



Gepon OLT Web User Manual



Contents

Chapter 1	System Description	7
1.1	Overview.....	7
1.1.1	OLT Introduction.....	7
1.1.2	OS Requirement	7
1.2	Connection	8
Chapter 2	OLT Information.....	9
2.1	Login	9
2.2	Device Information	9
Chapter 3	OLT Configuration.....	11
3.1	VLAN	11
3.1.1	New VLAN.....	11
3.1.2	VLAN Port	11
3.1.3	QinQ/Translation.....	12
3.2	Uplink Port.....	13
3.2.1	Information.....	13
3.2.2	Configuration	14
3.3	PON.....	15
3.3.1	Information.....	15
3.3.2	Configuration	15
3.4	MAC	16
3.4.1	MAC Table	16
3.4.2	Configuration	17
3.5	LACP.....	17
3.5.1	Static LACP	17
3.5.2	Dynamic LACP.....	18
3.6	QOS.....	20
3.7	ACL.....	21
3.7.1	IP Filter.....	21
3.7.2	MAC Filter.....	22

3.7.3 IP/MAC Filter	22
3.7.4 Effect Filter	23
3.8 IPv6 ACL	23
3.8.1 IPv6 Filter	24
3.8.2 IPv6/MAC Filter	24
3.7.4 IPv6 Effect Filter	25
3.9 IGMP	25
3.9.1 Group Member	25
3.9.2 Global	26
3.9.3 Port	26
3.9.4 Port User VLAN	27
3.9.5 Port Mrouter	28
3.9.6 Static Group	28
3.10 IPv6 MLD	29
3.10.1 Group Member	29
3.10.2 Global	29
3.10.3 Port User VLAN	30
3.10.4 Port	30
3.10.5 Port Mrouter	31
3.10.6 Static Group	32
3.11 RSTP	33
3.11.1 Information	33
3.11.2 Global	33
3.11.3 Port	34
3.12 Loopback	35
3.12.1 Information	35
3.12.2 Global	35
3.12.3 Port	36
3.13 DHCP	37
3.13.1 DHCP Server	37

3.13.2 DHCP Relay	38
3.13.3 DHCP Snooping.....	39
3.14 DHCPv6	42
3.14.1 DHCPv6 Server.....	42
3.14.2 DHCPv6 Relay	44
3.15 IPv6 SLAAC.....	44
3.15.1 IPv6 SLAAC.....	45
3.15.2 IPv6 SLAAC Prefix.....	45
3.16 Route	46
3.16.1 IP.....	46
3.16.2 Static Route	47
3.16.3 RIP.....	48
3.16.4 OSPF.....	51
3.16.5 Key Chain	55
3.16.6 Route Table.....	56
3.17 IPv6 Route.....	56
3.17.1 VLAN IPv6	56
3.17.2 IPv6 Static Route.....	57
3.17.3 IPv6 Route Table.....	58
Chapter 4 ONU Configuration	59
4.1 ONU List.....	59
4.1.1 Config.....	59
4.1.2 Profile	70
4.1.3 Deregister Reset Unauth	71
4.1.4 ONU Status	71
4.1.5 OPM Diag.....	72
4.2 Authentication.....	72
4.2.1 Authentication Mode	72
4.2.2 MAC list.....	73
4.2.3 LOID List.....	74

4.3 Upgrade	75
4.3.1 Upgrade Status	75
4.3.2 Manual Upgrade	75
4.3.3 Auto Upgrade	76
Chapter 5 Profile Configuration	77
5.1 DBA Profile.....	77
5.1.1 Add/Commit	77
5.1.2 Bandwidth	77
5.2 Service Profile	78
5.2.1 Add/Commit	78
5.2.2 Content	79
5.3 VoIP Profile	79
5.3.1 Add/Commit	79
5.3.2 Content	80
5.4 Alarm Profile	81
5.4.1 Add/Commit	81
5.4.2 Content	82
5.5 Bind Profile	83
5.5.1 Information.....	83
5.5.2 Configuration	84
Chapter 6 System Configuration	86
6.1 System Log.....	86
6.1.1 System Log.....	86
6.1.2 Alarm	87
6.1.3 Threshold Alarm	88
6.1.4 Syslog Server	89
6.2 Device Management.....	90
6.2.1 Firmware Upgrade.....	90
6.2.2 Device Reboot	90
6.2.3 Config File	91

6.3 User Management.....	91
6.4 SNMP	92
6.4.1 SNMP V1/V2	92
6.4.2 SNMP V3.....	93
6.4.3 SMNP V3 Trap.....	94
6.5 AUX IP	95
6.6 System Time	95
6.6.1 RTC.....	95
6.6.2 NTP	96
6.7 FAN	96
6.8 Mirror	96
Chapter 7 Configuration Examples.....	98
7.1 Internet Service with VLAN 100.....	98
7.2 IPTV Service with VLAN 200.....	100
7.3 VoIP Service with VLAN 300	103
7.4 DHCPv6 Configuration	105
7.5 IPv6 SLAAC Configuration.....	111

Chapter 1 System Description

1.1 Overview

1.1.1 OLT Introduction

The WEB management user manual For AS Fiber OLT 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
1000M 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 OS Requirement

For OLT management, it supports or requires the following operation system.

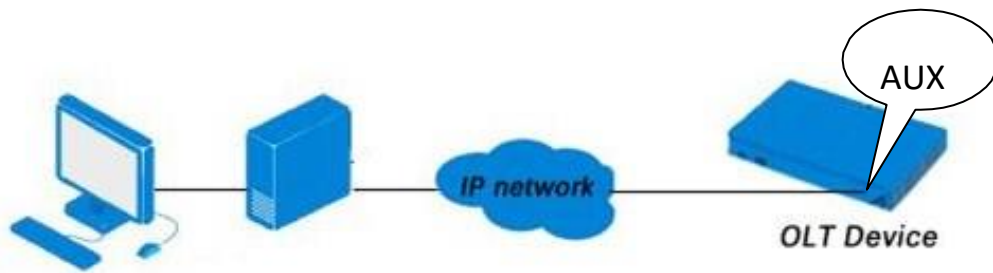
Table 1-2 OS requirements

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.X (e.g. 192.168.8.123).

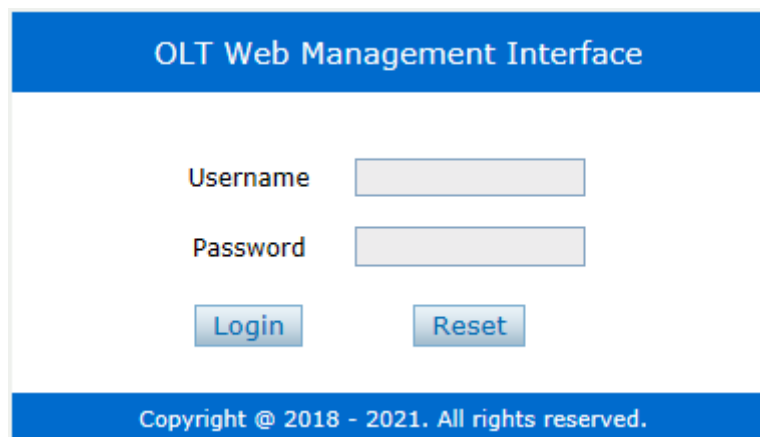


Chapter 2 OLT Information

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 "**Xpon@Olt9417#**" by default.



OLT Web Management Interface

Username

Password

Login Reset

Copyright © 2018 - 2021. 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.

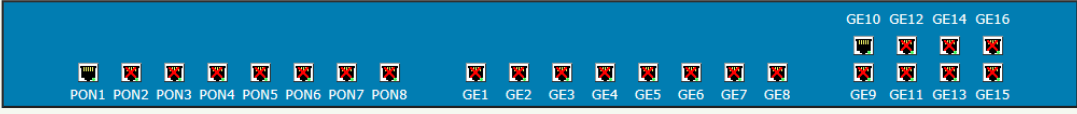
Click **OLT Information** → **Device Information** to get the information.

This part shows the OLT information such as system name, serial number,

hardwareversion, firmwareversion, MAC address and system time. The system name can be modified if need.

Device Information

Device Status



Device Basic Information

System Name	<input type="text" value="epon-olt"/>	Serial Number	V1810176060
Hardware Version	optimized eight epon olt platform	Firmware Version	V2.03.56R_IPv6
MAC Address	80:14:A8:C4:1E:5B	Temperature	40°C
System Time	2000 /1 /3 21:47:53	Running Time	2 Days 21 Hours 37 Minutes 38 Seconds
CPU Usage	25%	Memory Usage	15%
License ONUs Limit	Unlimited	License Time	Permanent

Figure 2-2: Device Information

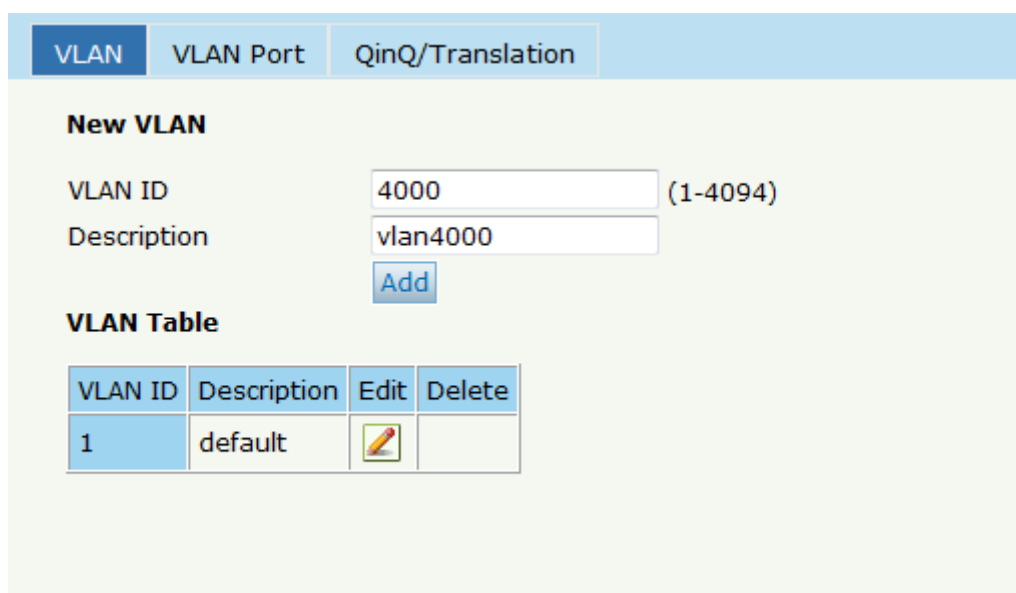
Chapter 3 OLT Configuration

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.



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 that have been created. You can choose the tag or untag VLAN mode.

Click **OLT Configuration**→**VLAN**→**VALN Port** to configure VLAN ports, 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	▼				
<input type="button" value="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

Click **OLT Configuration** → **Uplink Port** → **Information** to check uplink information, as shown in Figure 3-4.

Traffic Statistics										
Port ID	Link Status	Speed	Rx Packets			Tx Packets			Collisions	Errors
			Packets	Broadcast	Multicast	Packets	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 Statistics

3.2.2 Configuration

The GE ports basic configuration can be set. Click **OLT Configuration** → **Uplink Port** → **Information** to configure uplink ports, as shown in Figure 3-5.

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.

Click **OLT Configuration** → **PON** → **Information** to check PON ports information, as shown in Figure 3-6.

The screenshot shows the 'Information' tab selected in the OLT configuration interface. It displays two main sections: 'Optical Transceiver' and 'Traffic Statistics'.

Optical Transceiver

Port ID	Temperature(°C)	Voltage(V)	Bias Current(mA)	Transmit Power(dBm)	Detail
PON1	32.10	3.37	12.55	4.76	Detail
PON2	N/A	N/A	N/A	N/A	N/A
PON3	N/A	N/A	N/A	N/A	N/A
PON4	N/A	N/A	N/A	N/A	N/A
PON5	N/A	N/A	N/A	N/A	N/A
PON6	N/A	N/A	N/A	N/A	N/A
PON7	N/A	N/A	N/A	N/A	N/A
PON8	N/A	N/A	N/A	N/A	N/A

Traffic Statistics

Port ID	Link Status	Speed	Rx Bytes	Rx Packets				Tx Bytes	Tx Packets				Collisions	Errors
				Packets	Unicast	Broadcast	Multicast		Packets	Unicast	Broadcast	Multicast		
PON1	Up	1000M Full	13199579	26446	1541	23666	1239	92407754	1329025	8395	1169057	151573	0	0
PON2	Down	-	1792	28	0	0	28	18569	157	0	45	112	0	0
PON3	Down	-	1792	28	0	0	28	18569	157	0	45	112	0	0
PON4	Down	-	1792	28	0	0	28	18569	157	0	45	112	0	0
PON5	Down	-	1408	22	0	0	22	17417	139	0	45	94	0	0
PON6	Down	-	1408	22	0	0	22	17417	139	0	45	94	0	0
PON7	Down	-	1408	22	0	0	22	17417	139	0	45	94	0	0
PON8	Down	-	1408	22	0	0	22	17417	139	0	45	94	0	0

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

Figure3-6: PON Information

3.3.2 Configuration

The PON ports basic configuration can be set.

Click **OLT Configuration** → **PON** → **Configuration** to configure PON ports, as shown in Figure 3-7.

Information		Configuration											
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

Submit Reset

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 Table		Configuration	
MAC Address Table			
Port ID	ALL		
VLAN ID	MAC Address	Type	Port ID
3000	94:C6:91:91:CE:EB	Dynamic	GE10
3000	C8:5B:76:03:B5:F2	Dynamic	GE12
3000	00:90:4C:06:A5:73	Dynamic	GE10
3000	80:14:A8:C4:1E:5B	Static	CPU
3000	F4:4D:30:9F:47:A1	Dynamic	GE10
3000	80:14:A8:8C:FE:A7	Dynamic	GE10
3000	00:8D:5C:51:33:50	Dynamic	GE10
3000	80:14:A8:B2:57:09	Dynamic	GE10
3000	80:14:A8:67:2A:5C	Dynamic	GE10
46	80:14:A8:91:AA:4F	Dynamic	EPON0/1:4
46	80:14:A8:91:A9:69	Dynamic	EPON0/1:3
46	80:14:A8:91:A8:3B	Dynamic	EPON0/1:2

Clean Refresh

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 'Configuration' tab of the MAC configuration page. It is divided into two main sections: 'MAC Aging Configuration' and 'Add MAC Address'. In the 'MAC Aging Configuration' section, 'Automated Aging' is set to 'Enable' and 'Aging Time' is set to '1000000' seconds, with a range of '(10-1000000s)'. A 'Submit' button is located below these fields. The 'Add MAC Address' section includes a 'VLAN ID' dropdown set to '1', a 'MAC Address' input field containing '00:00:00:00:00:02' with a format '(HH:HH:HH:HH:HH:HH)', radio buttons for 'Type' (with 'Static' selected and 'Dynamic' unselected), and a 'Port ID' dropdown set to 'GE2'. 'Add' and 'Delete' buttons are positioned at the bottom of this section.

Figure 3-9: MAC Configuration

3.5 LACP

3.5.1 Static LACP

Select **OLT Configuration**→**LACP**→**Static LACP** to assign and configure an uplink physical interface to an EtherChannel. When a traffic link can't be used suddenly, this traffic link will switch to another link automatically. The group range is from 1 to 4. Each group can add 4 ports maximally. Only GE ports can be added in the channel groups.

Static LACP

Channel Group Configuration

Channel Group ID:

Load Balance:

Select GE Port: GE1 GE2 GE3 GE4 GE5 GE6 GE7 GE8 GE9 GE10 GE11 GE12 GE13 GE14 GE15 GE16

Channel Group Table

Group ID	Load Balance	Ports	Delete
----------	--------------	-------	--------

Figure 3-10: Create Static LACP

3.5.2 Dynamic LACP

3.5.2.1 Information

This page displays dynamic LACP information. Only the port which is linkup can be shown in the table. OLT can detect how many devices the uplink ports connected to. If the ports are connected to the same device, they will be in a channel group, otherwise in different channel group.

Information Configuration Port

Dynamic LACP Global Information

System ID:

Channel Group Table

Group ID	Load Balance	Ports
----------	--------------	-------

Channel Group Port Information

Channel Group ID:

Actor					Partner				
Port ID	Port Priority	Oper Key	Port Number	Port State	System ID	Port Priority	Oper Key	Port Number	Port State

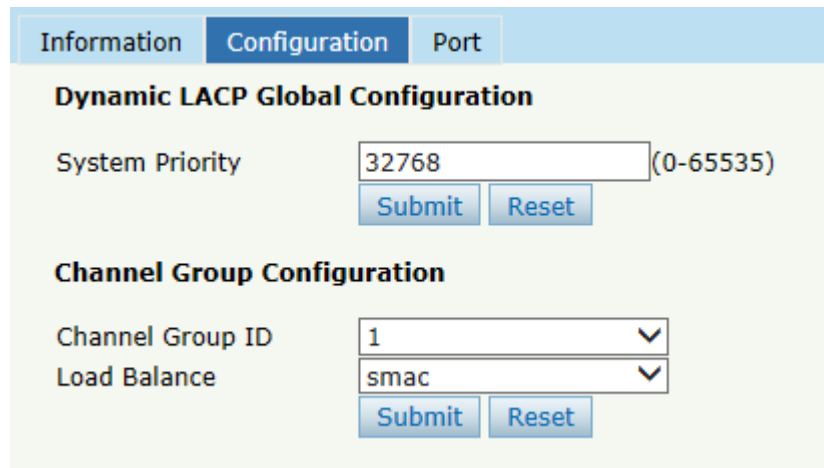
Link Aggregation Information

Port ID	System Priority	Port Priority	Key	Aport	Syn	Col	Dis
---------	-----------------	---------------	-----	-------	-----	-----	-----

Figure 3-11: Dynamic LACP Information

3.5.2.2 Configuration

This page is used to configure device priority and load balance mode. OLT will distribute traffic to the ports which are in the same channel group averagely by load balance mode.



The screenshot shows a web interface for Dynamic LACP Configuration. It has three tabs: 'Information', 'Configuration' (which is active), and 'Port'. The main content area is titled 'Dynamic LACP Global Configuration'. Under this title, there are two sections. The first section, 'Dynamic LACP Global Configuration', contains a 'System Priority' field with the value '32768' and a range '(0-65535)'. Below this field are 'Submit' and 'Reset' buttons. The second section, 'Channel Group Configuration', contains a 'Channel Group ID' dropdown menu with '1' selected and a 'Load Balance' dropdown menu with 'smac' selected. Below these dropdowns are 'Submit' and 'Reset' buttons.

Figure 3-12: Dynamic LACP Configuration

3.5.2.3 Port

This page is used to configure port parameters for dynamic LACP. Only the port which LACP status is checked can become a LACP member port.

Port ID	LACP Status	Timeout	Admin Key(0-65535)	Port Priority(0-65535)
GE1	<input type="checkbox"/>	Long	100	32768
GE2	<input type="checkbox"/>	Long	100	32768
GE3	<input type="checkbox"/>	Long	100	32768
GE4	<input type="checkbox"/>	Long	100	32768
GE5	<input type="checkbox"/>	Long	100	32768
GE6	<input type="checkbox"/>	Long	100	32768
GE7	<input type="checkbox"/>	Long	100	32768
GE8	<input type="checkbox"/>	Long	100	32768
GE9	<input type="checkbox"/>	Long	100	32768
GE10	<input type="checkbox"/>	Long	100	32768
GE11	<input type="checkbox"/>	Long	100	32768
GE12	<input type="checkbox"/>	Long	100	32768
GE13	<input type="checkbox"/>	Long	100	32768
GE14	<input type="checkbox"/>	Long	100	32768
GE15	<input type="checkbox"/>	Long	100	32768
GE16	<input type="checkbox"/>	Long	100	32768

Submit Reset

Figure 3-13: Dynamic LACP Port Configuration

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 3-14.

QoS Configuration

QoS Mode:

Weight: Q0(1-127) 50, Q1(1-127) 50, Q2(1-127) 50, Q3(1-127) 50, Q4(0-127) 100, Q5(0-127) 0, Q6(0-127) 0, Q7(0-127) 0

Figure 3-14: QoS Configuration

3.7 ACL

This part is about the security configuration of OLT. ACL can permit or deny data passing and accessing.

3.7.1 IP Filter

The filter is based on the IP address, including source IP address and destination IP address.

Select **OLT Configuration**→**ACL**→**IP Filter** to set the configuration, as shown in Figure 3-15.

IP Filter | MAC Filter | IP/MAC Filter | Effect Filter

Access List IP Configuration

Access List ID: (1000-1999)

Filter Action: Deny Permit

Source IP: Mask

Source Port: (0-65535)

Destination IP: Mask

Destination Port: (0-65535)

Protocol: (0-255)

DSCP: (0-63)

Access Lists Configured

List ID	Source IP	Source Port	Destination IP	Destination Port	Protocol	DSCP	Filter Action	Delete
---------	-----------	-------------	----------------	------------------	----------	------	---------------	--------

Figure 3-15: IP Filter

3.7.2 MAC Filter

The filter is based on the MAC address, including source MAC address and destination MAC address.

Select **OLT Configuration**→**ACL**→**MAC Filter** to set the configuration, as shown in Figure 3-16.

IP Filter **MAC Filter** IP/MAC Filter Effect Filter

Access List MAC Configuration

Access List ID: 2001 (2000-2999)

Filter Action: Deny Permit

Source MAC: 00:00:00:00:00:01 Mask: FF:FF:FF:FF:FF:FF (HH:HH:HH:HH:HH:HH)

Destination MAC: Mask: (HH:HH:HH:HH:HH:HH)

VLAN ID: 1

VLAN Cos: (0-7)

Ethernet Type: (HHHH)

[Add](#)

Access Lists Configured

List ID	Source MAC	Destination MAC	VLAN ID	Cos	Ethernet Type	Filter Action	Delete
---------	------------	-----------------	---------	-----	---------------	---------------	--------

Figure 3-16: MAC Filter

3.7.3 IP/MAC Filter

This filter mix the IP address and MAC address, including source IP address and destination IP address, source MAC address and destination MAC address, VLAN, Ethernet type, protocol, TCP/UDP port, and so on.

Select **OLT Configuration**→**ACL**→**IP/MAC Filter** to set the configuration, as shown in Figure 3-17.

Access List Configuration

Access List ID: 5000 (5000-5999)

Filter Action: Deny Permit

Source MAC: [] Mask: [] (HH:HH:HH:HH:HH:HH)

Destination MAC: 00:00:00:00:00:05 Mask: FF:FF:FF:FF:FF:FF (HH:HH:HH:HH:HH:HH)

VLAN ID: 1

VLAN Cos: [] (0-7)

Ethernet Type: [] (HHHH)

Source IP: 192.168.6.32 Mask: 255.255.255.0

Source Port: [] (0-65535)

Destination IP: [] Mask: []

Destination Port: [] (0-65535)

Protocol: TCP [] (0-255)

DSCP: [] (0-63)

Access Lists Configured

List ID	Source MAC	Destination MAC	VLAN ID	Cos	Ethernet Type	Source IP	Source Port	Destination IP	Destination Port	Protocol	DSCP	Filter Action	Delete
5000		00:00:00:00:00:05	1			192.168.6.32				TCP		Deny	

Figure 3-17 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.

Access List Port Configuration

Access List ID: 1000

Select GE Port: GE1 GE2 GE3 GE4 GE5 GE6 GE7 GE8 GE9 GE10 GE11 GE12 GE13 GE14 GE15 GE16

Select PON Port: PON1 PON2 PON3 PON4 PON5 PON6 PON7 PON8

Active Access Lists

Access List ID	Ports
1000	GE1 GE6 GE7 GE8 PON4

Figure 3-18: Bind Security Filter

3.8 IPv6 ACL

This part is about IPv6 security configuration of OLT. IPv6 ACL can permit or deny data passing or accessing by IPv6 packets.

3.8.1 IPv6 Filter

The filter is based on the IPv6 address, including source IPv6 address and destination IPv6 address.

Select **OLT Configuration** → **IPv6ACL** → **IPv6 Filter** to set the configuration, as shown in Figure 3-19.

List ID	Source IPv6	Source Port	Destination IPv6	Destination Port	Protocol	DSCP	Filter Action	Delete
---------	-------------	-------------	------------------	------------------	----------	------	---------------	--------

Figure 3-19: IPv6 Filter

3.8.2 IPv6/MAC Filter

This filter mixes IPv6 address, MAC address and other parameters, including source IPv6 address and destination IPv6 address, source MAC address and destination MAC address, VLAN, Ethernet type, protocol, TCP/UDP port, and so on.

Select **OLT Configuration** → **IPv6ACL** → **IPv6/MAC Filter** to set the configuration, as shown in Figure 3-20.

Figure 3-20: IPv6/MAC Filter

3.7.4 IPv6 Effect Filter

Bind access list to ports so that the ACL rules can take effect. Each access list can be bound to several ports.

Figure 3-21: Bind IPv6 Security Filter

3.9 IGMP

3.9.1 Group Member

Show about the group member in the list.

Select **OLT Configuration**→**IGMP**→**Group Member** to display group member, as shown in Figure 3-22.

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	
3234	239.1.1.10	PON1	Static	3234	
<input type="button" value="Refresh"/>					

Figure 3-22: IGMP Group Member

3.9.2 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	Enable <input type="button" value="v"/>				
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 3-23: IGMP Global

3.9.3 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 type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
GE16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
PON8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="1024"/>		
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>				

Figure 3-24: IGMP Port

3.9.4 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	3234	3234			

Figure 3-25: IGMP Port User VLAN

3.9.5 Port Mrouter

To add a port to the IGMP multicast routing group, click **OLT Configuration → IGMP → Port Mrouter**, as shown in Figure 3-26.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
Add Multicast Router					
Port ID	GE1				
Group VLAN ID	1				
<input type="button" value="Add"/>					
Multicast Router Table					
Port ID	Group VLAN ID	Delete			
GE1	3234				

Figure 3-26: IGMP Port Mrouter

3.9.6 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 3-27.

Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group
Add Static Group					
Port ID	PON1				
IP Address	<input type="text"/>				
User VLAN ID	1				
<input type="button" value="Add"/>					
Static Group Table					
Port ID	IP Address	User VLAN ID	Delete		
PON1	239.1.1.10	3234			

Figure 3-27: IGMP Static Group

3.10 IPv6 MLD

3.10.1 Group Member

This page displays IPv6 multicast group member ports.

Select **OLT Configuration** → **IPv6 MLD** → **Group Member** to display IPv6 group member ports, as shown in Figure 3-28.

Group Member	Global	Port User VLAN	Port	Port Mrouter	Static Group
IPv6 MLD Group Member					
User VLAN ID	Group	Type	Version	Port List	
766	ff10:abcd::1234	Static	MLD V1	epon 0/2	
<input type="button" value="Refresh"/>					

Figure 3-28: IPv6 MLD Group Member

3.10.2 Global

To enable IPv6 MLD and set IPv6 MLD related parameters, click **OLT Configuration** → **IPv6 MLD** → **Global**.

Group Member	Global	Port User VLAN	Port	Port Mrouter	Static Group
IPv6 MLD Configuration					
MLD Status	Enable				
MLDv2 Status	Enable				
Query interval	125	(1-255s)			
Query response interval	10	(1-3600s)			
Robustness variable	2	(1-3)			
Last listener query count	2	(1-7)			
Last listener query interval	1	(1-255s)			
Send general query packet	<input checked="" type="radio"/> Disable <input type="radio"/> Enable				
General query interval	125	(10-3600s)			
Query Source IP	fe80::1				
<input type="button" value="Submit"/> <input type="button" value="Reset"/>					

Figure 3-29: IPv6 MLD Global

3.10.3 Port User VLAN

Click **OLT Configuration** → **IPv6 MLD** → **Port User VLAN** to configure IPv6

MLD port user VLAN.

Group Member	Global	Port User VLAN	Port	Port Mrouter	Static Group
User VLAN Configuration					
User VLAN ID	1				
<input type="button" value="Add"/>					
User VLAN Table					
User VLAN ID	Delete				
766					
<input type="button" value="Refresh"/>					

Figure 3-30: IPv6 Port User VLAN

3.10.4 Port

To configure group limit value, fast leave for each port, click **OLT**

Configuration → IPv6 MLD → Port.

Group Member	Global	Port User VLAN	Port	Port Mrouter	Static Group
IGMP Port Configuration					
Port ID	Fast Leave	Group Limit(0-256)			
GE1	<input type="checkbox"/>	256			
GE2	<input type="checkbox"/>	256			
GE3	<input type="checkbox"/>	256			
GE4	<input type="checkbox"/>	256			
GE5	<input type="checkbox"/>	256			
GE6	<input type="checkbox"/>	256			
GE7	<input type="checkbox"/>	256			
GE8	<input type="checkbox"/>	256			
GE9	<input type="checkbox"/>	256			
GE10	<input type="checkbox"/>	256			
GE11	<input type="checkbox"/>	256			
GE12	<input type="checkbox"/>	256			
GE13	<input type="checkbox"/>	256			
GE14	<input type="checkbox"/>	256			
GE15	<input type="checkbox"/>	256			
GE16	<input type="checkbox"/>	256			
PON1	<input type="checkbox"/>	256			
PON2	<input type="checkbox"/>	256			
PON3	<input type="checkbox"/>	256			
PON4	<input type="checkbox"/>	256			
PON5	<input type="checkbox"/>	256			
PON6	<input type="checkbox"/>	256			
PON7	<input type="checkbox"/>	256			
PON8	<input type="checkbox"/>	256			
<input type="button" value="Submit"/>		<input type="button" value="Reset"/>			

Figure 3-31: IPv6 MLD Port

3.10.5 Port Mrouter

To add a port to IPv6 multicast routing group, click **OLT Configuration** → **IPv6 MLD** → **Port Mrouter**, as shown in Figure 3-32.

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

Add Multicast Router

Port ID

Group VLAN ID

Multicast Router Table

Port ID	Group VLAN ID	Type	Delete
epon 0/2	766	static	

Figure 3-32: IPv6 MLD Port Mrouter

3.10.6 Static Group

Add an IPv6 multicast group manually, click **OLT Configuration → IPv6 MLD → Static Group**, as shown in Figure 3-33. Generally choose the PON port as the group member port.

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

Add Static Group

Port ID

IPv6 Address

User VLAN ID

Static Group Table

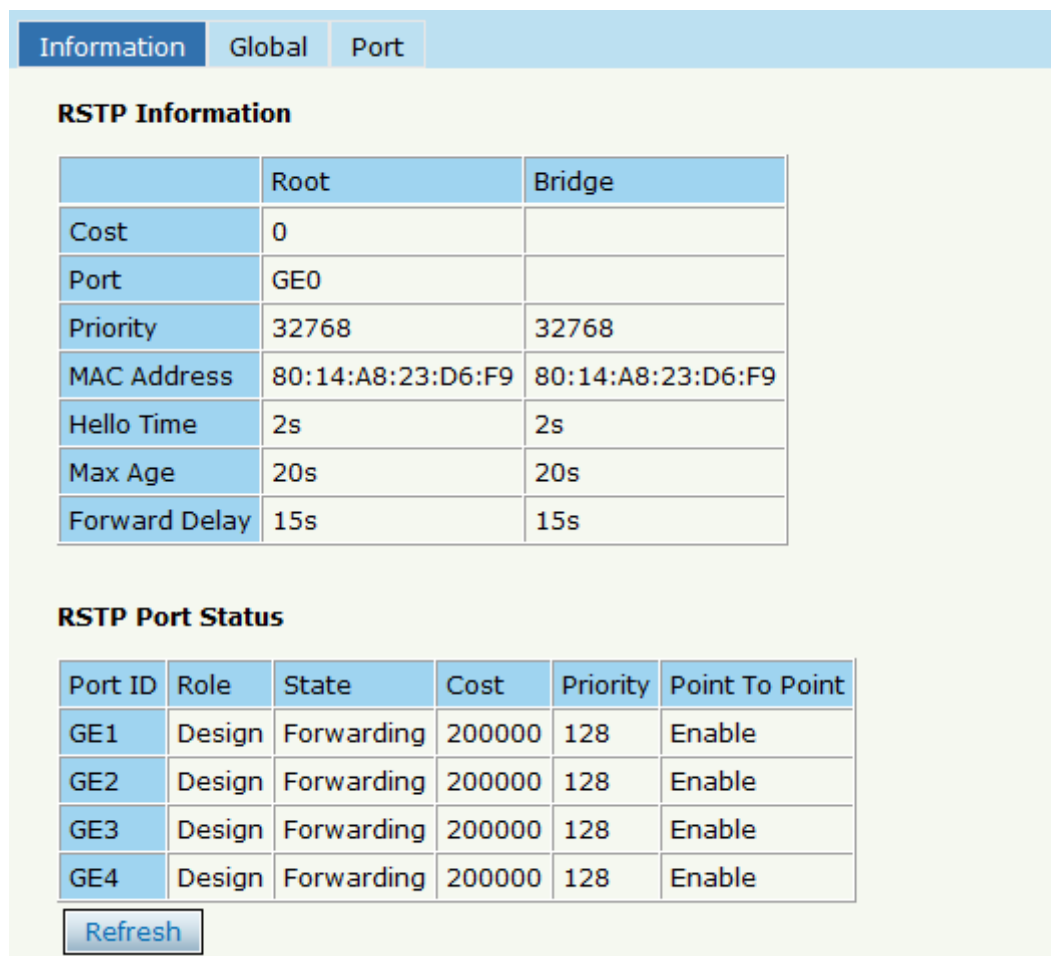
User VLAN ID	Group	Type	Version	Port List	Delete
766	ff10:abcd::1234	Static	MLD V1	epon 0/2	

Figure 3-33: IPv6 MLD Static Group

3.11 RSTP

3.11.1 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 3-34.



The screenshot shows a web interface for RSTP configuration. At the top, there are three tabs: 'Information' (selected), 'Global', and 'Port'. Below the tabs, the 'RSTP Information' section contains a table with the following data:

	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

Below this, the 'RSTP Port Status' section contains a table with the following data:

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

At the bottom of the 'RSTP Port Status' section, there is a 'Refresh' button.

Figure 3-34: RSTP Information

3.11.2 Global

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

Information Global **Port**

RSTP Configuration

RSTP Status:

Global Priority: (0-61440)

Hello Time: (1-10s)

Max Age: (6-40s)

Forward Delay: (4-30s)

Figure 3-35: RSTP Global Setup

3.11.3 Port

The RSTP ports parameter can be set by selecting **OLT Configuration**→**RSTP**→**Port**.

Information Global **Port**

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

Figure 3-36: RSTP Port Setting

3.12 Loopback

3.12.1 Information

Loopback information displays current loop information.

Click **OLT Configuration** → **Loopback** → **Information** to check current loop information.

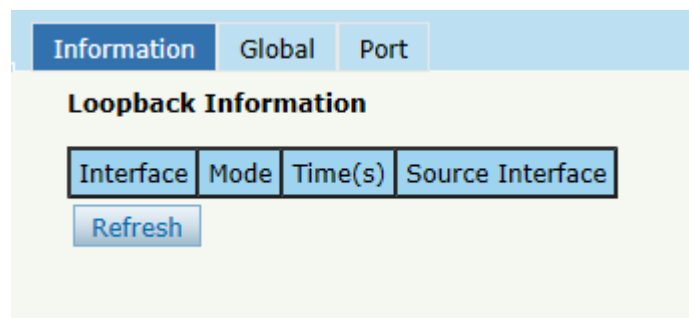


Figure 3-37: Loopback Information

3.12.2 Global

Loopback is used to detect loop in the device. When this function is enabled and a loop exists in uplink port, OLT will shutdown the port. And when a loop exists in PON port, OLT will add the ONU where the loop located to black list.

Click **OLT Configuration** → **Loopback** → **Global** to configure parameters of loopback.

Information Global Port

Loopback Configuration

Status: Enable

Range: All

Mode: auto-recovery

Age Time: 60 (10-3600s)

Submit Reset

Figure 3-38: Loopback Global Configuration

3.12.3 Port

Loopback port configuration is used to specify the port range of loopback function. Loopback will take effect on the port when it is checked.

Click **OLT Configuration** → **Loopback** → **Port** to configure port status of loopback.

Information Global Port

Loopback Port Configuration

Port ID	Status
GE1	<input checked="" type="checkbox"/>
GE2	<input checked="" type="checkbox"/>
GE3	<input checked="" type="checkbox"/>
GE4	<input checked="" type="checkbox"/>
GE5	<input checked="" type="checkbox"/>

Figure 3-39: Loopback Port Configuration

3.13 DHCP

3.13.1 DHCP Server

3.13.1.1 DHCP Lease

Click **OLT Configuration** → **DHCP** → **DHCP Server** → **Lease**, the DHCP Server Lease will be shown as Figure3-40.

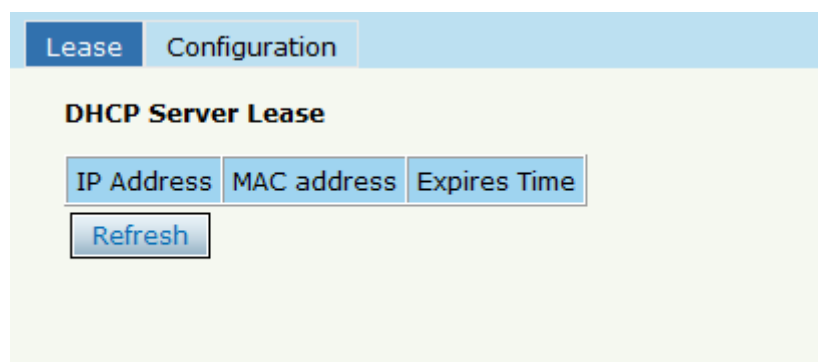


Figure 3-40: DHCP Lease

3.13.1.2 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 3-41.

The screenshot shows a web-based configuration interface for a DHCP server. At the top, there are two tabs: 'Lease' and 'Configuration', with 'Configuration' being the active tab. Below the tabs, the page is divided into two main sections: 'DHCP Server Configuration' and 'DHCP Server Settings'. In the 'DHCP Server Configuration' section, there are two dropdown menus: 'DHCP Server' set to 'Enable' and 'VLAN ID' set to '1'. Below these are two buttons: 'Submit' and 'Reset'. The 'DHCP Server Settings' section contains several input fields: '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), and 'Client Lease Time' (864000) with a unit indicator '(60-864000s)'. At the bottom of this section are 'Submit' and 'Reset' buttons.

Figure 3-41: DHCP Configuration

3.13.2 DHCP Relay

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. IP address network segment of the relay server should be the same as the DHCP server.

Click **OLT Configuration** → **DHCP** → **DHCP Relay** → **Configuration** to configure DHCP relay server.

Configuration

Add Relay Server

Server IP

VLAN ID

Relay Server Table

Server IP	VLAN ID	Delete
-----------	---------	--------

Figure 3-42: DHCP Relay Configuration

3.13.3 DHCP Snooping

3.13.3.1 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

Figure 3-43: DHCP Snooping Bind List

3.13.3.2 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.

The screenshot shows the configuration interface for DHCP Snooping in Global mode. It includes sections for enabling the feature, setting various parameters like Option82 Control and Overspeed Recovery, and managing a list of VLAN IDs.

Figure 3-44: DHCP Snooping Global

3.13.3.3 Port

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

Port ID	Type	Option82 Circuit ID	Option82 Remote ID	Limit Rate(0-4096)
GE1	Untrust	asd123456	111111	512
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 3-45: DHCP Snooping Port Setup

3.13.3.4 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 3-46.

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 3-46: DHCP Snooping Static Bind

3.14 DHCPv6

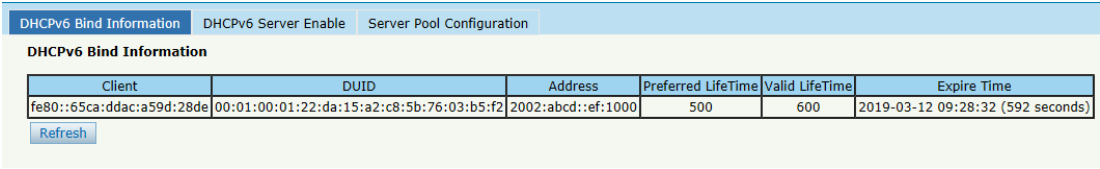
3.14.1 DHCPv6 Server

DHCPv6 is a network protocol that used to configure IPv6 address, IPv6 prefix, DNS, domain and other network parameters for a host which operating on an IPv6 network.

3.14.1.1 Bind Information

DHCPv6 bind information displays IPv6 addresses which have been assigned to hosts.

Click **OLT Configuration** → **DHCPv6** → **DHCPv6 Server** → **DHCPv6 Bind Information** to show the information.



Client	DUID	Address	Preferred LifeTime	Valid LifeTime	Expire Time
fe80::65ca:ddac:a59d:28de	00:01:00:01:22:da:15:a2:c8:5b:76:03:b5:f2	2002:abcd::ef:1000	500	600	2019-03-12 09:28:32 (592 seconds)

Refresh

Figure 3-47: DHCPv6 Bind Information

3.14.1.2 Server Enable

Select VLAN and fill in DHCPv6 pool name, enable DHCPv6 server, then the VLAN will be added into the table. Before enabled DHCPv6 server, VLAN IP and server pool are required.

Click **OLT Configuration** → **DHCPv6** → **DHCPv6 Server** → **DHCPv6 Server Enable** to configure DHCPv6 server.

DHCPv6 Bind Information
DHCPv6 Server Enable
Server Pool Configuration

DHCPv6 Server Configuration

DHCPv6 Server Disable ▼

VLAN ID 1 ▼

Pool Name

Submit
Reset

DHCPv6 Interface Information

VLAN ID	Using Pool
3000	test

Refresh

Figure 3-48: DHCPv6 Server

3.14.1.3 Pool Configuration

DHCPv6 pool specifies the range of assigned IPv6 address. Life time, DNS and domain also can be specified here for DHCPv6 client.

Click **OLT Configuration** → **DHCPv6** → **DHCPv6 Server** → **Server Pool Configuration** to configure DHCPv6 address pool and other network parameters.

DHCPv6 Bind Information
DHCPv6 Server Enable
Server Pool Configuration

DHCPv6 Server Pool Setting

Pool Name

Start IPv6 Address ✓

End IPv6 Address ✓

Valid LifeTime (60-4294967295)s

Preferred LifeTime (60-4294967295)s (Valid lifetime must be large than Preferred lifetime)

DNS Server

Domain Name

Submit
Reset

DHCPv6 Server Pool

Pool Name	Start IPv6 Address	End IPv6 Address	Valid LifeTime	Preferred LifeTime	DNS Server	Domain Name	Edit	Delete
test	2002:abcd::ef:1000/64	2002:abcd::ef:2000/64	600	500	2002:abcd::ef:1	test.com		
					2002:abcd::ef:1000			

Figure 3-49: DHCPv6 Pool

3.14.2 DHCPv6 Relay

During the process of obtaining the IPv6 address/prefix and other network configuration parameters dynamically through the DHCPv6 relay, the DHCPv6 client and the DHCPv6 server are processed in the same way as when the DHCPv6 relay is not processed.

Click **OLT Configuration** → **DHCPv6** → **DHCPv6Relay** → **Configuration** to configure DHCPv6 relay server.

The screenshot displays a web-based configuration interface for DHCPv6 Relay. At the top, there is a 'Configuration' tab. Below it, the section is titled 'Add DHCPv6 Relay Server'. This section contains two input fields: 'VLAN ID' with a dropdown menu showing '1', and 'Server IPv6' with an empty text box. An 'Add' button is positioned below these fields. Underneath, there is a section titled 'DHcpv6 Realy Server Table' (note the typo 'Realy'). This section contains a table with three columns: 'VLAN ID', 'Server IPv6', and 'Delete'.

Figure 3-50: DHCPv6 Relay

3.15 IPv6 SLAAC

IPv6 network uses the ICMPv6 route discovery protocol. When an IPv6 host connects to the network for the first time, it automatically configures it according to the information got by route discovery/prefix discovery. Route discovery/prefix discovery is that when a host is connected to IPv6 network, it can discover local router and obtain neighbor information, prefix of current network and other configuration

parameters from route advertisement (RA) packets.

3.15.1 IPv6 SLAAC

When IPv6 host use SLAAC (Stateless Address AutoConfiguration), OLT will send a route advertisement (RA) packet to it. This page is used to configure parameters of the route advertisement packet.

Click **OLT Configuration** → **IPv6 SLAAC** → **IPv6 SLAAC** to configure RA parameters.

VLAN ID	Suppress RA	Send RA Time (1-1800s)	RA LifeTime (0-9000s)	Reachable Time (0-3600000s)	M	O	Router Preference	MTU (1-1500)
3000	<input checked="" type="checkbox"/>	200	600	0	<input type="checkbox"/>	<input type="checkbox"/>	MEDIUM	1500

Submit

Figure 3-51: IPv6 SLAAC

3.15.2 IPv6 SLAAC Prefix

When IPv6 host uses stateless address auto configuration, OLT can provide IPv6 prefix. The host will generate an IPv6 address with the prefix.

Click **OLT Configuration** → **IPv6 SLAAC** → **IPv6 SLAAC Prefix** to configure SLAAC prefix.

IPv6 SLAAC IPv6 SLAAC Prefix

IPv6 SLAAC Prefix Configuration

VLAN ID:

ND Prefix:

ND Prefix Length:

Valid LifeTime: (0-4294967295)s

Preferred LifeTime: (0-4294967295)s (Valid lifetime must be large than Preferred lifetime)

IPv6 SLAAC Prefix

VLAN ID	ND Prefix	Valid LifeTime	Preferred LifeTime	Delete
				<input type="button" value="Delete"/>

Figure 3-52: IPv6 SLAAC Prefix

3.16 Route

3.16.1 IP

3.16.1.1 VLAN IP

Select an existing VLAN and set an IP address for this VLAN, as shown in Figure 3-53.

VLAN IP ARP Proxy

VLAN IP Configuration

VLAN ID:

IP Address:

Subnet Mask:

VLAN IP Table

VLAN ID	IP Address	Subnet Mask	Delete
3000	192.168.6.181	255.255.255.0	<input type="button" value="Delete"/>

Figure 3-53: VLAN IP

3.16.1.2 ARP Proxy

When serves as an 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.

ARP Proxy Configuration

VLAN ID: 1

ARP Proxy: Disable Enable

ARP Proxy Table

VLAN ID	ARP Proxy Status
1	disable
2	disable
766	disable
3000	disable
3234	disable

Figure 3-54: ARP Proxy

3.16.2 Static Route

OLT supports static route L3 function. Click **Static Route** to configure, as shown in Figure 3-55.

Static Route

Add Static Route

Destination IP

Destination Mask

Gateway

Static Route Table

Destination IP	Destination Mask	Gateway	Delete
192.168.10.0	255.255.255.0	192.168.3.1	

Figure 3-55: Static Route

3.16.3 RIP

RIP (Routing Information Protocol) is a simple internal gateway protocol, which is based on the D-V algorithm and uses hop count to represent metric. The hop count is the number of routers that a datagram must pass through. RIP only support maximum 15 hops; hence it is fit for a small network.

3.16.3.1 RIP Information

This page displays RIP information.

Click **OLT Configuration** → **Route** → **RIP** → **RIP Information** to check RIP route table and routing information sources.

RIP Information	RIP Enable	RIP Route Networking	RIP Redistribute	RIP Interface		
RIP Route Table						
Route Type	Network	Next Hop	Metric	From	Tag	Time
Routing Information Sources						
Gateway	BadPackets	BadRoutes	Distance	Last Update		
Refresh						

Figure 3-56: RIP Information

3.16.3.2 RIP Enable

Enable RIP protocol and configure RIP parameters.

Click **OLT Configuration** → **Route** → **RIP** → **RIP Enable** to configure RIP basic parameters.

RIP Information	RIP Enable	RIP Route Networking	RIP Redistribute	RIP Interface
RIP Enable Configuration				
RIP Route	Disable			Base
RIP Version				
Update Time	30	(5-2147483647s)		
Timeout Time	180	(5-2147483647s)		
Garbage Time	120	(5-2147483647s)		
Default Metric	1	(1-16)		
Distance	120	(1-255)		
Submit Reset				

Figure 3-57: RIP Enable

3.16.3.3 RIP Route Networking

This page is used to add RIP route networking. VLAN IP address must be set before adding the VLAN to RIP route networking table.

Click **OLT Configuration** → **Route** → **RIP** → **RIP Route Networking** to add

the VLAN to RIP route networking table.

RIP Route Networking

VLAN: 3000
IP Address: 192.168.6.181
Subnet Mask: 255.255.255.0
Add Reset

RIP Route Networking Table

Network	Delete
192.168.6.181/24	

Refresh

Figure 3-58: RIP Route Networking

3.16.3.4 RIP Redistribute

This page is used to enable or disable route redistribute and choose redistribute mode.

Click **OLT Configuration** → **Route** → **RIP** → **RIP Redistribute** to configure RIP redistribute.

Default Route Redistribute

Default Route Redistribute: Disable
Submit Reset

Redistribute

Redistribute: Kernel
Metric: (0-16)
Add Reset

Redistribute Table

Redistribute Type	Metric	Delete
-------------------	--------	--------

Refresh

Figure 3-59: RIP Redistribute

3.16.3.5 RIP Interface

This page is used to configure RIP interface and its authentication type. VLAN IP address must be set before configuring RIP interface. And auth chain should be set on page **Key Chain**, refer to section 3.16.5.

Click **OLT Configuration** → **Route** → **RIP** → **RIP Interface** to configure RIP interface parameters.

RIP Interface Configuration

VLAN: 3000
IP Address:
Subnet Mask:
Send Version: 1
Recv Version: 1
Authentication: Disable

RIP Interface Table

Interface	Network	Send Version	Recv Version	Authentication
ethv0.3000	192.168.6.181/24	2	1 2	

Figure 3-60: RIP Interface

3.16.4 OSPF

OSPF (Open Shortest Path First) is an internal gateway protocol based on link state routing protocol. This protocol uses the Dijkstra algorithm to calculate the shortest path to each network, and performs the algorithm to quickly converge to the new loop-free topology when detecting changes in the link (such as link failure).

3.16.4.1 OSPF Information

This page displays OSPF information, including neighbor information and OSPF routing information.

Click **OLT Configuration** → **Route** → **OSPF** → **OSPF Information** to check OSPF information.

OSPF Information	OSPF Enable	OSPF Route Networking	OSPF Area Type	OSPF Area Summary	OSPF Redistribute	OSPF Interface		
OSPF Neighbor Table								
Neighbor ID	Priority	State	Dead Time	Address	Interface	RXmtL	RqstL	DBsmL
192.168.6.182	1	Full/DR	39.081s	192.168.6.182	ethv0.3000:192.168.6.181	0	0	0
OSPF Routing Table								
OSPF Network Routing Table								
Destination Type	Network	Cost	Area	Interface				
N	3.3.0.0/16	1	3.3.3.3	directly attached to ethv0.3				
N	192.168.6.0/24	1	0.0.0.0	directly attached to ethv0.3000				
OSPF Router Routing Table								
Destination Type	Network	Cost	Area/Type	Interface				
OSPF External Routing Table								
Destination Type	Network	Cost/Type2 Cost	Tag	Interface				

Figure 3-61: OSPF Information

3.16.4.2 OSPF Enable

This page is used to enable OSPF. Fill in route ID and let it blank, enable OSPF. OLT will use the biggest IP address as route ID if it's blank.

Click **OLT Configuration** → **Route** → **OSPF** → **OSPF Enable** to enable OSPF.

OSPF Information	OSPF Enable	OSPF Route Networking	OSPF Area Type	OSPF Area Summary	OSPF Redistribute	OSPF Interface
OSPF Enable Configuration						
OSPF Route	<input type="text" value="Enable"/>					
Router ID	<input type="text" value="192.168.6.181"/>					
	<input type="button" value="Submit"/> <input type="button" value="Reset"/>					

Figure 3-62: OSPF Enable

3.16.4.3 OSPF Route networking

This page is used to configure area number for VLAN where OSPF protocol is operating.

Click **OLT Configuration** → **Route** → **OSPF** → **OSPF Route Networking** to configure area number.

Area	Network	Delete
3.3.3.3	3.3.3.3/16	
0.0.0.0	192.168.6.181/24	

Figure 3-63: OSPF Route Networking

3.16.4.4 OSPF Area Type

This page is used to configure area type. Backbone area will not display on this page.

Area	Type	No Summary	Delete
3.3.3.3	STUB	disable	

Figure 3-64: OSPF Area Type

3.16.4.5 OSPF Area Summary

This page is used to configure area IP address summary.

Area	Network	Delete
3.3.3.3	192.168.20.1/24	

Figure 3-65: OSPF Area Summary

3.16.4.6 OSPF Redistribute

The router can use route redistribution to broadcast the OSPF routing it learns through another routing protocol so that several routing protocols can cooperate with each other in a network.

Redistribute Table	Metric	Metric Type	Delete
--------------------	--------	-------------	--------

Figure 3-66: OSPF Redistribute

3.16.4.7 OSPF Interface

This page is used to OSPF interface parameters such as cost, time,

priority, authentication, and so on.

The screenshot shows the OSPF Interface Configuration page. It includes a navigation bar with tabs for OSPF Information, OSPF Enable, OSPF Route Networking, OSPF Area Type, OSPF Area Summary, OSPF Redistribute, and OSPF Interface. The main configuration area is titled "OSPF Interface Configuration" and contains the following fields:

- VLAN: 3 (Base)
- IP Address: 3.3.3.3
- Subnet Mask: 255.255.0.0
- Cost: 1 (1-65535)
- Retransmit Interval: 5 (3-65535s)
- Transmit Delay: 1 (1-65535s)
- Hello Interval: 10 (1-65535s)
- Dead Interval: 40 (1-65535s)
- Priority: 1 (0-255)
- Authentication: Enable
- Auth Type: MD5
- Key ID: 1 (1-255)
- Auth String: (Auth String length must be less than 16)

Below the configuration fields is the "OSPF Interface Table" which contains the following data:

VLAN	Network	Cost	Priority	Retransmit Interval	Transmit Delay	Hello Interval	Dead Interval	Authentication
3000	192.168.6.181/24	1	1	5	1	10	40	
3	3.3.3.3/16	1	1	5	1	10	40	

There are "Submit" and "Reset" buttons at the bottom of the configuration area, and a "Refresh" button below the table.

Figure 3-67: OSPF Interface

3.16.5 Key Chain

Key management is a method of controlling the authentication key used by routing protocols. The authentication key is available for EIGRP and RIP version 2. To manage the authentication key needs a key chain. Each key has its own key identifier, which is stored locally. The combination of the key identifier and the interface associated with the message uniquely identifies the authentication algorithm and MD5 authentication key in use.

Key Chain

Add Key Chain

Key Chain

Key ID (0-2147483647)

Key String

Key Chain Table

Key Chain	Key ID	Key String	Edit	Delete
<input type="button" value="Refresh"/>				

Figure 3-68: Key Chain

3.16.6 Route Table

This page displays routing items of OLT.

Route Table

Route Types: K - kernel route, C - connected, S - static, R - RIP, O - OSPF, > - selected route, * - FIB route

Route Table

Route Type	Network	Distance	Metric	Interface	Time
O	3.3.0.0/16	110	1	directly connected, ethv0.3	02:34:33
C>*	3.3.0.0/16			directly connected, ethv0.3	
C>*	127.0.0.0/8			directly connected, lo	
O	192.168.6.0/24	110	1	directly connected, ethv0.3000	03:34:37
C>*	192.168.6.0/24			directly connected, ethv0.3000	
S	192.168.10.0/24	1	0	via, 192.168.3.1	

Figure 3-69: Route Table

3.17 IPv6 Route

3.17.1 VLAN IPv6

Configure IPv6 address for VLAN that has been created.

Click **OLT Configuration** → **IPv6 Route** → **IPv6** → **VLAN IPv6**, select an

existing VLAN and set an IPv6 address for it. The IPv6 address can be used for inband management.

VLAN IPv6 Configuration

VLAN ID: 1

IPv6 Address:

Prefixlen:

VLAN IPv6 Table

VLAN ID	IPv6 Address	Prefixlen	Delete
3000	fe80::bb8:8214:a8ff:fec4:1e5b		

Figure 3-70: VLAN IPv6

3.17.2 IPv6 Static Route

Static route is added manually. It will not change even the situation and network topology has been changed.

Click **OLT Configuration** → **IPv6 Route** → **IPv6 Static Route**, and add IPv6 static route item one by one.

IPv6 Static Route

Add IPv6 Static Route

Destination IPv6:

Destination Prefixlen:

Gateway:

IPv6 Static Route Table

Destination IPv6	Destination Prefixlen	Gateway	Delete
------------------	-----------------------	---------	--------

Figure 3-71: IPv6 Static Route

3.17.3 IPv6 Route Table

This table displays all IPv6 route items of the device, including static route and dynamic route.

Click **OLT Configuration**→**IPv6 Route**→ **IPv6 Route Table** to display all IPv6 route items.

IPv6 Route Table

Route Types: K - kernel route, C - connected, S - static, R - RIPng, O - OSPFv6, > - selected route, * - FIB route

IPv6 Route Table

Route Type	Network	Distance	Metric	Interface	Time
K>*	ff00::/8			directly connected, ethv0.3000	

Refresh

Figure 3-72: IPv6 Route Table

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.

The screenshot shows the 'ONU List' interface. At the top, there are tabs for 'ONU List', 'ONU Status', and 'OPM Diag'. Below the tabs is the 'ONU Authentication Information' section, which includes a 'Port ID' dropdown set to 'PON1', an 'Authentication' dropdown, and a 'MAC' input field with a placeholder '(HH:HH:HH:HH:HH:HH)'. There are buttons for 'Refresh', 'Deregister', 'Reset', 'Unauth', and 'Search'. Below this is a table with columns: ONU ID, Status, MAC Address, Description, RTT, Type, Auth Flag, Exchange, Auth Mode, Loid/pwd, and Action. The table contains two rows: one for 'EPON0/1:1' which is 'Offline' and one for 'EPON0/1:2' which is 'Online'. The 'Action' column for the online ONU contains links for 'Config', 'Profile', 'Deregister', 'Reset', and '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.

The screenshot shows the 'ONU Config' interface. It has a 'Port ID' dropdown set to 'PON1' and an 'ONU Type' dropdown set to 'Authentication'. There are buttons for 'Deregister All', 'Reset All', and 'UnAuth All'. Below is a table with columns: ONU ID, LLD, Status, Last Dereg Reason, MAC Address, RTT, Description, Type, Auth Flag, Exchange, Auth Mode, Loid/pwd, and Action. The table contains three rows. The 'Action' column for the third row (ONU ID 3) has a 'Config' button highlighted in red, along with 'Profile', 'Deregister', 'Reset', and 'Unauth' links. There is also a 'Refresh' button at the bottom left.

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	95	NULL	1GE+WIFI	Auth	Idle	None	NULL	Config Profile Deregister Reset Unauth

Figure 4-2: Configure ONU

4.1.1.1 Information

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

Basic Information

Description

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

Click **ONU List**→**Config**→**Bandwidth** to configure ONU upstream and downstream bandwidth.

Bandwidth Configuration

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

Figure 4-4: ONU Bandwidth

4.1.1.3 Port

The ONU port basic configure switch can be operated. And this page can configure the ONU port bandwidth.

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

Port Basic Configuration

ONU Port: Port1

Basic Configuration

Link Status: Down

Admin Status Auto Negotiation Flow Control Loop Detection

Bandwidth Configuration

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)

Submit

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

Precedance: 1 (1-8) | Priority: 1 (0-7) | Queue: 1 (0-7)

Destination MAC: Equal 00:00:00:00:00:03 (HH:HH:HH:HH:HH:HH)

Source MAC: Equal 00:00:00:00:00:02 (HH:HH:HH:HH:HH:HH)

VLAN: Equal (1-4094)

COS: Equal (0-7)

Ethernet Type: Equal

Destination IP: Equal

Source IP: Equal

Protocol: Equal (0-255)

TOS: Equal (0-255)

Destination Port: Equal (0-65535)

Source Port: Equal (0-65535)

Add

Precedance | Priority | Queue | Class Details | Delete

Clear

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.

ONU List

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

Multicast Configuration

Multicast Switch Snooping CTC Control

Fast Leave State Disable Enable

Submit

Multicast Port Configuration

ONU Port Port1

Multicast Max Group 64 (0-255)

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: bridge

VLAN Mode: Tag

VLAN ID: 1000 (0-4095)

VLAN Cos: 0 (0-7)

Qinq Enable: Disable

Qinq Tpid: (0-65534)

SVLAN ID: (0-4095)

SVLAN Cos: (0-7)

QOS Enable: Disable

Service Mode: Internet

Port Binding: Lan1 Lan2 Lan3 Lan4
 SSID1 SSID2 SSID3 SSID4

Add

WAN Connect running-config

Index	onu running-config	Delete
1	ConnectType : bridge, WanMode : internet, VLAN Mode :Tag, VLAN ID:1000, VLAN Cos:0	

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)

submit Delete

WIFI SSID Configuration

SSID SSID1

ONU WIFI Status enable

Encryption Status disable

Name qwerty

Network Authentication Open

Encrypt Type NONE

submit

WIFI SSID Table


wifi_ssid	wifi statue	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	<input type="text" value="192.168.2.1"/>								
LAN Subnet Mask	<input type="text" value="255.255.255.0"/>								
DHCP Server	<input type="text" value="Enable"/>								
Lease Time	<input type="text" value="3600"/> (0-4294967295)								
Beginning IP Address	<input type="text" value="192.168.2.2"/>								
Ending IP Address	<input type="text" value="192.168.2.254"/>								
Pool Type	<input type="text" value="PC"/>								
Master DNS	<input type="text" value="8.8.8.8"/>								
Slave DNS	<input type="text" value="8.8.8.8"/>								
Gateway	<input type="text" value="192.168.2.1"/>								
<input type="button" value="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	<input type="text" value="192.168.5.126"/>								
Network Mask	<input type="text" value="255.255.255.0"/>								
Gateway	<input type="text" value="192.168.5.1"/>								
Client VLAN	<input type="text" value="1000"/> (0-4095)								
Service VLAN	<input type="text" value="0"/> (0-4095)								
Priority	<input type="text" value="0"/> (0-7)								
<input type="button" value="Submit"/>									
MAC Aging Configuration									
Aging Time	<input type="text" value="600"/> (0-65535)								
<input type="button" value="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.

The screenshot shows a web interface for configuring VoIP parameters. At the top, there is a navigation bar with tabs: Information, Bandwidth, Port, VLAN, QoS, IGMP, VoIP (selected), SIP, POTS, Alarm, and Advance. Below the navigation bar, the page is titled "VoIP Global Configuration".

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)

Submit

IAD Operation Status

IAD Operation Status: IAD fault

Set IAD Operation: Reregister, Deregister, Reset

Fax/Modem Configuration

Voice T38 Status: Disable Enable

Fax/Modem Control: Negotiation Auto VBD

Submit

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		<input type="text" value="5060"/>								(1-65535)
Proxy Service IP/Port		<input type="text" value="192.168.6.33"/>					<input type="text" value="5060"/>			(1-65535)
Backup Proxy Service IP/Port		<input type="text" value="0.0.0.0"/>					<input type="text" value="5060"/>			(1-65535)
Register Service IP/Port		<input type="text" value="192.168.6.33"/>					<input type="text" value="5060"/>			(1-65535)
Backup Register Service IP/Port		<input type="text" value="0.0.0.0"/>					<input type="text" value="5060"/>			(0-65535)
Out Bound Service IP/Port		<input type="text" value="0.0.0.0"/>					<input type="text" value="5060"/>			(0-65535)
Register Interval		<input type="text" value="3600"/>								(0-65535)
Heartbeat Switch		<input type="text" value="Disable"/>								
Heartbeat Cycle		<input type="text" value="30"/>								(1-65535)
Heartbeat Count		<input type="text" value="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

User name

User Password

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:

Service Profile ID:

VoIP Profile ID:

Alarm Profile ID:

DBA Profile | Service Profile | VoIP Profile | Alarm Profile

DBA Profile Information

Profile ID:

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:

ONU Type: [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

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

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.

Authentication Mode **MAC List** LOID List

ONU MAC Authentication

Port ID

MAC Type

Add MAC

MAC Address (HH:HH:HH:HH:HH:HH)

White MAC Authentication Table

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.

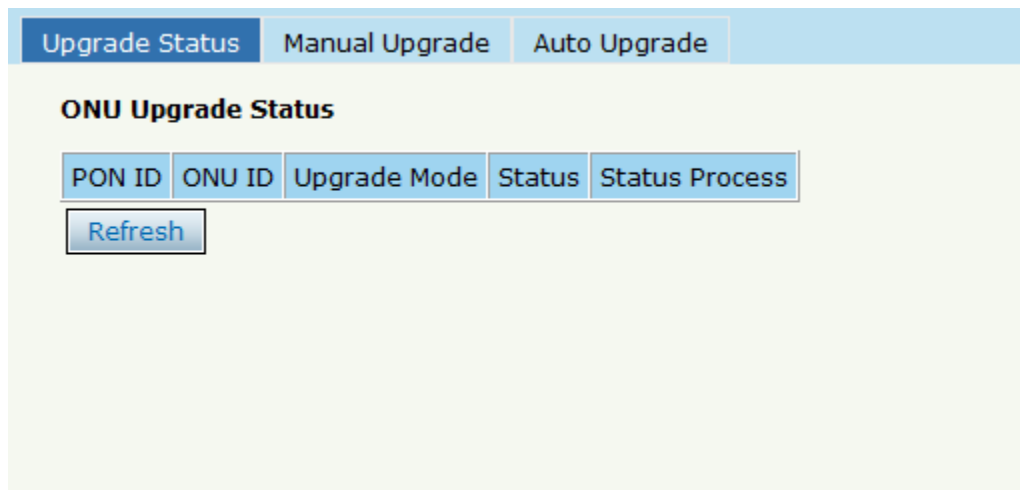


Figure 4-24: ONU Upgrade Status

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.

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.

Figure 4-26: Auto Upgrade

Chapter 5 Profile Configuration

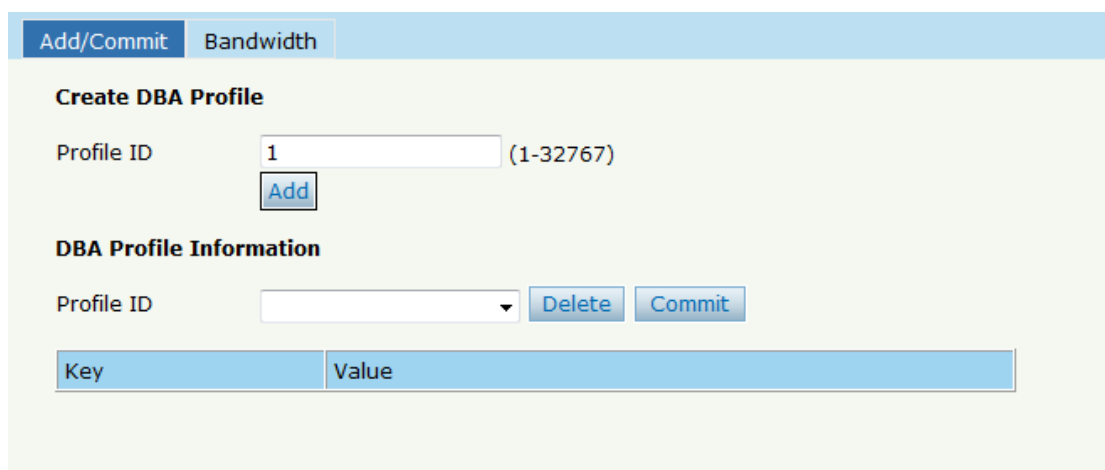
This chapter is about the ONU profile configuration. It is designed for batch ONU management by OLT.

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 web interface with two tabs: 'Add/Commit' (selected) and 'Bandwidth'. Under the 'Add/Commit' tab, there is a section titled 'Create DBA Profile'. It contains a 'Profile ID' input field with the value '1' and a range '(1-32767)' to its right. Below the input field is an 'Add' button. Below this is a section titled 'DBA Profile Information' which includes a 'Profile ID' dropdown menu, a 'Delete' button, and a 'Commit' button. At the bottom, there is a table with two 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

Profile ID

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

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 (1-32767)

Service Profile Information

Profile ID

Description

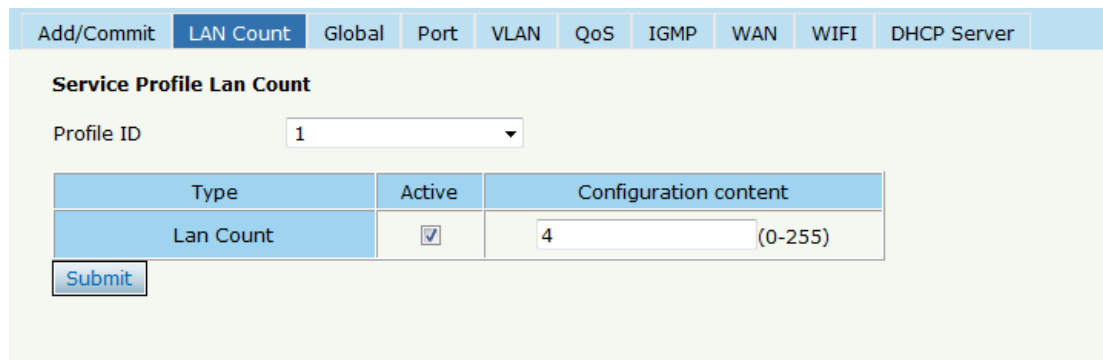
Key	Value
Ports Count	0
Global Parameter	

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.

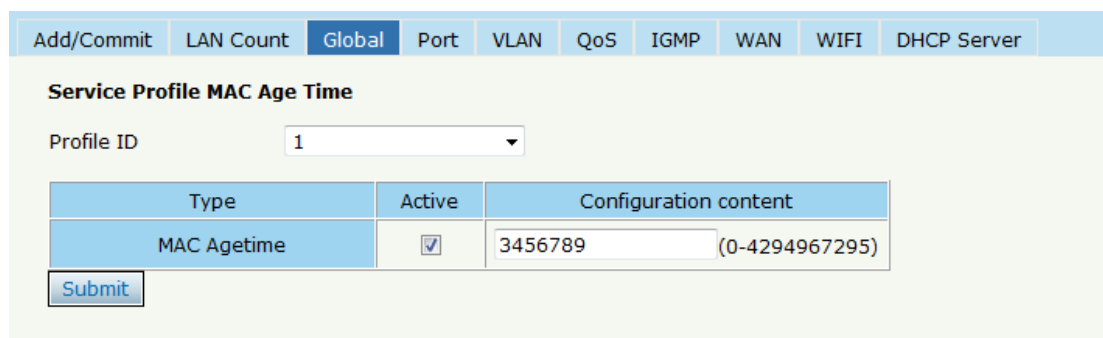
Click **Profile Configuration**→**Service Profile**



The screenshot shows the configuration page for 'Service Profile Lan Count'. At the top, there is a navigation bar with tabs: 'Add/Commit', 'LAN Count' (selected), 'Global', 'Port', 'VLAN', 'QoS', 'IGMP', 'WAN', 'WIFI', and 'DHCP Server'. Below the navigation bar, the page title is 'Service Profile Lan Count'. There is a 'Profile ID' dropdown menu set to '1'. Below this is a table with three columns: 'Type', 'Active', and 'Configuration content'. The table contains one row for 'Lan Count' with an active checkbox checked and a configuration value of '4' (range 0-255). A 'Submit' button is located at the bottom left of the table.

Type	Active	Configuration content
Lan Count	<input checked="" type="checkbox"/>	4 (0-255)

Figure 5-4: LAN Count



The screenshot shows the configuration page for 'Service Profile MAC Age Time'. At the top, there is a navigation bar with tabs: 'Add/Commit', 'LAN Count', 'Global' (selected), 'Port', 'VLAN', 'QoS', 'IGMP', 'WAN', 'WIFI', and 'DHCP Server'. Below the navigation bar, the page title is 'Service Profile MAC Age Time'. There is a 'Profile ID' dropdown menu set to '1'. Below this is a table with three columns: 'Type', 'Active', and 'Configuration content'. The table contains one row for 'MAC Agetime' with an active checkbox checked and a configuration value of '3456789' (range 0-4294967295). A 'Submit' button is located at the bottom left of the table.

Type	Active	Configuration content
MAC Agetime	<input checked="" type="checkbox"/>	3456789 (0-4294967295)

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.

Add/Commit	POTS Count	VoIP	SIP	H.248	POTS
Create VoIP Profile					
Profile ID	<input type="text" value="1"/> (1-32767)				
	<input type="button" value="Add"/>				
VoIP 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 5-6: 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**.

Add/Commit	POTS Count	VoIP	SIP	H.248	POTS
POTS Count Profile					
Profile ID	<input type="text" value="1"/>				
Type	Active	Content			
POTS Count	<input checked="" type="checkbox"/>	Pots Count	<input type="text" value="2"/> (0-255)		
<input type="button" value="Submit"/>					

Figure 5-7: POTS Count

Add/Commit	POTS Count	VoIP	SIP	H.248	POTS	
VoIP Global Profile						
Profile ID		1				
Type	Active	Content				
VoIP Global	<input checked="" type="checkbox"/>	Voice IP Mode	PPPoE			
		PPPoE Mode	AUTO			
		UserName	1212121	Password	11111	
		VLAN Mode	VLAN Stacking			
		CVLAN	1000	(0-4095)	SVLAN	0 (0-4095)
		Priority	7 (0-7)			
Fax/Modem	<input checked="" type="checkbox"/>	Voice T38 Status	enable			
		Fax/Modem Control	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	1		(1-32767)	
<input type="button" value="Add"/>				
Alarm Profile Information				
Profile ID	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**.

Add/Commit **ONU** PON Port POTS

ONU Alarm Profile Configuration

Profile ID

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"/> <input type="text" value="3"/> <input type="text" value="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"/> <input type="text" value="1280"/> <input type="text" value="1280"/> (-1280..1280,units:0.1C)
ONU Temp Low Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="text" value="-1280"/> <input type="text" value="-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

Add/Commit ONU **PON** Port POTS

PON Alarm Profile

Profile ID

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

Information		Configuration						
Bind Profile Information								
Port ID		PON1						
ONU ID	MAC Address	Type	Profile ID					Bind
			DBA	Service	VoIP	Alarm	Default Service	
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	<input type="text" value="1"/>						
Service Profile ID	<input type="text" value="1"/>						
VoIP Profile ID	<input type="text" value="1"/>						
Alarm Profile ID	<input type="text" value="1"/>						
	<input type="button" value="Submit"/>	<input type="button" value="Reset"/>					
DBA Profile		Service Profile		VoIP Profile		Alarm Profile	
DBA Profile Information							
Profile ID	<input type="text" value="1"/>						
Description	<input type="text"/>						
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.

Information Configuration

Bind Profile Information

Port ID PON1

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.

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 6-1.

Table 6-1 Event and Alarm level

ITEM	DESCRIPTION	LEVEL	ITEM	DESCRIPTION	LEVEL
ALARM	OLT Port Updown	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**.

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

Figure 6-2: Alarm

6.1.3 Threshold Alarm

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

→**System Log** →**ThresholdAlarm**.

System Log Alarm **Threshold Alarm** Syslog Server

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

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**.

System Log Alarm Threshold Alarm **Syslog Server**

Syslog Server Configuration

Syslog Server

Server IP

Server Port (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)

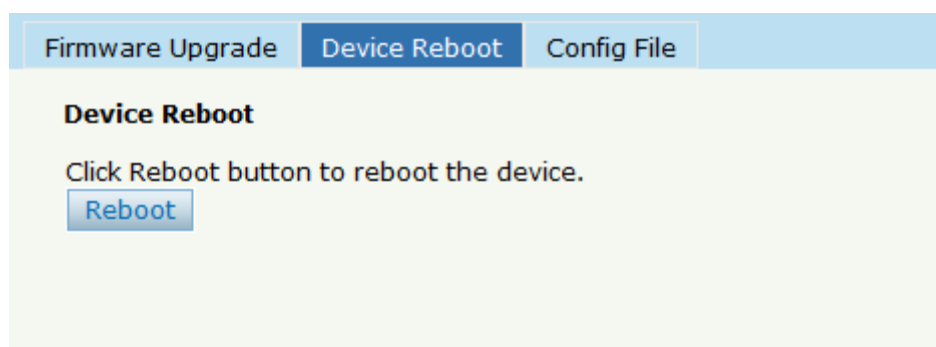
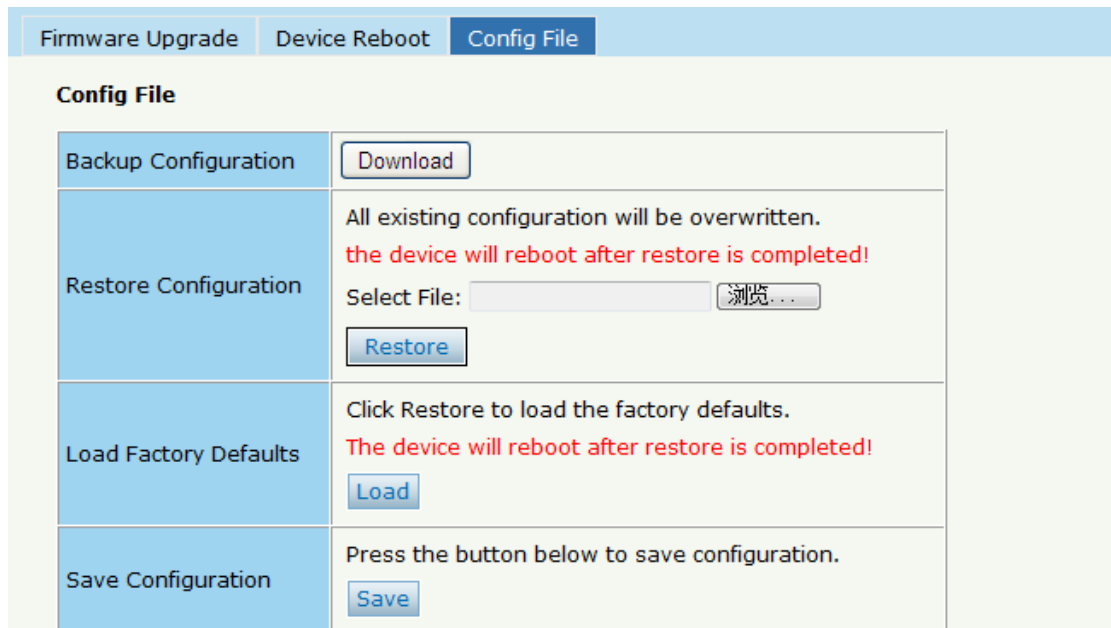


Figure 6-6: Device Reboot

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 web interface with a navigation bar at the top containing three tabs: "Firmware Upgrade", "Device Reboot", and "Config File". The "Config File" tab is selected. Below the navigation bar, the page title is "Config File". The main content area is a table with four rows, each representing a different configuration action:

Config File	
Backup Configuration	<input type="button" value="Download"/>
Restore Configuration	All existing configuration will be overwritten. the device will reboot after restore is completed! Select File: <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Restore"/>
Load Factory Defaults	Click Restore to load the factory defaults. The device will reboot after restore is completed! <input type="button" value="Load"/>
Save Configuration	Press the button below to save configuration. <input type="button" value="Save"/>

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.

User Manage

Add User

User Name

User Password

Confirm Password

User Role ▼

User Table


User Name	User Role	Edit	Delete
admin	Admin		

Figure 6-8: 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

Access Right Read-Only ▼

[Add](#)

Community Table

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

Add Trap

Host IP

UDP Port 162 (1-65535)

Community Name public

SNMP Version 1 ▼

[Add](#)

Trap Table

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

Figure 6-9: 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

Add View

View Name

Subtree (Type:Object Identifier)

View Type ▼

View Table

View Name	Subtree	View type	Delete
-----------	---------	-----------	--------

Add Group

Group Name

Access Level ▼

Read View

Write View

Notify View

Group Table

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**

Add Trap

Host IP

UDP Port (1-65535)

User Name

User Level ▼

Tag List ▼

Timeout (1-400000000)

Retry Count (1-100)

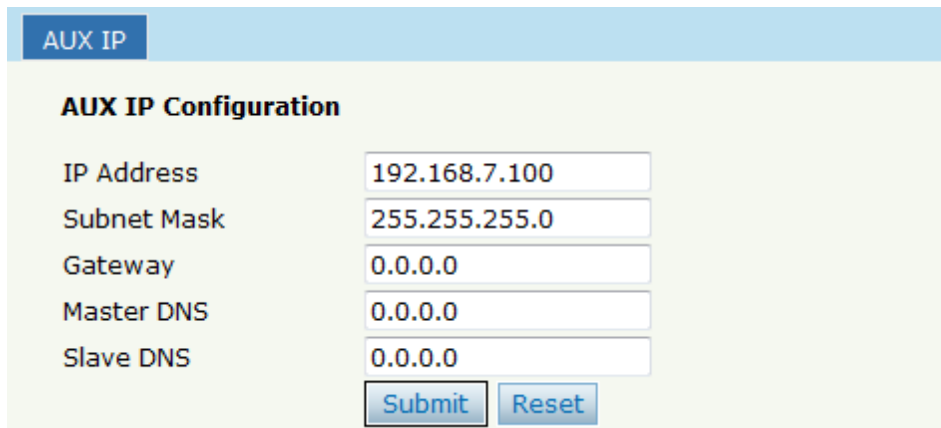
Trap Table

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 with 'AUX IP' in white text. Below the header, the title 'AUX IP Configuration' is displayed in bold. The configuration fields are as follows:

IP Address	192.168.7.100
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
Master DNS	0.0.0.0
Slave DNS	0.0.0.0

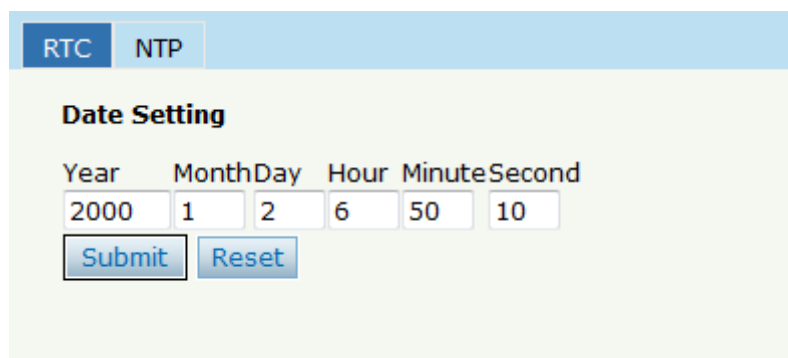
At the bottom of the form, there are two buttons: 'Submit' and 'Reset'.

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' configuration page. At the top, there is a blue header with 'RTC' and 'NTP' in white text. Below the header, the title 'Date Setting' is displayed in bold. The date setting fields are as follows:

Year	Month	Day	Hour	Minute	Second
2000	1	2	6	50	10

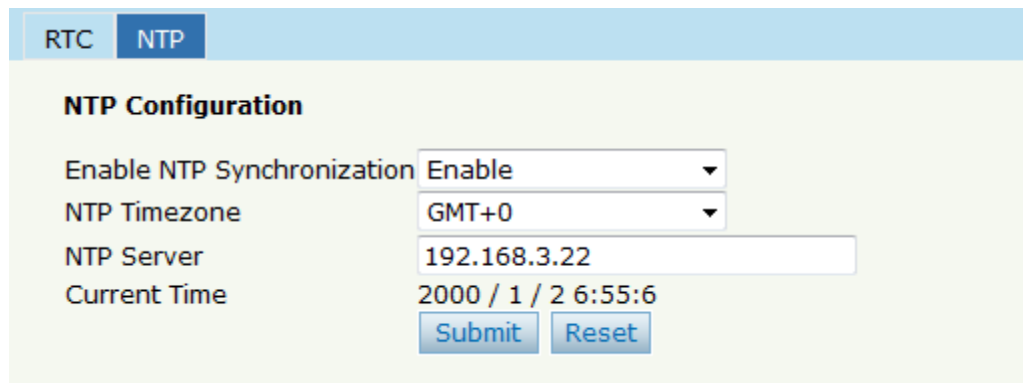
At the bottom of the form, there are two buttons: 'Submit' and 'Reset'.

Figure 6-13: RTC Configuration

6.6.2 NTP

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

System Time → **NTP**



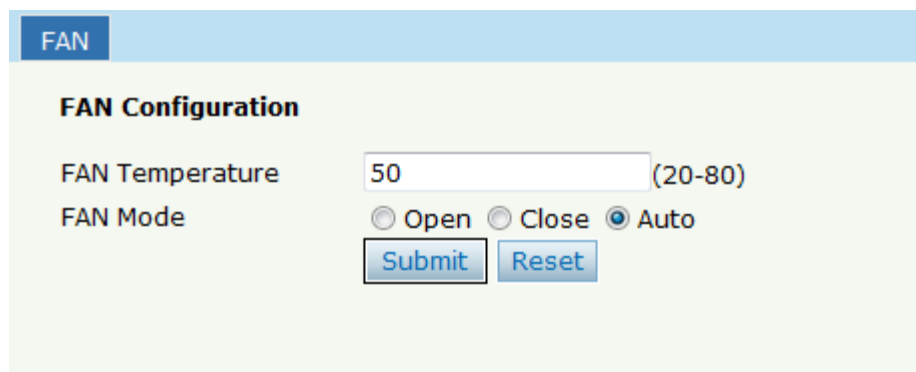
The screenshot shows the NTP Configuration page. At the top, there are two tabs: 'RTC' and 'NTP', with 'NTP' selected. Below the tabs is the title 'NTP Configuration'. The configuration fields are: 'Enable NTP Synchronization' with a dropdown menu set to 'Enable'; 'NTP Timezone' with a dropdown menu set to 'GMT+0'; 'NTP Server' with a text input field containing '192.168.3.22'; and 'Current Time' with a text input field containing '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'. Below the tab is the title 'FAN Configuration'. The configuration fields are: 'FAN Temperature' with a text input field containing '50' and a range '(20-80)' to its right; and 'FAN Mode' with three radio buttons: 'Open', 'Close', and 'Auto', where 'Auto' 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**.

Mirror

Mirror Configuration

Session ID ▼

Destination Port ▼

Port ID	Mirrored	Direction
GE1	<input 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 ▼

Figure 6-16: Mirror

Chapter 7 Configuration Examples

7.1 Internet Service with VLAN 100

a. OLT configuration

Step 1: Create a new VLAN.

VLAN	VLAN Port	QinQ/Translation
New VLAN		
VLAN ID	<input type="text" value="100"/>	(1-4094)
Description	<input type="text" value="vlan100"/>	
	<input type="button" value="Add"/>	
VLAN Table		

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

VLAN VLAN Port QinQ/Translation

Port VLAN Configuration

VLAN ID:

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.

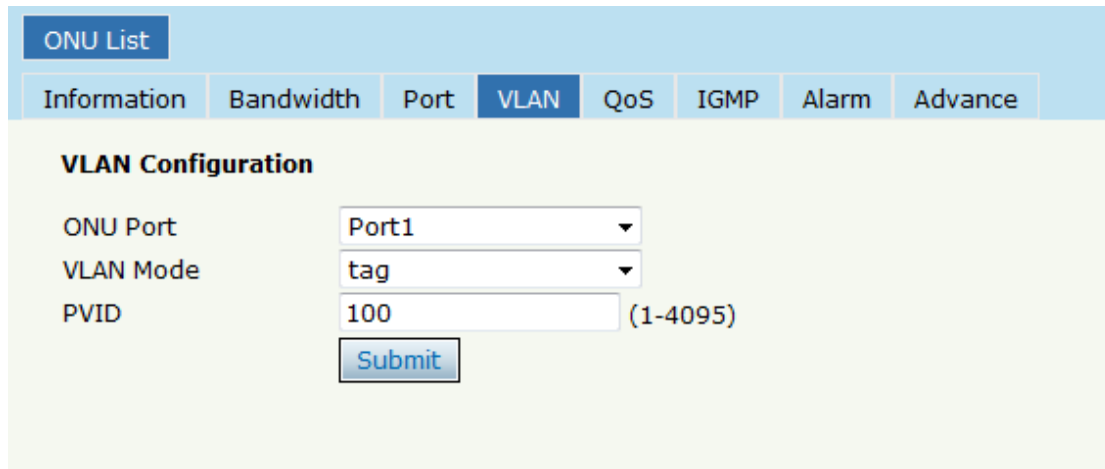
Information Configuration

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.

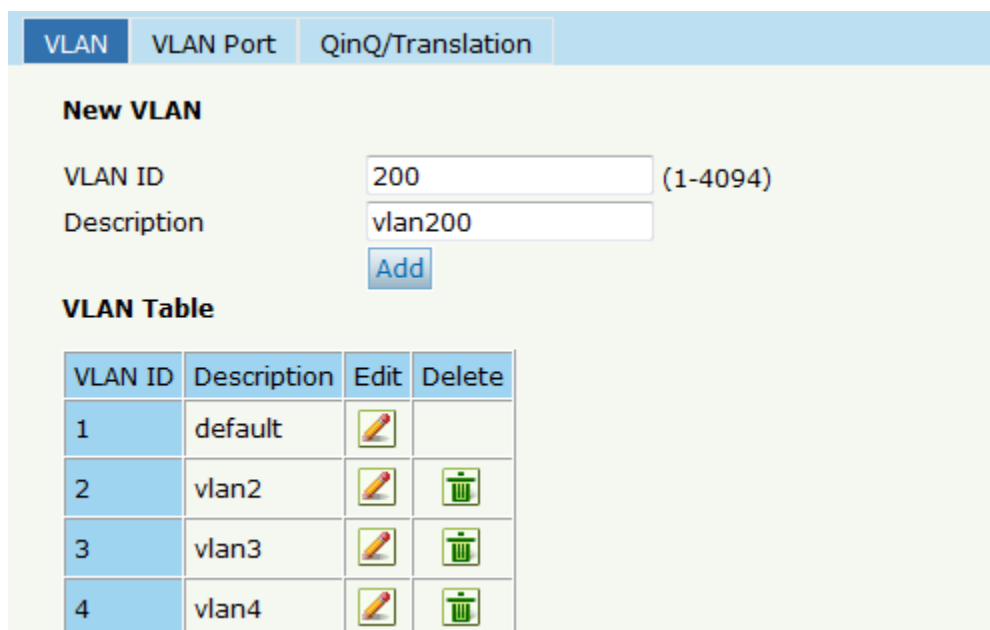


The screenshot shows the 'ONU List' interface with the 'VLAN' tab selected. Under 'VLAN Configuration', the 'ONU Port' is set to 'Port1', 'VLAN Mode' is 'tag', and 'PVID' is '100' (with a range of 1-4095). A 'Submit' button is visible at the bottom.








7.2 IPTV Service with VLAN 200

a. OLT configuration

Step 1: Create a new VLAN.



The screenshot shows the 'VLAN' configuration page with the 'New VLAN' section. The 'VLAN ID' is set to '200' (range 1-4094) and the 'Description' is 'vlan200'. An 'Add' button is present. Below is a 'VLAN Table' with the following data:

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:

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:

Last Member Query Interval: (1-255s)

Last Member Query Count: (1-255)

Last Member Query Response: (1-255s)

General Query Packet: Disable Enable

General Query Interval: (10-255s)

Query Source IP:

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

Multicast Port Configuration

ONU Port

Multicast Max Group	<input type="text" value="0"/> (0-255) <input type="button" value="Submit"/>
Multicast VLAN	<input type="text" value="200"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="button" value="Submit"/>
VLAN Tag Strip Mode	<input type="text" value="Strip"/> <input type="button" value="Submit"/>

7.3 VoIP Service with VLAN 300

a. OLT Configuration








Step 1: Create a new VLAN

VLAN VLAN Port QinQ/Translation

New VLAN

VLAN ID (1-4094)
 Description

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.

VLAN | **VLAN Port** | QinQ/Translation

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)

Step 4: Setup the SIP configuration

ONU List

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

SIP Parameter Configuration

Manage Port (1-65535)

Proxy Service IP/Port (x.x.x.x) (1-65535)

Backup Proxy Service IP/Port (x.x.x.x) (0-65535)

Register Service IP/Port (x.x.x.x) (1-65535)

Backup Register Service IP/Port (x.x.x.x) (0-65535)

Out Bound Service IP/Port (x.x.x.x) (1-65535)

Register Interval (1-10000000)

Heartbeat Switch

Heartbeat Cycle (1-65535)

Heartbeat Count (1-65535)

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

POTS Information

Port Status	Registering
Services State	Endlocal
Codec Mode	G711A

Manage Configuration

Manage Status Disable Enable

SIP User Parameter Configuration

User Account

User name

User Password

7.4 DHCPv6 Configuration

Here is an example shows how to configure DHCPv6.

DHCPv6 server: OLT

DHCPv6 client: HGU

VLAN: 3000

1. Authenticate ONU.

The HGU is connecting to PON 1. It will show online after being authenticated.

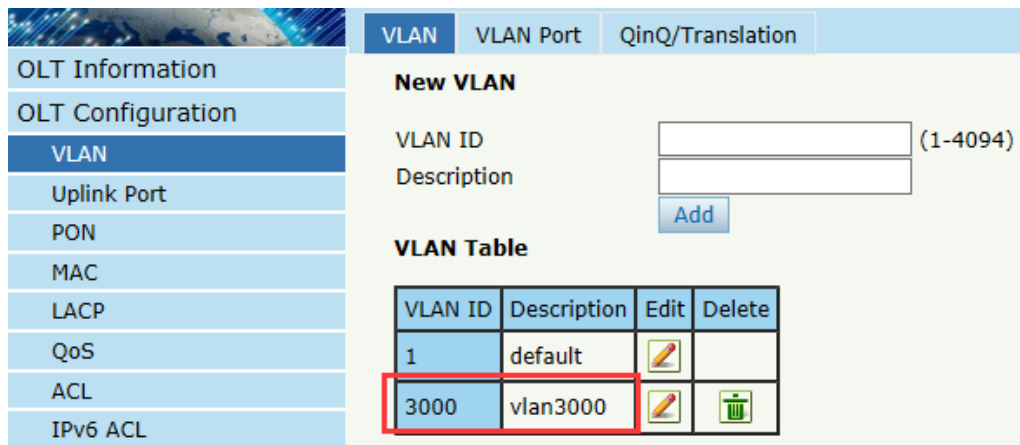


The screenshot shows the 'ONU Authentication Information' page in a network management interface. On the left is a navigation menu with options like OLT Information, ONU Configuration, and ONU list (which is selected). The main area has tabs for 'ONU list', 'ONU Status', and 'OPM Diag'. Below the tabs are input fields for 'Port ID' (PON1), 'ONU Type' (Authentication), 'MAC' (with a placeholder HH:HH:HH:HH:HH:HH), and 'Description'. There are buttons for 'Refresh', 'Deregister', 'Reset', 'Unauth', and 'Search'. At the bottom, a table lists ONU details.

ONU ID	Status	MAC Address	Description	RTT(TQ)	Type	Auth Flag
EAPON0/1:1	Online	80:14:A8:91:A8:30	N/A	100	1GE+1FE+1POTS+4WIFI	Auth

2. Create VLAN.

Create a new VLAN for DHCPv6.



The screenshot shows the 'New VLAN' page in a network management interface. The left navigation menu includes 'VLAN' (selected), 'Uplink Port', 'PON', 'MAC', 'LACP', 'QoS', 'ACL', and 'IPv6 ACL'. The main area has tabs for 'VLAN', 'VLAN Port', and 'QinQ/Translation'. Below the tabs are input fields for 'VLAN ID' (with a range of 1-4094) and 'Description'. There is an 'Add' button. Below that is a 'VLAN Table' with columns for 'VLAN ID', 'Description', 'Edit', and 'Delete'. The table contains two entries: '1' with description 'default' and '3000' with description 'vlan3000'. The '3000' entry is highlighted with a red box.

VLAN ID	Description	Edit	Delete
1	default		
3000	vlan3000		

3. Add VLAN to ports

Add the VLAN to PON 1, which the HGU is connecting to.

VLAN | VLAN Port | QinQ/Translation

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

RSTP

Loopback

DHCP

DHCPv6

 DHCPv6 Server

 DHCPv6 Relay

IPv6 SLAAC

Route

IPv6 Route

ONU Configuration

Profile Configuration

System Configuration

Port VLAN Configuration

VLAN ID: 3000

Port ID	Mode	Forbidden	Tag	Untag
GE1	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	Hybrid	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE11	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	Hybrid	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE13	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON1	Hybrid	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
PON2	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON3	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON4	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON5	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON6	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON7	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
PON8	Hybrid	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Submit | Reset

4. Configure VLAN IPv6 address.

IPv6 address must be there so that DHCPv6 in this VLAN can be enabled.

The IPv6 address can be link local address or global unicast address.

VLAN IPv6

OLT Information
 OLT Configuration
 VLAN
 Uplink Port
 PON
 MAC
 LACP
 QoS
 ACL
 IPv6 ACL
 IGMP
 IPv6 MLD
 RSTP
 Loopback
 DHCP
 DHCPv6
 IPv6 SLAAC
 Route
 IPv6 Route
IPv6
 IPv6 Static Route
 IPv6 Route Table

VLAN IPv6 Configuration

VLAN ID: 1
 IPv6 Address:
 Prefixlen:
 Submit Reset

VLAN IPv6 Table

VLAN ID	IPv6 Address	Prefixlen	Delete
3000	fe80::bb8:8214:a8ff:fec4:1e5b		
	2202:abcd::ef:1	64	

5. Configure DHCPv6 pool.

Configure DHCPv6 address pool and other network parameters, such as life time, DNS server and domain.

DHCPv6 Bind Information DHCPv6 Server Enable **Server Pool Configuration**

DHCPv6 Server Pool Setting

Pool Name:
 Start IPv6 Address:
 End IPv6 Address:
 Valid LifeTime: (60-4294967295)s
 Preferred LifeTime: (60-4294967295)s (Valid lifetime must be large than Preferred lifetime)
 DNS Server:
 Domain Name:
 Submit Reset

DHCPv6 Server Pool

Pool Name	Start IPv6 Address	End IPv6 Address	Valid LifeTime	Preferred LifeTime	DNS Server	Domain Name	Edit	Delete
test	2002:abcd::ef:1000/64	2002:abcd::ef:2000/64	600	500	2002:abcd::ef:11	test.com		
					2002:abcd::ef:1			

6. Enable DHCPv6 server.

DHCPv6 Server Configuration

DHCPv6 Server: Disable
 VLAN ID: 1
 Pool Name:

DHCPv6 Interface Information

VLAN ID	Using Pool
3000	test

Refresh

7. Configure RA parameters.

Disable Suppress RA and M/O field should be checked, which means clients use DHCPv6 to get IPv6 address.

IPv6 SLAAC Configuration

VLAN ID	Suppress RA	Send RA Time (1-1800s)	RA LifeTime (0-9000s)	Reachable Time (0-3600000s)	M	O	Router Preference	MTU (1-1500)
3000	<input type="checkbox"/>	200	600	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MEDIUM	1500

Submit

8. Configure ONU IPv6 WAN.

Create an IPv6 WAN connection with correct VLAN.

Gateway Name: Household Gateway

Network

Status
Network
Security
Application
Management
Diagnose

Internet
Binding
LAN IP Address
WLAN
Remote
LOID Configuration
QoS
Time
Router

Internet Connection

Connection Name:

Mode:

IP Protocol Mode:

DHCP Get an address from ISP

PPPoE Select this when using PPPOE

IPv6 If ISP only use MER for IPv6, Please Select This

Enable Vlan:

Vlan ID:

802.1p:

MTU:

Request DNS: Enable Disable

Primary DNS:

Secondary DNS:

Service Mode:

Turn off LAN DHCP:

Port binding:

Port_1 Port_2

WLAN(SSID1)

IPv6 WAN:

IPv6 Address:

DHCP PD:

9. ONU obtains IPv6 address.

ONU will obtain IPv6 address from DHCPv6 server.

Gateway Name: Household Gateway [Logout](#)

Status

Status
Network
Security
Application
Management
Diagnose
Help

Device Information
WAN Connection Info
User Information
VOIP Information
Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

EPON Information

WAN Info

Interface	VLAN ID	Protocol	IGMP	Status	IP Address	Obtain Prefix
1_INTERNET_R_VID_3000	3000	IPoE	Enable	up	2202:abcd:ef:1000::64	eb3a:2000:0:b00:5362:8700::

NetWork Info

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_INTERNET_R_VID_3000	fe80::bb8:8214:a8ff:fec4:1e5b	2202:abcd::ef:2	2202:abcd::ef:1

DHCPv6 Bind Information
DHCPv6 Server Enable
Server Pool Configuration

DHCPv6 Bind Information

Client	DUID	Address	Preferred LifeTime	Valid LifeTime	Expire Time
fe80::8214:a8ff:fe91:a837	00:03:00:01:80:14:a8:91:a8:30	2202:abcd::ef:1000	500	600	2000-01-02 06:21:35 (410 seconds)

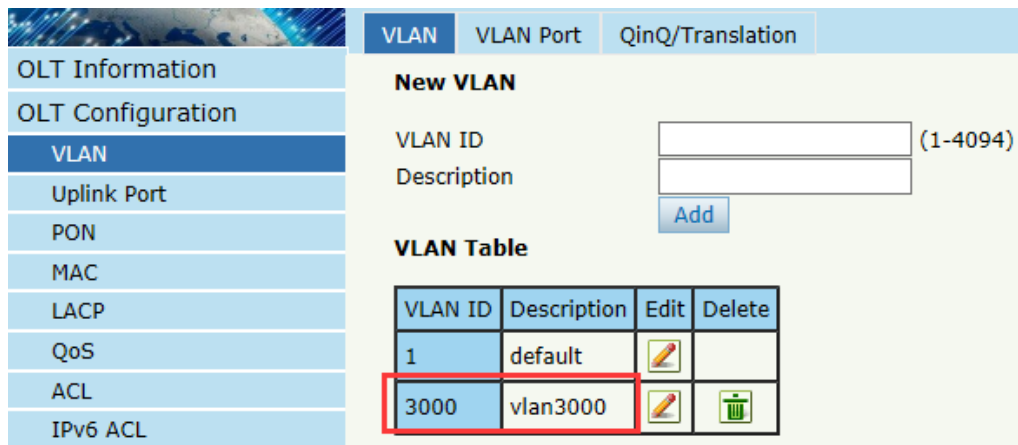
[Refresh](#)

7.5 IPv6 SLAAC Configuration




A computer is connected to OLT uplink port GE10, and the computer obtains IPv6 address by SLAAC.

1. Create VLAN.

Create a new VLAN for IPv6 SLAAC.



The screenshot shows a network management interface with a sidebar on the left containing navigation options: OLT Information, OLT Configuration, VLAN (highlighted), Uplink Port, PON, MAC, LACP, QoS, ACL, and IPv6 ACL. The main content area is titled 'New VLAN' and includes input fields for 'VLAN ID' (with a range of 1-4094) and 'Description', along with an 'Add' button. Below this is a 'VLAN Table' with the following data:

VLAN ID	Description	Edit	Delete
1	default		
3000	vlan3000		

2. Add VLAN to ports

Add the VLAN to port 10, which the PC or other devices are connecting to.

VLAN | **VLAN Port** | QinQ/Translation

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

RSTP

Loopback

DHCP

DHCPv6

IPv6 SLAAC

Route

IPv6 Route

ONU Configuration

Profile Configuration

Port VLAN Configuration

VLAN ID: 3000

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

3. Configure PVID of the port.

Information | **Configuration**

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

RSTP

Loopback

DHCP

DHCPv6

IPv6 SLAAC

Route

IPv6 Route

ONU Configuration

Profile Configuration

System Configuration

GE Configuration

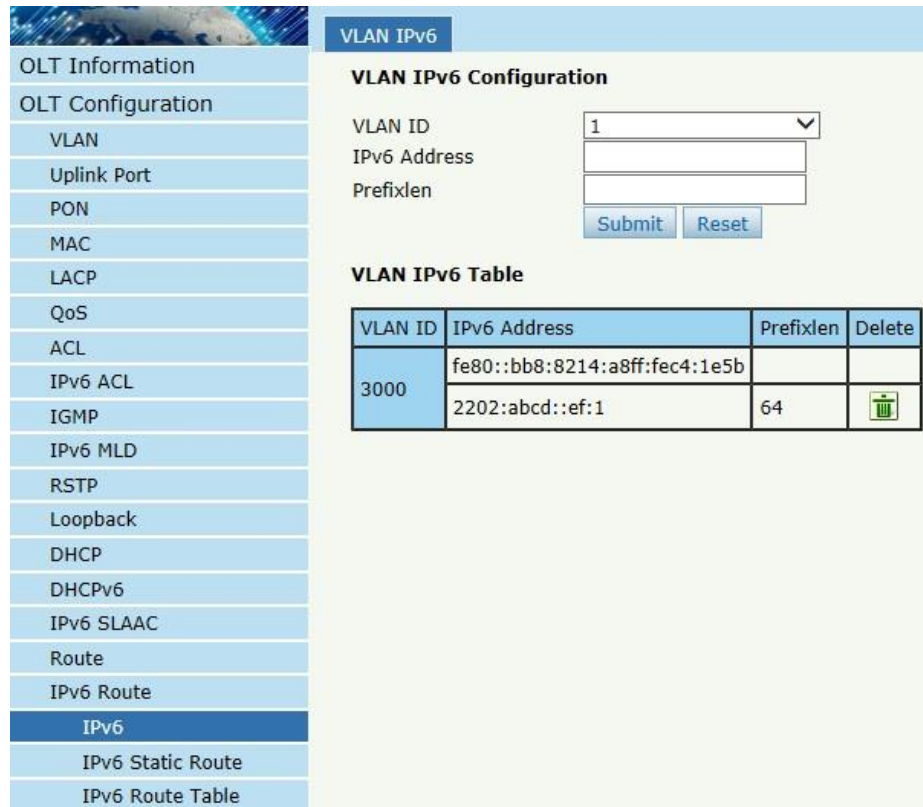
Port ID	Description	Admin Status	Speed	Flow Control	Isolate	PVID
GE1		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE2		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE3		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE4		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE5		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE6		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE7		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE8		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE9		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE10		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input type="checkbox"/>	3000
GE11		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE12		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input type="checkbox"/>	3000
GE13		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE14		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3000
GE15		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
GE16		<input checked="" type="checkbox"/>	Auto	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1

Submit Reset

4. Configure VLAN IPv6 address.

IPv6 address must be there so that SLAAC in this VLAN can be available.

The IPv6 address can be link local address or global unicast address.




The screenshot displays a network management interface for configuring VLAN IPv6. On the left is a navigation menu with various configuration options, and on the right is the 'VLAN IPv6 Configuration' page.

VLAN IPv6 Configuration

VLAN ID: 1 (dropdown menu)
IPv6 Address: [text input field]
Prefixlen: [text input field]
Buttons: Submit, Reset

VLAN IPv6 Table

VLAN ID	IPv6 Address	Prefixlen	Delete
3000	fe80::bb8:8214:a8ff:fec4:1e5b		
	2202:abcd::ef:1	64	

5. Configure RA parameters.

Disable Suppress RA and M/O field should be unchecked, which means clients use SLAAC to get IPv6 address.

IPv6 SLAAC IPv6 SLAAC Prefix

IPv6 SLAAC Configuration

VLAN ID	Suppress RA	Send RA Time (1-1800s)	RA LifeTime (0-9000s)	Reachable Time (0-360000s)	M	O	Router Preference	MTU (1-1500)
3000	<input type="checkbox"/>	200	600	0	<input type="checkbox"/>	<input type="checkbox"/>	MEDIUM	1500

Submit

6. Configure SLAAC prefix.

Once IPv6 address of VLAN is added, the SLAAC prefix will generate automatically.

IPv6 SLAAC IPv6 SLAAC Prefix

IPv6 SLAAC Prefix Configuration

VLAN ID: 1

ND Prefix:

ND Prefix Length:

Valid LifeTime: (0-4294967295)s

Preferred LifeTime: (0-4294967295)s (Valid lifetime must be large than Preferred lifetime)

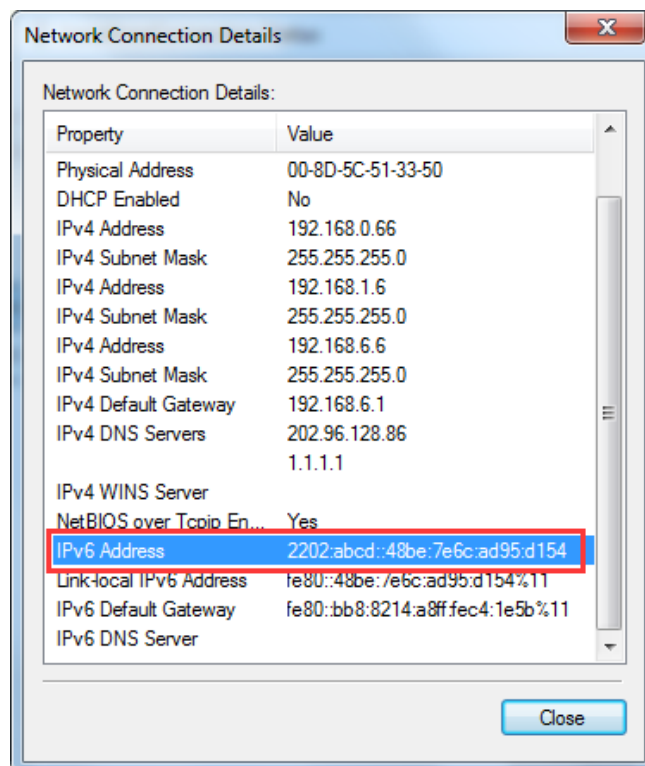
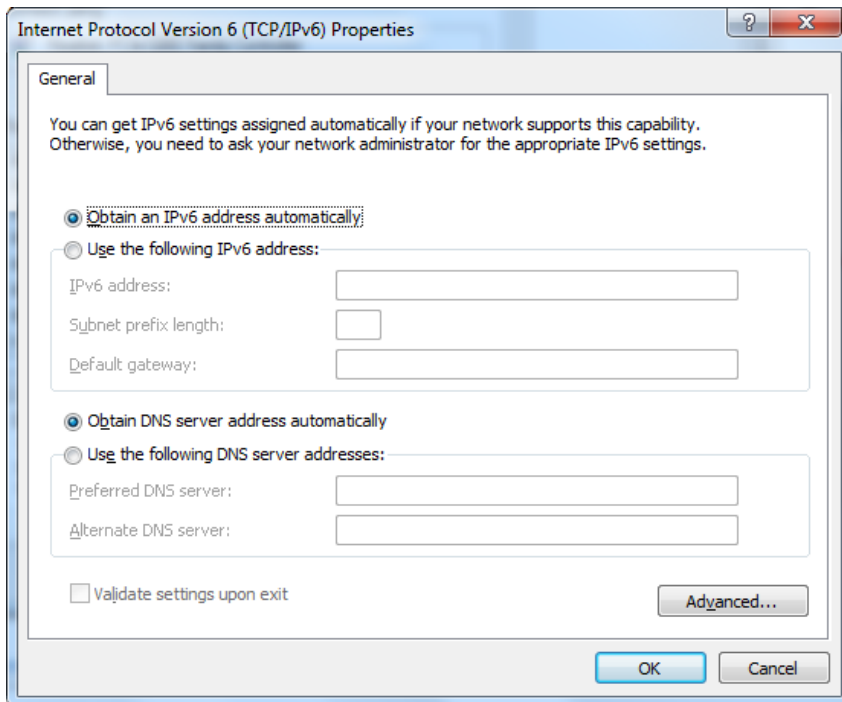
Add

IPv6 SLAAC Prefix

VLAN ID	ND Prefix	Valid LifeTime	Preferred LifeTime	Delete
3000	2202:abcd::/64	2592000	604800	

Refresh

7. Connect the computer to OLT uplink GE10, choose Obtain an IPv6 Address automatically. The computer will obtain an IPv6 address by SLAAC.



Thank you!