

EPON OLT WEB USER MANUAL

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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		2 ports EPON OLT(L)	4 ports EPON OLT(L)	8 ports EPON OLT	16 ports EPON OLT
Chassis	Rack	1U 19 inch standard box	1U 19 inch standard box	1U 19 inch standard box	1U 19 inch standard box
1000 M Uplink Port	QTY	4	8	16	12
	Copper	2*10/100/1000M auto-negotiation	4*10/100/1000M auto-negotiation	8*10/100/1000M auto-negotiation	4*10/100/1000M
	SFP (Independent)	2*SFP	4*SFP	4*SFP and 4*SFP+ (SFP+ is compatible with 10GE)	4*SFP and 4*SFP+ (SFP+ is compatible with 10GE)
EPON Port	QTY	2	4	8	16
	Physical Interface	SFP Slots	SFP Slots	SFP Slots	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

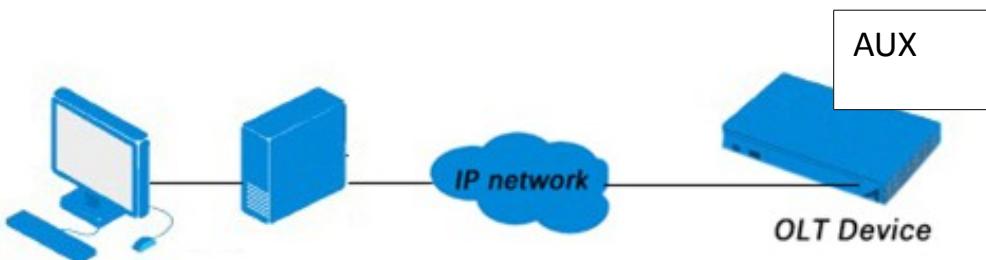
Table 1-2 PC System requirement

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 192.168.8.100.

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

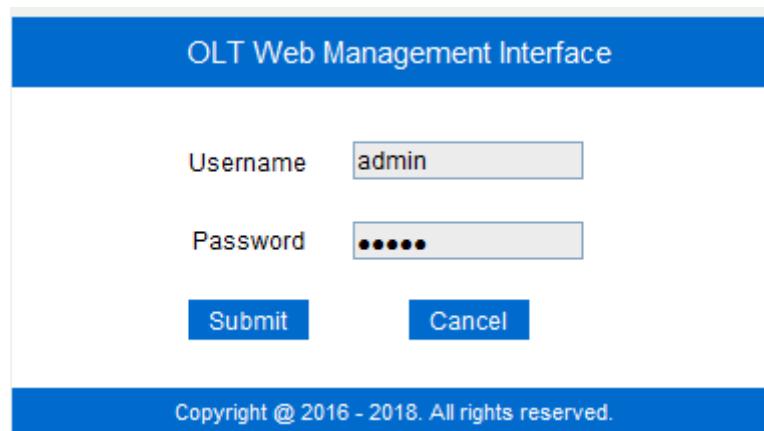


Chapter 2 OLT Information

2.1 Login

Follow the steps to login:

1. Conform “1.2 Connection” to connect;
2. The device default IP address is 192.168.8.100;
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 a white background. It contains two input fields: "Username" with the value "admin" and "Password" with the value "*****". Below the input fields are two buttons: "Submit" on the left and "Cancel" on the right. At the 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.

Click **OLT Information**→**Device Information** to get the information.

This part shows the OLT information such as system name, serial number, hardware version, firmware version, MAC address and system time. The system name can be modified if need.

The screenshot shows a web-based management interface for an OLT. At the top, there's a 'Device Status' section with icons for PON ports (PON1-PON8) and GE ports (GE1-GE15). Below this is a 'Device Basic Information' table:

System Name	epon-olt	Serial Number	V1603160001
Hardware Version	eight epon olt platform	Firmware Version	V2.03.21
MAC Address	80:14:A8:23:D6:F1	Temperature	55°C
System Time	2000 / 1 / 1 18:18:59	Running Time	0 Days 18 Hours 18 Minutes 2 Seconds
CPU Usage	53%	Memory Usage	13%

At the bottom left of the table are 'Submit' and 'Refresh' buttons.

Figure 2-2: Device Information

Chapter 3 OLT Configuration

This section is about the basic service of OLT configuration.

3.1 VLAN

3.1.1 New VLAN

Click **OLT Configuration**→**VLAN** to create new VLAN.

VLAN	VLAN Port	QinQ/Translation	
New VLAN			
VLAN ID	4000 (1-4094)		
Description	vlan4000		
Add			
VLAN Table			
VLAN ID	Description	Edit	Delete
1	default		

Figure 3-1: Create New VLAN

3.1.2 VLAN Port

Assign the ports to the VLANs you created. Here, you can choose the tag or untag VLAN mode. Click **OLT Configuration**→**VLAN**→**VLAN Port** as shown in Figure 3-2.

Port VLAN Configuration			
VLAN ID	4000		
Port ID	Forbidden	Tag	Untag
GE1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE5	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE6	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE7	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
PON2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure 3-2: Add VLAN Port

3.1.3 QinQ/Translation

To configure the port mode VLAN translation or double VLAN tag, click

OLT Configuration→VLAN→QinQ/Translation, as shown in Figure 3-3.

VLAN	VLAN Port	QinQ/Translation				
QinQ Configuration						
Port ID	GE4					
Customer VLAN	4000					
Customer Cos	any					
Service VLAN	2000					
Service Cos	any					
Mode	VLAN Translation					
Add						
VLAN QinQ Mapping Table						
Port ID	Customer VLAN	Customer Cos	Service VLAN	Service Cos	Mode	Delete
GE9	2000	any	4000	any	QinQ	

Figure 3-3: QinQ/Translation Configuration

3.2 Uplink Port

GE ports traffic statistics and basic configuration setting.

3.2.1 Information

Select **OLT Configuration→Uplink Port→Information**, as shown in Figure

3-5.

Traffic Statistics										
Port ID	Link Status	Speed	Rx Packets			Tx Packets			Collisions	Errors
			Packets	Broadcast	Multicast	_ackets	Broadcast	Multicast		
GE1	Up	1000M Full	0	0	0	0	0	0	0	0
GE2	Up	1000M Full	0	0	0	0	0	0	0	0
GE3	Up	1000M Full	0	0	0	0	0	0	0	0
GE4	Up	1000M Full	0	0	0	0	0	0	0	0
GE5	Down	-	0	0	0	0	0	0	0	0
GE6	Down	-	0	0	0	0	0	0	0	0
GE7	Down	-	0	0	0	0	0	0	0	0
GE8	Down	-	0	0	0	0	0	0	0	0
GE9	Down	-	0	0	0	0	0	0	0	0
GE10	Down	-	0	0	0	0	0	0	0	0
GE11	Down	-	0	0	0	0	0	0	0	0
GE12	Down	-	0	0	0	0	0	0	0	0
GE13	Down	-	0	0	0	0	0	0	0	0
GE14	Down	-	0	0	0	0	0	0	0	0
GE15	Down	-	0	0	0	0	0	0	0	0
GE16	Down	-	0	0	0	0	0	0	0	0

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

Figure3-4 : GE Traffic Statistcs

3.2.2 Configuration

The GE ports basic configuration can be set. Select **OLT Configuration**

→Uplink Port→Information, as shown in Figure 3-6.

GE Configuration											
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	admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2000 ▾	512	512	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE12		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE14		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE15		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0
GE16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	512	0	512	0	0	0

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

Figure3-5: Uplink Ports Configuration

3.3 PON

3.3.1 Information

The OLT PON ports information can be shown here, about the PON ports current temperature, Voltage, current, transmit power and the traffic statistics.

Select **OLT Configuration→PON→Information**, you can show the PON port parameters, as shown in Figure 3-6.

Optical Transceiver					
Port ID	Tempperature(Degree)	Voltage(V)	Bias Current(mA)	Transmit Power(dBm)	
PON1	N/A	N/A	N/A	N/A	
PON2	44.796	3.3487	12.412	3.645885	
PON3	N/A	N/A	N/A	N/A	
PON4	N/A	N/A	N/A	N/A	
PON5	N/A	N/A	N/A	N/A	
PON6	N/A	N/A	N/A	N/A	
PON7	N/A	N/A	N/A	N/A	
PON8	N/A	N/A	N/A	N/A	

Traffic Statistics										
Port ID	Link Status	Speed	Rx Packets			Tx Packets			Collisions	Errors
			packets	Broadcast	Multicast	packets	Broadcast	Multicast		
PON1	Down	-	14	0	14	30	0	30	0	0
PON2	Up	1000M Full	14	0	14	30	0	30	0	0
PON3	Down	-	14	0	14	30	0	30	0	0
PON4	Down	-	13	0	13	28	0	28	0	0
PON5	Down	-	78	0	78	28	0	28	0	0
PON6	Down	-	78	0	78	28	0	28	0	0
PON7	Down	-	78	0	78	28	0	28	0	0
PON8	Down	-	78	0	78	28	0	28	0	0

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

Figure3-6: PON Information

3.3.2 Configuration

The PON ports basic configuration can be set.

Select **OLT Configuration→PON→Configuration**, as shown in Figure 3-7.

PON Configuration													
Port ID	Description	Admin Status	Flow Control	Isolate	PVID	MAX RTT(2000-32000TQ)	ONU P2P	Storm(0 64-1000000fps)			Rate(0 32-1000000kbps)		MAC Limit(0-16384)
								Broadcast	Multicast	Unicast	Ingress	Egress	
PON1	admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2000 ▾	14500	<input checked="" type="checkbox"/>	512	512	512	0	0	0
PON2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0
PON3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0
PON4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0
PON5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0
PON6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0
PON7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0
PON8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▾	14500	<input type="checkbox"/>	512	0	512	0	0	0

Figure3-7: PON configuration

3.4 MAC

3.4.1 MAC Table

All the OLT learning MAC can be shown.

Select **OLT Configuration→MAC→MAC Table**, as shown in Figure 3-8.

MAC Address Table			
Port ID	MAC	Type	Physical Port
1	FC:AA:14:70:DB:99	Dynamic	GE12
1	B8:97:5A:69:94:03	Dynamic	GE12
1	40:61:86:CA:3B:68	Dynamic	GE12
1	00:0C:29:16:7E:03	Dynamic	GE12
1	00:0C:29:16:7E:F9	Dynamic	GE12
1	28:ED:58:B2:34:3F	Dynamic	GE12
1	00:1C:82:00:12:B7	Dynamic	GE12
1	00:E0:4C:00:00:00	Dynamic	GE12
1	00:D0:D0:00:00:01	Dynamic	GE12
1	00:0A:C2:11:D9:21	Dynamic	GE12
1	00:24:21:21:A7:1F	Dynamic	GE12
1	00:0C:29:E6:21:34	Dynamic	GE12
1	F4:4D:30:4E:45:D0	Dynamic	GE12
1	3C:D1:6E:09:9B:E9	Dynamic	GE12
1	00:20:23:00:00:00	Dynamic	GE12
1	3C:D1:6E:09:AF:2C	Dynamic	GE12
1	00:E0:EE:EC:EE:E9	Dynamic	GE12
1	80:14:A8:16:3A:E7	Dynamic	GE12

Figure3-8: MAC Address Table

3.4.2 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.

Select **OLT Configuration→MAC→Configuration**, as shown in Figure 3-9.

The screenshot shows the 'MAC Table' tab selected at the top. The 'Configuration' tab is active. The 'MAC Aging Configuration' section contains fields for 'Automated Aging' (set to 'Enable') and 'Aging Time' (set to '1000000' with a note '(10-1000000s)'). A 'Submit' button is present. Below this is the 'Add MAC Address' section, which includes fields for 'VLAN ID' (set to '1'), 'MAC Address' ('00:00:00:00:00:02' in HH:HH:HH:HH:HH:HH format), 'Type' (radio buttons for 'Static' and 'Dynamic' selected 'Static'), and 'Port ID' ('GE2'). It also features 'Add' and 'Delete' buttons.

Figure 3-9:MAC Configuration

3.5 LACP

Select **OLT Configuration**→**LACP**→**Static LACP** to assign and configure a uplink physical interface to an Ether Channel. 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.

The screenshot shows the 'Static LACP' tab selected at the top. The 'Channel Group Configuration' section contains fields for 'Channel Group ID' (set to '1'), 'Load Balance' (set to 'smac'), and a 'Select GE Port' section where several GE ports are checked (GE1, GE2, GE3, GE4, GE5, GE6, GE7, GE8, GE9, GE10, GE11, GE12, GE13, GE14, GE15, GE16). A 'Submit' button is present. Below this is the 'Channel Group Table' section, which includes buttons for 'Group ID', 'Load Balance', 'Ports', and 'Delete'.

Figure 3-10: Create Static LACP

3.6 QoS

The EPON OLT supports layer 2 802.1p and layer 3 DSCP QOS. Frames can be placed in different queues and serviced via Strict Priority(SP),Weighted Round Robin (WRR) and SP+WRR. Select **OLT Configuration**→**QOS** to set QOS configuration, as shown in Figure 3-11.

The screenshot shows a web-based configuration interface for Quality of Service (QoS). The top bar is blue with the text "QoS". Below it, a sub-header "QoS Configuration" is displayed. Under "QoS Mode", a dropdown menu is set to "Strict-WRR". Below this, there is a table with two rows. The first row contains eight columns labeled "Q0(1-127)", "Q1(1-127)", "Q2(1-127)", "Q3(1-127)", "Q4(0-127)", "Q5(0-127)", "Q6(0-127)", and "Q7(0-127)". The second row contains eight input fields for setting weights, with values 50, 50, 50, 50, 100, 0, 0, and 0 respectively. A "Submit" button is located at the bottom of the form.

Figure 3-11: QOS Configuration

3.7 ACL

This part is about the security of OLT. It can permit or deny the clients access. Each access list can support 3 rules.

3.7.1 IP Filter

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

Select **OLT Configuration**→**ACL** →**IP Filter** to set the configuration, as

shown in Figure 3-12.

IP Filter	MAC Filter	IP/MAC Filter	Effect Filter					
Access List IP Configuration								
Access List ID	1000	(1000-1999)						
Filter Action	<input checked="" type="radio"/> Deny <input type="radio"/> Permit							
<input checked="" type="checkbox"/> Source IP	192.168.3.33	Mask	255.255.255.0					
<input type="checkbox"/> Source Port		(0-65535)						
<input checked="" type="checkbox"/> Destination IP	192.168.3.213	Mask	255.255.255.0					
<input type="checkbox"/> Destination Port		(0-65535)						
<input type="checkbox"/> Protocol	TCP		(0-255)					
<input type="checkbox"/> DSCP		(0-63)						
Add								
Access Lists Configured								
List ID	Source IP	Source Port	Destination IP	Destination Port	Protocol	DSCP	Filter Action	Delete

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.

Select **OLT Configuration** → **ACL** → **MAC Filter** to set the configuration, as shown in Figure 3-13.

IP Filter	MAC Filter	IP/MAC Filter	Effect Filter				
Access List MAC Configuration							
Access List ID	2001 (2000-2999)						
Filter Action	<input checked="" type="radio"/> Deny	<input type="radio"/> Permit					
<input checked="" type="checkbox"/> Source MAC	00:00:00:00:00:01	Mask	FF:FF:FF:FF:FF:FF (HH:HH:HH:HH:HH:HH)				
<input type="checkbox"/> Destination MAC		Mask					
<input checked="" type="checkbox"/> VLAN ID	1						
<input type="checkbox"/> VLAN Cos		(0-7)					
<input type="checkbox"/> Ethernet Type		(HHHH)					
Add							
Access Lists Configured							
List ID	Source MAC	Destination MAC	VLAN ID	Cos	Ethernet Type	Filter Action	Delete

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.

Select **OLT Configuration** → **ACL** → **IP/MAC Filter** to set the configuration, as shown in Figure 3-14.

Figure 3-14 IP/MAC Filter

3.7.4 Effect Filter

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

The screenshot shows a web-based configuration interface for network filtering. At the top, there are four tabs: IP Filter, MAC Filter, IP/MAC Filter, and Effect Filter. The Effect Filter tab is selected, indicated by a blue background and white text. Below the tabs is a section titled "Access List Port Configuration". It includes a dropdown menu for "Access List ID" set to "1000", and two rows of checkboxes for selecting ports. The first row is for "Select GE Port" with options GE1 through GE16, where GE1, GE2, GE4, GE5, GE6, GE7, GE8, GE9, GE11, GE12, GE13, GE14, GE15, and GE16 are checked. The second row is for "Select PON Port" with options PON1 through PON8, where PON1, PON2, PON3, PON4, PON5, PON6, PON7, and PON8 are checked. A large blue button labeled "Apply Access List to Port(s)" is centered below these rows. Below this section is another titled "Active Access Lists", which contains a table:

Access List ID	Ports
1000	GE1 GE6 GE7 GE8 PON4

Figure 3-15: Bind Security Filter

3.8 IGMP

3.8.1 Group Member

Show about the group member in the list.

Select **OLT Configuration→IGMP →Group Member** to set the configuration, as shown in Figure 3-16.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
IGMP Group Member					
Group VLAN ID	IP Address	Port ID	Type	User VLAN ID	
2000	239.0.0.1	PON1	Static	2000	
<input type="button" value="Refresh"/>					

Figure 3-16: Group Member

3.8.2 Global

To enable the IGMP snooping mode, click **OLT Configuration**

→IGMP→Global.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
IGMP Configuration					
IGMP Status	<input type="button" value="Enable"/> <input type="button" value="Disable"/>				
Last Member Query Interval	1	(1-255s)			
Last Member Query Count	2	(1-255)			
Last Member Query Response	1	(1-255s)			
General Query Packet	<input checked="" type="radio"/> Disable <input type="radio"/> Enable				
General Query Interval	125	(10-255s)			
Query Source IP	1.1.1.1				
	<input type="button" value="Submit"/>	<input type="button" value="Reset"/>			

Figure 3-17: IGMP Global

3.8.3 Port

Click **OLT Configuration → IGMP → Port**. to set group limit value, enable/disable fast leave and filter.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
IGMP Port Configuration					
Port ID	Fast Leave	Filter	Group Limit(0-1024)		
GE1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1024		
GE2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1024		
GE3	<input checked="" 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		
GE16	<input type="checkbox"/>	<input type="checkbox"/>	1024		
PON1	<input type="checkbox"/>	<input type="checkbox"/>	1024		
PON2	<input type="checkbox"/>	<input type="checkbox"/>	1024		

Figure 3-18: IGMP Port

3.8.4 Port User VLAN

Click **OLT Configuration → IGMP → Port User VLAN** to configure the user

VLAN and group VLAN.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
User VLAN Configuration					
Port ID	GE1				
User VLAN ID	1				
Group VLAN ID	1				
<input type="button" value="Add"/>					
User VLAN Table					
Port ID	User VLAN ID	Group VLAN ID	Delete		
PON1	1000	1000	<input type="button" value=""/>		

Figure 3-19: IGMP Port User VLAN

3.8.5 Port Mrouter

To add a port to the IGMP multicast routing group, click **OLT**

Configuration → IGMP→Port Mrouter, as shown in Figure 3-20.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
Add Multicast Router					
Port ID	GE2				
Group VLAN ID	1000				
<input type="button" value="Add"/>					
Multicast Router Table					
Port ID	Group VLAN ID	Delete			
		<input type="button" value=""/>			

Figure 3-20: IGMP Port Mroute

3.8.6 Static Group

Add an IGMP group manually. Always choose the PON port as the group port. Click **OLT Configuration →IGMP→Static Group**, as shown in Figure 3-21.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
Add Static Group					
Port ID	PON1				
IP Address					
User VLAN ID	1				
Add					
Static Group Table					
Port ID	IP Address	User VLAN ID	Delete		
PON1	239.0.0.1	1000	<input type="button" value="Delete"/>		

Figure 3-21: IGMP Static Group

3.9 RSTP

3.9.1 Information

The OLT is disabling RSTP by default. When enable the RSTP, the RSTP global information and port information can be shown by click **OLT Configuration→RSTP→Information**. See Figure 3-22.

Information Global Port

RSTP Information

	Root	Bridge
Cost	0	
Port	GE0	
Priority	32768	32768
MAC Address	80:14:A8:23:D6:F9	80:14:A8:23:D6:F9
Hello Time	2s	2s
Max Age	20s	20s
Forward Delay	15s	15s

RSTP Port Status

Port ID	Role	State	Cost	Priority	Point To Point
GE1	Design	Forwarding	200000	128	Enable
GE2	Design	Forwarding	200000	128	Enable
GE3	Design	Forwarding	200000	128	Enable
GE4	Design	Forwarding	200000	128	Enable

[Refresh](#)

Figure 3-22:RSTP Information

3.9.2 Global

Enable the RSTP, click **OLT Configuration→RSTP→Global** to enable.

Information Global Port

RSTP Configuration

RSTP Status	<input type="button" value="Enable"/>
Global Priority	<input type="text" value="32768"/> (0-61440)
Hello Time	<input type="text" value="2"/> (1-10s)
Max Age	<input type="text" value="20"/> (6-40s)
Forward Delay	<input type="text" value="15"/> (4-30s)

Figure 3-23: RSTP Global Setup

3.9.3 Port

The RSTP ports parameter can be set by selecting click **OLT**

Configuration→RSTP→Port .

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"/>

Submit **Reset**

Figure 3-24: RSTP Port Setting

3.10 DHCP

3.10.1 DHCP Server

3.10.1.1 DHCP Lease

Click **OLT Configuration**→**DHCP**→**DHCP Server**→**Lease**, the DHCP Server Lease will be shown as Figure3-25.



Figure 3-25: DHCP Lease

3.10.1.2 DHCP Configuration

When enable OLT DHCP server, the connecting devices will obtain an IP address. Click **OLT Configuration**→**DHCP**→**DHCP Server**→**Configuration** to configure the DHCP Server, shown as Figure 3-26.

Lease Configuration

DHCP Server Configuration

DHCP Server	Enable
VLAN ID	1

DHCP Server Settings

Start IP Address	192.168.0.20
End IP Address	192.168.0.254
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
Static DNS 1	0.0.0.0
Static DNS 2	0.0.0.0
Static DNS 3	0.0.0.0
WINS	0.0.0.0
Client Lease Time	864000 (60-864000s)

Submit **Reset**

Figure 3-26:DHCP Configuration

3.10.2 DHCP Relay

3.10.2.1 DHCP Relay Configuration

When the DHCP server and the clients are not in the same subnet, DHCP relay can help the clients get the IP address from the server. The relay server IP address network segment should be the same as the DHCP server.

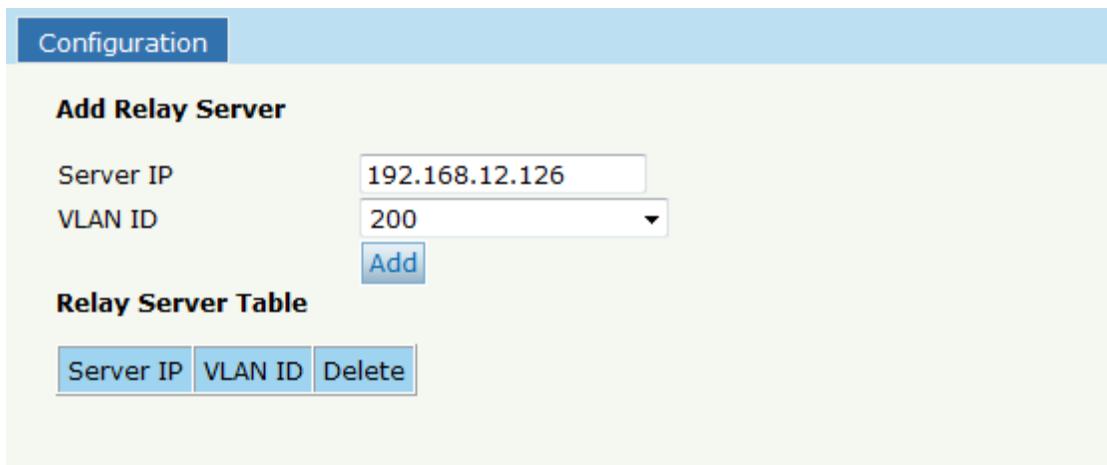


Figure 3-27:DHCP Relay Configuration

3.10.3 DHCP Snooping

3.10.3.1 DHCP Snooping Bind List

The static bind of the DHCP Snooping will be shown , Click OLT

Configuration→DHCP→DHCP Snooping→Bind List

Bind List	Global	Port	Static Bind		
DHCP Snooping Bind List					
MAC Address	VLAN ID	IP Address	Port ID	Lease	Type
00:00:00:00:00:02	200	192.168.2.111	GE1	0	Static
FlushAll	FlushStatic	FlushDynamic	Refresh		

Figure 3-28:DHCP Snooping Bind List

3.10.3.2 Global

To prevent the DHCP message attacking and protect your network to get

a useful IP address, it can deny the DHCP offers packets. DHCP Snooping is used for denying the DHCP offers packets. The DHCP server is forbidden, which cannot allocate the IP address successfully. Click **OLT Configuration**→**DHCP**→**DHCP Snooping**→**Global** to enable DHCP Snooping.

DHCP Snooping Configuration	
DHCP Snooping	<input type="button" value="Enable"/> <input type="button" value="Disable"/> <input type="button" value="Submit"/> <input type="button" value="Reset"/>
DHCP Snooping Settings	
Option82 Control	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Option82 Strategy	<input type="radio"/> Drop <input checked="" type="radio"/> Keep <input type="radio"/> Replace
Overspeed Recovery	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Overspeed Recovery Interval	30 (3-3600s)
Binding Delete Time	300 (1-3600s)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	
VLAN ID List	
List	vlan200
VLAN ID	1
<input type="button" value="Add"/> <input type="button" value="Delete"/>	

Figure 3-29:DHCP Snooping Global

3.10.3.3 Port

The DHCP snooping ports are untrust by default. Click **OLT Configuration**→**DHCP**→**DHCP Snooping**→**Port** to configure

Bind List	Global	Port	Static Bind
DHCP Snooping Port Configuration			
Port ID	Type	Option82 Circuit ID	Option82 Remote ID
GE1	Untrust ▾	asd123456	111111
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

Figure 3-30:DHCP Snooping Port Setup

3.10.3.4 Static Bind

Fill in the MAC address, choose the VLAN ID, port ID and the lease time.

Click **OLT Configuration→DHCP→DHCP Snooping→Static Bind** to configure, as shown in Figure 3-31.

Bind List	Global	Port	Static Bind		
Add DHCP Snooping Bind					
MAC Address	00:00:00:00:02:01	(HH:HH:HH:HH:HH:HH)			
VLAN ID	200	▼			
IP Address	192.168.2.155				
Port ID	GE1	▼			
Lease	100	(60-1000000s)			
	Add				
Static DHCP Snooping Bind Table					
MAC Address	VLAN ID	IP Address	Port ID	Lease	Delete

Figure 3-31 DHCP Snooping Static Bind

3.11 IP Route

3.11.1 VLAN IP

Select the existing VLAN and set an IP address for this VLAN, as shown in Figure 3-32.

The screenshot shows a web-based configuration interface for VLAN IP. At the top, there are three tabs: 'VLAN IP' (which is selected), 'ARP Proxy', and 'Static Route'. Below the tabs, the main section is titled 'VLAN IP Configuration'. It contains three input fields: 'VLAN ID' (set to 200), 'IP Address' (set to 192.168.5.21), and 'Subnet Mask' (set to 255.255.255.0). Below these fields are two buttons: 'Submit' and 'Reset'. Further down, there is a section titled 'VLAN IP Table' with four buttons: 'VLAN ID', 'IP Address', 'Subnet Mask', and 'Delete'.

Figure 3-32:VLAN IP

3.11.2 ARP Proxy

When serves as a ARP proxy, the OLT processes the ARP request message via configuring the VLAN as the layer 3 interface. The VLAN ID configuration value ranges is from 1 to 4085.

First, configure the VLAN IP.

Then enable the ARP proxy.

VLAN IP	ARP Proxy	Static Route
ARP Proxy Configuration		
VLAN ID	200	
ARP Proxy	<input type="radio"/> Disable <input checked="" type="radio"/> Enable	
Submit		
ARP Proxy Table		
VLAN ID	ARP Proxy Status	
1	disable	
200	disable	

Figure 3-33: ARP proxy configuration

3.11.3 Static Route

OLT supports static route L3 function. Click **Static Route** to configure, as shown in Figure 3-34

VLAN IP	ARP Proxy	Static Route	
Add Static Route			
Destination IP	<input type="text"/>		
Destination Mask	<input type="text"/>		
Gateway	<input type="text"/>		
Add			
Static Route Table			
Destination IP	Destination Mask	Gateway	Delete
192.168.6.0	255.255.255.0	192.168.6.1	

Figure 3-34: Static Route

Chapter 4 ONU Configuration

This chapter is about the ONU management by OLT.

4.1 ONU List

This page shows about the ONU authentication list, search the ONU by MAC.

Click **ONU Configuration**→**ONU List**, shown as Figure 4-1.

ONU List	ONU Status	OPM Diag																																	
ONU Authentication Information																																			
Port ID <input type="text" value="PON1"/> <input type="button" value="Refresh"/>																																			
ONU Type	Authentication	<input type="button" value="Deregister"/> <input type="button" value="Reset"/> <input type="button" value="Unauth"/>																																	
MAC	(HH:HH:HH:HH:HH:HH)	<input type="button" value="Search"/>																																	
<table border="1"> <thead> <tr> <th>ONU ID</th><th>Status</th><th>MAC Address</th><th>Description</th><th>RTT</th><th>Type</th><th>Auth Flag</th><th>Exchange</th><th>Auth Mode</th><th>Loid/pwd</th><th>Action</th></tr> </thead> <tbody> <tr> <td>EPON0/1:1</td><td>Offline</td><td>00:13:25:00:00:01</td><td>N/A</td><td>0</td><td>N/A</td><td>Unauth</td><td>Idle</td><td>None</td><td>N/A</td><td>Profile Unauth</td></tr> <tr> <td>EPON0/1:2</td><td>Online</td><td>80:14:A8:31:F1:68</td><td>N/A</td><td>80</td><td>1GE+WIFI</td><td>Auth</td><td>Idle</td><td>None</td><td>N/A</td><td>Config Profile Deregister Reset Unauth</td></tr> </tbody> </table>			ONU ID	Status	MAC Address	Description	RTT	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd	Action	EPON0/1:1	Offline	00:13:25:00:00:01	N/A	0	N/A	Unauth	Idle	None	N/A	Profile Unauth	EPON0/1:2	Online	80:14:A8:31:F1:68	N/A	80	1GE+WIFI	Auth	Idle	None	N/A	Config Profile Deregister Reset Unauth
ONU ID	Status	MAC Address	Description	RTT	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd	Action																									
EPON0/1:1	Offline	00:13:25:00:00:01	N/A	0	N/A	Unauth	Idle	None	N/A	Profile Unauth																									
EPON0/1:2	Online	80:14:A8:31:F1:68	N/A	80	1GE+WIFI	Auth	Idle	None	N/A	Config Profile Deregister Reset Unauth																									

Figure 4-1 ONU List

4.1.1 Config

Click **ONU List→Config**, shown as Figure 4-2.

ONU List																																																				
ONU Authentication Information																																																				
Port ID <input type="text" value="PON1"/>																																																				
ONU Type <input type="text" value="Authentication"/> <input type="button" value="Deregister All"/> <input type="button" value="Reset All"/> <input type="button" value="UnAuth All"/>																																																				
<table border="1"> <thead> <tr> <th>ONU ID</th><th>LLID</th><th>Status</th><th>Last Dereg Reason</th><th>MAC Address</th><th>RTT</th><th>Description</th><th>Type</th><th>Auth Flag</th><th>Exchange</th><th>Auth Mode</th><th>Loid/pwd</th><th>Action</th></tr> </thead> <tbody> <tr> <td>1</td><td>-1</td><td>Offline</td><td>Power Off</td><td>80:14:A8:1A:E0:F8</td><td>49</td><td>NULL</td><td>2GE+1POTS</td><td>Unauth</td><td>Idle</td><td>None</td><td>NULL</td><td>Profile Unauth</td></tr> <tr> <td>2</td><td>-1</td><td>Offline</td><td>Wire Down</td><td>80:14:A8:20:B6:D0</td><td>94</td><td>NULL</td><td>1GE</td><td>Unauth</td><td>Idle</td><td>None</td><td>NULL</td><td>Profile Unauth</td></tr> <tr> <td>3</td><td>2</td><td>Online</td><td>Wire Down</td><td>80:14:A8:3A:31:40</td><td>96</td><td>NULL</td><td>1GE+WIFI</td><td>Auth</td><td>Idle</td><td>None</td><td>NULL</td><td>Config Profile Deregister Reset Unauth</td></tr> </tbody> </table>	ONU ID	LLID	Status	Last Dereg Reason	MAC Address	RTT	Description	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd	Action	1	-1	Offline	Power Off	80:14:A8:1A:E0:F8	49	NULL	2GE+1POTS	Unauth	Idle	None	NULL	Profile Unauth	2	-1	Offline	Wire Down	80:14:A8:20:B6:D0	94	NULL	1GE	Unauth	Idle	None	NULL	Profile Unauth	3	2	Online	Wire Down	80:14:A8:3A:31:40	96	NULL	1GE+WIFI	Auth	Idle	None	NULL	Config Profile Deregister Reset Unauth
ONU ID	LLID	Status	Last Dereg Reason	MAC Address	RTT	Description	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd	Action																																								
1	-1	Offline	Power Off	80:14:A8:1A:E0:F8	49	NULL	2GE+1POTS	Unauth	Idle	None	NULL	Profile Unauth																																								
2	-1	Offline	Wire Down	80:14:A8:20:B6:D0	94	NULL	1GE	Unauth	Idle	None	NULL	Profile Unauth																																								
3	2	Online	Wire Down	80:14:A8:3A:31:40	96	NULL	1GE+WIFI	Auth	Idle	None	NULL	Config Profile Deregister Reset Unauth																																								
<input type="button" value="Refresh"/>																																																				

Figure 4-2 Configure ONU

4.1.1.1 Information

Click **ONU List→Config→Information**, show the ONU information.

ONU List

Information Bandwidth Port VLAN QoS IGMP Alarm WAN WIFI Advance PON 1 ONU 3 80:14:A8:3A:31:40 Go Back

Basic Information

Description	<input type="text"/>			<input type="button" value="Submit"/>
-------------	----------------------	--	--	---------------------------------------

Basic Information

Vendor ID	VSOL	Model ID	28RW
ONU ID	8014a83a3140	Hardware Version	V1.1
Software Version	V1.9.7	Firmware Version	0x312e312e322044656320323020323031

Optical Module Information

Temperature	43 C	Supply Voltage	3.30 V
Bias Current	17 mA	Transmit Power	1.5100 mW (1.7898 dBm)
Receive Power	0.5681 mW (-2.4558 dBm)		

CAP2 Information

ONU Type	0x1000000	Multi LLID	unsupport
Protection Type	unsupport	PONIF Count	1
Slot Count	0	Interface Type Count	2
Interface Type Port	GE(1); WLAN(1);		

Figure 4-3 ONU Information

4.1.1.2 Bandwidth

Limited the ONU upstream and downstream.

Click **ONU List**→**Config**→**Bandwidth**

ONU List

Information Bandwidth Port VLAN QoS IGMP Alarm WAN WIFI Advance

Bandwidth Configuration

Type	Enable	Content	
Upstream	<input checked="" type="checkbox"/>	Fix Rate <input type="text" value="10000"/>	(0-950000Kbps)
		Commit Rate <input type="text" value="10000"/>	(1-950000Kbps)
		Peak Rate <input type="text" value="10000"/>	(512-1000000Kbps)
		WRR Weight <input type="text" value="1"/>	(1-20)
Downstream	<input checked="" type="checkbox"/>	Peak Rate <input type="text" value="10000"/>	(0-1000000Kbps)
		WRR Weight <input type="text" value="1"/>	(1-16)

Figure 4-4 ONU Bandwidth

4.1.1.3 Port

The ONU port basic configuration switch can be operated. And this page can

configure the ONU port bandwidth.

Click **ONU List**→**Config**→**Port**, shown as Figure 4-5

The screenshot shows the 'Port Basic Configuration' section with 'ONU Port' set to 'Port1'. Under 'Basic Configuration', 'Link Status' is 'Down'. Checkboxes for 'Admin Status', 'Auto Negotiation', 'Flow Control', and 'Loop Detection' are checked. A 'Submit' button is present. Below this is the 'Bandwidth Configuration' section, which includes a table for upstream and downstream settings. For upstream, 'Type' is 'Upstream', 'Enable' is checked, and 'Content' includes 'Commit Rate 1000 (0-1048576kbit/s)', 'Certain Burst 100 (0-10240byte)', and 'Extra Burst 100 (0-10240byte)'. For downstream, 'Type' is 'Downstream', 'Enable' is checked, and 'Content' includes 'Commit Rate 1000 (0-1048576kbps)' and 'Peak Rate 1000 (0-1048576kbps)'. A final 'Submit' button is at the bottom.

Type	Enable	Content
Upstream	<input checked="" type="checkbox"/>	Commit Rate 1000 (0-1048576kbit/s) Certain Burst 100 (0-10240byte) Extra Burst 100 (0-10240byte)
Downstream	<input checked="" type="checkbox"/>	Commit Rate 1000 (0-1048576kbps) Peak Rate 1000 (0-1048576kbps)

Figure 4-5 ONU Port Configuration

4.1.1.4 VLAN

ONU port default VLAN mode is transparent, the VLAN mode can be changed to tag mode, translation mode, aggregation mode, trunk mode.

Click **ONU List**→**Config**→**VLAN**, shown as Figure 4-6.

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	Advance
-------------	-----------	------	------	-----	------	-------	-----	------	---------

VLAN Configuration

ONU Port: Port1
VLAN Mode: tag
PVID: 1000 (1-4095)

Figure 4-6 ONU Port VLAN

4.1.1.5 QoS

The QoS take effect with ONU port. Click **ONU List**→**Config**→**QoS**, shown as Figure 4-7.

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	Advance
-------------	-----------	------	------	-----	------	-------	-----	------	---------

Port Class Configuration

ONU Port: Port1
Precedence: 1 (1-8) Priority: 1 (0-7) Queue: 1 (0-7)

<input checked="" type="checkbox"/> Destination MAC	Equal	00:00:00:00:00:03	(HH:HH:HH:HH:HH:HH)
<input checked="" type="checkbox"/> Source MAC	Equal	00:00:00:00:00:02	(HH:HH:HH:HH:HH:HH)
<input type="checkbox"/> VLAN	Equal		(1-4094)
<input type="checkbox"/> COS	Equal		(0-7)
<input type="checkbox"/> Ethernet Type	Equal		
<input type="checkbox"/> Destination IP	Equal		
<input type="checkbox"/> Source IP	Equal		
<input type="checkbox"/> Protocol	Equal		(0-255)
<input type="checkbox"/> TOS	Equal		(0-255)
<input type="checkbox"/> Destination Port	Equal		(0-65535)
<input type="checkbox"/> Source Port	Equal		(0-65535)

Figure 4-7 QoS Configuration

4.1.1.6 IGMP

Configure the ONU IGMP mode(Snooping or CTC Control),and the IGMP VLAN mode.

Click **ONU List→Config→IGMP**, shown as Figure 4-8.

Multicast Max Group	64 Submit
Multicast VLAN	2000 Submit
VLAN Tag Strip Mode	Strip Submit

Figure 4-8 IGMP Configuration

4.1.1.7 Alarm

Show the ONU alarm status and threshold. Click **ONU List → Config → IGMP** , shown as Figure 4-9.

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	Advance
ONU Alarm Information									
Alarm Type	Equipment Alarm ▾								
Alarm Status									
PON Alarm Information									
Alarm Type	Rx Power High Alarm ▾								
Alarm Status									
Alarm Threshold	-inf dBm								
Clear Threshold	-inf dBm								
Port Alarm Information									
Port ID	Port1 ▾								
Alarm Type	Ethernet Port Auto Neg Failure ▾								
Alarm Status									
Alarm Threshold									
Clear Threshold									

Figure 4-9 ONU Alarm

4.1.1.8 WAN

This is the private OAM between OLT and ONU. When the connected ONU support this function, the option "WAN" can be show in this page.

Click **ONU List → Config → WAN** , fill in the parameter, click "**Add**" then click "**Submit**" it will take effect, shown as Figure 4-10.

ONU List										
Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	Advance	
WAN Connect Table										
Index	WAN Mode	Connect Mode	VLAN Mode	Service Mode	Configuration Info	Status				
WAN Connect Parameter Configuration										
Mode	<input type="text" value="bridge"/>									
VLAN Mode	<input type="text" value="Tag"/>									
VLAN ID	<input type="text" value="1000"/> (0-4095)									
VLAN Cos	<input type="text" value="0"/> (0-7)									
Qinq Enable	<input type="text" value="Disable"/>									
Qinq Tpid	<input type="text"/> (0-65534)									
SVLAN ID	<input type="text"/> (0-4095)									
SVLAN Cos	<input type="text"/> (0-7)									
QOS Enable	<input type="text" value="Disable"/>									
Service Mode	<input type="text" value="Internet"/>									
Port Binding	<input type="checkbox"/> Lan1 <input type="checkbox"/> Lan2 <input type="checkbox"/> Lan3 <input type="checkbox"/> Lan4 <input type="checkbox"/> SSID1 <input type="checkbox"/> SSID2 <input type="checkbox"/> SSID3 <input type="checkbox"/> SSID4									
<input style="outline: none; border: 1px solid red; border-radius: 5px; padding: 2px 10px; background-color: #007bff; color: white; font-weight: bold; margin-bottom: 5px;" type="button" value="Add"/>										
WAN Connect running-config										
Index	onu running-config					Delete				
1	ConnectType : bridge, WanMode : internet, VLAN Mode :Tag, VLAN ID:1000, VLAN Cos:0									
<input style="outline: none; border: 1px solid red; border-radius: 5px; padding: 2px 10px; background-color: #007bff; color: white; font-weight: bold;" type="button" value="Submit"/>										

Figure 4-10 WAN Connection

4.1.1.9 WIFI

This is the private OAM between OLT and ONU. When the connected ONU support this function, the option "WIFI" can be show in this page. Click **ONU List → Config → WIFI**, the SSID and the password can be set, shown as Figure 4-11.

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	Advance
WIFI Switch Configuration									
Status	enable								
Communication Rules	ETSI								
Protocol Cluster	80211bgn								
Channel	0	(0-13)							
Transmit Power	20	(0-20)							
<input type="button" value="submit"/> <input type="button" value="Delete"/>									
WIFI SSID Configuration									
SSID	SSID1								
ONU WIFI Status	enable								
Encryption Status	disable								
Name	qwerty								
Network Authentication	Open								
Encrypt Type	NONE								
<input type="button" value="submit"/>									
WIFI SSID Table									
wifi_ssid	wifi status	name	hide	auth_mode	encrypt_type	content	delete		
1	enable	qwerty	disable	OPEN	NONE				

Figure 4-11 WIFI Setting

4.1.1.10 DHCP Server

This is the private OAM between OLT and ONU. When the connected ONU support this function, the option "DHCP Server" can be show in this page.

Click **ONU List → Config → DHCP Server**, the ONU Lan port DHCP server can be changed, shown as Figure 4-12.

ONU List	ONU Status	OPM Diag							
Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	DHCP Server
Advance									
DHCP Server Configuration									
LAN IP Address	192.168.2.1								
LAN Subnet Mask	255.255.255.0								
DHCP Server	Enable								
Lease Time	3600 (0-4294967295)								
Beginning IP Address	192.168.2.2								
Ending IP Address	192.168.2.254								
Pool Type	PC								
Master DNS	8.8.8.8								
Slave DNS	8.8.8.8								
Gateway	192.168.2.1								
Submit									

Figure 4-12 DHCP Server Setting

4.1.1.11 Advance

ONU management IP and ONU MAC aging time can be set. The ONU which support management IP and MAC aging time can take effect. Click **ONU List → Config → Advance**, shown as Figure 4-13.

ONU List									
Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	WAN	WIFI	Advance
Management IP Configuration									
IP Address	192.168.5.126								
Network Mask	255.255.255.0								
Gateway	192.168.5.1								
Client VLAN	1000 (0-4095)								
Service VLAN	0 (0-4095)								
Priority	0 (0-7)								
Submit									
MAC Aging Configuration									
Aging Time	600 (0-65535)								
Submit									

Figure 4-13 Advance

4.1.1.12 VoIP

VoIP ONU can set the VoIP global parameter.

ONU List → Config → VoIP, shown as Figure 4-14.

VoIP Global Configuration	
Voice IP Mode	Static IP
IP Address	192.168.6.66 (x.x.x.x)
Network Mask	255.255.255.0 (x.x.x.x)
Default Gateway	192.168.6.1 (x.x.x.x)
Tagged Flag	Tag
Voice Client VLAN	1000 (0-4095)
Voice Service VLAN	0 (0-4095)
Voice Priority	7 (0-7)

IAD Operation Status	
IAD Operation Status	IAD fault
Set IAD Operation	Reregister Deregister Reset

Fax/Modem Configuration	
Voice T38 Status	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Fax/Modem Control	<input checked="" type="radio"/> Negotiation <input type="radio"/> Auto VBD

Figure 4-14 VoIP Global

4.1.1.13 SIP

VoIP ONU SIP parameter can be set in this page.

ONU List → Config → SIP, shown as Figure 4-15.

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	VoIP	SIP	POTS	Alarm	Advance
SIP Parameter Configuration										
Manage Port	5060	(1-65535)								
Proxy Service IP/Port	192.168.6.33	(x.x.x.x)	5060	(1-65535)						
Backup Proxy Service IP/Port	0.0.0.0	(x.x.x.x)	5060	(1-65535)						
Register Service IP/Port	192.168.6.33	(x.x.x.x)	5060	(1-65535)						
Backup Register Service IP/Port	0.0.0.0	(x.x.x.x)	5060	(0-65535)						
Out Bound Service IP/Port	0.0.0.0	(x.x.x.x)	5060	(0-65535)						
Register Interval	3600	(0-65535)								
Heartbeat Switch	Disable	▼								
Heartbeat Cycle	30	(1-65535)								
Heartbeat Count	1	(1-65535)								
<input type="button" value="Submit"/>										

Figure 4-15 SIP Parameter

4.1.1.14 POTS

VoIP ONU POTS account and password set in this page, the length can't be more than 16 bits.

ONU List → Config →POTS, shown as Figure 4-16.

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	VoIP	SIP	POTS	Alarm	Advance
-------------	-----------	------	------	-----	------	------	-----	------	-------	---------

VoIP POTS Configuration

VoIP Port

POTS Information

Port Status	Inactive
Services State	EndNormal
Codec Mode	G711U

Manage Configuration

Manage Status Disable Enable

SIP User Parameter Configuration

User Account	1212421212
User name	1212121212
User Password	1111111111

Figure 4-16 POTS Setting

4.1.2 Profile

All the profile are shown in this page, choose the suitable profile binding the ONU. Click **ONU Configuration**→**ONU List**→**Profile**, shown as Figure 4-17.

ONU List

Binding: PON 1 ONU 1 80:14:A8:3A:31:40 [Go Back](#)

DBA Profile ID	1
Service Profile ID	1
VoIP Profile ID	
Alarm Profile ID	1

Submit **Reset**

DBA Profile **Service Profile** **VoIP Profile** **Alarm Profile**

DBA Profile Information

Profile ID	1
Description	
Key	Value
Upstream	FIR : 50000 CIR : 50000 PIR : 50000 WEIGHT : 1
Downstream	PIR : 50000 WEIGHT : 1

Figure 4-17 Profile Bind

4.1.3 Deregister Reset Unauth

Single ONU can be operated deregister, reset(reboot), unauth. And the same PON ONU can be operated batch. Click **ONU Configuration**→**ONU List**, shown as Figure 4-18.

ONU List

ONU Authentication Information

Port ID	PON1										
ONU Type	Authentication										
Deregister All Reset All UnAuth All											
ONU ID	LLID	Description	MAC Address	RTT	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd	Last Dereg Reason	Action
1	-1	NULL	80:14:A8:3A:31:40	97	1GE+WIFI	Unauth	Idle	None	NULL	Wire Down	Profile Unauth
2	1	NULL	80:14:A8:1A:E0:F8	50	2GE+1POTS	Auth	Idle	None	NULL	Wire Down	Config Profile Deregister Reset Unauth

Refresh

Figure 4-18 Deregister Reset Unauth Setting

4.1.4 ONU Status

Showing about the ONU information of the activity. User can check "Last Register Time", "Last Deregister Reason", "Active Time" for each ONU.

Click **ONU Configuration**→**ONU List**→**ONU Status**, shown as Figure 4-19.

ONU ID	Status	MAC Address	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
EPON0/1:1	Offline	00:13:25:00:00:01	N/A	N/A	N/A	0 00:00:00
EPON0/1:2	Online	80:14:A8:31:F1:68	2000/01/01 07:52:43	2000/01/01 07:50:56	Wire Down	0 15:28:43

Figure 4-19 ONU Status

4.1.5 OPM Diag

Check the ONU RX power, a batch of ONU RX power information can be shown in a list. Clearly to check the register power, when register issue happen. Click **ONU Configuration**→**ONU List**→**OPM Diag**, shown as

Figure 4-20.

ONU ID	MAC Address	Temperature(C)	Supply Voltage(V)	TX Bias Current(mA)	TX Power(dBm)	RX Power(dBm)
EPON0/1:2	80:14:A8:31:F1:68	59.52	3.27	7.94	1.93	-15.83

Figure 4-20 OPM Diag

4.2 Authentication

4.2.1 Authentication Mode

Authentication mode is basic on PON, it is "Disable" mode by default.

There are 4 modes of the ONU authentication: Disable mode, MAC mode, LOID mode and Hybrid mode. Click **ONU**

Configuration→Authentication → Authentication Mode, shown as

Figure 4-21

ONU Authentication	
Port ID	Authentication Mode
PON1	MAC
PON2	Disable
PON3	Disable
PON4	Disable
PON5	Disable
PON6	Disable
PON7	Disable
PON8	Disable

submit

Figure 4-21 Authentication Mode

4.2.2 MAC list

When the ONU authentication mode is MAC mode, only ONUs with their MAC on the white list can register to the OLT. The black MAC list ONU cannot register whatever the mode.

Click **ONU Configuration→Authentication→MAC List**, shown as Figure 4-22.

Index	MAC	Delete
1	80:14:A8:1A:E0:F8	

Figure 4-22 MAC List

4.2.3 LOID List

When the authentication mode is LOID, only the ONUs on the LOID list can register to the OLT. Click **ONU Configuration→Authentication→LOID List**, shown as Figure 4-23..

Authentication Mode	MAC List	LOID List
---------------------	----------	-----------

ONU LOID

Port ID

Add LOID

LOID

Password

ONU LOID Authentication Table

Index	LOID	Password	Delete
1	epon1234567	1234567	

Figure 4-23 LOID List

4.3 Upgrade

ONU upgrade by OLT

4.3.1 Upgrade Status

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

Click **ONU Configuration**→**Upgrade**→**Upgrade Status**, shown as Figure 4-24.

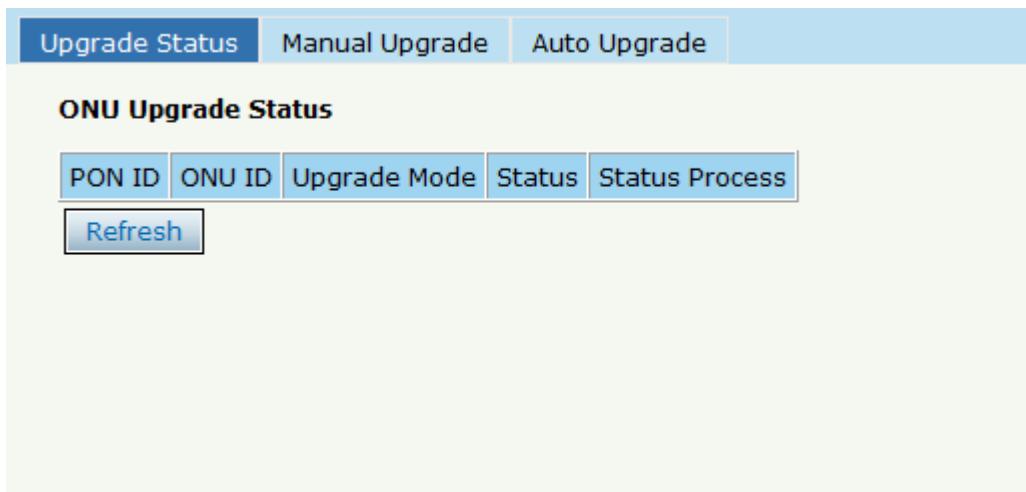


Figure 4-24 ONU Upgrade Status

4.3.2 Manual Upgrade

Choose the ONU which need to upgrade, select the ONU(fill in the ONU ID),browse the firmware ,click upgrade will be OK.

Click **ONU Configuration**→**Upgrade**→**Manual Upgrade**, shown as Figure 4-25.

This screenshot displays the 'Manual Upgrade' configuration page. At the top, it features a navigation bar with 'Upgrade Status' (selected), 'Manual Upgrade' (selected), and 'Auto Upgrade' tabs. Below the navigation bar is a section titled 'Select ONU Upgrade' containing a dropdown menu for 'Port ID' set to 'PON1' and a grid for selecting multiple ONUs. The grid consists of four columns and two rows of input fields. Below this is a 'Submit' button and a 'Reset' button. Further down, there is a section titled 'ONU Upgrade Information' with buttons for 'Port ID', 'Select ONU', and 'Delete'. At the bottom, there is a section titled 'ONU Firmware Upgrade' with a 'Select File:' input field, a 'Browse...' button, and a large blue 'Upgrade' button.

Figure 4-25 Manual Upgrade

4.3.3 Auto Upgrade

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

Click **ONU Configuration**→**Upgrade**→**Auto Upgrade**, shown as Figure 4-26.

Force State	Verdor ID	Model ID	Software Version	Image Name	IP Address	Delete
-------------	-----------	----------	------------------	------------	------------	--------

Figure 4-26 Auto Upgrade

Chapter 5 Profile Configuration

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

5.1 DBA Profile

All the ONU will be bound an default DBA profile. When the user bind manually, the new template will take effect.

5.1.1 Add/Commit

Add a DBA profile first, Click **Profile Configuration**→**DBA Profile** → **Add/Commit**, shown as Figure 5-1.

The screenshot shows a software interface for managing DBA profiles. At the top, there are two tabs: 'Add/Commit' (which is highlighted in blue) and 'Bandwidth'. Below the tabs, there's a section titled 'Create DBA Profile' with a 'Profile ID' input field containing the value '1' and a '(1-32767)' placeholder. A blue 'Add' button is positioned below the input field. Underneath this, there's a section titled 'DBA Profile Information' with a 'Profile ID' dropdown menu set to '1', and 'Delete' and 'Commit' buttons. At the bottom, there's a table header with columns 'Key' and 'Value'.

Figure 5-1 Add/Commit DBA Profile

5.1.2 Bandwidth

Select the DBA profile ID, configure the content of DBA. Click **Profile Configuration**→**DBA Profile** → **Add/Bandwidth**, shown as Figure 5-2.

Add/Commit Bandwidth

DBA Profile Bandwidth

Type	Active	Configuration content	
Upstream Configuration	<input checked="" type="checkbox"/>	Upstream FIR	222222 (0-950000Kbps)
		Upstream CIR	222222 (1-950000Kbps)
		Upstream PIR	222222 (512-1000000Kbps)
		Upstream Weight	1 (1-20)
Downstream Configuration	<input checked="" type="checkbox"/>	Downstream PIR	276567 (0-1000000Kbps)
		Downstream Weight	1 (1-16)

Submit

Figure 5-2 Bandwidth Content

5.2 Service Profile

The ONU service configuration can be set as a profile.

5.2.1 Add/Commit

Add a service profile ID first, Click **Profile Configuration→Service Profile**

→ **Add/Commit**, shown as Figure 5-3.

Add/Commit LAN Count Global Port VLAN QoS IGMP WAN WIFI DHCP Server

Create Service Profile

Profile ID	2 (1-32767)
Add	

Service Profile Information

Profile ID	2	Delete	Commit
Description	Submit		

Key	Value
Ports Count	0
Global Parameter	

Figure 5-3 Add/Commit Service Profile

5.2.2 Content

The server profile configuration contain **LAN Conut, Global(MAC Age time), Port, VLAN, QoS, IGMP, WAN , WIFI, DHCP Server** etc.

Click **Profile Configuration→Service Profile**

Add/Commit	LAN Count	Global	Port	VLAN	QoS	IGMP	WAN	WIFI	DHCP Server
Service Profile Lan Count									
Profile ID	1								
Type	Active	Configuration content							
Lan Count	<input checked="" type="checkbox"/>	4 (0-255)							
Submit									

Figure 5-4 LAN Count

Add/Commit	LAN Count	Global	Port	VLAN	QoS	IGMP	WAN	WIFI	DHCP Server
Service Profile MAC Age Time									
Profile ID	1								
Type	Active	Configuration content							
MAC Agetime	<input checked="" type="checkbox"/>	3456789 (0-4294967295)							
Submit									

Figure 5-5 Global

5.3 VoIP Profile

The VoIP ONU can use this profile.

5.3.1 Add/Commit

Add a VoIP profile ID first, Click **Profile Configuration**→**VoIP Profile** → **Add/Commit**, shown as Figure 5-6.

The screenshot shows a user interface for creating a VoIP profile. At the top, there is a navigation bar with tabs: 'Add/Commit', 'POTS Count', 'VoIP', 'SIP', 'H.248', and 'POTS'. The 'Add/Commit' tab is currently selected. Below the navigation bar, the title 'Create VoIP Profile' is displayed. A 'Profile ID' input field contains the value '1', with a note '(1-32767)' next to it. Below the input field is a blue 'Add' button. Further down, there is a section titled 'VoIP Profile Information' containing a dropdown menu with '1' selected, a 'Delete' button, and a 'Commit' button. There is also a 'Description' input field and a 'Submit' button.

Figure 5-6 Add/Commit VoIP Profile

5.3.2 Content

The VoIP profile configuration contain **POTS Count**, **VoIP**, **SIP**, **H.248**, **POTS** etc. Click **Profile Configuration**→**VoIP Profile**.

The screenshot shows a user interface for managing POTS count profiles. At the top, there is a navigation bar with tabs: 'Add/Commit', 'POTS Count', 'VoIP', 'SIP', 'H.248', and 'POTS'. The 'POTS Count' tab is currently selected. Below the navigation bar, the title 'POTS Count Profile' is displayed. A 'Profile ID' dropdown menu shows the value '1'. A table below the dropdown lists a single entry: 'POTS Count' with an 'Active' checkbox checked, and a 'Pots Count' input field containing the value '2' with a note '(0-255)'. At the bottom of the table is a blue 'Submit' button.

Figure 5-7 POTS Count

Add/Commit	POTS Count	VoIP	SIP	H.248	POTS																																																		
VoIP Global Profile																																																							
Profile ID <input type="text" value="1"/>																																																							
<table border="1"> <thead> <tr> <th>Type</th> <th>Active</th> <th colspan="4">Content</th> </tr> </thead> <tbody> <tr> <td rowspan="2">VoIP Global</td> <td rowspan="2"><input checked="" type="checkbox"/></td> <td>Voice IP Mode</td> <td>PPPoE</td> <td colspan="2"></td> </tr> <tr> <td>PPPoE Mode</td> <td>AUTO</td> <td colspan="2"></td> </tr> <tr> <td rowspan="3">Fax/Modem</td> <td rowspan="3"><input checked="" type="checkbox"/></td> <td>UserName</td> <td><input type="text" value="1212121"/></td> <td>Password</td> <td><input type="text" value="11111"/></td> </tr> <tr> <td>VLAN Mode</td> <td>VLAN Stacking</td> <td colspan="2"></td> </tr> <tr> <td>CVLAN</td> <td><input type="text" value="1000"/></td> <td>(0-4095)</td> <td>SVLAN</td> <td><input type="text" value="0"/></td> <td>(0-4095)</td> </tr> <tr> <td colspan="6">Priority <input type="text" value="7"/> (0-7)</td> </tr> <tr> <td colspan="6"> Voice T38 Status <input type="text" value="enable"/> Fax/Modem Control <input type="text" value="negotiation"/> </td> </tr> <tr> <td colspan="6"> <input type="button" value="Submit"/> </td> </tr> </tbody> </table>						Type	Active	Content				VoIP Global	<input checked="" type="checkbox"/>	Voice IP Mode	PPPoE			PPPoE Mode	AUTO			Fax/Modem	<input checked="" type="checkbox"/>	UserName	<input type="text" value="1212121"/>	Password	<input type="text" value="11111"/>	VLAN Mode	VLAN Stacking			CVLAN	<input type="text" value="1000"/>	(0-4095)	SVLAN	<input type="text" value="0"/>	(0-4095)	Priority <input type="text" value="7"/> (0-7)						Voice T38 Status <input type="text" value="enable"/> Fax/Modem Control <input type="text" value="negotiation"/>						<input type="button" value="Submit"/>					
Type	Active	Content																																																					
VoIP Global	<input checked="" type="checkbox"/>	Voice IP Mode	PPPoE																																																				
		PPPoE Mode	AUTO																																																				
Fax/Modem	<input checked="" type="checkbox"/>	UserName	<input type="text" value="1212121"/>	Password	<input type="text" value="11111"/>																																																		
		VLAN Mode	VLAN Stacking																																																				
		CVLAN	<input type="text" value="1000"/>	(0-4095)	SVLAN	<input type="text" value="0"/>	(0-4095)																																																
Priority <input type="text" value="7"/> (0-7)																																																							
Voice T38 Status <input type="text" value="enable"/> Fax/Modem Control <input type="text" value="negotiation"/>																																																							
<input type="button" value="Submit"/>																																																							

Figure 5-8 VoIP

5.4 Alarm Profile

5.4.1 Add/Commit

Add a alarm profile ID first, Click **Profile Configuration**→**Alarm Profile** →

Add/Commit, shown as Figure 5-9.

Add/Commit	ONU	PON	Port	POTS
Create Alarm Profile				
Profile ID <input type="text" value="1"/> (1-32767)				
<input type="button" value="Add"/>				
Alarm Profile Information				
Profile ID <input type="text" value="1"/> <input type="button" value="Delete"/> <input type="button" value="Commit"/>				
Description <input type="text"/> <input type="button" value="Submit"/>				

Figure 5-9 Add/Commit Alarm Profile

5.4.2 Content

The alarm profile contains **ONU global threshold alarm, PON alarm, Port alarm, POTS alarm, etc.** Click **Profile Configuration→Alarm Profile**.

The screenshot shows the 'ONU Alarm Profile Configuration' page. At the top, there are tabs: 'Add/Commit' (selected), 'ONU', 'PON', 'Port', and 'POTS'. Below the tabs, the title 'ONU Alarm Profile Configuration' is displayed. A dropdown menu for 'Profile ID' shows '1'. The main area is a table with 14 rows, each representing a different alarm type. The columns are 'Alarm Type', 'Active' (checkbox), and 'State / Alarm Threshold / Clear Threshold'. The 'Active' column contains checkboxes, most of which are checked. The 'State' column contains radio buttons for 'Enable' (blue) and 'Disable' (grey). The 'Threshold' column contains input fields for 'Min' and 'Max' values, along with a note '(0..65535,units:0.1V)' or similar. The alarms listed are: Equipment Alarm, Power Alarm, Battery Missing, Battery Failure, Battery Volt Low, Physical Intrusion, ONU Self Test Failure, ONU Temp High Alarm, ONU Temp Low Alarm, Iad Connection Failure, PON If Switch, and Sleep Status Update.

Alarm Type	Active	State / Alarm Threshold / Clear Threshold
Equipment Alarm	<input checked="" type="checkbox"/>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Power Alarm	<input checked="" type="checkbox"/>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Battery Missing	<input checked="" type="checkbox"/>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Battery Failure	<input checked="" type="checkbox"/>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Battery Volt Low	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 3 3 (0..65535,units:0.1V)
Physical Intrusion	<input checked="" type="checkbox"/>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
ONU Self Test Failure	<input checked="" type="checkbox"/>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
ONU Temp High Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 1280 1280 (-1280..1280,units:0.1C)
ONU Temp Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> -1280 -1280 (-1280..1280,units:0.1C)
Iad Connection Failure	<input checked="" type="checkbox"/>	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
PON If Switch	<input checked="" type="checkbox"/>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Sleep Status Update	<input checked="" type="checkbox"/>	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

Figure 5-10 ONU Global Alarm

PON Alarm Profile

Alarm Type	Active	State / Alarm Threshold / Clear Threshold		
Rx Power High Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	82	82 (-400..82,units:0.1dBm)
Rx Power Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-400	-400 (-400..82,units:0.1dBm)
Tx Power High Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	82	82 (-400..82,units:0.1dBm)
Tx Power Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-400	-400 (-400..82,units:0.1dBm)
Tx Bias High Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1310	1310 (0..1310,units:0.1mA)
Tx Bias Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	100	100 (0..1310,units:0.1mA)
Vcc High Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	65	65 (0..65,units:0.1V)
Vcc Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	10 (0..65,units:0.1V)
Temp High Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1280	1280 (-1280..1280,units:0.1C)
Temp Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-1210	-1210 (-1280..1280,units:0.1C)

Figure 5-11 PON Alarm

5.5 Bind Profile

The DBA profile, server profile, VoIP profile, alarm profile can be bound to the ONU.

5.5.1 Information

In this page, the ONU profile bind list will be shown, and configure the ONU profile by click the "Config", Click **Profile Configuration→Bind Profile→Information**.

Bind Profile Information								
Port ID			Profile ID					
ONU ID	MAC Address	Type	DBA	Service	VoIP	Alarm	Default Service	Bind
1	00:0B:05:62:F2:08	Unknown	1	1	1	1	0x0	Config
2	80:14:A8:20:B8:10	Unknown	0	0	0	0	0x0	Config
3	80:14:A8:20:B6:20	Unknown	0	0	0	0	0x0	Config
4	80:14:A8:20:B5:E8	Unknown	0	0	0	0	0x0	Config
5	00:13:25:00:00:01	Unknown	0	0	0	0	0x0	Config
6	80:14:A8:20:B7:00	Unknown	0	0	0	0	0x0	Config
7	80:14:A8:20:B7:40	Unknown	1	1	1	1	0x0	Config
8	80:14:A8:20:B6:68	Unknown	0	0	0	0	0x0	Config
9	80:14:A8:20:B6:80	Unknown	1	1	1	1	0x0	Config
10	80:14:A8:20:B6:60	Unknown	1	1	1	1	0x0	Config
11	80:14:A8:20:B7:F0	Unknown	0	0	0	0	0x0	Config
12	80:14:A8:20:B6:48	Unknown	1	1	0	0	0x0	Config
13	80:14:A8:20:B6:C8	Unknown	1	0	1	0	0x0	Config
14	80:14:A8:20:B5:E0	Unknown	1	0	1	0	0x0	Config
15	80:14:A8:20:B7:E0	Unknown	1	1	0	0	0x0	Config

Figure 5-12 Bind Profile Information

Information		Configuration	
Binding: PON 1 ONU 1 00:0B:05:62:F2:08 Go Back			
DBA Profile ID	1	Service Profile ID	1
VoIP Profile ID	1	Alarm Profile ID	1
<input type="button" value="Submit"/> <input type="button" value="Reset"/>			
DBA Profile		Service Profile	
VoIP Profile		Alarm Profile	
DBA Profile Information			
Profile ID	1	Description	
Key	Value		
Upstream	FIR : 222222 CIR : 222222 PIR : 222222 WEIGHT : 1		
Downstream	PIR : 276567 WEIGHT : 1		

Figure 5-13 Config

5.5.2 Configuration

In this page, the ONU list about the profile binding will be show, batch to bind the profile can be allowed. Click **Profile Configuration**→**Bind Profile**→**Configuration**.

The screenshot shows a web-based configuration interface for managing ONU profile bindings. At the top, there are two tabs: "Information" (selected) and "Configuration". Below the tabs, a section titled "Bind Profile Information" is displayed. A dropdown menu labeled "Port ID" is set to "PON1". The main area is a table with 10 rows, each representing an ONU. The columns are: ONU ID, MAC Address, Type, DBA, Service, VoIP, and Alarm. The "DBA" column contains dropdown menus with the value "1" selected. The "Service" and "VoIP" columns also contain dropdown menus with the value "1" selected. The "Alarm" column contains dropdown menus with the value "1" selected.

ONU ID	MAC Address	Type	Profile ID			
			DBA	Service	VoIP	Alarm
1	00:0B:05:62:F2:08	Unknown	1	1	1	1
2	80:14:A8:20:B8:10	Unknown				
3	80:14:A8:20:B6:20	Unknown				
4	80:14:A8:20:B5:E8	Unknown				
5	00:13:25:00:00:01	Unknown				
6	80:14:A8:20:B7:00	Unknown				
7	80:14:A8:20:B7:40	Unknown	1	1	1	1
8	80:14:A8:20:B6:68	Unknown				
9	80:14:A8:20:B6:80	Unknown	1	1	1	1
10	80:14:A8:20:B6:60	Unknown	1	1	1	1

Figure 5-14 Bind Profile Configuration

Chapter 6 System Configuration

This chapter is about the global management of OLT.

6.1 System Log

6.1.1 System Log

Click **System Configuration**→**System Log** to view system event and alarm information.

Alarm Log Table						
Select Counts		200				
Alarm Type		ALL				
No.1	Page/Total 10 Page	20 Item per page/Total 200 Item	First	Previous	Next	Last
No.	Time	Level	Message			
1	1999/12/31 07:17:18	major	ONU Finish PON 0/1 ONU 61 80:14:A8:20:B6:D0.			
2	1999/12/31 07:17:15	major	ONU AUTH Success PON 0/1 ONU 61 80:14:A8:20:B6:D0.			
3	1999/12/31 07:17:12	major	ONU Register PON 0/1 LLID 000 ONU 80:14:A8:20:B6:D0.			
4	1999/12/31 07:17:12	major	PON LOS Recovery PON 0/1 Link-Up			
5	1999/12/31 07:17:07	major	ONU Deregister PON 0/5 ONU 80:14:A8:20:B6:D0 MPCP TIMEOUT.			
6	1999/12/31 07:17:06	major	PON LOS PON 0/5 Link-Down			
7	1999/12/31 07:17:05	major	ONU AUTH Success PON 0/5 ONU 1 80:14:A8:20:B6:D0.			
8	1999/12/31 07:17:02	major	PON LOS Recovery PON 0/5 Link-Up			
9	1999/12/31 07:17:02	major	ONU Register PON 0/5 LLID 000 ONU 80:14:A8:20:B6:D0.			
10	1999/12/31 07:16:55	major	ONU Deregister PON 0/4 ONU 80:14:A8:20:B6:D0 MPCP TIMEOUT.			
11	1999/12/31 07:16:54	major	PON LOS PON 0/4 Link-Down			
12	1999/12/31 07:16:54	major	ONU AUTH Success PON 0/4 ONU 1 80:14:A8:20:B6:D0.			

Figure 6-1 System Log

The events and alarms levels are listed in Table 2-1.

Table 2-1 Event and Alarm level

ITEM	DESCRIPTION	LEVEL	ITEM	DESCRIPTION	LEVEL
ALAR M	OLT Port Up down	warning	EVENT	System Config Save	warning
	OLT Port Loopback	warning		System Config Erase	warning
	OLT Temp High	major		Download File Success	major
	OLT Temp Low	major		Upload File Success	major
	OLT CPU Usage High	major		Upgrade File Success	major
	OLT MEM Usage High	major		PON Register	critical
	OLT FAN	major		PON Enable	major
	Download File Failed	major		PON LOS Recovery	major
	Upload File Failed	major		ONU is Registering	major
	Upgrade File Failed	major		ONU Link Discover	major
	PON Disable	major		ONU AUTH Success	major
	PON TX Power High	major		ONU DEAUTH Success	major
	PON TX Power Low	major		ONU Upgrade Over	major
	PON TX Bias High	major		ONU finish the register and AUTH	major
	PON TX Bias Low	major		System Reset	critical
	PON VCC High	major			
	PON VCC Low	major			
	PON Temp High	major			
	PON Temp Low	major			
	PON LOS	major			
	ONU Deregister	major			
	ONU Link LOST	major			
	ONU Illegal Register	major			
	ONU AUTH Failed	major			
	ONU MAC Conflict	major			
	ONU LOID Conflict	major			
	ONU Critical Event	major			
	Dying Gasp	major			
	ONU Link Fault	major			
	ONU Link Event	major			
	ONU Event Notific	major			
	ONU Laser Always On	major			
	PON Deregister	critical			
	PON Register Failed	critical			

6.1.2 Alarm

It contains all the alarms of OLT. User can choose the different alarms to "Print", "Record", "Trap" and "Remote". Click **System Configuration → System Log → Alarm.**

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 → Threshold Alarm.**

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	Enable
Server IP	192.168.2.33
Server Port	514 (1-65535)

Figure 6-4 Syslog Server

6.2 Device Management

6.2.1 Firmware Upgrade

You can upgrade the OLT firmware by WEB, do not need TFTP server.

After finish upgrading, it will ask if you want to reboot OLT. It need to reboot after upgrade then take effect. Click **System Configuration**→
Device Management→**Firmware Upgrade**.



Figure 6-5 Firmware Upgrade

6.2.2 Device Reboot

Click **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

Click **System Configuration**→**Device Management**→**Config File**, you can backup configuration, restore configuration, restore factory defaults and save configuration.

The screenshot shows a top navigation bar with three tabs: 'Firmware Upgrade', 'Device Reboot', and 'Config File' (highlighted in blue). Below the tabs, the 'Config File' section is displayed. It contains four main options: 'Backup Configuration' (with a 'Download' button), 'Restore Configuration' (with a 'Select File:' input field and a 'Browse...' button, and a note that the device will reboot after restore), 'Load Factory Defaults' (with a 'Load' button and a note that the device will reboot after restore), and 'Save Configuration' (with a 'Save' button and a note to press the button below to save configuration).

Figure 6-7 Config File

6.3 User Management

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 user management interface. At the top, a blue header bar contains the title "User Manage". Below the header, there are two main sections: "Add User" and "User Table".

Add User: This section contains four input fields and two buttons. The fields are labeled "User Name" (with value "user"), "User Password" (with value "****"), "Confirm Password" (with value "****"), and "User Role" (with value "Normal" selected from a dropdown menu). Below these fields are two buttons: "Add" and "Cancel".

User Table: This section displays a table with four columns: "User Name", "User Role", "Edit", and "Delete". The table currently contains one row with the values "admin" and "Admin" in the first two columns, and edit and delete icons in the last two columns.

Figure6-8: User Manage

6.4 SNMP

6.4.1 SNMP V1/V2

The EPON OLT supports SNMP v1/v2, click **System Configuration → SNMP → SNMP V1/V2** to configure.

SNMPV1/V2 SNMPV3 SNMPV3 Trap

Add Community

Community Name	<input type="text"/>
Access Right	Read-Only
<input type="button" value="Add"/>	

Community Table

Community Name	Access Right	Delete
public	Read-Only	
private	Read-Write	

Add Trap

Host IP	<input type="text"/>
UDP Port	162 (1-65535)
Community Name	<input type="text"/> public
SNMP Version	1
<input type="button" value="Add"/>	

Trap Table

Host IP	UDP Port	SNMP Version	Community Name	Delete
---------	----------	--------------	----------------	--------

Figure6-9: SNMP V1/V2

6.4.2 SNMP V3

The EPON OLT also supports SNMP V3, click **System Configuration → SNMP →SNMP V3**, as shown in Figure 6-10.

SNMPV1/V2	SNMPV3	SNMPV3 Trap										
<p>Add View</p> <p>View Name <input type="text"/></p> <p>Subtree <input type="text"/> (Type: Object Identifier)</p> <p>View Type <input type="text"/> include <input type="button" value="Add"/></p> <p>View Table</p> <table border="1"> <tr> <td>View Name</td> <td>Subtree</td> <td>View type</td> <td>Delete</td> </tr> </table> <p>Add Group</p> <p>Group Name <input type="text"/></p> <p>Access Level <input type="text"/> noauth</p> <p>Read View <input type="text"/></p> <p>Write View <input type="text"/></p> <p>Notify View <input type="text"/></p> <p><input type="button" value="Add"/></p> <p>Group Table</p> <table border="1"> <tr> <td>Group Name</td> <td>Access Level</td> <td>Read View</td> <td>Write View</td> <td>Notify View</td> <td>Delete</td> </tr> </table>			View Name	Subtree	View type	Delete	Group Name	Access Level	Read View	Write View	Notify View	Delete
View Name	Subtree	View type	Delete									
Group Name	Access Level	Read View	Write View	Notify View	Delete							

Figure 6-10: SNMP V3

6.4.3 SMNP V3 Trap

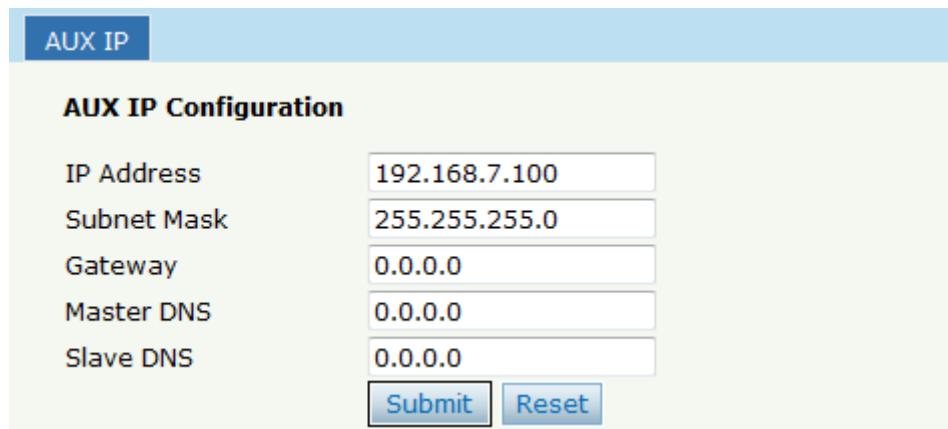
Configure or remove the Trap messages of the target host IP address.

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

Figure 6-11: SNMP V3 Trap

6.5 AUX IP

AUX port is out band management port. The IP address is out band management IP, default IP address is 192.168.8.100. User can change it if need. Click **System Configuration → AUX IP**



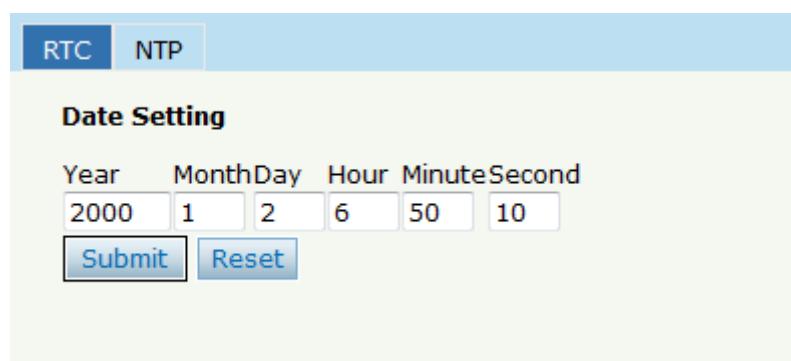
The screenshot shows the 'AUX IP Configuration' page. At the top, there is a blue header bar with the text 'AUX IP'. Below the header, the title 'AUX IP Configuration' is displayed in bold. The configuration fields are listed in pairs: IP Address (192.168.7.100), Subnet Mask (255.255.255.0), Gateway (0.0.0.0), Master DNS (0.0.0.0), and Slave DNS (0.0.0.0). At the bottom of the form are two buttons: 'Submit' and 'Reset'.

Figure 6-12: AUX IP

6.6 System Time

6.6.1 RTC

Click **System Configuration → System Time→RTC**.The default system time is the OLT firmware release time.



The screenshot shows the 'RTC Date Setting' page. At the top, there is a blue header bar with tabs for 'RTC' and 'NTP', where 'RTC' is selected. Below the header, the title 'Date Setting' is displayed in bold. The date is set to Year: 2000, Month: 1, Day: 2, Hour: 6, Minute: 50, Second: 10. At the bottom of the form are two buttons: 'Submit' and 'Reset'.

Figure 6-13: RTC Configuration

6.6.2 NTP

Synchronize the time to the NTP server. Click **System Configuration → System Time→NTP**

The screenshot shows the NTP Configuration page. At the top, there are two tabs: 'RTC' (which is selected) and 'NTP'. Below the tabs, the title 'NTP Configuration' is displayed. The configuration fields include:

- 'Enable NTP Synchronization': A dropdown menu set to 'Enable'.
- 'NTP Timezone': A dropdown menu set to 'GMT+0'.
- 'NTP Server': An input field containing '192.168.3.22'.
- 'Current Time': A display field showing '2000 / 1 / 2 6:55:6'.

At the bottom of the form are two buttons: 'Submit' and 'Reset'.

Figure 6-14: NTP Configuration

6.7 FAN

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

Click **System Configuration → FAN**.

The screenshot shows the FAN Configuration page. At the top, there is a tab labeled 'FAN' (selected). Below the tab, the title 'FAN Configuration' is displayed. The configuration fields include:

- 'FAN Temperature': An input field containing '50' with a note '(20-80)'.
- 'FAN Mode': A radio button group with three options: 'Open', 'Close', and 'Auto' (which is selected).

At the bottom of the form are two buttons: 'Submit' and 'Reset'.

Figure 6-15: FAN Configuration

6.8 Mirror

Each monitor session can be set with one destination port and up to 8 source ports. Click **System Configuration → Mirror**.

The screenshot shows the 'Mirror Configuration' page. At the top, there are dropdown menus for 'Session ID' (set to 1) and 'Destination Port' (set to GE9). Below these are two tables. The first table maps source ports to mirrored status:

Port ID	Mirrored	Direction
GE1	<input checked="" type="checkbox"/>	Both
GE2	<input type="checkbox"/>	Both
GE3	<input type="checkbox"/>	Both
GE4	<input type="checkbox"/>	Both
GE5	<input type="checkbox"/>	Both
GE6	<input type="checkbox"/>	Both
GE7	<input type="checkbox"/>	Both

The second table maps source ports to direction:

Port ID	Mirrored	Direction
GE1	<input checked="" type="checkbox"/>	Both
GE2	<input type="checkbox"/>	Both
GE3	<input type="checkbox"/>	Both
GE4	<input type="checkbox"/>	Both
GE5	<input type="checkbox"/>	Both
GE6	<input type="checkbox"/>	Both
GE7	<input type="checkbox"/>	Both

Figure 6-16: Mirror

Chapter 7 Configuration Examples

7.1 Internet With VLAN 100

a. OLT configuration

Step 1: Create a new VLAN.

VLAN	VLAN Port	QinQ/Translation
New VLAN		
VLAN ID	100	(1-4094)
Description	vlan100	
Add		
VLAN Table		

Step 2: Add the VLAN to GE port and PON port.

VLAN	VLAN Port	QinQ/Translation	
Port VLAN Configuration			
VLAN ID 100			
Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Step 3: Configure the default VLAN ID (PVID) in untag port.

GE Configuration											
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 checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1 ▼	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	100 ▼	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	46 ▼	512	0	512	0	0	0

b. ONU configuration

Step 4: Choose the VLAN mode and set the PVID value.

The screenshot shows the 'VLAN Configuration' section of the ONU List interface. The 'VLAN' tab is selected. The configuration fields are:

- ONU Port: Port1
- VLAN Mode: tag
- PVID: 100 (1-4095)

A 'Submit' button is located at the bottom right of the form.

7.2 IPTV With VLAN 200

a. OLT configuration

Step 1: Create a new VLAN.

The screenshot shows the 'VLAN' configuration interface. The 'VLAN' tab is selected. The 'New VLAN' section contains:

- VLAN ID: 200 (1-4094)
- Description: vlan200

An 'Add' button is present. Below it is the 'VLAN Table' section:

VLAN ID	Description	Edit	Delete
1	default		
2	vlan2		
3	vlan3		
4	vlan4		

Step 2: Add the VLAN to GE port and PON port.

VLAN	VLAN Port	QinQ/Translation	
Port VLAN Configuration			
VLAN ID	200		
Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Step 3: Enable the IGMP status.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
IGMP Configuration					
IGMP Status	Enable				
Last Member Query Interval	1	(1-255s)			
Last Member Query Count	2	(1-255)			
Last Member Query Response	1	(1-255s)			
General Query Packet	<input checked="" type="radio"/> Disable <input type="radio"/> Enable				
General Query Interval	125	(10-255s)			
Query Source IP	1.1.1.1				
	Submit	Reset			

Step 4: Add the IGMP user VLAN and group VLAN

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
--------------	--------	------	-----------------------	--------------	--------------

User VLAN Configuration

Port ID	PON1
User VLAN ID	200
Group VLAN ID	200
Add	

User VLAN Table

Port ID	User VLAN ID	Group VLAN ID	Delete

Step 5: Add the M-router in GE port

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
--------------	--------	------	----------------	---------------------	--------------

Add Multicast Router

Port ID	GE9
Group VLAN ID	200
Add	

Multicast Router Table

Port ID	Group VLAN ID	Delete
GE9	200	<input type="checkbox"/>

b. ONU configuration

Step 6: Choose the VLAN mode and set the PVID value.

ONU List							
Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	Advance

VLAN Configuration

ONU Port	Port1
VLAN Mode	tag
PVID	200 (1-4095)
Submit	

Step 7: Configuration multicast VLAN

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	Alarm	Advance
-------------	-----------	------	------	-----	-------------	-------	---------

Multicast Configuration

Multicast Switch Snooping CTC Control
 Fast Leave State Disable Enable

Submit

Multicast Port Configuration

ONU Port Port1

Multicast Max Group	0	(0-255)
---------------------	---	---------

Submit

Multicast VLAN	200				

Submit

VLAN Tag Strip Mode	Strip
---------------------	-------

Submit

7.3 VoIP With VLAN 300

a. OLT Configuration

Step 1: Create a new VLAN

VLAN	VLAN Port	QinQ/Translation
------	-----------	------------------

New VLAN

VLAN ID	300	(1-4094)
Description	vlan300	

Add

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
2	vlan2		
3	vlan3		
4	vlan4		

Step 2: Add the VLAN to GE port and PON port.

Port VLAN Configuration			
VLAN ID	300		
Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
PON2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

b. ONU Configuration

Step 3: Configure the VoIP global parameter

ONU List	
Information	Bandwidth
Port	VLAN
QoS	IGMP
VoIP	
SIP	POTS
Alarm	Advance
VoIP Global Configuration	
Voice IP Mode	Static IP
IP Address	192.168.3.33 (x.x.x.x)
Network Mask	255.255.255.0 (x.x.x.x)
Default Gateway	192.168.3.1 (x.x.x.x)
Tagged Flag	Tag
Voice Client VLAN	300 (0-4095)
Voice Service VLAN	0 (0-4095)
Voice Priority	7 (0-7)
<input type="button" value="Submit"/>	

Step 4: Setup the SIP configuration

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	VoIP	SIP	POTS	Alarm	Advance
SIP Parameter Configuration										
Manage Port	5060	(1-65535)								
Proxy Service IP/Port	192.168.3.44	(x.x.x.x)	5060	(1-65535)						
Backup Proxy Service IP/Port	192.168.3.44	(x.x.x.x)	5060	(0-65535)						
Register Service IP/Port	192.168.3.44	(x.x.x.x)	5060	(1-65535)						
Backup Register Service IP/Port	192.168.3.44	(x.x.x.x)	5060	(0-65535)						
Out Bound Service IP/Port	192.168.3.44	(x.x.x.x)	5060	(1-65535)						
Register Interval	1000	(1-10000000)								
Heartbeat Switch	Enable	▼								
Heartbeat Cycle	10000	(1-65535)								
Heartbeat Count	10000	(1-65535)								
Submit										

Step 5: Fill in the user account and password

ONU List

Information	Bandwidth	Port	VLAN	QoS	IGMP	VoIP	SIP	POTS	Alarm	Advance	
VoIP POTS Configuration											
VoIP Port	Pots1	▼									
POTS Information											
Port Status	Registering										
Services State	Endlocal										
Codec Mode	G711A										
Manage Configuration											
Manage Status	<input checked="" type="radio"/> Disable	<input type="radio"/> Enable									
Submit											
SIP User Parameter Configuration											
User Account	3333333333										
User name	3333333333										
User Password	3333333333										
Submit											

Thank you!