configuration→DHCP→DHCP Snooping→Global

DHCP Snooping is used to prevent the DHCP message attacking and guarantee network to get a correct IP address.

DHCP snooping global configuration mainly contains option 82 settings, DHCP traffic rate limit and snooping VLAN.

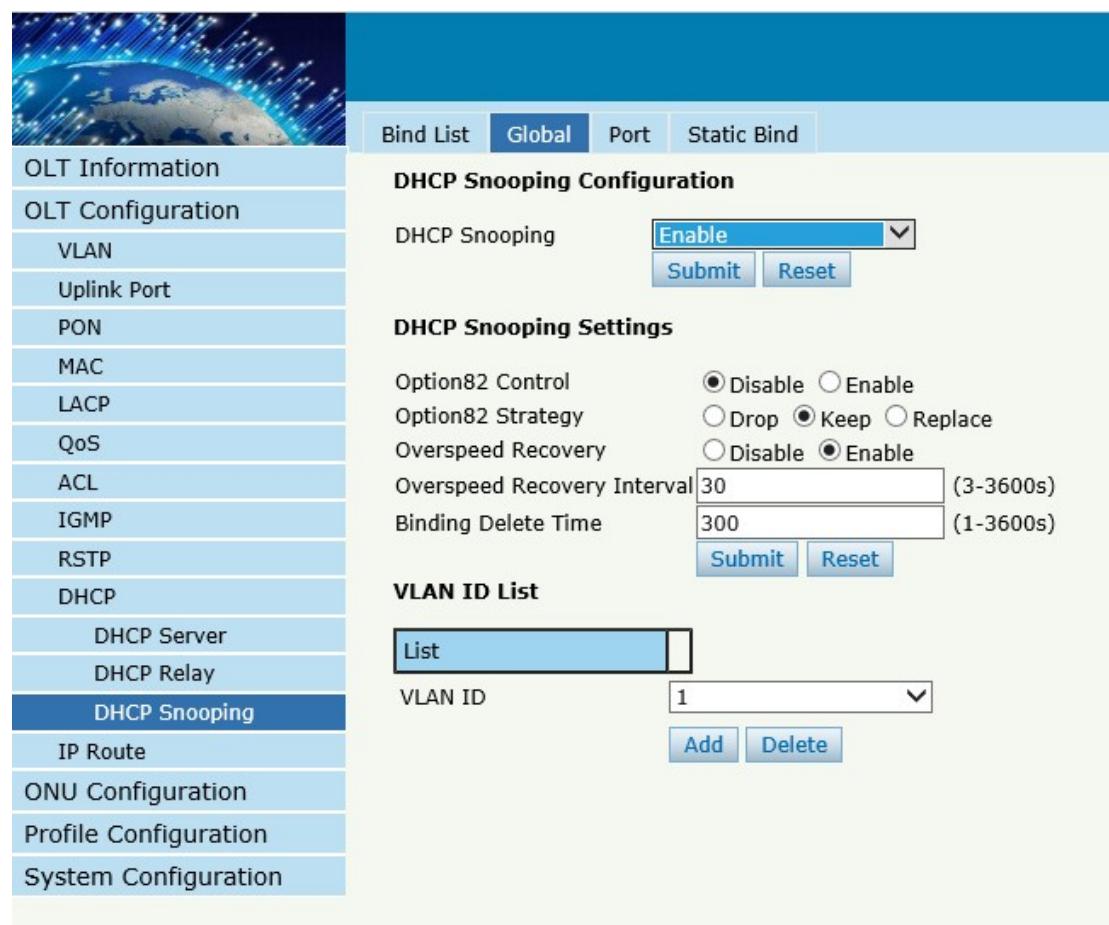


Figure 3-30:DHCP Snooping Global

3.10.3.3 Port

OLT Configuration→DHCP→DHCP Snooping→Port

This user interface is used to configure DHCP snooping parameters of ports which contain port type, option 82 parameters and rate limit.

All the ports are untrust ports by default. Option82 parameters, “Option 82 Circuit ID” and “Option 82 Remote ID”, are effective for untrust ports. “Limit Rate” is the ports’ max speed of receiving DHCP packets.

| Port ID | Type | Option82 Circuit ID | Option82 Remote ID | Limit Rate(0-4096pps) |
|---------|---------|---------------------|--------------------|-----------------------|
| GE1 | Untrust | | | 0 |
| GE2 | Untrust | | | 0 |
| GE3 | Untrust | | | 0 |
| GE4 | Untrust | | | 0 |
| GE5 | Untrust | | | 0 |
| GE6 | Untrust | | | 0 |
| GE7 | Untrust | | | 0 |
| GE8 | Untrust | | | 0 |
| GE9 | Untrust | | | 0 |
| GE10 | Untrust | | | 0 |
| GE11 | Untrust | | | 0 |
| GE12 | Untrust | | | 0 |
| GE13 | Untrust | | | 0 |
| GE14 | Untrust | | | 0 |
| GE15 | Untrust | | | 0 |
| GE16 | Untrust | | | 0 |
| PON | Untrust | | | 0 |

Figure 3-31:DHCP Snooping Port Setup

3.10.3.4 Static Bind

OLT Configuration → DHCP → DHCP Snooping → Static Bind

DHCP snooping binding is useful when a host needs a fixed IP address assigned by DHCP server from the specific port.

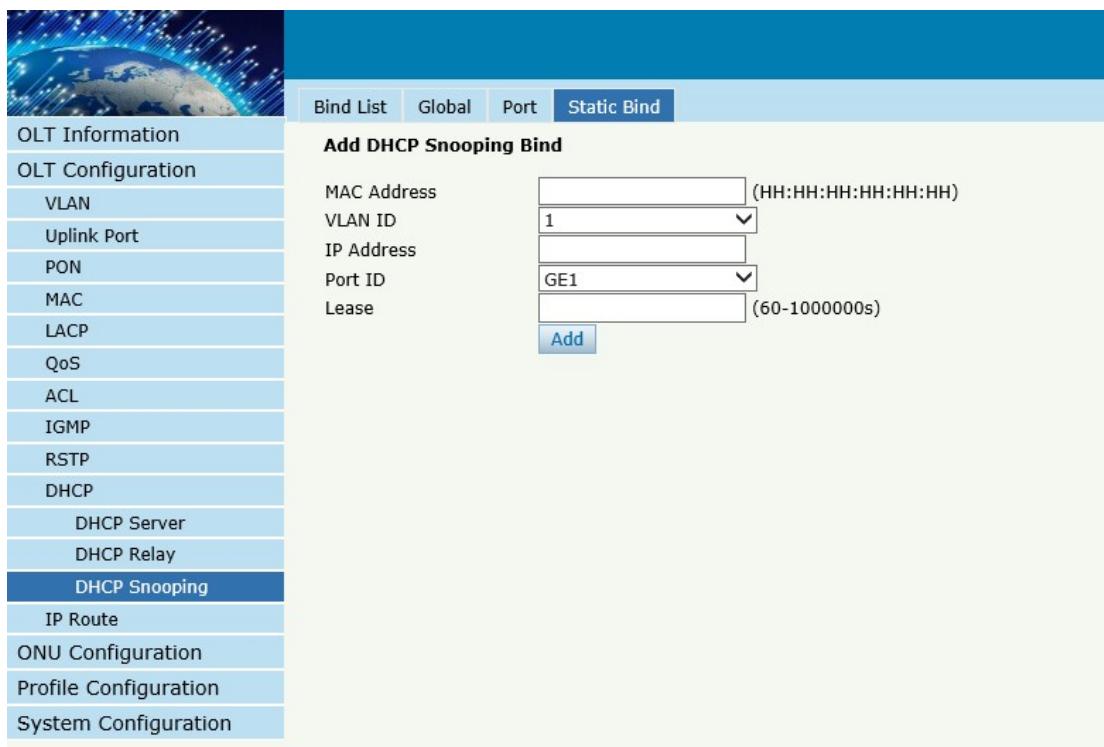


Figure 3-32 DHCP Snooping Static Bind

3.11 IP Route

3.11.1 VLAN IP

OLT Configuration → IP Route → VLAN IP

This configuration is used to configure IP address for VLAN. When the VLAN is added to a port, you can access OLT by the IP address from the port.

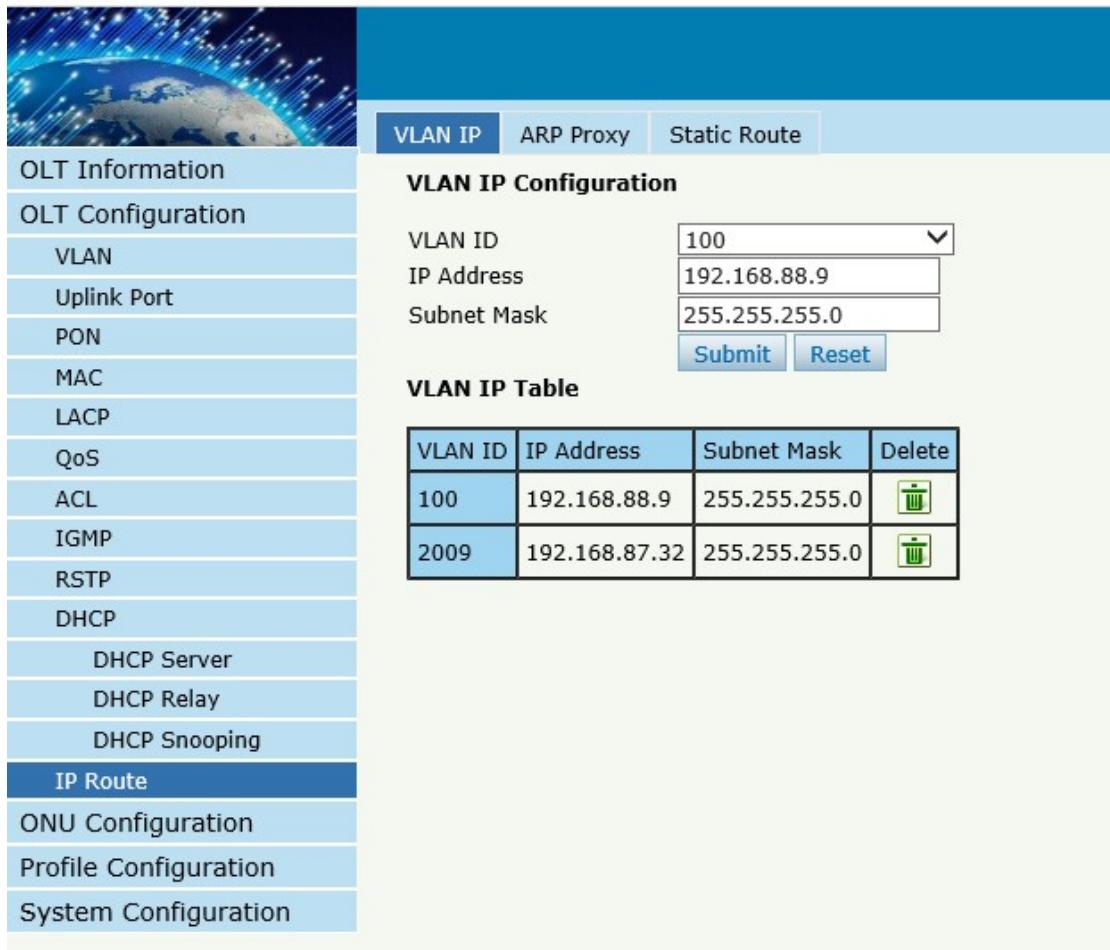


Figure 3-33: VLAN IP

3.11.2 ARP Proxy

OLT Configuration → IP Route → ARP Proxy

ARP Proxy is a technique by which a device on a given network answers the ARP queries for a network address that is not on that network. The ARP Proxy is aware of the location of the traffic's destination, and offers its own MAC address as (ostensibly final) destination. The "captured" traffic is then typically routed by the Proxy to the intended destination via another interface or via a tunnel.

The process which results in the node responding with its own MAC address to an ARP request for a different IP address for proxying purposes is sometimes referred to as 'publishing'.

| VLAN ID | ARP Proxy Status |
|---------|------------------|
| 1 | disable |
| 88 | enable |
| 100 | disable |
| 200 | disable |
| 555 | disable |
| 1010 | disable |
| 1256 | disable |
| 2009 | disable |
| 3434 | disable |

Figure 3-34: ARP proxy configuration

3.11.3 Static Route

OLT Configuration → IP Route → Static Route

Static route is a form of routing that a router uses a manually-configured routing entry. In many cases, static routes are manually configured by a network administrator. Unlike dynamic routing, static routes are fixed and

do not change if the network is changed or reconfigured.

The OLT only supports static route. After configured VLAN IP address, add static routes to make the network on the different network segment communicate with each other.

The screenshot shows the configuration interface for an Optical Line Terminal (OLT). On the left, there is a vertical sidebar with various configuration tabs: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, DHCP Server, DHCP Relay, DHCP Snooping, IP Route (which is selected), ONU Configuration, Profile Configuration, and System Configuration. The main area has a blue header bar with tabs for VLAN IP, ARP Proxy, and Static Route. The Static Route tab is active. Below the header, there is a section titled "Add Static Route" with fields for Destination IP, Destination Mask, and Gateway, followed by an "Add" button. To the right of this is a "Static Route Table" containing three rows of data:

| Destination IP | Destination Mask | Gateway | Delete |
|----------------|------------------|--------------|--------|
| 191.2.16.0 | 255.255.255.0 | 192.168.3.2 | |
| 192.22.66.0 | 255.255.255.0 | 192.168.66.3 | |
| 192.168.10.0 | 255.255.255.0 | 192.168.10.1 | |

Figure 3-35: Static Route

Chapter 4 ONU Configuration

This chapter is about the ONU management by OLT.

4.1 ONU AuthList

4.1.1 ONU Status

ONU Configuration→ONU AuthList→ONU Status

Select PON port ID, all ONUs will be displayed in this interface.

You can check ONU Admin state、OMCC state and phase state.

If the phase state is working ,this ONU is registered successfully

The screenshot shows a web-based network management interface for an Optical Line Terminal (OLT). On the left, a vertical sidebar lists various configuration options: OLT Information, OLT Configuration, ONU Configuration, ONU AuthList (which is highlighted in blue), ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The main content area has a blue header bar with tabs: ONU Status (selected), ONU List, and ONU Manual Add. Below the header is a section titled "ONU Status Info" with a dropdown menu set to "PON2". A table displays 11 entries, each representing an ONU with its ID, Admin State, OMCC State, and Phase State. All ONUs listed are currently enabled and working. At the bottom of the table is a blue "Refresh" button.

| ONU ID | Admin State | OMCC State | Phase State |
|------------|-------------|------------|-------------|
| GPON0/2:1 | Enable | Enable | working |
| GPON0/2:2 | Enable | Enable | working |
| GPON0/2:3 | Enable | Disable | Offline |
| GPON0/2:4 | Enable | Disable | Offline |
| GPON0/2:5 | Enable | Disable | Offline |
| GPON0/2:7 | Enable | Disable | Offline |
| GPON0/2:8 | Enable | Disable | Offline |
| GPON0/2:9 | Enable | Disable | Offline |
| GPON0/2:10 | Enable | Disable | Offline |
| GPON0/2:11 | Enable | Disable | Offline |

Figure 4-1 ONU Status

4.1.2 ONU List

ONU Configuration→ONU AuthList→ONU List

Select PON port ID, all ONUs will be displayed in this interface. You can check ONU using profile 、 Registration mode and do some operations to every ONU.

ONU Status ONU List ONU Manual Add

ONU Authentication Info

Port ID: PON2

| ONU ID | ONU Profile | Auth Mode | Auth Info | Action |
|------------|-------------|-----------|--------------|--|
| GPONO/2:1 | hgu | Sn | RTKG111170B0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:2 | hgu | Sn | RTKG00007070 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:3 | hgu | Sn | RTKG00007060 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:4 | hgu | Sn | RTKG11117160 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:5 | hgu | Sn | RTKG111170F0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:7 | sfu | Sn | RTKG111170C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:8 | hgu | Sn | RTKG11117100 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:9 | hgu | Sn | RTKG11117120 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:10 | hgu | Sn | RTKG000072C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:11 | hgu | Sn | RTKG11117210 | Delete Config Modify Optical Info Detail Info Reboot |

[Delete All](#) [Refresh](#)

Figure 4-2 ONU List

4.1.2.1 Delete

ONU Configuration→ONU AuthList→ONU List

Delete ONU which you selected, the ONU will be deleted and the registration failed

ONU Status ONU List ONU Manual Add

ONU Authentication Info

Port ID: PON2

| ONU ID | ONU Profile | Auth Mode | Auth Info | Action |
|-----------|-------------|-----------|--------------|--|
| GPONO/2:1 | hgu | Sn | RTKG111170B0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:2 | hgu | Sn | RTKG00007070 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:3 | hgu | Sn | RTKG00007060 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:4 | hgu | Sn | RTKG11117160 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:5 | hgu | Sn | RTKG111170F0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:7 | sfu | Sn | RTKG111170C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPONO/2:8 | hgu | Sn | RTKG11117100 | Delete Config Modify Optical Info Detail Info Reboot |

[Delete All](#) [Refresh](#)

Figure 4-3Delete ONU

4.1.2.2 Config

ONU Configuration→ONU AuthList→ONU List

Configure ONU parameter information which you selected,

The screenshot shows a web-based management interface for an Optical Line Terminal (OLT). The left sidebar contains navigation links for OLT Information, OLT Configuration, ONU Configuration, ONU AuthList (which is highlighted), ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The main content area has tabs for ONU Status, ONU List (which is active and highlighted in blue), and ONU Manual Add. Under the ONU List tab, there is a sub-section titled 'ONU Authentication Info'. It includes a dropdown menu for 'Port ID' set to 'PON2'. Below this is a table with columns: ONU ID, ONU Profile, Auth Mode, Auth Info, and Action. The table lists eight entries for GPON ports 0/2:1 through 0/2:8. Each entry in the 'Action' column contains several hyperlinks: Delete, Config, Modify, Optical Info, Detail Info, and Reboot. The 'Config' link for the first row (GPON0/2:1) is circled in red, and a pink arrow points to it from the right side of the screen. At the bottom of the table are buttons for 'Delete All' and 'Refresh'.

Figure 4-4 Configure ONU

Create a tcont ID and bind DBA templates

This screenshot shows the 'ONU Tcont Info (PON:3 ONU:1)' configuration page. The left sidebar includes links for OLT Information, OLT Configuration, ONU Configuration, ONU AuthList (highlighted), ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The top navigation bar has tabs for ONU Status, ONU List (active), and ONU Manual Add. Below the tabs, there are filters for Tcont, Gport, Service, Service Port, PortVlan, Multicast Vlan, Multicast Vlan Strip, Description, Port, and Iphost. The main content area displays a table with columns: Tcont ID, Name, DBA Profile, and Action. One row is shown with Tcont ID 1, Name tcont_1, DBA Profile 1g, and a 'Delete' link. Below the table is a 'Add ONU Tcont' form with fields for Tcont ID (set to 1) and DBA Profile Name (set to 1g), followed by a 'Commit' button.

Figure 4-5 Create Tcont

Create a gemport ID and bind tcont ID

ONU Gempot Info (PON:3 ONU:1)

| Gempot ID | Name | Tcont | Cos | Upstream | Downstream | State | UpQueueMapId | DownQueueMapId | Action |
|-----------|---------|-------|-----|----------|------------|--------|--------------|----------------|------------------------|
| 1 | default | 1 | N/A | default | default | Enable | N/A | N/A | Delete |

Add ONU Gempot

| | |
|--------------------|-----------|
| Gempot ID | 2 |
| TcontID | 1 |
| Gempot Name | gem_2 |
| Cos | N/A (0-7) |
| Upstream Traffic | default |
| Downstream Traffic | default |
| UpQueueMapId | N/A (0-3) |
| DownQueueMapId | N/A (0-7) |
| State | Enable |

[Commit](#)

Figure 4-6 Create gempot

Create a service , Set the VLAN and VLAN mode and let it bind one gempot ID.

ONU Service Info (PON:3 ONU:1)

| Service Name | Gempot | Vlan Mode | Vlan List | Cos List | Port | Action |
|--------------|--------|-----------|-----------|----------|------|------------------------|
| aa | 1 | Tag | 1010 | N/A | N/A | Delete |

Add ONU Service

| | |
|--------------|------------------------|
| Service Name | <input type="text"/> |
| Gempot ID | 1 |
| Vlan Mode | Tag |
| Vlan List | (X,X or X-X;0 for all) |
| Cos List | N/A (X,X or X-X;) |
| Port Type | N/A |

[Commit](#)

Figure 4-7 Create service

Create a service port, Set the user VLAN and translate VLAN and let it bind one gempot ID.

Figure 4-8 create service port

Set the VLAN mode of the ONU's port.

Figure 4-9 configure port VLAN mode

Set the Multicast VLAN of ONU

Figure 4-10 configure multicast VLAN

Set the Multicast VLAN mode of ONU's port

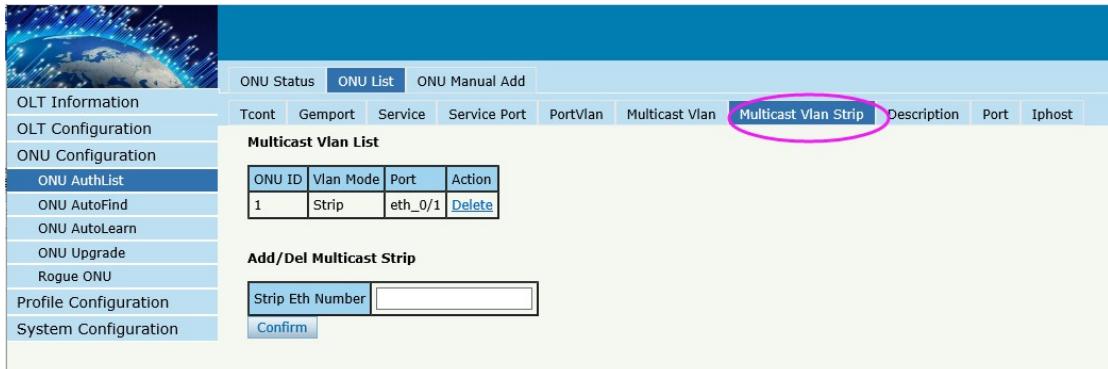


Figure 4-11 configure multicast VLAN mode

Description for ONU

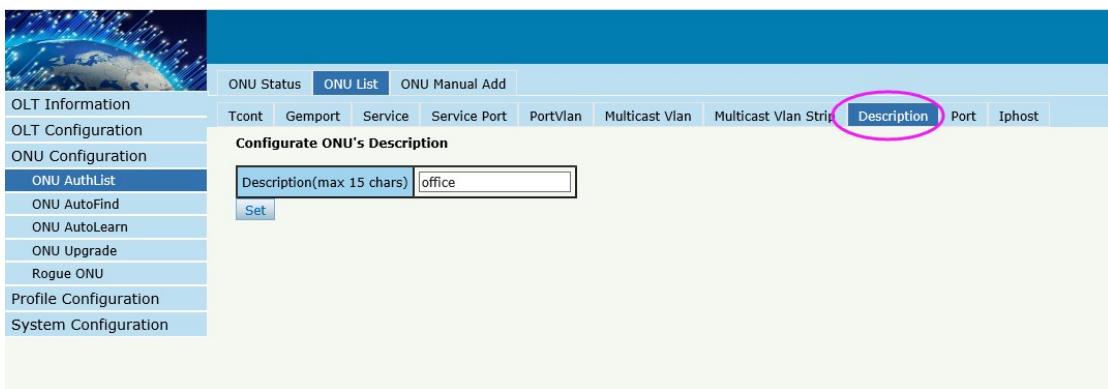


Figure 4-12 ONU's description

Port Basic State of ONU

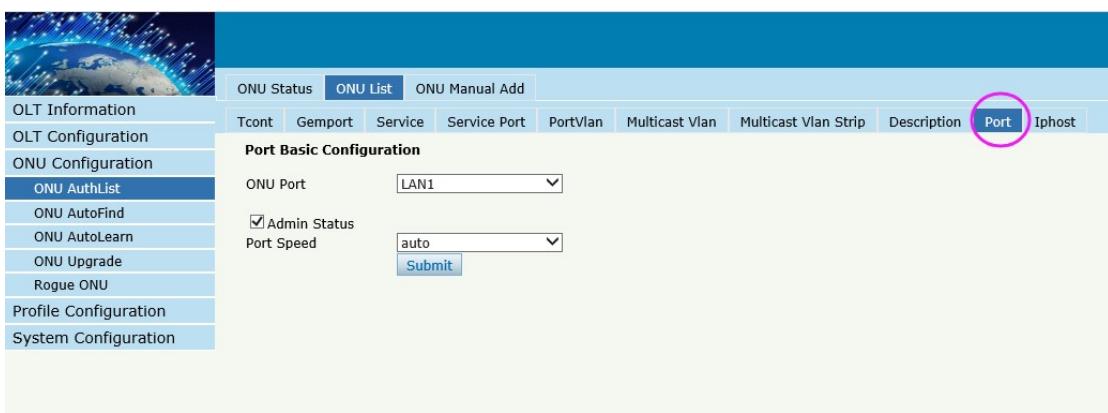


Figure 4-13 ONU's port state

Create Iphost for ONU wan connection.

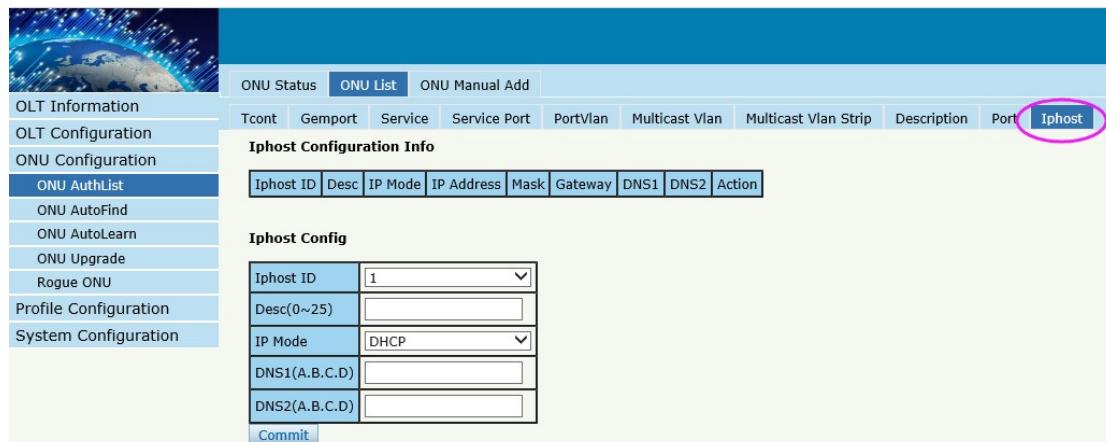


Figure 4-14 configure IPhost

4.1.2.3 Modify

ONU Configuration→ONU AuthList→ONU List

Modify SN or LOID of ONU which you selected,

| ONU ID | ONU Profile | Auth Mode | Auth Info | Action |
|-----------|-------------|-----------|--------------|--|
| GPON0/2:1 | hgu | Sn | RTKG111170B0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:2 | hgu | Sn | RTKG00007070 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:3 | hgu | Sn | RTKG00007060 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:4 | hgu | Sn | RTKG11117160 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:5 | hgu | Sn | RTKG111170F0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:7 | sfu | Sn | RTKG111170C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:8 | hgu | Sn | RTKG11117100 | Delete Config Modify Optical Info Detail Info Reboot |

[Delete All](#) [Refresh](#)

ONU Modify(PON:2 ONU1)

| | |
|------------------------|----|
| Auth Mode | Sn |
| ONU Sn | |
| Submit | |

Figure 4-15 Modify ONU Registration mode

4.1.2.4 Optical Info

ONU Configuration→ONU AuthList→ONU List

Check the Optical Info of ONU which you selected,

The screenshot shows a web-based network configuration interface. On the left, there's a sidebar with links like OLT Information, OLT Configuration, ONU Configuration, ONU AuthList (which is highlighted in blue), ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The main area has tabs at the top: ONU Status, ONU List (which is highlighted in blue), and ONU Manual Add. Below that, it says 'ONU Authentication Info' and shows a dropdown for 'Port ID' set to 'PON2'. The main content is a table with columns: ONU ID, ONU Profile, Auth Mode, Auth Info, and Action. There are 8 rows of data. The first row (GPON0/2:1) has an 'Action' column with several links: Delete, Config, Modify, Optical Info (which is circled in pink), Detail Info, and Reboot. A pink arrow points from the text above to this 'Optical Info' link. At the bottom of the table are 'Delete All' and 'Refresh' buttons.

| ONU ID | ONU Profile | Auth Mode | Auth Info | Action |
|-----------|-------------|-----------|--------------|--|
| GPON0/2:1 | hgu | Sn | RTKG111170B0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:2 | hgu | Sn | RTKG00007070 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:3 | hgu | Sn | RTKG00007060 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:4 | hgu | Sn | RTKG11117160 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:5 | hgu | Sn | RTKG111170F0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:7 | sfu | Sn | RTKG111170C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:8 | hgu | Sn | RTKG11117100 | Delete Config Modify Optical Info Detail Info Reboot |

| ONU Optical Info | |
|----------------------------|---------------------|
| Interface | pon_0/1 |
| GEM_blocklen | 48 |
| Sf threshold | 5 |
| Sd threshold | 9 |
| Alarm | enable |
| Alarm disable interval | 0 |
| Total T-CONT number | 31 |
| Piggyback DBA rpt mode | mode0 only |
| Whole ONU DBA rpt mode | not support |
| Rx optical level | -19.102(dBm) |
| Lower rx optical threshold | ont internal policy |
| Upper rx optical threshold | ont internal policy |
| Tx optical level | 2.546(dBm) |
| Lower tx optical threshold | ont internal policy |
| Upper tx optical threshold | ont internal policy |
| ONU response time | 0 |
| Power feed voltage | 3.32(V) |
| Laser bias current | 14.900(mA) |
| Temperature | 46.758(C) |
| Back | |

Figure 4-16 Optical info of ONU

4.1.2.5 Detail Info

ONU Configuration→ONU AuthList→ONU List

Check the Detail Info of ONU which you selected,

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Status **ONU List** ONU Manual Add

ONU Authentication Info

Port ID: PON2

| ONU ID | ONU Profile | Auth Mode | Auth Info | Action |
|-----------|-------------|-----------|--------------|--|
| GPON0/2:1 | hgu | Sn | RTKG111170B0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:2 | hgu | Sn | RTKG00007070 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:3 | hgu | Sn | RTKG00007060 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:4 | hgu | Sn | RTKG11117160 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:5 | hgu | Sn | RTKG111170F0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:7 | sru | Sn | RTKG111170C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:8 | hgu | Sn | RTKG11117100 | Delete Config Modify Optical Info Detail Info Reboot |

[Delete All](#) [Refresh](#)

ONU Detail Info

| | |
|-----------------------------|--------------------------|
| Description | N/A |
| Vendor ID: | RTKG |
| Version: | RTL960x |
| SN: | RTKG111170b0 |
| Admin status: | unlock |
| Battery monitor: | false |
| Security mode: | aes |
| Product code: | 0 |
| Total priority queue num: | 127 |
| Total traffic schedule num: | 31 |
| Traffic management option: | priority-rate-controlled |
| Operate status: | enable |
| Equipment ID: | IGD |
| OMCC Version: | 128 |
| Security capability: | aes |
| Model: | IGD |
| Survival time: | N/A |
| TotalGemPortNum: | 127 |
| SysUpTime: | 87763.00 s |
| Region code: | N/A |
| Product SN: | N/A |
| Chip info: | 0 |

[Back](#)

Figure 4-17 Detail info of ONU

4.1.2.6 Reoot

ONU Configuration→ONU AuthList→ONU List

Reboot ONUwhich you selected,

The screenshot shows a web-based network management interface. On the left is a sidebar with links: OLT Information, OLT Configuration, ONU Configuration, ONU AuthList (which is highlighted in blue), ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The main content area has a header with tabs: ONU Status, ONU List (which is highlighted in blue), and ONU Manual Add. Below the header is a section titled "ONU Authentication Info". It includes a dropdown menu for "Port ID" set to "PON2". A table lists eight ONUs with columns: ONU ID, ONU Profile, Auth Mode, Auth Info, and Action. The "Action" column contains several hyperlinks: Delete, Config, Modify, Optical Info, Detail Info, and Reboot. A pink arrow points to the "Reboot" link for the first ONU entry (GPON0/2:1). At the bottom of the table are buttons for "Delete All" and "Refresh".

| ONU ID | ONU Profile | Auth Mode | Auth Info | Action |
|-----------|-------------|-----------|--------------|--|
| GPON0/2:1 | hgu | Sn | RTKG111170B0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:2 | hgu | Sn | RTKG00007070 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:3 | hgu | Sn | RTKG00007060 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:4 | hgu | Sn | RTKG11117160 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:5 | hgu | Sn | RTKG111170F0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:7 | sfu | Sn | RTKG111170C0 | Delete Config Modify Optical Info Detail Info Reboot |
| GPON0/2:8 | hgu | Sn | RTKG11117100 | Delete Config Modify Optical Info Detail Info Reboot |

Figure 4-18 reboot ONU

4.1.3 ONU Manual Add

ONU Configuration→ONU AuthList→ONU Manual Add

You can manually add a ONU to your chosen PON port. ONU will appear on the ONU list after you operated.

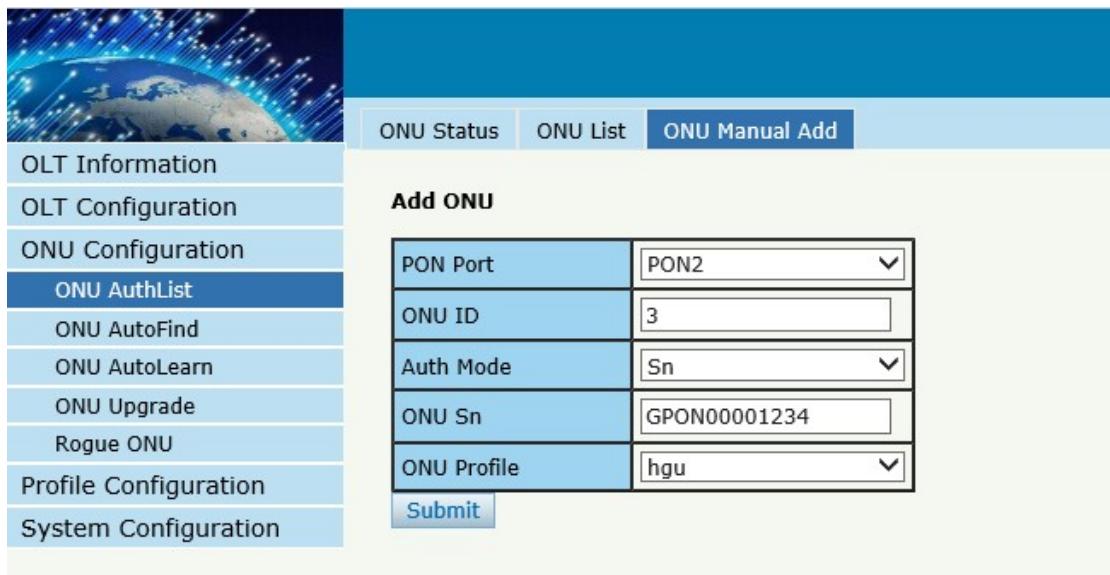


Figure 4-19 manually add a ONU

| ONU Status | ONU List | ONU Manual Add |
|--|-------------|----------------|
| ONU Authentication Info | | |
| Port ID | PON2 | |
| ONU ID | ONU Profile | Auth Mode |
| GPON0/2:1 | hgu | Sn |
| GPON0/2:3 | hgu | Sn |
| | | GPON00001234 |
| Delete Config Modify Optical Info Detail Info Reboot | | |
| Delete All Refresh | | |

Figure 4-19 ONU info

4.2 ONU AutoFind

Configuration→AutoFind

After selecting PON port number, all ONUs which are authenticated failed or not authenticated will be displayed in this interface. You can check the serial number of ONUs.

More information will be show under the ONU Detail menu.

The screenshot shows a web-based network management interface. On the left is a vertical sidebar with a globe icon at the top, followed by a list of navigation options:

- OLT Information
- OLT Configuration
- ONU Configuration
- ONU AuthList
- ONU AutoFind** (highlighted in blue)
- ONU AutoLearn
- ONU Upgrade
- Rogue ONU
- Profile Configuration
- System Configuration

The main content area is titled "Automatic Discovery" and contains a sub-section titled "Automatic Discovery". It includes a dropdown menu for "Port ID" set to "PON2" and a table showing discovered ONUs:

| ONU ID | Sn | State | Action |
|-----------|--------------|---------|---|
| GPON0/2:1 | RTKG111170B0 | Unknown | Add Detail Info |
| GPON0/2:2 | RTKG00007070 | Unknown | Add Detail Info |

A "Refresh" button is located below the table.

Figure 4-20 Authentication Mode

| Automatic Discovery Detail | | | | | | |
|----------------------------|--------------|------------|-------|--------|-------|---------|
| ONU ID | SN | PW | LOID | LOIDPW | Model | Version |
| 1 | RTKG111170B0 | 1234567890 | admin | admin | IGD | N/A |
| 2 | RTKG00007070 | 1234567890 | bjhj | nkjnk | IGD | N/A |

[Back](#)

Figure 4-21 Detail info

4.3 ONU AutoLearn

4.3.1 ONU AutoLearn

Configuration→AutoLearn→ONU AutoLearn

ONU can be auto authenticated after enabling PON port automatic learning.

| PON ID | Enable | Default ONU Profile |
|--------|---------|---------------------|
| PON1 | Disable | hgu |
| PON2 | Disable | hgu |
| PON3 | Disable | hgu |
| PON4 | Enable | sfu |
| PON5 | Enable | sfu |
| PON6 | Disable | hgu |
| PON7 | Disable | hgu |
| PON8 | Disable | hgu |

Figure 4-22 Automatic learn

4.3.2 ONU AutoBind

Configuration→AutoLearn→ONU AutoBind

Input the Equipment ID and bind the template you need

Note: you must build the template first

| Equipment ID | ONU Profile | Line Profile | Service Profile | Alarm Profile | Action |
|--------------|-------------|--------------|-----------------|---------------|------------------------|
| IDG | hgu | 1g | hgu | N/A | Delete |

Figure 4-23 Bind profile

4.4 ONU Upgrade

ONU upgrade by OLT

4.4.1 Upload Image

Upload ONU firmware image which you need, the image will upload to OLT's RAM

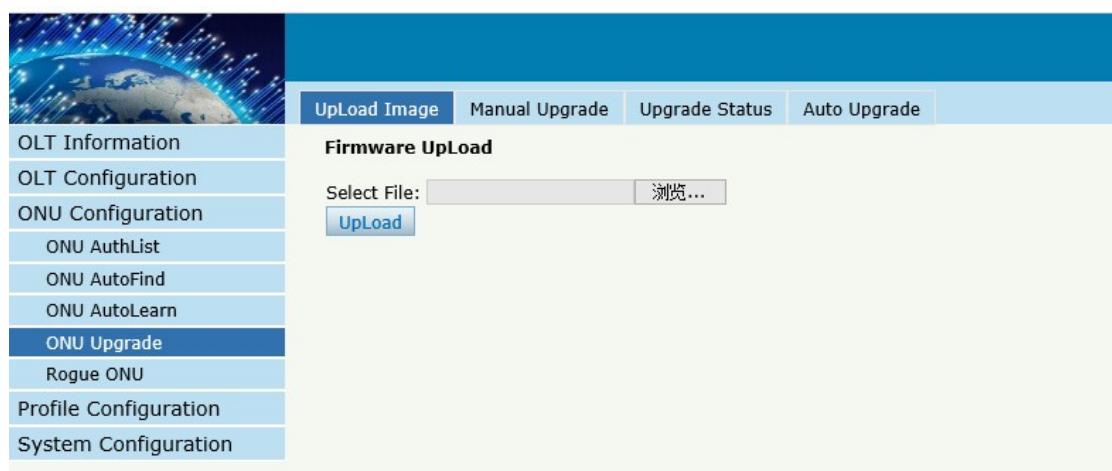


Figure 4-24 Upload image

If the operation is successful, the following will appear

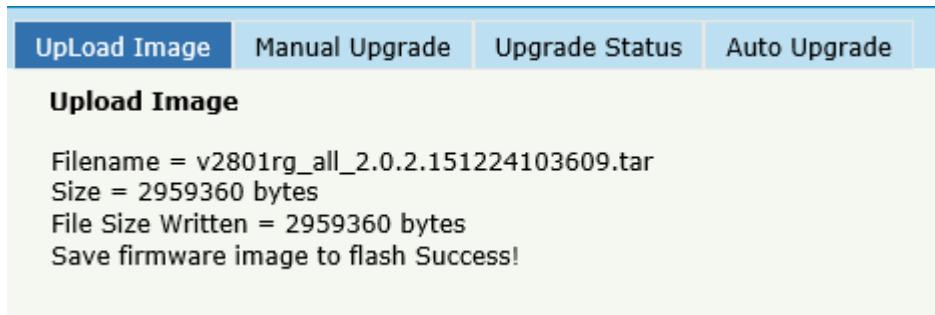


Figure 4-25 Upload info

4.4.2 Manual Upgrade

ONU Configuration→ONU Upgrade→Manual Upgrade

Select ONU which you need and click commit button

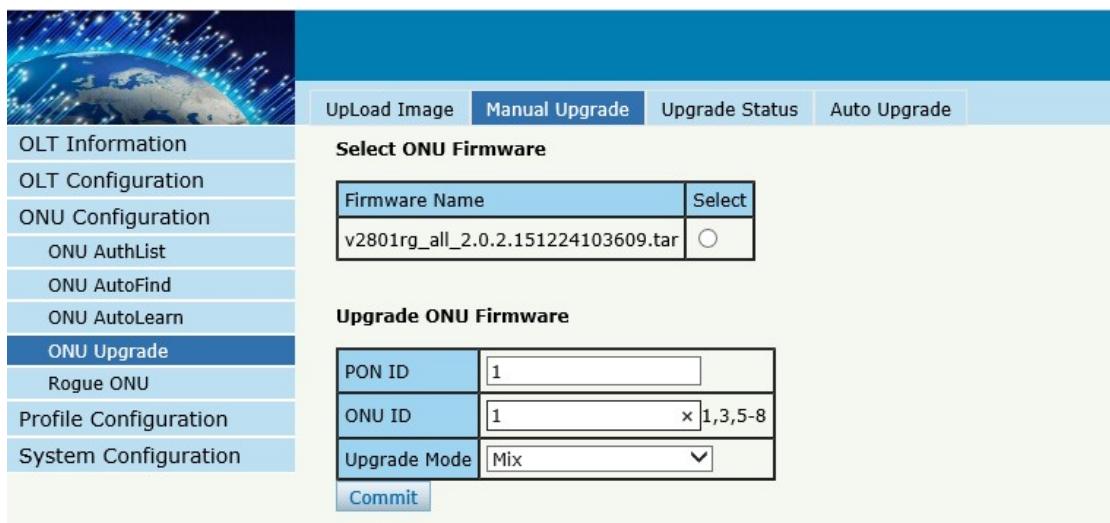


Figure 4-26 Manual Upgrade

4.4.3 Upgrade Status

ONU Configuration→ONU Upgrade→Upgrade Status

When ONU is upgrading, the list will be shown in this page.

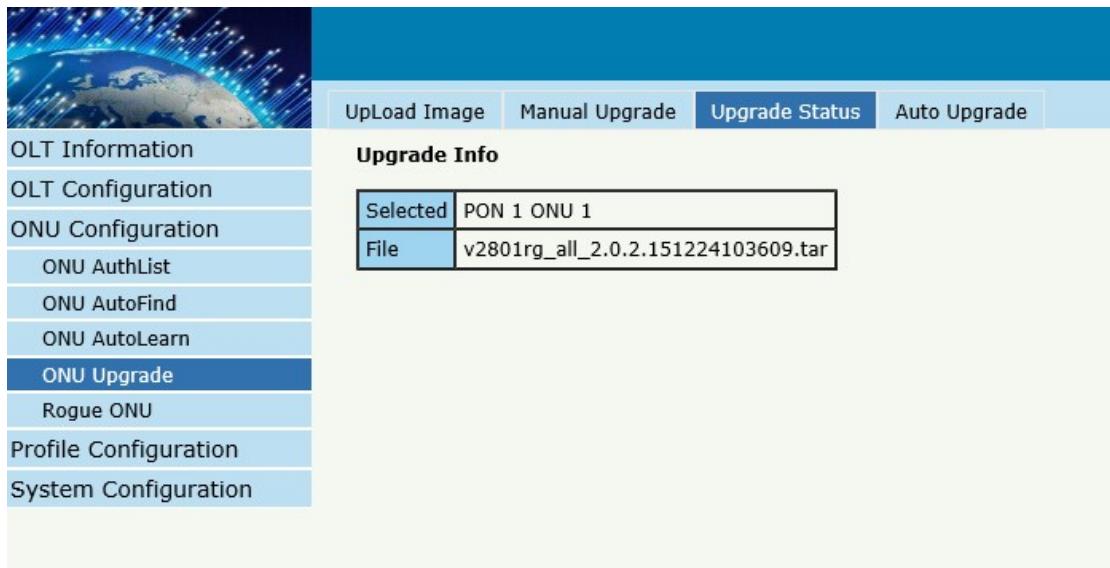


Figure 4-27 ONU Upgrade Status

4.3.4 Auto Upgrade

ONU Configuration→ONU Upgrade→Auto Upgrade

The ONU firmware will be saved in the OLT's RAM first, when the ONU come online, it will auto upgrade the firmware.

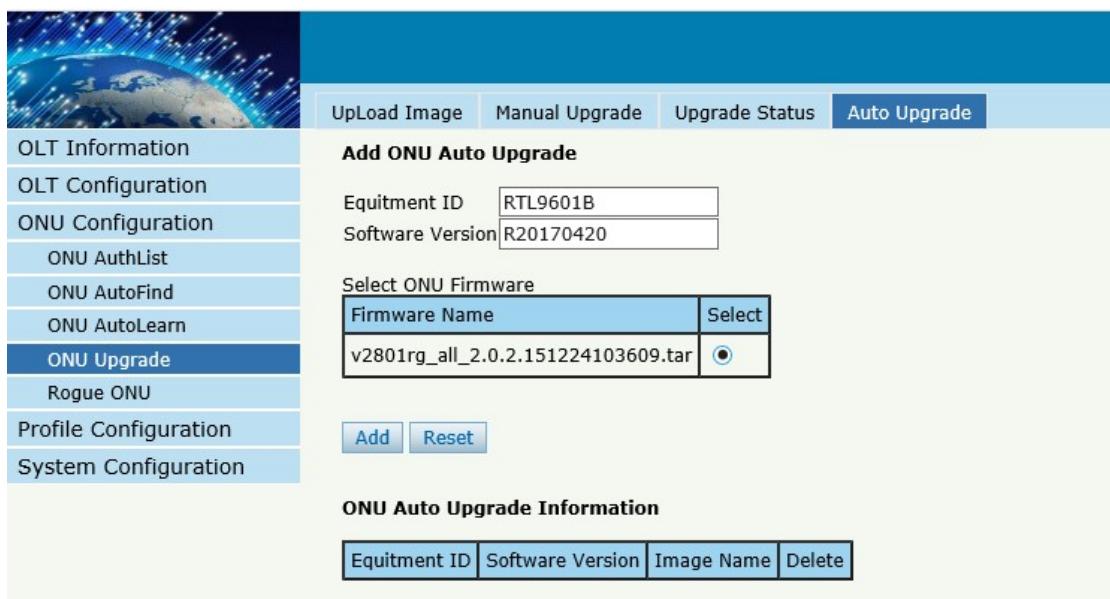
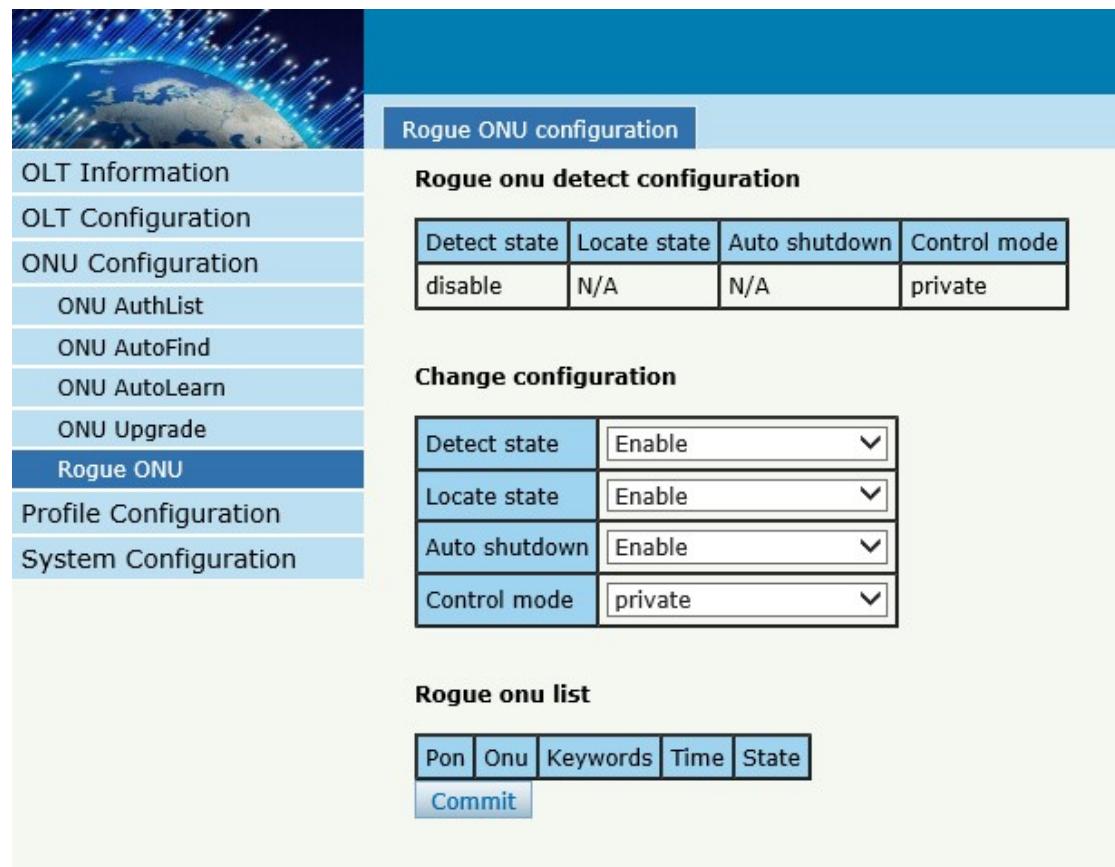


Figure 4-28 Auto Upgrade

4.5 Rogue ONU

ONU Configuration→Rogue ONU

Enable this function, If there is a rogue ONU, it will appear in the list



The screenshot shows a web-based management interface for an Optical Line Terminal (OLT). The left sidebar contains a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, ONU AuthList, ONU AutoFind, ONU AutoLearn, ONU Upgrade, **Rogue ONU**, Profile Configuration, and System Configuration. The 'Rogue ONU' item is highlighted with a blue background.

The main content area is titled 'Rogue ONU configuration'. It includes two sections: 'Rogue onu detect configuration' and 'Change configuration'. Both sections contain four configuration items:

| Detect state | Locate state | Auto shutdown | Control mode |
|--------------|--------------|---------------|--------------|
| disable | N/A | N/A | private |

Change configuration

| Detect state | Enable |
|---------------|---------|
| Locate state | Enable |
| Auto shutdown | Enable |
| Control mode | private |

Rogue onu list

| Pon | Onu | Keywords | Time | State |
|--------|-----|----------|------|-------|
| Commit | | | | |

Figure 4-29 Rogue ONU detect

Chapter 5 Profile Configuration

This chapter is about the ONU profile configuration. It is designed for batch ONU management by OLT.

5.1 ONU Profile

The Onu profile is used for onu authorization, and each ONU must specify only one ONU profile when authorized. The ONU profile specifies the capability of this ONU.

5.1.1 Information

Profile Configuration→ ONU profile→Information

The table displays ONU profile list. We can also do some operation, such delete and check details info.

| Profile ID | Profile Name | Max Tcont | Max GempPort | Max Veip | Action |
|------------|--------------|-----------|--------------|----------|--|
| 0 | default | 255 | 255 | 1 | Details Delete |
| 1 | hgu | 8 | 32 | 1 | Details Delete |
| 2 | sfu | 8 | 32 | 0 | Details Delete |
| 3 | 54y | 8 | 32 | 0 | Details Delete |

Figure 5-1 ONU profile list

5.1.2 Add profile

Create a new ONU profile what you need , Generally, ONU has two modes.

SFU mode (only using bridge mode):

The screenshot shows the 'ONU Profile Modify' configuration page. The left sidebar lists various profiles: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile (selected), DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Bind Profile, and System Configuration. The main area is titled 'ONU Profile Modify' and contains a table with the following data:

| | |
|-------------------------|---------|
| Profile ID | 4 |
| Profile Name | 4GE |
| Description | SFU |
| Max tcont | 8 |
| Max gempore | 32 |
| Max eth | 4 |
| Max pots | 0 |
| Max Iphost | 2 |
| Max Ipv6host | 0 |
| Max veip | 0 |
| Service ability | Disable |
| Service ability N:1 | yes |
| Service ability 1:M | yes |
| Service ability 1:P | yes |
| Wifi mgmt via non OMCI | Disable |
| Omci send mode | async |
| Default multicast range | none |

A pink circle highlights the 'Max eth' field.

Figure 5-2 Add SFU profile

HGU mode (with the routing wan connection mode)

The screenshot shows the 'ONU Profile Modify' configuration page. The left sidebar lists various profiles: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile (selected), DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Bind Profile, and System Configuration. The main area is titled 'ONU Profile Modify' and contains a table with the following data:

| | |
|-------------------------|---------|
| Profile ID | 4 |
| Profile Name | 4GE |
| Description | HGU |
| Max tcont | 8 |
| Max gempore | 32 |
| Max eth | 4 |
| Max pots | 0 |
| Max Iphost | 2 |
| Max Ipv6host | 0 |
| Max veip | 2 |
| Service ability | Disable |
| Service ability N:1 | yes |
| Service ability 1:M | yes |
| Service ability 1:P | yes |
| Wifi mgmt via non OMCI | Disable |
| Omci send mode | async |
| Default multicast range | none |

Pink circles highlight the 'Max eth' and 'Max veip' fields.

Figure 5-3 Add HGU profile

5.2 DBA Profile

DBA is a bandwidth allocation strategy that changes uplink bandwidth assigned to each T-CONT in real time according to the instant service status of each ONU. There are five BW types supported and make sure that fix<=assure<=max.

5.2.1 DBA profiles

Profile Configuration → DBA Profile → DBA Profiles

The table displays DBA profile list. We can also do some operation, such delete and modify.

| Profile ID | Profile Name | Profile Type | Fixed | Assured | Maximum | Action |
|------------|--------------|--------------|-------|---------|---------|---|
| 0 | default | 1 | 10000 | | | |
| 1 | 1g | 3 | | 10240 | 1024000 | Delete Modify |
| 2 | 10m | 3 | | 1024 | 10240 | Delete Modify |
| 3 | ghghg | 1 | 12455 | | | Delete Modify |
| 4 | 20m | 3 | | 10240 | 20480 | Delete Modify |

Figure 5-4 DBA profile list

5.1.2 Add profile

Profile Configuration → DBA Profile → Add profile

Types: 1, 2, 3, 4, 5, In general, we use type3

Relationships:

| BW Type | Delay Sensitive | Applicable T-CONT types | | | | |
|-------------|-----------------|-------------------------|--------|--------|--------|--------|
| | | Type 1 | Type 2 | Type 3 | Type 4 | Type 5 |
| Fixed | Yes | X | | | | X |
| Assured | No | | X | X | | X |
| Non-Assured | No | | | X | | X |
| Best Effort | No | | | | X | X |
| Max. | No | | | X | X | X |

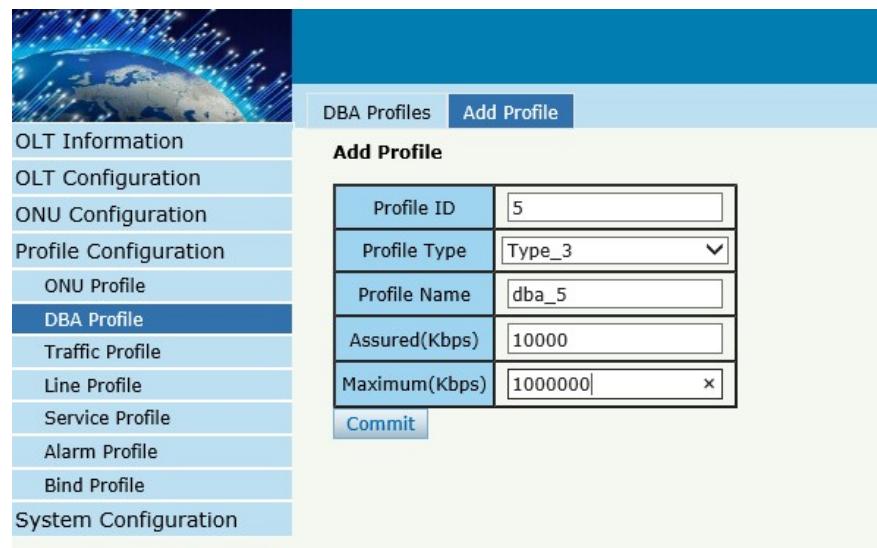


Figure 5-5 Add a DBA profile

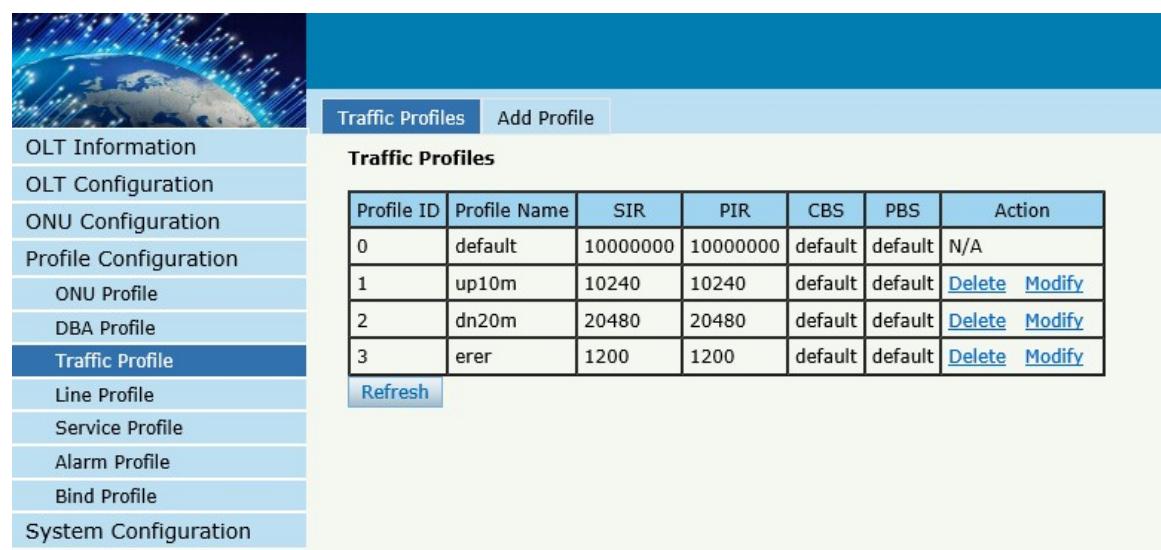
5.3 Traffic Profile

Traffic profile is used by Gempot to specify the upstream/downstream bandwidth.

5.3.1 Traffic profiles

Profile Configuration → Traffic Profile → Traffic Profiles

The table displays Traffic profile list. We can also do some operation, such delete and modify.



The screenshot shows the Gempot software interface. On the left is a vertical sidebar with a globe icon at the top, followed by a list of configuration categories: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile, DBA Profile, Traffic Profile (which is highlighted in blue), Line Profile, Service Profile, Alarm Profile, Bind Profile, and System Configuration. The main area has a blue header bar with the text "Traffic Profiles" and "Add Profile". Below the header is a sub-header "Traffic Profiles". A table lists four traffic profiles with the following data:

| Profile ID | Profile Name | SIR | PIR | CBS | PBS | Action |
|------------|--------------|----------|----------|---------|---------|---|
| 0 | default | 10000000 | 10000000 | default | default | N/A |
| 1 | up10m | 10240 | 10240 | default | default | Delete Modify |
| 2 | dn20m | 20480 | 20480 | default | default | Delete Modify |
| 3 | erer | 1200 | 1200 | default | default | Delete Modify |

At the bottom left of the main area is a blue "Refresh" button.

Figure 5-6 Traffic Profile list

5.2.2 Add profile

Profile Configuration → Traffic Profile → Add Profile

Configure Gempot to specify the upstream/downstream bandwidth.

SIR: Committed Information Rate

PIR: Peak Information Rate

CBS: Committed Burst Size

PBS: Peak Burst Size

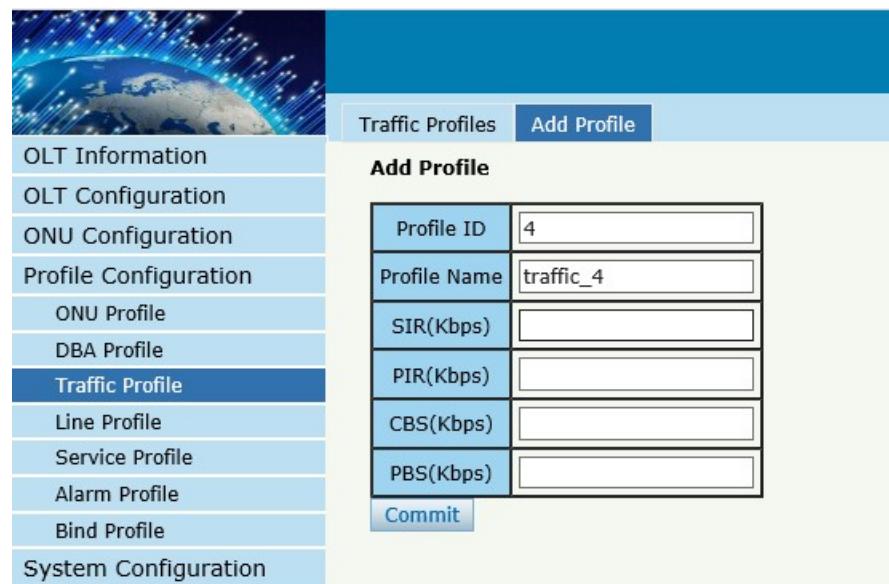


Figure 5-7 Add a traffic Profile

5.4 Line Profile

Line profile is used to configure the ANI side services of ONU such as t-cont, gem-port, service-port and so on.

5.3.1 Line profile

Profile Configuration → Line Profile → Line Profile

The table displays Line profile list. We can also do some operation, such

delete and modify.

The screenshot shows a web-based network management interface. On the left is a vertical sidebar with a globe icon at the top, followed by a list of configuration categories: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile, DBA Profile, Traffic Profile, Line Profile (which is selected and highlighted in blue), Service Profile, Alarm Profile, Bind Profile, and System Configuration. The main content area has a blue header bar with 'Line Profile' and 'Add Profile' buttons. Below the header is a section titled 'Line Profiles' containing a table with four rows of data. The table has columns for 'Profile ID', 'Profile Name', and 'Action'. The data is as follows:

| Profile ID | Profile Name | Action |
|------------|--------------|--|
| 1 | 1g | Detail & Modify Delete |
| 2 | 10m | Detail & Modify Delete |
| 3 | line_3 | Detail & Modify Delete |
| 4 | sfu | Detail & Modify Delete |

A blue 'Refresh' button is located at the bottom left of the table area.

Figure 5-8 Line Profile list

5.3.2 Add profile

Profile Configuration→Line profile→Add profile

Create a new line profile

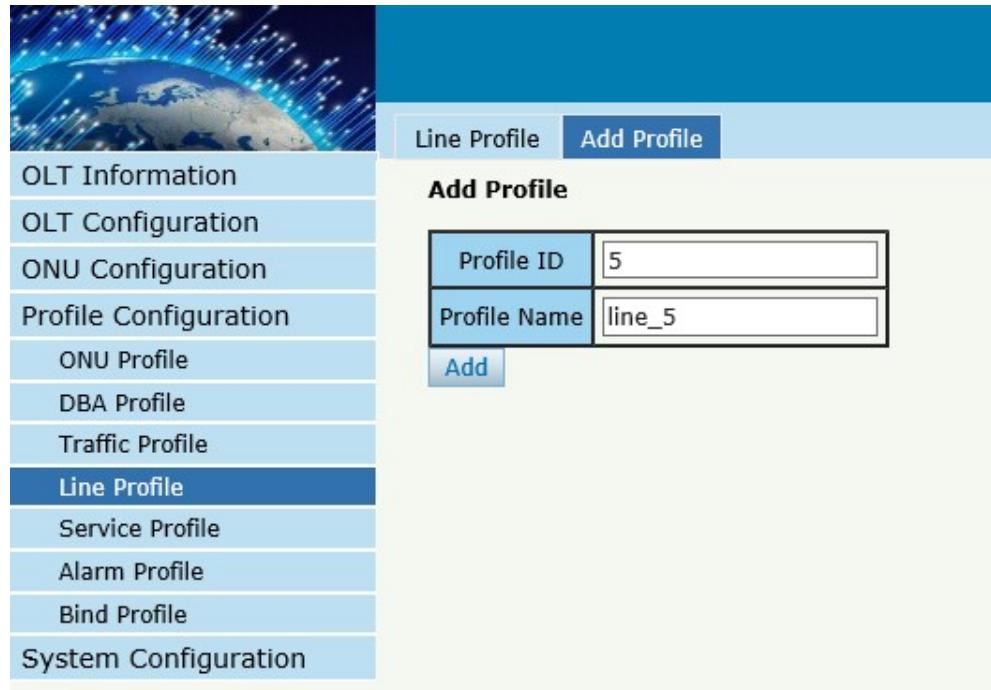


Figure 5-9 Add Line Profile

Modify the line profile parameters

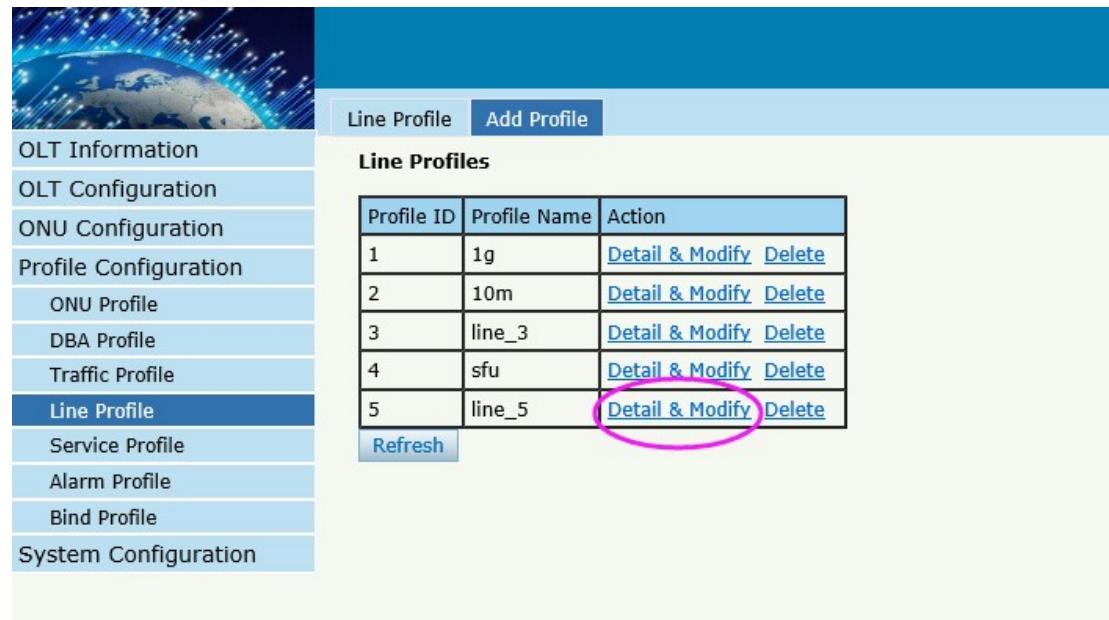


Figure 5-10 Modify Line Profile

Create a tcont ID and bind DBA templates

| Tcont ID | Name | DBA Profile | Action |
|----------|------|-------------|------------------------|
| 1 | 1 | 1g | Delete |

Add Tcont

| | |
|------------------|-----------|
| Tcont ID | (1 ~ 255) |
| Tcont Name | |
| DBA Profile Name | 1g |

[Add](#)

Figure 5-11 Add Tcont

Create a gempore ID and bind tcont ID

| Gempore ID | Name | Tcont | Cos | Upstream | Downstream | State | UpQueueMapId | DownQueueMapId | Action |
|------------|---------|-------|-----|----------|------------|--------|--------------|----------------|------------------------|
| 1 | default | 1 | N/A | default | default | Enable | N/A | N/A | Delete |

Add Gempore

| | |
|--------------------|-----------|
| Gempore ID | (1~255) |
| Tcont ID | 1 |
| Gempore Name | default |
| Cos | N/A (0-7) |
| Upstream Traffic | default |
| Downstream Traffic | default |
| UpQueueMapId | N/A (0-3) |
| DownQueueMapId | N/A (0-7) |
| State | Enable |

[Add](#)

Figure 5-12 Add Gempore

Create a service , Set the VLAN and VLAN mode and let it bind one gempore ID.

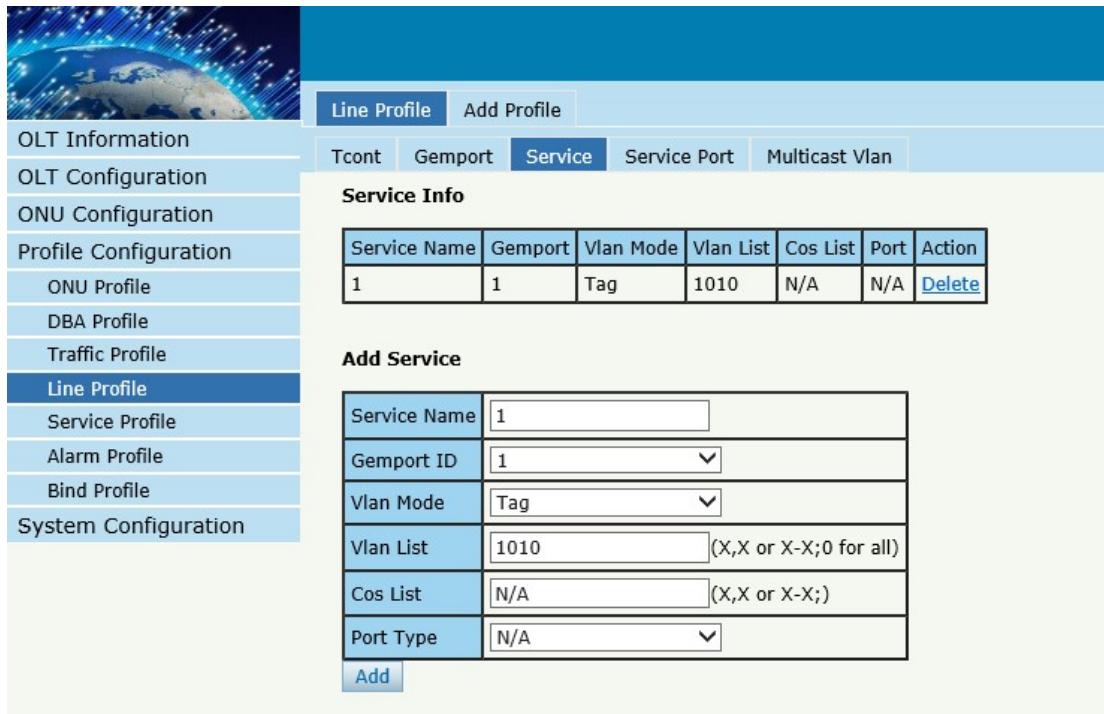


Figure 5-13 Add service

Create a service port, Set the user VLAN and translate VLAN and let it bind one gempore ID.

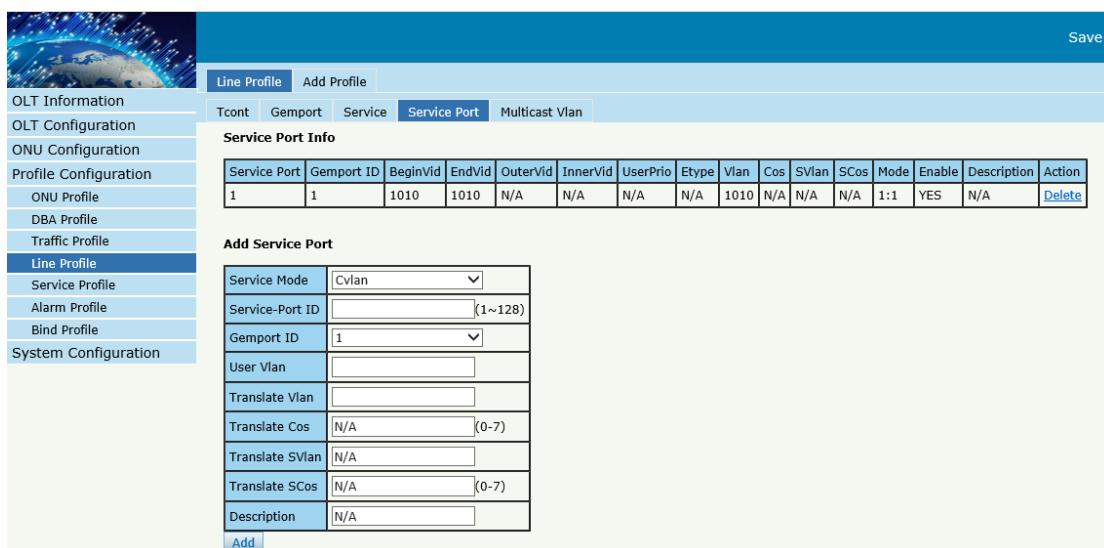


Figure 5-13 Add service prot

Set the Multicast VLAN of ONU



Figure 5-14 configure multicast VLAN

5.5 Service Profile

service profile is used to configure the UNI side services of onu, such as Ethernet port, wifi, veip and so on.

5.3.1 Line profile

Profile Configuration → Line Profile → Line Profile

The table displays service profile list. We can also do some operation, such delete and modify.

The screenshot shows a web-based management interface for network configuration. On the left, there's a vertical sidebar with a globe icon at the top, followed by a list of configuration categories: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile, DBA Profile, Traffic Profile, Line Profile, **Service Profile**, Alarm Profile, Bind Profile, and System Configuration. The 'Service Profile' item is highlighted in blue. The main content area has a header 'Service Profiles' with a 'Add Profile' button. Below the header is a table titled 'Service Profiles' with columns for 'Profile ID', 'Profile Name', and 'Action'. Two rows are listed: one for profile ID 1 named 'hgu' with 'Details & Modify' and 'Delete' links, and another for profile ID 2 named 'sfu' with similar links. A 'Refresh' button is located at the bottom of the table.

| Profile ID | Profile Name | Action |
|------------|--------------|---|
| 1 | hgu | Details & Modify Delete |
| 2 | sfu | Details & Modify Delete |

Figure 5-15 Service profile list

5.3.2 Add profile

Profile Configuration→Line Profile →Add Profile

Create a new service profile

This screenshot shows the 'Add Profile' form for creating a new service profile. The left sidebar is identical to Figure 5-15. The main area has a header 'Service Profiles' with a 'Add Profile' button. Below the header is a form titled 'Add Profile' with two input fields: 'Profile ID' containing '3' and 'Profile Name' containing 'srv_3'. A blue 'Add' button is located at the bottom of the form.

| | |
|--------------|-------|
| Profile ID | 3 |
| Profile Name | srv_3 |

Figure 5-16 Add Service profile

| Profile ID | Profile Name | Action |
|------------|--------------|---|
| 1 | hgu | Details & Modify Delete |
| 2 | sfu | Details & Modify Delete |
| 3 | srv_3 | Details & Modify Delete |

Figure 5-17 modify Service profile

Set the VLAN mode of the ONU's port.

| Port Name | Mode | Vlan | Vlan Pri(tag) | Default Vlan(hybrid) | Default Pri(hybrid) | CVlan(translate) | CVlan Pri(translate) | SVlan(translate) | SVlan Pri(translate) | Action |
|-----------|-------------|------|---------------|----------------------|---------------------|------------------|----------------------|------------------|----------------------|------------------------|
| eth_0/1 | Transparent | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Delete |

Figure 5-18 Port VLAN mode

Set the Multicast VLAN mode of ONU's port

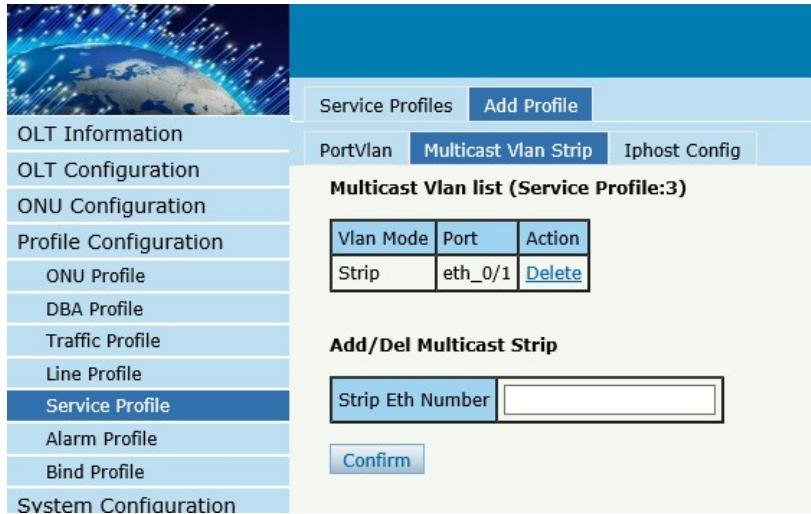


Figure 5-19 Port multicast VLAN mode

Create Iphost for ONU wan connection.

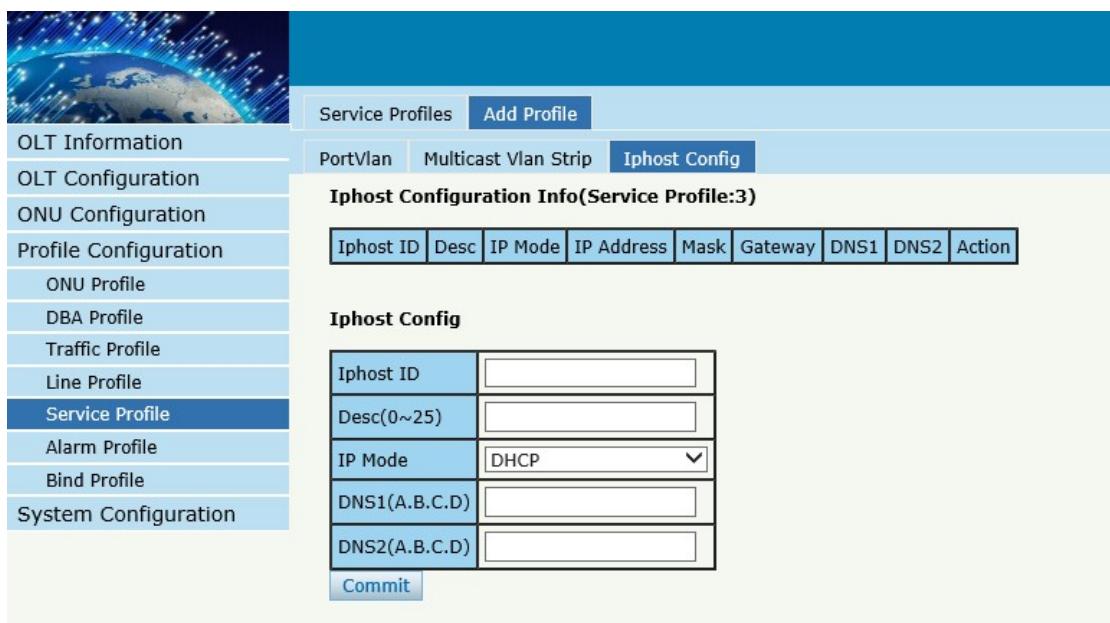


Figure 5-20 Add IPhost

5.6 Alarm Profile

alarm profile is used to configure the parameters of ONU alarm.

5.4.1 profile info

Profile Configuration→Alarm Profile →profile info

| Profile ID | Profile Name | State | Rx Power Alarm Threshold | Tx Power Alarm Threshold | Sf Threshold/Sd Threshold | Action |
|------------|--------------|--------|--------------------------|--------------------------|---------------------------|------------------------|
| 1 | alarm1 | enable | -27 ~ -8 | 1 ~ 5 | 5 / 9 | Delete |

Figure 5-21 Alarm Profile list

5.4.2 Add profile

Profile Configuration→Alarm Profile →Add profile

| | |
|---------------|----------------------|
| Alarm Name | <input type="text"/> |
| Alarm State | Enable |
| Rx Low Power | -27 (-27 ~ -8) |
| Rx High Power | -8 (-27 ~ -8) |
| Tx Low Power | 1 (1 ~ 5) |
| Tx High Power | 5 (1 ~ 5) |
| Sf Threshold | 5 (3 ~ 8) |
| Sd Threshold | 9 (4 ~ 10) |

Figure 5-21 Create Alarm profile

5.7 Bind Profile

After profile is configured, it is necessary to bind it to ONU.

Profile Configuration→Bind Profile

The screenshot shows the 'Profile Bind' interface. On the left is a vertical navigation menu with options: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile, DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Bind Profile (which is selected and highlighted in blue), and System Configuration. The main area is titled 'ONU Profile Bind' and shows a table with the following data:

| ONU ID | ONU Profile | Line Profile | Service Profile | Alarm Profile | Bind |
|--------|-------------|--------------|-----------------|---------------|------------------------|
| 1 | hgu | N/A | N/A | N/A | Config |
| 3 | hgu | N/A | N/A | N/A | Config |

A 'Refresh' button is located below the table. The 'Bind' column for ONU ID 1 has a link labeled 'Config' which is circled in red.

Figure 5-22 Bind profile

The screenshot shows the 'Profile Bind' interface. The left navigation menu is identical to Figure 5-22. The main area is titled 'ONU Profile Binding Configuration. (PON:2 ONU:1)' and shows a table with the following data:

| ONU ID | Line Profile | Service Profile | Alarm Profile |
|--------|--------------|-----------------|---------------|
| 1 | 10m | hgu | alarm1 |

A 'Commit' button is located below the table.

Figure 5-23 select Profile

Chapter 6 System Configuration

This chapter is about the global management of OLT.

6.1 System Log

6.1.1 System Log

System Configuration→System Log



| System Log Alarm Threshold Alarm Syslog Server | | | |
|--|---------------------|-------|---|
| Alarm Log Table | | | |
| Select Counts <input type="text" value="200"/> | | | Alarm Type <input type="button" value="ALL"/> |
| No.1 Page/Total 1 Page 3 Item per page/Total 3 Item First Previous Next Last | | | No:1 <input type="button" value="Go!"/> Clear All Refresh |
| No. | Time | Level | Message |
| 1 | 2004/01/04 04:22:19 | major | ONU Online PON 0/2 ONU 1 |
| 2 | 2004/01/04 02:11:42 | major | ONU Online PON 0/2 ONU 1 |
| 3 | 2004/01/04 02:11:41 | major | ONU Online PON 0/2 ONU 2 |

Figure 6-1 System Log

6.1.2 Alarm

System Configuration → System Log → Alarm.

It contains all the alarms of OLT. User can choose the different alarms to "Print", "Record", "Trap" and "Remote".

| System Log Alarm Threshold Alarm Syslog Server | | | | | | | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Alarm Configuration | | | | | | | | | |
| Type | Print | Record | Trap | Remote | Type | Print | Record | Trap | Remote |
| FAN | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Download File Failed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Upload File Failed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Upgrade File Failed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Port Updown | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Port Loopback | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PON Deregister | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Register Failed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PON Disable | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Txpower High | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PON Txpower Low | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Txbias High | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PON Txbias Low | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Vcc High | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PON Vcc Low | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Temp High | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| PON Temp Low | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Los | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ONU Deregister | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ONU Link Lost | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ONU Illegal Register | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ONU Auth Failed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ONU MAC Conflict | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ONU Loid Conflict | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ONU Critical Event | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ONU Dying Gasp | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ONU Link Fault | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ONU Link Event | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ONU Event Notific | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Reset | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Config Save | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Config Erase | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Download File Success | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Upload File Success | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Upgrade File Success | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Register | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| PON Enable | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PON Los Recovery | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| ONU Register | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ONU Link Discover | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Figure 6-2 Alarm

6.1.3 Threshold Alarm

Configure the temperature threshold, CPU-usage threshold and memory-usage threshold, PON optical threshold. Click **System Configuration** → **System Log** → **ThresholdAlarm**.

| Threshold Alarm Configuration | | | | | | |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|-----------------|
| Type | Print | Record | Trap | Remote | Alarm Threshold | Clear Threshold |
| Temp High (C) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 70.00 | 70.00 |
| Temp Low (C) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 20.00 | 20.00 |
| CPU Usage High (%) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.00 | 0.00 |
| MEM Usage High (%) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.00 | 0.00 |

PON Optical Alarm Configuration

| Port ID | PON1 | | | |
|---------------------|-------------------------------------|-----------------|-----------------|--|
| Type | State | Alarm Threshold | Clear Threshold | |
| Tx Power High (dBm) | <input checked="" type="checkbox"/> | 10.00 | 10.00 | |
| Tx Power Low (dBm) | <input type="checkbox"/> | 0.00 | 0.00 | |
| Tx Bias High (mA) | <input checked="" type="checkbox"/> | 30.00 | 30.00 | |
| Tx Bias Low (mA) | <input type="checkbox"/> | 0.00 | 0.00 | |
| Vcc High (V) | <input type="checkbox"/> | 0.00 | 0.00 | |
| Vcc Low (V) | <input type="checkbox"/> | 0.00 | 0.00 | |
| Temp High (C) | <input type="checkbox"/> | 0.00 | 0.00 | |
| Temp Low (C) | <input type="checkbox"/> | 0.00 | 0.00 | |

Figure 6-3 Threshold Alarm

6.1.4 Syslog Server

Configure the server of OLT remote system logs. Click **System Configuration** → **System Log** → **Syslog Server**.

Syslog Server Configuration

Syslog Server

Server IP

Server Port

Figure 6-4 Syslog Server

6.2 Device Management

6.2.1 Firmware Upgrade

System Configuration→Device Management →Firmware Upgrade.

You can upgrade the OLT firmware by WEB, it want to reboot OLT after upgrade then take effect.

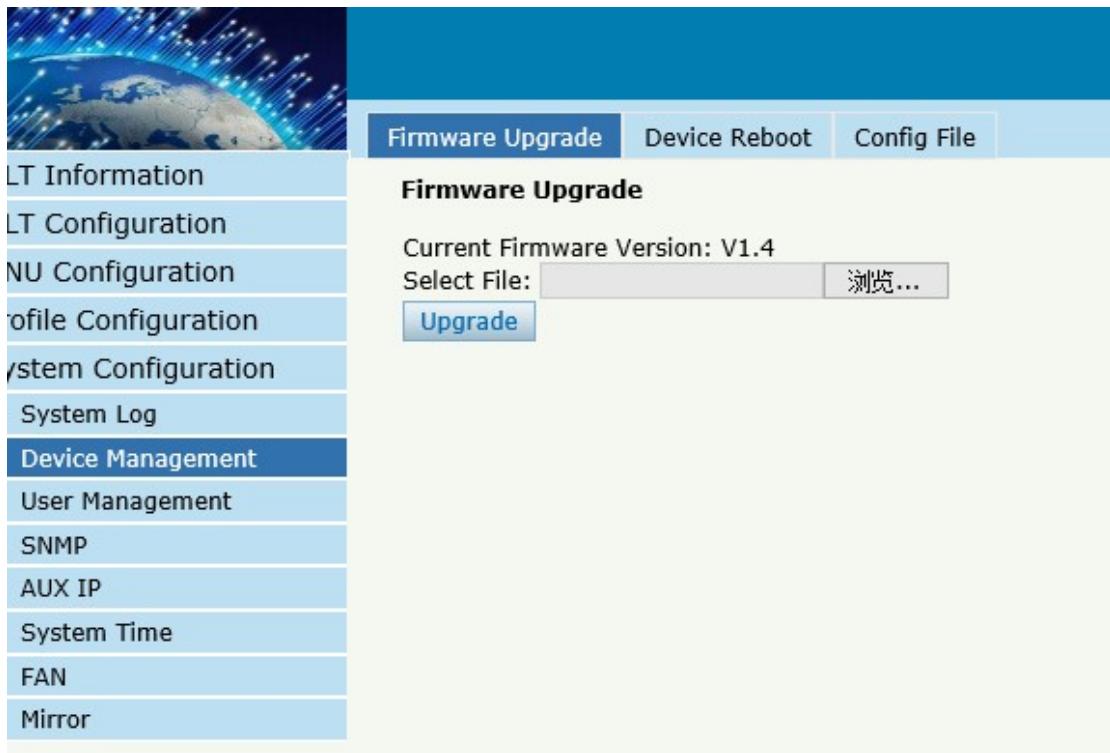


Figure 6-5 Firmware Upgrade

6.2.2 Device Reboot

System Configuration→Device Management →Device Reboot

it will reboot the entire system.(Please save the configuration first)

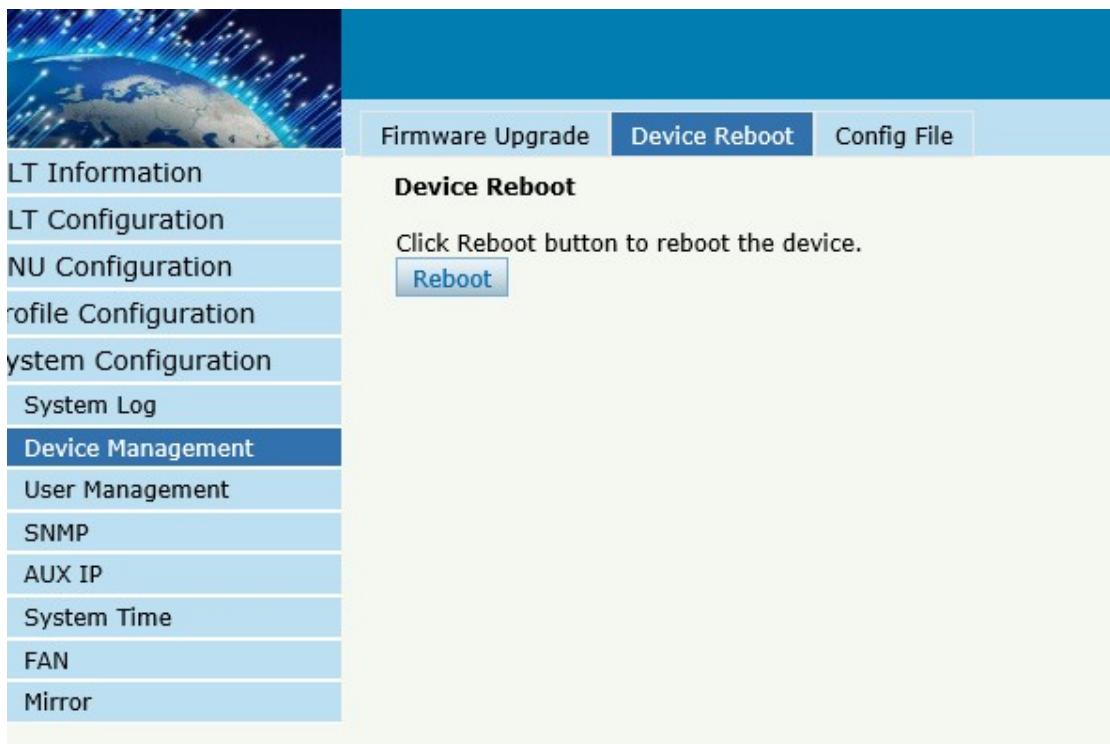


Figure 6-6 Device Reboot

6.2.3 Config File

System Configuration→Device Management →Config File,

you can backup configuration, restore configuration, restore factory defaults and save configuration.

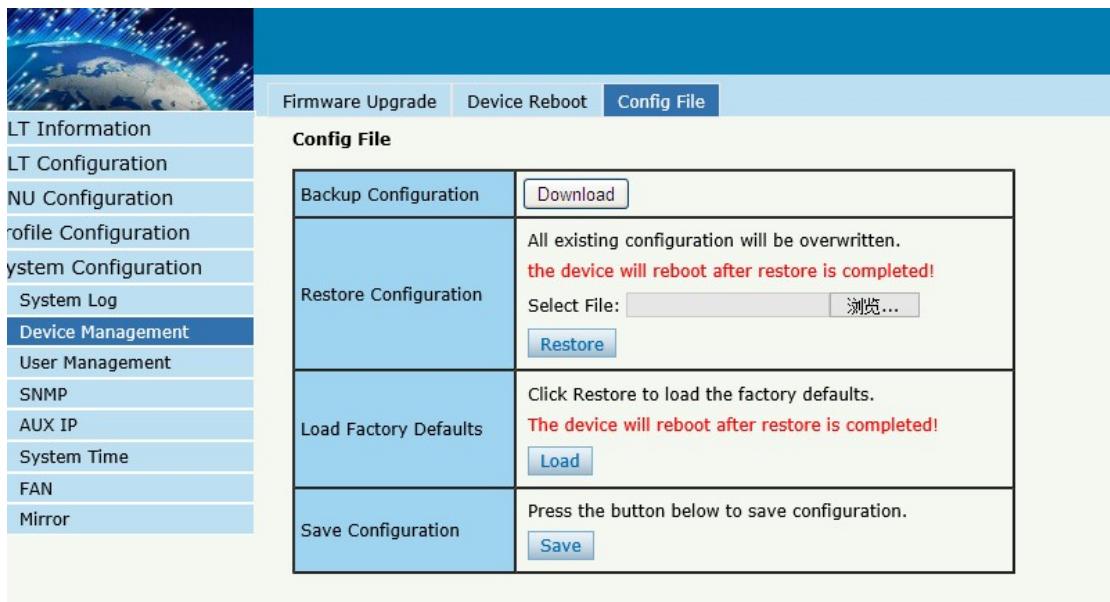


Figure 6-7 File Configuration

6.3 User Management

System Configuration→User manage

Two kinds of users have been defined, Normal and Admin. There are limitations to normal user, and admin user has no limits to full function of OLT. The default account member is **Admin** level.

The screenshot shows a web-based management interface for a network device. On the left is a vertical sidebar with various configuration options: LT Information, LT Configuration, NU Configuration, Profile Configuration, System Configuration, System Log, Device Management, User Management (which is selected and highlighted in blue), SNMP, AUX IP, System Time, FAN, and Mirror. The main area has a blue header bar with the title "User Manage". Below the header, there's a section titled "Add User" containing fields for "User Name", "User Password", "Confirm Password", and "User Role" (set to "Normal"). At the bottom of this section are "Add" and "Cancel" buttons. Below the "Add User" section is a table titled "User Table" with columns "User Name", "User Role", "Edit", and "Delete". A single row is shown in the table, with "admin" in the "User Name" column, "Admin" in the "User Role" column, and edit and delete icons in the "Edit" and "Delete" columns respectively.

Figure6-8: User Manage

6.4 SNMP

6.4.1 SNMP V1/V2

System Configuration → SNMP →SNMP V1/V2

The OLT supports SNMP v1/v2,

| SNMPV1/V2 | SNMPV3 | SNMPV3 Trap | | | | | | | | | |
|--|--------------|---------------------------------------|----------------|--------------|--------------|----------------|-----------|---------------------------------------|---------|------------|---------------------------------------|
| Add Community Community Name <input type="text"/> Access Right <input type="button" value="Read-Only"/> <input type="button" value="Write-Only"/> <input type="button" value="Both"/> <input type="button" value="Add"/> | | | | | | | | | | | |
| Community Table <table border="1"> <thead> <tr> <th>Community Name</th> <th>Access Right</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>public</td> <td>Read-Only</td> <td><input type="button" value="Delete"/></td> </tr> <tr> <td>private</td> <td>Read-Write</td> <td><input type="button" value="Delete"/></td> </tr> </tbody> </table> | | | Community Name | Access Right | Delete | public | Read-Only | <input type="button" value="Delete"/> | private | Read-Write | <input type="button" value="Delete"/> |
| Community Name | Access Right | Delete | | | | | | | | | |
| public | Read-Only | <input type="button" value="Delete"/> | | | | | | | | | |
| private | Read-Write | <input type="button" value="Delete"/> | | | | | | | | | |
| Add Trap Host IP <input type="text"/> UDP Port <input type="text" value="162"/> (1-65535) Community Name <input type="text" value="public"/> SNMP Version <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="Add"/> | | | | | | | | | | | |
| Trap Table <table border="1"> <thead> <tr> <th>Host IP</th> <th>UDP Port</th> <th>SNMP Version</th> <th>Community Name</th> <th>Delete</th> </tr> </thead> </table> | | | Host IP | UDP Port | SNMP Version | Community Name | Delete | | | | |
| Host IP | UDP Port | SNMP Version | Community Name | Delete | | | | | | | |

Figure6-9: SNMP V1/V2

6.4.2 SNMP V3

System Configuration → SNMP →SNMP V3

The OLT supports SNMP V3.

| SNMPV1/V2 | SNMPV3 | SNMPV3 Trap |
|--|--------|-------------|
| Add View View Name <input type="text"/> Subtree <input type="text"/> (Type: Object Identifier) View Type <input type="text" value="include"/> <input type="button" value="Add"/> View Table <input type="button" value="View Name"/> <input type="button" value="Subtree"/> <input type="button" value="View type"/> <input type="button" value="Delete"/> | | |
| Add Group Group Name <input type="text"/> Access Level <input type="text" value="noauth"/> <input type="button" value="Add"/> Read View <input type="text"/> Write View <input type="text"/> Notify View <input type="text"/> Group Table <input type="button" value="Group Name"/> <input type="button" value="Access Level"/> <input type="button" value="Read View"/> <input type="button" value="Write View"/> <input type="button" value="Notify View"/> <input type="button" value="Delete"/> | | |

Figure6-10: SNMP V3

6.4.3 SMNP V3 Trap

System Configuration → SNMP →SNMP V3 Trap

Configure or remove the Trap messages of the target host IP address.

| SNMPV1/V2 | SNMPV3 | SNMPV3 Trap |
|--|--------|-------------|
| Add Trap Host IP <input type="text"/> UDP Port <input type="text" value="162"/> (1-65535) User Name <input type="text"/> User Level <input type="text" value="noauth"/> <input type="button" value="Add"/> Tag List <input type="text" value="trap"/> <input type="button" value="Add"/> Timeout <input type="text"/> (1-4000000000) Retry Count <input type="text"/> (1-100) <input type="button" value="Add"/> Trap Table <input type="button" value="Host IP"/> <input type="button" value="UDP Port"/> <input type="button" value="Version"/> <input type="button" value="User Name"/> <input type="button" value="User Level"/> <input type="button" value="Tag List"/> <input type="button" value="Timeout"/> <input type="button" value="Retry Count"/> <input type="button" value="Delete"/> | | |

Figure 6-11: SNMP V3 Trap

6.5 AUX IP

System Configuration → AUX IP

AUX port is out band management port. TheIP address is out band management IP, default IP address is 192.168.8.200.

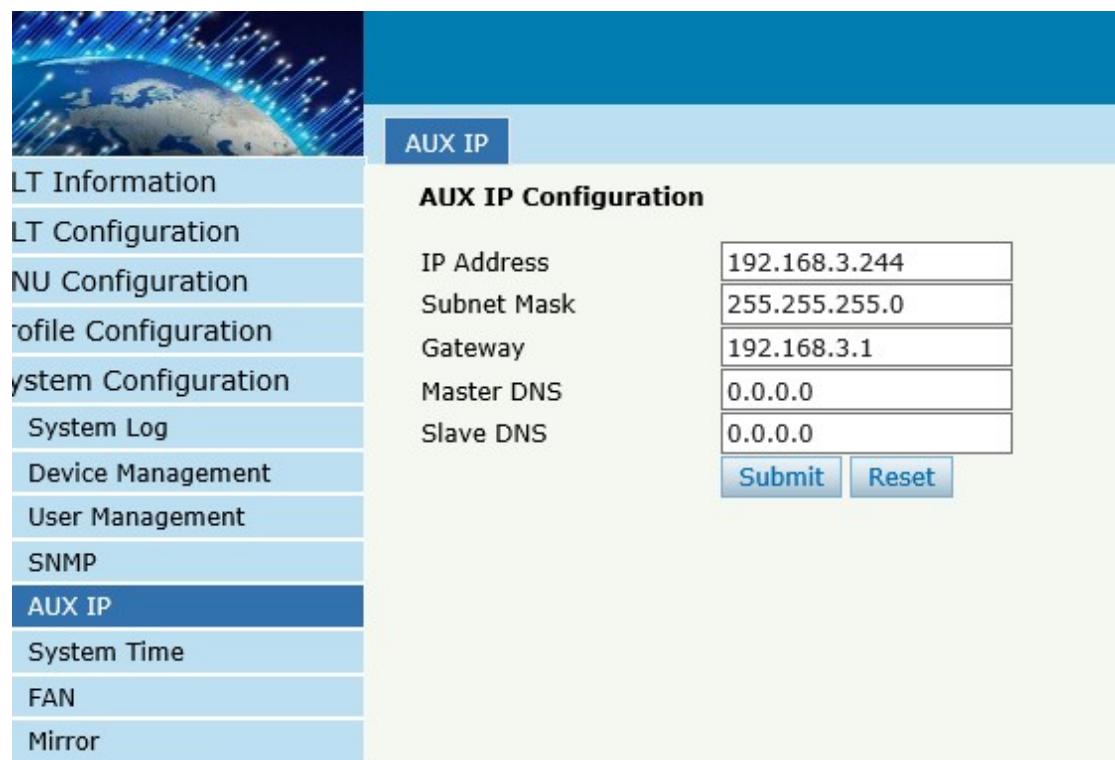


Figure 6-12: AUX IP

6.6 System Time

6.6.1 RTC

System Configuration → System Time→RTC .

The user can customize the OLT system time

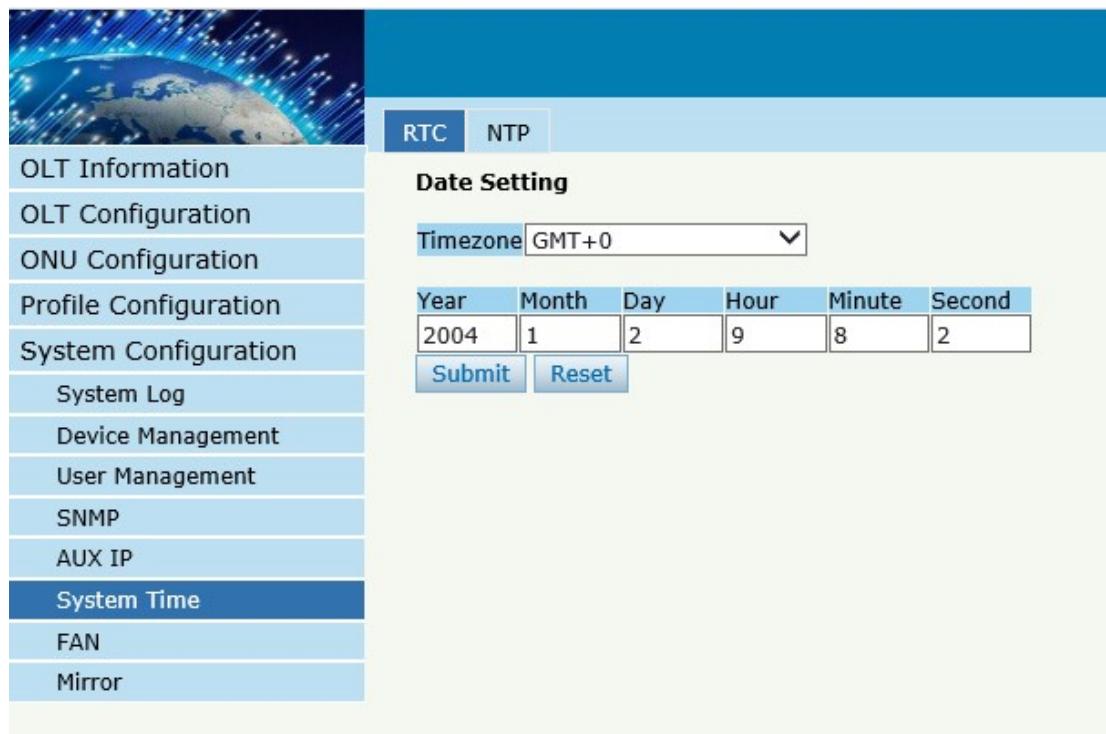


Figure 6-13: RTC Configuration

6.6.2 NTP

System Configuration → System Time→NTP

Synchronize the time to the NTP server.

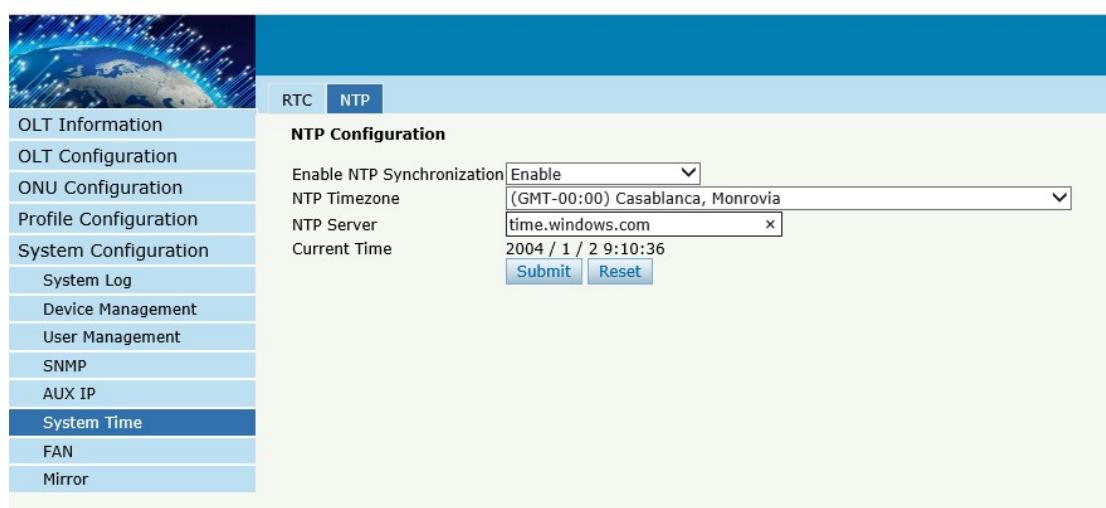


Figure 6-14: NTP Configuration

6.7 FAN

System Configuration → FAN.

The fans can be controlled to turn on/off, or turn on automatically.

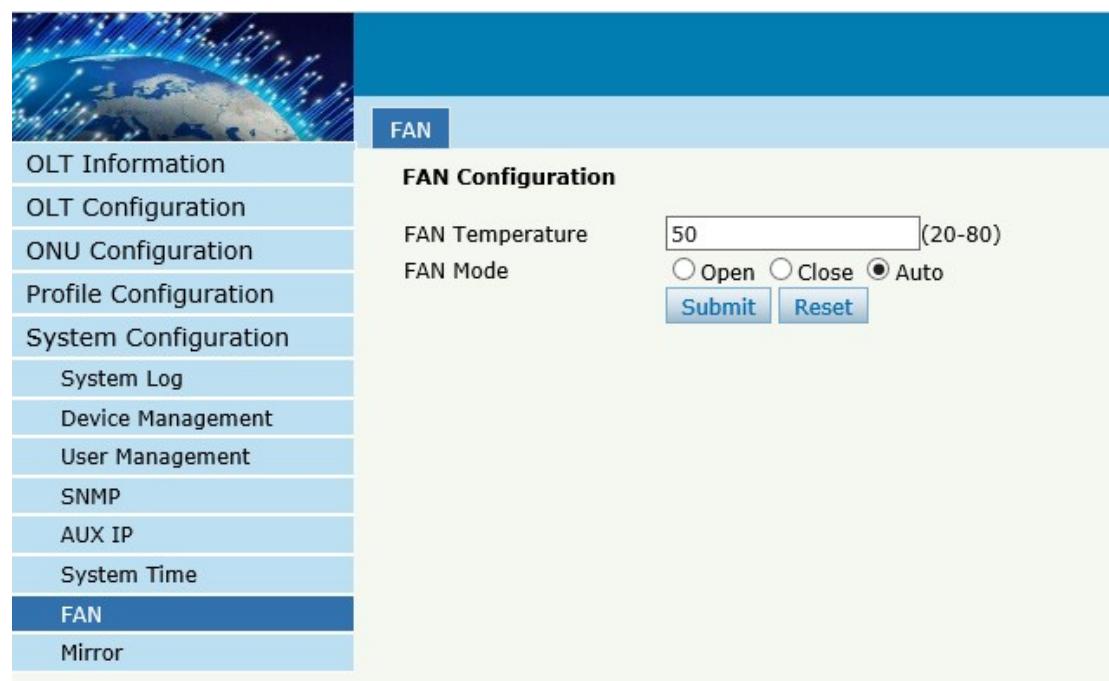


Figure 6-15: FAN Configuration

6.8 Mirror

System Configuration → Mirror.

Each monitor session can be set with one destination port and up to 8 source ports.



Mirror

Mirror Configuration

| Port ID | Mirrored | Direction |
|---------|-------------------------------------|---------------------------------------|
| GE1 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE2 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE3 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE4 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE5 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE6 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE7 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE8 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE9 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE10 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE11 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE12 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE13 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE14 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE15 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| GE16 | <input type="checkbox"/> | Both <input type="button" value="▼"/> |
| PON | <input checked="" type="checkbox"/> | Both <input type="button" value="▼"/> |

Submit

Figure 6-16: Mirror

Thank you!