



EPON OLT WEB USER MANUAL

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Contents

Chapter 1 System Description	5
1.1 Overview.....	5
1.1.1 OLT Introduction.....	5
1.1.2 PC System Requirement	5
1.2 Connection	6
Chapter 2 OLT Application Status.....	7
2.1 Login	7
2.2 Status.....	7
2.2.1 Device	8
2.2.2 Port	9
2.2.3 MAC	10
2.2.4 IGMP	10
2.2.5 RSTP.....	11
2.2.6 DHCP	12
2.2.7 ONU	13
2.2.8 Alarm	14
Chapter 3 OLT Basic Setting	16
3.1VLAN	16
3.1.1 New VLAN.....	16
3.1.2 Port VLAN	16
3.1.3 QinQ.....	17
3.1.4 VLAN IP	17
3.2 Port	18
3.2.1 GE Setup	18
3.2.2 PON Setup	19
3.2.3 Channel Group.....	19
3.2.4 Mirroring.....	20
3.3 QOS.....	20
3.4 MAC	21

3.5Security (ACL)	22
3.5.1 Security Filter.....	22
3.5.2 Effect Filter	22
Chapter 4 Application.....	24
4.1 IGMP	24
4.1.1 Global Setup	24
4.1.2 Port Setup.....	24
4.1.3 Port User VLAN	25
4.1.4 Port Mrouter	25
4.1.5 Static Group.....	26
4.2 RSTP	26
4.2.1 Global Setup	26
4.2.2 Port Setup.....	27
4.3 ARP Proxy	27
4.4 DHCP	28
4.4.1 DHCP Server.....	29
4.4.2 DHCP Relay	29
4.4.3 DHCP Snooping Global.....	30
4.4.4 DHCP Snooping Port	30
4.4.5 DHCP Snooping Bind.....	31
4.5 Static Route	31
Chapter 5Maintenance.....	33
5.1 User Manage	33
5.2 Device Manage	33
5.2.1 Firmware Upgrade.....	33
5.2.2 Device Reboot	34
5.2.3 Config File	34
5.3 Alarm	35
5.3.1 Alarm	35
5.3.2 Threshold Alarm	36

5.3.3 PON Optical Alarm.....	36
5.3.4 Syslog Server.....	36
5.4 SNMP	37
5.4.1 SNMP V1/V2	37
5.4.2 SNMP V3.....	38
5.4.3 SMNP V3 Trap.....	38
5.5 AUX IP	38
5.6 RTC.....	39
5.7 FAN	39
Chapter 6 ONU Profile	41
6.1 DBA Profile.....	41
6.2 Server Profile	42
6.3 VoIP Profile	43
6.4 Alarm Profile.....	43
6.5 Bind Profile	44
Chapter 7 ONU	46
7.1 Authentication.....	46
7.1.1 ONU authentication.....	46
7.1.2 MAC List.....	46
7.1.3 LOID List.....	47
7.1.4 ONU Action	47
7.2 ONU Global.....	48
7.3 ONU Port	49
7.4 ONU VoIP	49
7.5 ONU Alarm.....	50
Chapter 8 Configuration Examples.....	51
8.1 Internet With VLAN 100	51
8.2 IPTV With VLAN 200	52
8.3 VoIP With VLAN 300	56

Chapter 1 System Description

1.1 Overview

1.1.1 OLT Introduction

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

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

Table 1-1 OLT interfaces

Products		2 ports EPON OLT	4 ports EPON OLT	8 ports EPON OLT
Chassis	Rack	1U 19 inch standard box	1U 19 inch standard box	1U 19 inch standard box
1000M Uplink Port	QTY	4	8	16
	Copper	2*10/100/1000M auto-negotiation	4*10/100/1000M auto-negotiation	8*10/100/1000M auto-negotiation
	SFP (Independent)	2*SFP	4*SFP	4*SFP and 4*SFP+ (SFP+ is compatible with 10GE)
EPON Port	QTY	2	4	8
	Physical Interface	SFP Slots	SFP Slots	SFP Slots
Management Ports		1*10/100BASE-T out-band port(AUX), 1*CONSOLE port		
Management Mode		SNMP, WEB, Telnet and CLI		

1.1.2 PC System Requirement

Table 1-2 PC System requirement

CPU	Memory	DISK	Video Card	Operating
-----	--------	------	------------	-----------

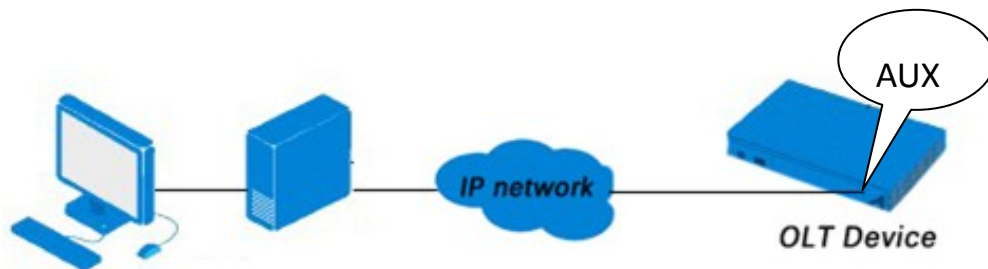
				System
Frequency	2GB	10GB	65000 color	Windows2008
above	Or above	disk space	resolving	Windows XP
2GHz			capability	Windows 7
			1024*768	Windows 8
			and above	Windows 10

1.2 Connection

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

IP is 192.168.8.100.

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



Chapter 2 OLT Application Status

2.1 Login

Follow the steps to login:

1. Conform "1.2 Connection" to connect;
2. The device default IP address is 192.168.8.100;
3. Open your web browser, type the device IP in address bar;
4. Entry of the username and password will be prompted. Enter the default login User Name and Password. Both the username and password are "**admin**" by default.

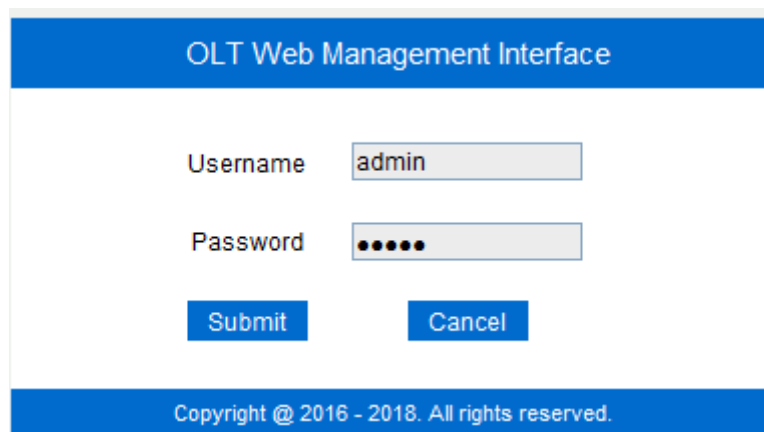
The image shows a web browser window displaying the 'OLT Web Management Interface' login page. The page has a blue header bar with the title 'OLT Web Management Interface'. Below the header, there are two input fields: 'Username' with the text 'admin' entered, and 'Password' with masked characters (dots). Below these fields are two buttons: 'Submit' and 'Cancel'. At the bottom of the page, there is a blue footer bar with the text 'Copyright @ 2016 - 2018. All rights reserved.'

Figure 2-1: Login

2.2 Status

This part shows the main information and the service status of OLT.

2.2.1 Device

It's about the OLT basic information and the real-time information. Click **Status→Device** to get the information.

2.2.1.1 Basic Info

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

OLT Web Management Interface

admin

Status	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU		
	Device	Port	MAC	IGMP	RSTP	DHCP	ONU	Alarm

Basic Info

Realtime Info

Device Basic Info

System Name	<input type="text" value="epon-olt"/>
Serial Number	V1603120090
Hardware Version	eight epon olt platform
Firmware Version	V2.03.13
MAC Address	80:14:A8:23:D6:F9
System Time	2000 /1 /1 0:59:15

Submit

Figure 2-2: Device Information

2.2.1.2 Realtime Info

This part shows the real-time information, including the CPU load, Memory load, Temperature and Running time.

OLT Web Management Interface

admin

Status

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

Device

Port

MAC

IGMP

RSTP

DHCP

ONU

Alarm

Basic Info

Realtime Info

Realtime Info

CPU Load	53%
Memory Load	14%
Temperature	53°C
Running Time	0 Days 1 Hours 2 Minutes 52 Seconds

Figure 2-3: Device Real-time Information

2.2.2 Port

This part is about the OLT GE port and PON port information.

Click **Status→Port→GE Info** to show the GE port link status, speed and the packets statistics.

OLT Web Management Interface

admin

Status

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

Device

Port

MAC

IGMP

RSTP

DHCP

ONU

Alarm

GE Info

PON Info

Traffic Statistics

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

Figure 2-4: GE Port Information

The **PON Info** will show the optical parameters exactly.

OLT Web Management Interface

admin

Status

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

Device

Port

MAC

IGMP

RSTP

DHCP

ONU

Alarm

GE Info

PON Info

Optical Transceiver

Port ID	Temperature	Voltage	Bias Current	Transmit Power
PON1	42.268 °C	3.3304 V	12.96 mA	4.825163 dbm
PON2	N/A	N/A	N/A	N/A
PON3	N/A	N/A	N/A	N/A
PON4	N/A	N/A	N/A	N/A
PON5	N/A	N/A	N/A	N/A
PON6	N/A	N/A	N/A	N/A
PON7	N/A	N/A	N/A	N/A
PON8	N/A	N/A	N/A	N/A

Traffic Statistics

Port ID	Link Status	Speed	Rx Packets	Rx Broadcast	Rx Multicast	Tx Packets	Tx Broadcast	Tx Multicast	Collisions	Errors
PON1	Up	1000M Full	1242	1179	63	28	0	28	0	0
PON2	Down	-	14	0	14	28	0	28	0	0
PON3	Down	-	14	0	14	28	0	28	0	0
PON4	Down	-	14	0	14	28	0	28	0	0
PON5	Down	-	14	0	14	28	0	28	0	0
PON6	Down	-	14	0	14	28	0	28	0	0
PON7	Down	-	14	0	14	28	0	28	0	0
PON8	Down	-	14	0	14	28	0	28	0	0

Figure 2-5: PON Port Information

2.2.3 MAC

MAC Info is to show the learning MAC address of OLT. All the MAC addresses of all the ports with VLAN can be shown.

OLT Web Management Interface

admin

Status

StatusBasic SettingApplicationMaintenanceONU ProfileONUAlarm

DevicePortMACIGMRRSTPDHCPONUAlarm

MAC Info

MAC Address Table

Port IDALL

VLAN ID	MAC	Type	Physical Port
960	40:61:86:02:42:CA	Dynamic	GE10
960	7C:08:D9:D3:13:5C	Dynamic	GE10
960	34:97:F6:85:50:9B	Dynamic	GE10
960	00:0A:C2:21:0B:BD	Dynamic	GE10
960	62:08:D9:D3:13:5C	Dynamic	GE10
960	3C:D1:8E:09:DE:57	Dynamic	GE10
960	00:05:A8:1E:5A:70	Dynamic	GE10
960	00:1F:16:2F:ED:35	Dynamic	GE10
960	E8:03:9A:DE:B1:E8	Dynamic	GE10
960	00:0C:29:36:4E:9D	Dynamic	GE10
960	00:1E:EC:11:7D:07	Dynamic	GE10
960	00:20:23:00:00:00	Dynamic	GE10
960	00:05:A8:0A:EF:C1	Dynamic	GE10

Figure 2-6: MAC Table

2.2.4 IGMP

Click **Status**→**IGMP**→**Group Member**, IGMP Group Member (both the dynamic and static IGMP Group) can be shown.

OLT Web Management Interface

admin

Status	Status	Basic Setting		Application	Maintenance		ONU Profile	ONU
	Device	Port	MAC	IGMP	RSTP	DHCP	ONU	Alarm

Group Member

IGMP Group Member

Group VLAN ID	IP Address	Port ID	Type	User VLAN ID
960	239.0.0.1	PON1	Static	46

Refresh

Figure 2-7: IGMP Group Member

2.2.5 RSTP

The OLT is disabling RSTP by default. When enable the RSTP, the RSTP global information and port information can be shown by click **Status→RSTP**. See Figure 2-8 and Figure 2-9.

OLT Web Management Interface

admin

Status	Status	Basic Setting		Application	Maintenance	ONU Profile	ONU
	Device	Port	MAC	IGMP	RSTP	DHCP	ONU

Global Info

Port Info

RSTP Information

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

Figure 2-8: RSTP Global Information

OLT Web Management Interface

admin

Status

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

Device

Port

MAC

IGMP

RSTP

DHCP

ONU

Alarm

Global Info

Port Info

RSTP Port Status

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

Refresh

Figure 2-9: RSTP Port Information

2.2.6 DHCP

Click **Status**→**DHCP**, the DHCP Server Lease and DHCP Snooping Bind List will be shown as Figure 2-10 and Figure 2-11.

OLT Web Management Interface

Status

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

Device

Port

MAC

IGMP

RSTP

DHCP

ONU

Alarm

Server Lease

Snooping Bind List

DHCP Server Lease

IP Address

MAC address

Expires Time

Refresh

Figure 2-10: DHCP Server list

OLT Web Management Interface

Status

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

Device

Port

MAC

IGMP

RSTP

DHCP

ONU

Alarm

admin

Server Lease

Snooping Bind List

DHCP Snooping Bind List

MAC Address	VLAN ID	IP Address	Port ID	Lease	Type
01:00:00:02:01:00	1	192.168.1.222	GE2	55	Static

FlushAll

FlushStatic

FlushDynamic

Refresh

Figure 2-11: DHCP Snooping list

2.2.7 ONU

When ONU had connected to OLT, it should be authenticated first. This page shows about the ONU authentication list. It will be bound a profile ID 0 when ONU is authenticated successfully. Click **Status→ONU**, as shown in Figure 2-12 and Figure 2-13.

OLT Web Management Interface										admin
Status	Status		Basic Setting		Application		Maintenance		ONU Profile	
	Device	Port	MAC	IGMP	RSTP	DHCP	ONU	Alarm		
Authentication Info										
Automatic Discovery										
Bind Profile Info										
	ONU ID	LLID	Status	MAC Address	RTT	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd
	1	-1	Offline	80:14:A8:20:BA:10	0	Unknown	Unauth	Idle	None	NULL
	2	-1	Offline	80:14:A8:20:BA:58	0	Unknown	Unauth	Idle	None	NULL
	3	-1	Offline	80:14:A8:20:B6:E0	0	Unknown	Unauth	Idle	None	NULL
	4	-1	Offline	80:14:A8:0D:CE:30	0	Unknown	Unauth	Idle	None	NULL
	5	-1	Offline	80:14:A8:20:BA:20	0	Unknown	Unauth	Idle	None	NULL
	6	-1	Offline	80:14:A8:1A:E0:58	0	Unknown	Unauth	Idle	None	NULL
	7	-1	Offline	80:14:A8:1A:E0:78	0	Unknown	Unauth	Idle	None	NULL
	8	-1	Offline	80:14:A8:1A:E2:08	0	Unknown	Unauth	Idle	None	NULL
	9	-1	Offline	80:14:A8:20:B9:80	0	Unknown	Unauth	Idle	None	NULL
	10	-1	Offline	80:14:A8:20:BA:40	0	Unknown	Unauth	Idle	None	NULL
	11	-1	Offline	80:14:A8:1A:E1:E8	0	Unknown	Unauth	Idle	None	NULL
	12	-1	Offline	80:14:A8:1A:E2:C8	0	Unknown	Unauth	Idle	None	NULL
	13	-1	Offline	80:14:A8:1A:E2:48	0	Unknown	Unauth	Idle	None	NULL
	14	-1	Offline	80:14:A8:1A:E1:68	0	Unknown	Unauth	Idle	None	NULL
	15	-1	Offline	80:14:A8:1A:E0:C8	0	Unknown	Unauth	Idle	None	NULL

Figure 2-12: ONU Authentication List

OLT Web Management Interface										admin
Status	Status		Basic Setting		Application		Maintenance		ONU Profile	
	Device	Port	MAC	IGMP	RSTP	DHCP	ONU	Alarm		
Authentication Info										
Automatic Discovery										
Bind Profile Info										
	Port ID PON1									
	ONU ID	MAC Address	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Default Server Profile			
	1	80:14:A8:20:BA:10	0	0	0	0	0x0			
	2	80:14:A8:20:BA:58	0	0	0	0	0x0			
	3	80:14:A8:20:B6:E0	0	0	0	0	0x0			
	4	80:14:A8:0D:CE:30	0	0	0	0	0x0			
	5	80:14:A8:20:BA:20	0	0	0	0	0x0			
	6	80:14:A8:1A:E0:58	0	0	0	0	0x0			
	7	80:14:A8:1A:E0:78	0	0	0	0	0x0			
	8	80:14:A8:1A:E2:08	0	0	0	0	0x0			
	9	80:14:A8:20:B9:80	0	0	0	0	0x0			
	10	80:14:A8:20:BA:40	0	0	0	0	0x0			
	11	80:14:A8:1A:E1:E8	0	0	0	0	0x0			
	12	80:14:A8:1A:E2:C8	0	0	0	0	0x0			
	13	80:14:A8:1A:E2:48	0	0	0	0	0x0			
	14	80:14:A8:1A:E1:68	0	0	0	0	0x0			

Figure 2-13: ONU Profile Bind List

2.2.8 Alarm

Click **Status**→**Alarm** to view system event and alarm information.

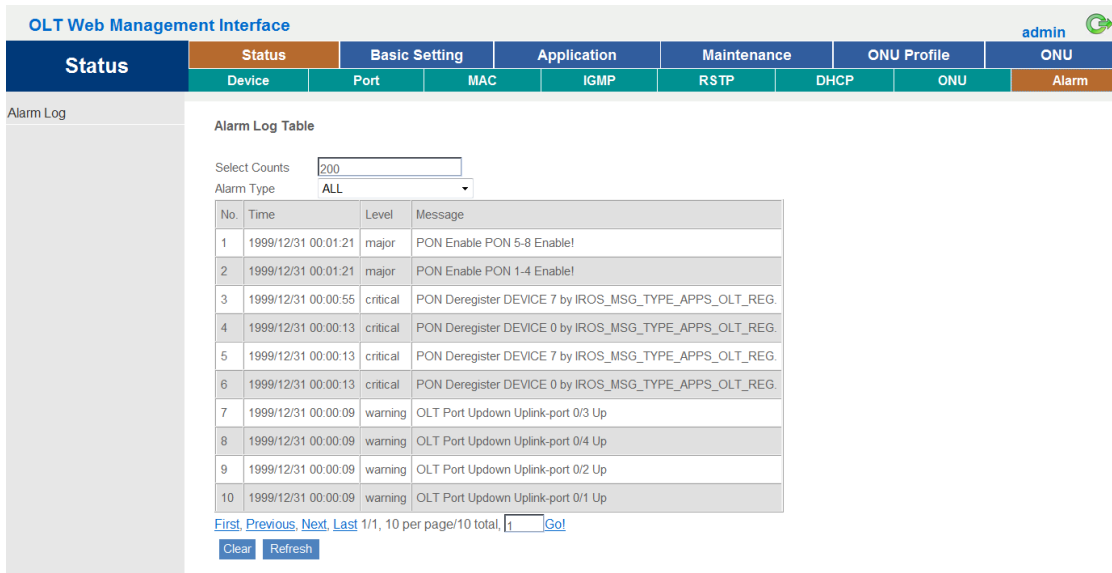


Figure 2-14: Alarm Events

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

Table 2-1 Event and Alarm level

ITEM	DESCRIPTION	LEVEL	ITEM	DESCRIPTION	LEVEL
ALARM	OLT Port Up down	warning	EVENT	System Config Save	warning
	OLT Port Loopback	warning		System Config Erase	warning
	OLT Temp High	major		Download File Success	major
	OLT Temp Low	major		Upload File Success	major
	OLT CPU Usage High	major		Upgrade File Success	major
	OLT MEM Usage High	major		PON Register	critical
	OLT FAN	major		PON Enable	major
	Download File Failed	major		PON LOS Recovery	major
	Upload File Failed	major		ONU is Registering	major
	Upgrade File Failed	major		ONU Link Discover	major
	PON Disable	major		ONU AUTH Success	major
	PON TX Power High	major		ONU DEAUTH Success	major
	PON TX Power Low	major		ONU Upgrade Over	major
	PON TX Bias High	major		ONU finish the register and AUTH	major
	PON TX Bias Low	major		System Reset	critical
	PON VCC High	major			

PON VCC Low	major			
PON Temp High	major			
PON Temp Low	major			
PON LOS	major			
ONU Deregister	major			
ONU Link LOST	major			
ONU Illegal Register	major			
ONU AUTH Failed	major			
ONU MAC Conflict	major			
ONU LOID Conflict	major			
ONU Critical Event	major			
Dying Gasp	major			
ONU Link Fault	major			
ONU Link Event	major			
ONU Event Notific	major			
ONU Laser Always On	major			
PON Deregister	critical			
PON Register Failed	critical			

Chapter 3 OLT Basic Setting

This section is about the basic service of OLT configuration.

3.1VLAN

3.1.1 New VLAN

Click **Basic Setting→VLAN→New VLAN** to create new VLAN.

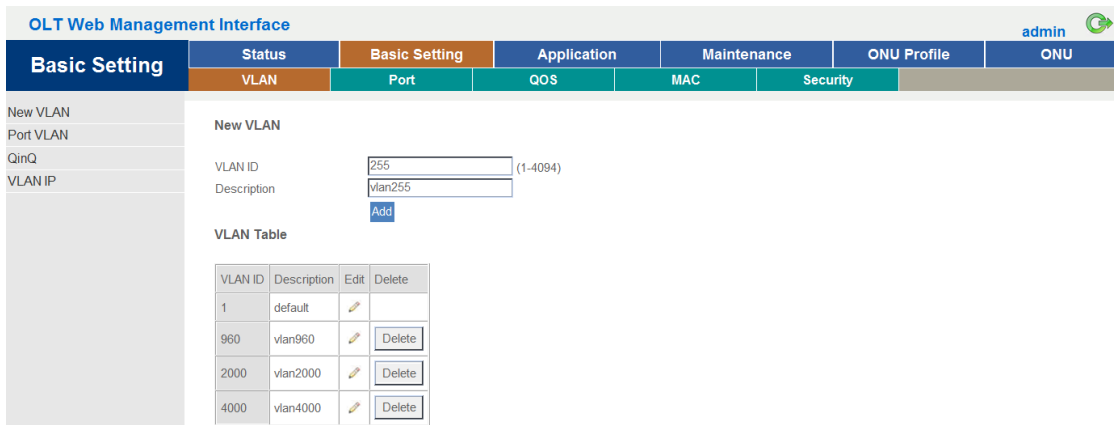



Figure 3-1: Create New VLAN

3.1.2 Port VLAN

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

OLT Web Management Interface admin 

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QoS	MAC	Security	

New VLAN

Port VLAN

QinQ

VLAN IP

Port VLAN Configuration

VLAN ID: 2000


GE1	<input type="radio"/> None <input checked="" type="radio"/> Tag <input type="radio"/> Untag
GE2	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE3	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE4	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE5	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE6	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE7	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE8	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE9	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE10	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE11	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE12	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE13	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE14	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE15	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE16	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
PON1	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
PON2	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag

Figure 3-2: Add Port VLAN

3.1.3 QinQ

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

Basic Setting→**VLAN**→**QinQ**, as shown in Figure 3-3.

OLT Web Management Interface admin 

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QoS	MAC	Security	

New VLAN

Port VLAN

QinQ

VLAN IP

QinQ Configuration

Port ID: GE1

Customer VLAN: 1

Customer Cos: any

Service VLAN: 1

Service Cos: any

Mode: VLAN Translation

Add

VLAN QinQ Mapping Table

Port ID	Customer VLAN	Customer Cos	Service VLAN	Service Cos	Mode	Delete
GE1	2000	1	4000	2	VLAN Translation	Delete
GE1	960	0	960	0	QinQ	Delete

Figure 3-3: QinQ Configuration

3.1.4 VLAN IP

Select the existing VLAN and set an IP address for this VLAN, as shown in

Figure 3-4.

OLT Web Management Interface

admin

Basic Setting

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

VLAN

Port

QOS

MAC

Security

New VLAN

Port VLAN

QinQ

VLAN IP

VLAN IP Config

VLAN ID

960

IP Address

192.168.1.120

Subnet Mask

255.255.255.0

Submit

Reset

VLAN IP Table

VLAN ID	IP Address	Subnet Mask	Delete
960	192.168.1.120	255.255.255.0	Delete

Figure 3-4: VLAN IP

3.2 Port

GE ports and PON ports basic service can be configured here.

3.2.1 GE Setup

Select **Basic Setting→Port→GE Setup**, you can configure the uplink GE port parameters, as shown in Figure 3-5.

OLT Web Management Interface

admin

Basic Setting

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

VLAN

Port

QOS

MAC

Security

GE Setup

PON Setup

Channel Group

Mirroring

GE Configuration

Port ID

GE1

Description

Admin Status

☒ Enable ☐ Disable

Flow Control

☐ On ☒ Off

Isolate

☒ Enable ☐ Disable

Broadcast Storm Protection

512

(0|64-1000000kbps)

Multicast Storm Protection

0

(0|64-1000000kbps)

Unicast Storm Protection

512

(0|64-1000000kbps)

Ingress Rate

0

(0|32-1000000kbps)

Egress Rate

0

(0|32-1000000kbps)

MAC Limit

0

(0-16384)

Default VLAN ID

1

Submit

Reset

Figure3-5: GE Setup

3.2.2 PON Setup

Select **Basic Setting**→**Port**→**PON Setup**, you can configure the PON port parameters, as shown in Figure 3-6.

The screenshot displays the OLT Web Management Interface. The top navigation bar includes 'Basic Setting', 'Status', 'Basic Setting', 'Application', 'Maintenance', 'ONU Profile', and 'ONU'. The 'Basic Setting' tab is active, and the 'Port' sub-tab is selected. The left sidebar shows a menu with 'GE Setup', 'PON Setup' (highlighted), 'Channel Group', and 'Mirroring'. The main content area is titled 'PON Configuration' and contains the following settings:

- Port ID: PON1
- Description: [Empty text box]
- Admin Status: ☒ Enable ☐ Disable
- Flow Control: ☒ On ☐ Off
- Isolate: ☒ Enable ☐ Disable
- Broadcast Storm Protection: 512 (0/64-1000000fps)
- Multicast Storm Protection: 0 (0/64-1000000fps)
- Unicast Storm Protection: 512 (0/64-1000000fps)
- Ingress Rate: 0 (0/32-1000000kbps)
- Egress Rate: 0 (0/32-1000000kbps)
- MAC Limit: 0 (0-16384)
- Default VLAN ID: 1
- MAX RTT: 14500 (2000-32000TQ)
- ONU P2P: ☐ Enable ☒ Disable

At the bottom of the configuration area are 'Submit' and 'Reset' buttons.

Figure3-6: PON Setup

3.2.3 Channel Group

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

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

GE Setup
PON Setup
Channel Group
Mirroring

Channel Group Configuration

Channel Group ID:
 Load Balance:

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

Select GE Port: ☐ ☒ ☐ ☐ ☒ ☐ ☐ ☐ ☒ ☐ ☐ ☒ ☐ ☐ ☐ ☐

Channel Group Table

Group ID	Load Balance	Ports	Delete
1	dmac	GE2 GE5 GE9 GE12	<input type="button" value="Delete"/>

Figure 3-7: Create Channel Groups

3.2.4 Mirroring

Select **Basic Setting**→**Port**→**Mirroring** to create monitor session. Each monitor session can be set with one destination port and up to 8 source ports.

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

GE Setup
PON Setup
Channel Group
Mirroring

Mirror Configuration

Session ID:
 Destination Port:
 Source Port1:
 Source Port2:
 Source Port3:
 Source Port4:
 Source Port5:
 Source Port6:
 Source Port7:
 Source Port8:

Figure 3-8:Traffic Mirroring

3.3 QOS

The EPON OLT supports layer 2802.1p 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 **Basic**

Setting→QOS to set QOS configuration, as shown in Figure 3-8.

OLT Web Management Interfaceadmin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

QoS

QoS Type

QoS Type802.1P

Submit

QoS Configuration

QoS ModeWRR

Queue0 Weight1(1-127)

Queue1 Weight1(1-127)

Queue2 Weight1(1-127)

Queue3 Weight2(1-127)

Queue4 Weight2(1-127)

Queue5 Weight2(1-127)

Queue6 Weight1(1-127)

Queue7 Weight1(1-127)

Submit

Figure 3-9: QOS Configuration

3.4 MAC

The MAC aging time is 300s by default. You can add a static MAC address manually with VLAN and port.

OLT Web Management Interfaceadmin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

MAC

MAC Aging Configuration

Automated AgingEnable

Aging Time300(10-1000000s)

Submit

Add MAC Address

VLAN ID960

MAC Address(HH.HH.HH.HH.HH.HH)

TypeDynamic

Port IDGE1

AddDelete

Figure 3-10: MAC Configuration

3.5Security（ACL）

3.5.1 Security Filter

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

OLT Web Management Interfaceadmin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

Security Filter

Effect Filter

Access List Configuration

Access List ID

5000

(5000-5999)

Select Filter Type

S-MAC

D-MAC

VLAN

COS

Type

S-IP

S-Port

D-IP

D-Port

Protocol

DSCP

☐

☐

☒

☒

☐

☒

☐

☐

☐

☐

☐

Source MAC

Mask

(HH:HH:HH:HH:HH:HH)

Destination MAC

Mask

(HH:HH:HH:HH:HH:HH)

VLAN ID

2000

VLAN Cos

(0-7)

Ethernet Type

(HH:HH)

Source IP

192.168.21.44

Mask

255.255.255.0

Source Port

(0-65535)

Destination IP

Mask

Destination Port

(0-65535)

Protocol

TCP

(0-255)

DSCP

(0-63)

Filter Action

Deny

Add

Figure 3-11: Security Filter

3.5.2 Effect Filter

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

OLT Web Management Interface

admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

Security Filter

Effect Filter

Access List Port Configuration

Access List ID5000

GE1GE2GE3GE4GE5GE6GE7GE8GE9GE10GE11GE12GE13GE14GE15GE16

Select GE Port☐☐☒☐☒☐☐☐☐☐☐☐☐☐☐☐☐

PON1PON2PON3PON4PON5PON6PON7PON8

Select PON Port☐☐☐☐☒☒☐☐

Apply Access List to Port(s)

Active Access Lists

Access List ID	Ports
5000	GE3 GE5 PON5 PON6

Figure 3-12: Bind Security Filter

Chapter 4 Application

This chapter is about the protocol service configuration.

4.1 IGMP

4.1.1 Global Setup

To enable the IGMP snooping mode, click **Application→IGMP→Global Setup**.

OLT Web Management Interface

admin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

Global Setup

Port Setup

Port User VLAN

Port Mrouter

Static Group

IGMP Configuration

IGMP Status

Enable

Last Member Query Interval

1

(1-255s)

Last Member Query Count

2

(1-255)

Last Member Query Response

1

(1-255s)

General Query Packet

Disable

Enable

General Query Interval

125

(10-255s)

Query Source IP

1.1.1.1


Submit

Reset

Figure 4-1: IGMP Snooping Status

4.1.2 Port Setup

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

OLT Web Management Interface admin 

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
IGMP	RSTP	ARP Proxy	DHCP	Static Route		

Global Setup

Port Setup

Port User VLAN

Port Mrouter

Static Group

IGMP Port Configuration

Port ID: GE1

Fast Leave: ☒ Disable ☐ Enable

Filter: ☒ Disable ☐ Enable

Group Limit: 1024 (0-1024)

Submit Reset


IGMP Port Table

Port ID	Fast Leave	Filter	Group Limit
GE1	disable	disable	1024
GE2	disable	disable	1024
GE3	disable	disable	1024
GE4	disable	disable	1024
GE5	disable	disable	1024
GE6	disable	disable	1024

Figure 4-2: IGMP Port Setting

4.1.3 Port User VLAN

Click **Application→IGMP→Port User VLAN** to configure the user VLAN and group VLAN.

OLT Web Management Interface admin 

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
IGMP	RSTP	ARP Proxy	DHCP	Static Route		

Global Setup

Port Setup

Port User VLAN

Port Mrouter

Static Group

User VLAN Configuration

Port ID: GE1

User VLAN ID: 46

Group VLAN ID: 46

Add

User VLAN Table


Port ID	User VLAN ID	Group VLAN ID	Delete
PON1	46	960	Delete

Figure 4-3: IGMP User VLAN

4.1.4 Port Mrouter

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

Application→IGMP→Port Mrouter, as shown in Figure 4-1.

OLT Web Management Interface admin 

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
IGMP	RSTP	ARP Proxy	DHCP	Static Route		

Global Setup
 Port Setup
 Port User VLAN
Port Mrouter
 Static Group

Add Multicast Router

Port ID

GE1

Group VLAN ID

960


Multicast Router Table

Port ID	Group VLAN ID	Delete
GE1	46	<input type="button" value="Delete"/>

Figure 4-4: IGMP Port Mrouter

4.1.5 Static Group

Add an IGMP group manually. Always choose the PON port as the group port.

OLT Web Management Interface admin 

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
IGMP	RSTP	ARP Proxy	DHCP	Static Route		

Global Setup
 Port Setup
 Port User VLAN
 Port Mrouter
Static Group

Add Static Group

Port ID

PON1

IP Address

239.0.0.2

User VLAN ID

46

Static Group Table

Port ID	IP Address	User VLAN ID	Delete
PON1	239.0.0.1	46	<input type="button" value="Delete"/>

Figure 4-5: IGMP Static Group

4.2 RSTP

4.2.1 Global Setup

RSTP is disable by default, click **Application→RSTP→Global Setup** to enable.

Figure 4-6: RSTP Global Setup

4.2.2 Port Setup

The RSTP ports parameter can be set by selecting

Application→RSTP→Port Setup.

Port ID	Status	Priority (0-255)	Cost (1-200000000)	OperEdge	Point To Point
GE1	Enable	128	200000	Enable	Enable
GE2	Enable	128	200000	Enable	Enable
GE3	Enable	128	200000	Enable	Enable
GE4	Enable	128	200000	Enable	Enable
GE5	Enable	128	200000	Enable	Enable
GE6	Enable	128	200000	Enable	Enable
GE7	Enable	128	200000	Enable	Enable
GE8	Enable	128	200000	Enable	Enable
GE9	Enable	128	200000	Enable	Enable
GE10	Enable	128	200000	Enable	Enable
GE11	Enable	128	200000	Enable	Enable
GE12	Enable	128	200000	Enable	Enable

Figure 4-7: RSTP Port Setting

4.3 ARP Proxy

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

First, configure the VLAN IP.

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

New VLAN
Port VLAN
QinQ
VLAN IP

VLAN IP Config

VLAN ID: 960

IP Address: 192.168.1.120

Subnet Mask: 255.255.255.0

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

VLAN IP Table

VLAN ID	IP Address	Subnet Mask	Delete
960	192.168.1.120	255.255.255.0	Delete

Figure 4-8:VLAN IP

Then enable the ARP proxy.

OLT Web Management Interface admin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

ARP Proxy

ARP Proxy Configuration

VLAN ID: 960

ARP Proxy: ☐ Disable ☒ Enable

[Submit](#)

ARP Proxy Table

VLAN ID	ARP Proxy Status
1	disable
960	disable
1000	disable

Figure4-9: ARP proxy configuration

4.4 DHCP

OLT supports 3 services of DHCP: DHCP server, DHCP relay, DHCP Snooping.

4.4.1 DHCP Server

When enable OLT DHCP server, the connecting devices will obtain an IP address. Click **Application**→**DHCP**→**Server** to configure the DHCP Server.

The screenshot shows the 'OLT Web Management Interface' with a top navigation bar containing 'Application', 'Status', 'Basic Setting', 'Application', 'Maintenance', 'ONU Profile', and 'ONU'. The 'Application' tab is selected, and the 'DHCP' sub-tab is active. On the left, a sidebar lists 'Server', 'Relay', 'Snooping Global', 'Snooping Port', and 'Snooping Bind'. The main content area is titled 'DHCP Server Configuration'. It includes a 'DHCP Server' dropdown set to 'Enable' and a 'VLAN ID' dropdown set to '960'. Below these are 'Submit' and 'Reset' buttons. The 'DHCP Server Settings' section contains input fields for '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 note '(60-864000s)'). 'Submit' and 'Reset' buttons are at the bottom of this section.

Figure4-10: DHCP Server

4.4.2 DHCP Relay

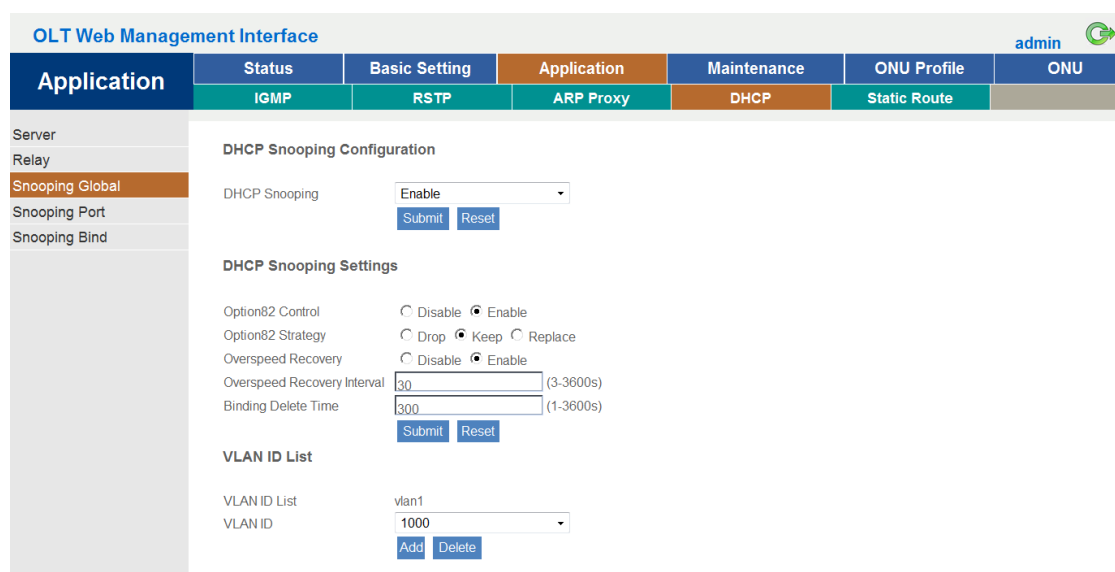
When the DHCP server and the clients are not in the same subnet, DHCP relay can help the clients get the IP address from the server. The relay server IP address network segment should be the same as the DHCP server.

The screenshot shows the 'OLT Web Management Interface' with the same top navigation bar. The 'Application' tab is selected, and the 'DHCP' sub-tab is active. The sidebar on the left now highlights 'Relay'. The main content area is titled 'Add Relay Server'. It features a 'Server IP' input field with the value '192.168.12.125' and a 'VLAN ID' dropdown menu set to '960'. Below these is an 'Add' button. The 'Relay Server Table' section contains a table with three columns: 'Server IP', 'VLAN ID', and 'Delete'.

Figure4-11: DHCP Relay

4.4.3 DHCP Snooping 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 can not allocate the IP address successfully. Click **Snooping Global** to enable DHCP Snooping.



OLT Web Management Interface admin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

Server
Relay
Snooping Global
Snooping Port
Snooping Bind

DHCP Snooping Configuration

DHCP Snooping: Enable Submit Reset

DHCP Snooping Settings

Option82 Control: ☐ Disable ☒ Enable
Option82 Strategy: ☐ Drop ☒ Keep ☐ Replace
Overspeed Recovery: ☐ Disable ☒ Enable
Overspeed Recovery Interval: (3-3600s)
Binding Delete Time: (1-3600s)
Submit Reset


VLAN ID List

VLAN ID List: vlan1
VLAN ID:
Add Delete

Figure4-12: DHCP Snooping Global

4.4.4 DHCP Snooping Port

The DHCP snooping ports are untrust by default. Click **Snooping Port** to configure, as shown in Figure 4-12.

OLT Web Management Interface admin 

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
IGMP	RSTP	ARP Proxy	DHCP	Static Route		

Server
 Relay
 Snooping Global
Snooping Port
 Snooping Bind

DHCP Snooping Port Configuration


Port ID	Type	Option82 Circuit ID	Option82 Remote ID	Limit Rate(0-4096)
GE1	Untrust	123	123	1024
GE2	Untrust			0
GE3	Untrust			0
GE4	Untrust			0
GE5	Untrust			0
GE6	Untrust			0
GE7	Untrust			0
GE8	Untrust			0
GE9	Untrust			0

Figure4-13: DHCP Snooping Port

4.4.5 DHCP Snooping Bind

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

Click "**Add**", it will create a DHCP snooping bind list.

OLT Web Management Interface admin 

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
IGMP	RSTP	ARP Proxy	DHCP	Static Route		

Server
 Relay
 Snooping Global
 Snooping Port
Snooping Bind

Add DHCP Snooping Bind

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

VLAN ID:

IP Address:

Port ID:

Lease: (60-1000000s)

Static DHCP Snooping Bind Table

MAC Address	VLAN ID	IP Address	Port ID	Lease	Delete
-------------	---------	------------	---------	-------	--------

Figure4-14: DHCP Snooping Bind

4.5 Static Route

OLT supports static route L3 function. Click **Static Route** to configure, as

shown in Figure 4-14.

OLT Web Management Interfaceadmin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

Static Route

Add Static Route

Destination IP

192.169.3.123

Destination Mask

255.255.255.0

Gateway

192.168.6.1

Add

Static Route Table

Destination IP	Destination Mask	Gateway	Delete
192.168.6.0	255.255.255.0	192.168.3.1	Delete

Figure4-15: Static Route

Chapter 5Maintenance

This chapter is about the global management of OLT.

5.1 User Manage

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

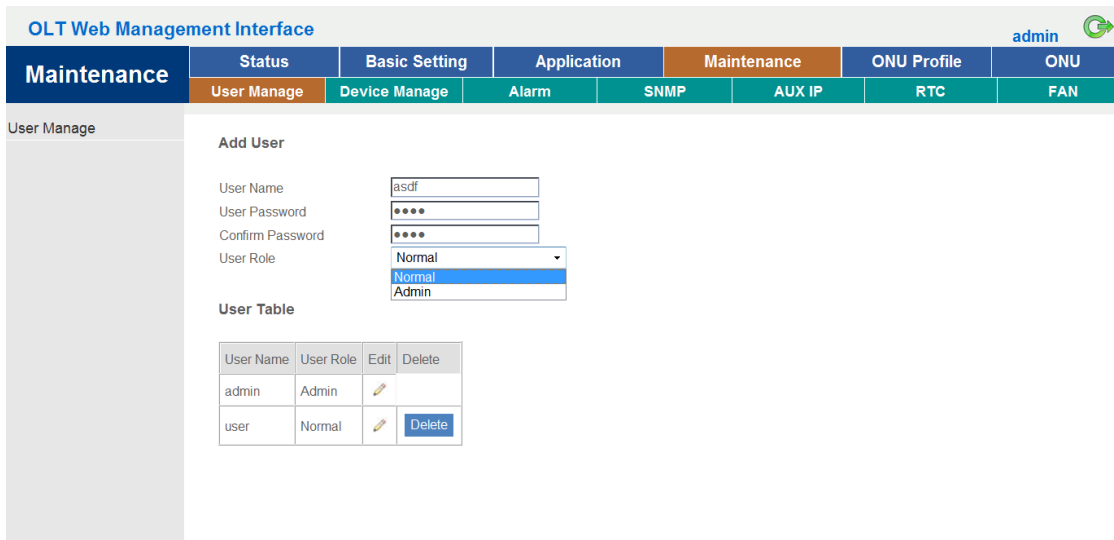


Figure5-1: User Manage

5.2 Device Manage

5.2.1 Firmware Upgrade

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

After finish upgrading, it will reboot automatically. Click

Maintenance→Device Manage to upgrade firmware.

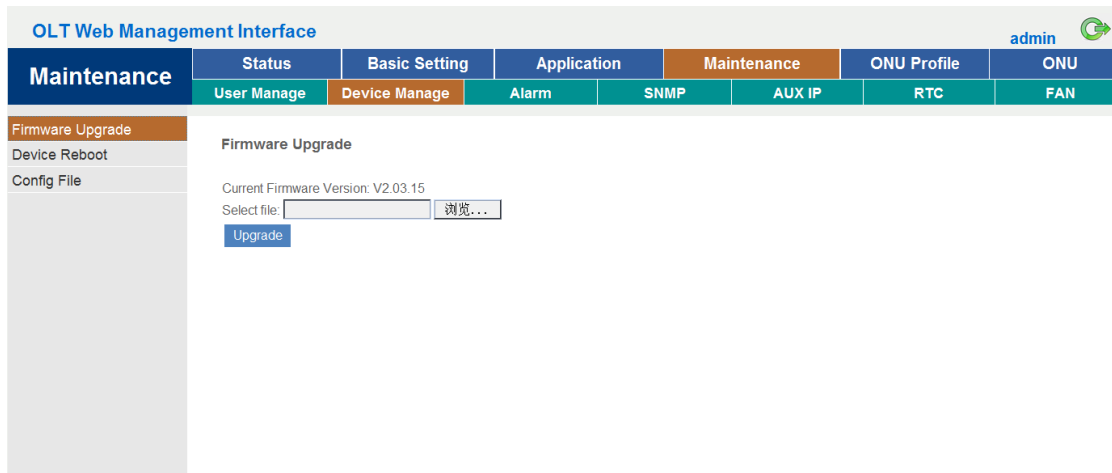


Figure5-2: Firmware Upgrade

5.2.2 Device Reboot

Click **Maintenance**→**Device Manage**→**Device Reboot**, it will reboot the entire system.(Please save the configuration first)

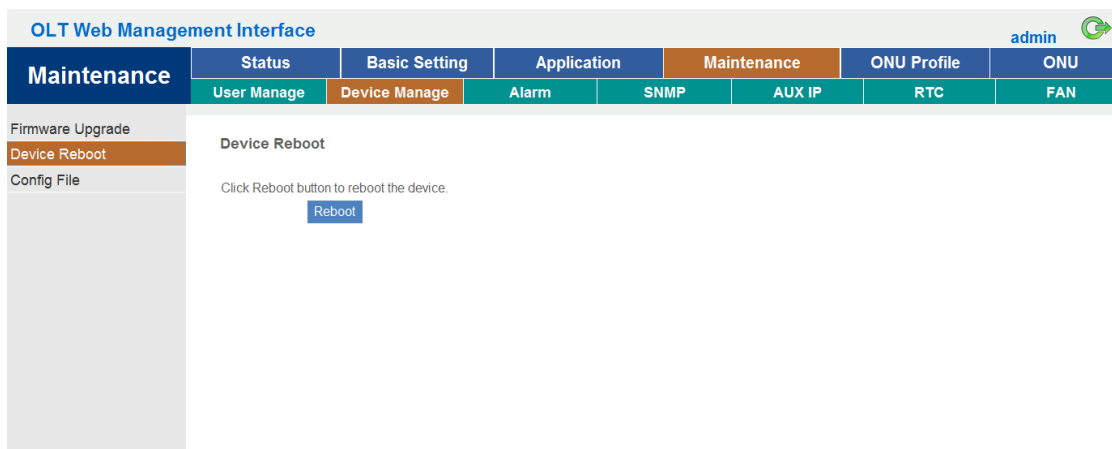


Figure5-3: Device Reboot

5.2.3 Config File

Click **Maintenance**→**Device Manage**→**Config File**, you can backup configuration, restore configuration, restore factory defaults and save configuration.

OLT Web Management Interface

admin

Maintenance

Status

User Manage

Device Manage

Alarm

SNMP

AUX IP

RTC

FAN

Basic Setting

Application

Maintenance

ONU Profile

ONU

Firmware Upgrade

Device Reboot

Config File

Backup Configuration

Backup Current Configuration

Download

Restore Configuration

All existing configuration will be overwritten, the device will reboot after restore is completed!

Select file:

浏览...

Restore Configuration

Factory Defaults

Click Restore to load the factory defaults. The device will reboot after restore is completed!

Restore Factory Defaults

Save Configuration

Figure5-4: Config File

5.3 Alarm

Show the alarm configuration list.

5.3.1 Alarm

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

OLT Web Management Interface

admin

Maintenance

Status

User Manage

Device Manage

Alarm

SNMP

AUX IP

RTC

FAN

Basic Setting

Application

Maintenance

ONU Profile

ONU

Alarm

Threshold Alarm

PON Optical Alarm

Syslog Server

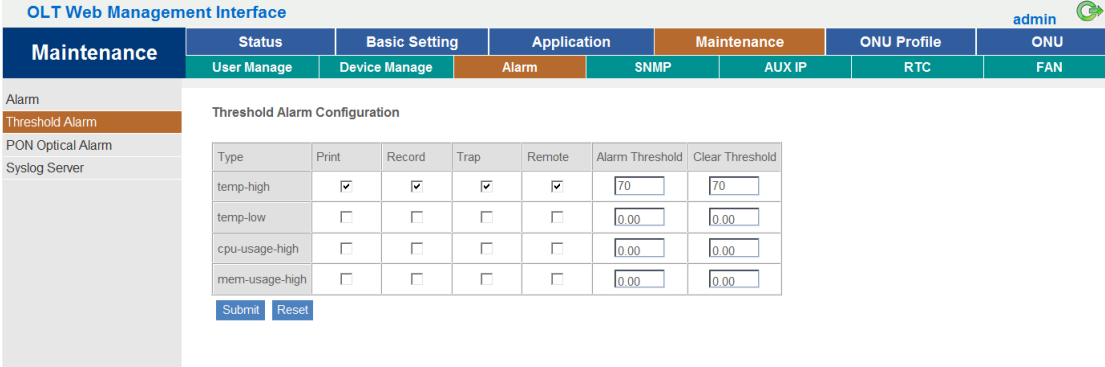
Alarm Configuration

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"/>

Figure5-5: Alarm configuration

5.3.2 Threshold Alarm

Configure the temperature threshold, CPU-usage threshold and memory- usage threshold.



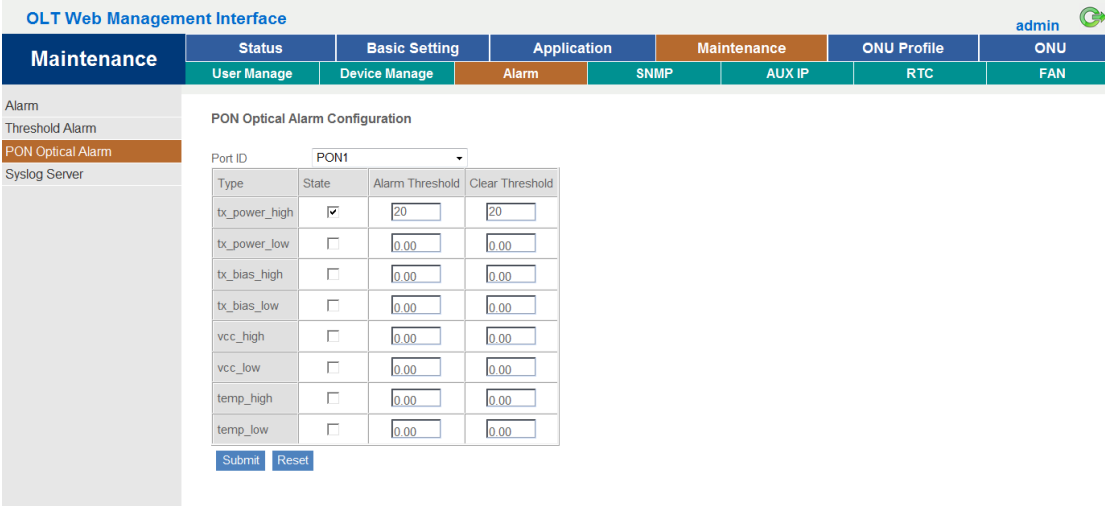
The screenshot shows the 'OLT Web Management Interface' with the 'Maintenance' tab selected. Under 'Maintenance', the 'Alarm' sub-tab is active. The 'Threshold Alarm Configuration' section contains a table with columns: Type, Print, Record, Trap, Remote, Alarm Threshold, and Clear Threshold. The 'temp-high' row has all checkboxes selected and thresholds set to 70. The other rows ('temp-low', 'cpu-usage-high', 'mem-usage-high') have all checkboxes unselected and thresholds set to 0.00. 'Submit' and 'Reset' buttons are at the bottom.

Type	Print	Record	Trap	Remote	Alarm Threshold	Clear Threshold
temp-high	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	70	70
temp-low	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.00	0.00
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

Figure5-6: Threshold Alarm

5.3.3 PON Optical Alarm

It is about the PON optical parameter threshold alarm configuration.




The screenshot shows the 'OLT Web Management Interface' with the 'Maintenance' tab selected. Under 'Maintenance', the 'PON Optical Alarm' sub-tab is active. The 'PON Optical Alarm Configuration' section shows 'Port ID' set to 'PON1'. Below is a table with columns: Type, State, Alarm Threshold, and Clear Threshold. The 'tx_power_high' row has the 'State' checkbox selected and thresholds set to 20. All other rows have 'State' checkboxes unselected and thresholds set to 0.00. 'Submit' and 'Reset' buttons are at the bottom.

Type	State	Alarm Threshold	Clear Threshold
tx_power_high	<input checked="" type="checkbox"/>	20	20
tx_power_low	<input type="checkbox"/>	0.00	0.00
tx_bias_high	<input type="checkbox"/>	0.00	0.00
tx_bias_low	<input type="checkbox"/>	0.00	0.00
vcc_high	<input type="checkbox"/>	0.00	0.00
vcc_low	<input type="checkbox"/>	0.00	0.00
temp_high	<input type="checkbox"/>	0.00	0.00
temp_low	<input type="checkbox"/>	0.00	0.00

Figure5-7: PON Threshold Alarm

5.3.4 Syslog Server

Configure the server of OLT remote system logs.

OLT Web Management Interface admin 

Maintenance	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC
				FAN		

Alarm
 Threshold Alarm
 PON Optical Alarm
Syslog Server

Syslog Server Configuration

Syslog Server

Enable ▾

Server IP

192.168.3.123

Server Port


514 (1-65535)

Figure5-8: Syslog Server Configuration

5.4 SNMP

5.4.1 SNMP V1/V2

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

OLT Web Management Interface admin 

Maintenance	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC
				FAN		

SNMPV1/V2
 SNMPV3
 SNMPV3 Trap

Access Right

Read-Only ▾

Community Table

Community Name	Access Right	Delete
public	Read-Only	<input type="button" value="Delete"/>
private	Read-Write	<input type="button" value="Delete"/>

Add Trap

Host IP

UDP Port

162 (1-65535)

Community Name

public

SNMP Version

1 ▾

Trap Table

Host IP	UDP Port	SNMP Version	Community Name	Delete
192.168.5.125	162	2c	adsl	<input type="button" value="Delete"/>
192.168.5.191	162	2c	adsl	<input type="button" value="Delete"/>

Figure5-9: SNMP V1/V2

5.4.2 SNMP V3

The EPON OLT also supports SNMP V3, as shown in Figure 5-10.

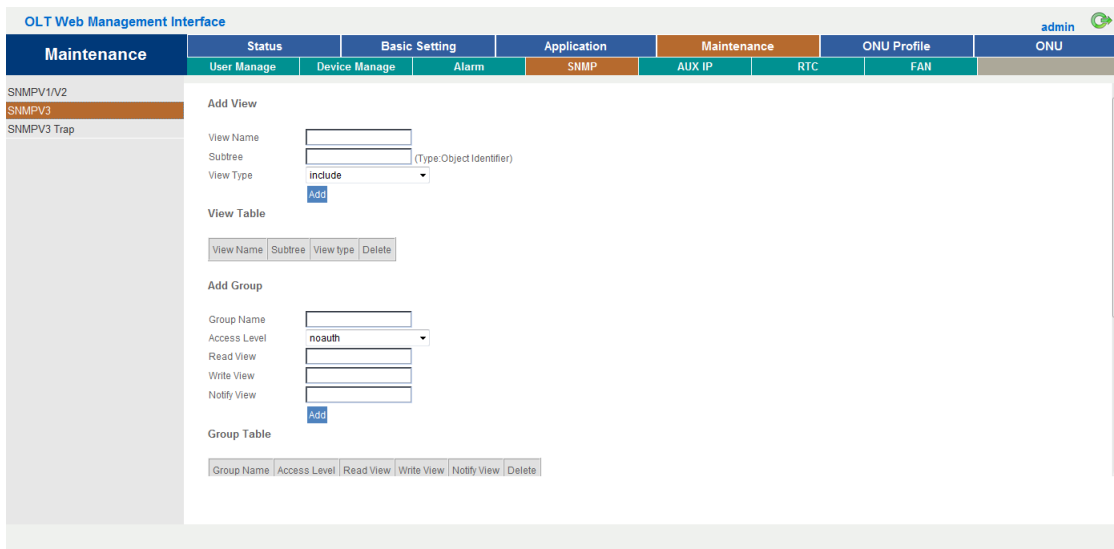


Figure5-10: SNMP V3

5.4.3 SMNP V3 Trap

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

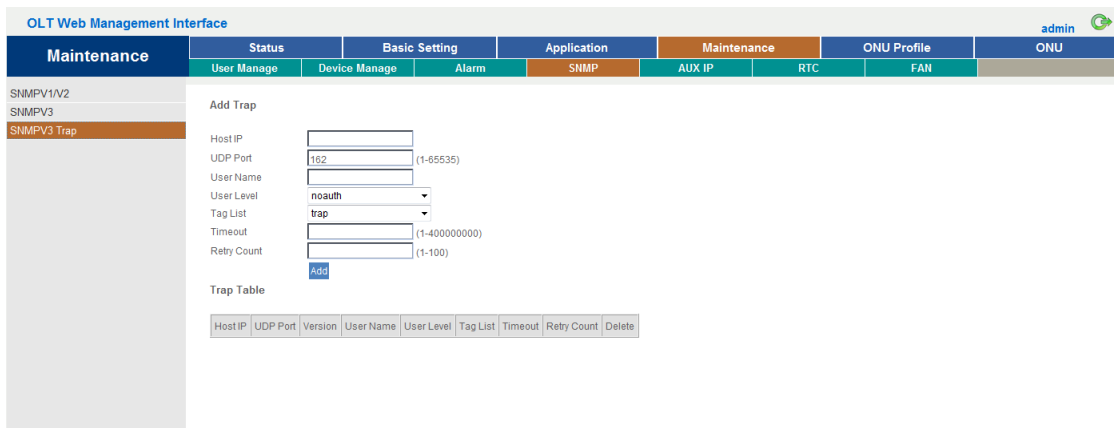


Figure5-11: SNMP V3 Trap

5.5 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.

The screenshot shows the 'OLT Web Management Interface' with a top navigation bar containing 'Status', 'Basic Setting', 'Application', 'Maintenance' (highlighted), 'ONU Profile', and 'ONU'. A secondary bar below it lists 'User Manage', 'Device Manage', 'Alarm', 'SNMP', 'AUX IP' (highlighted), 'RTC', 'FAN', and 'ONU'. The main content area is titled 'AUX IP Configuration' and contains three input fields: 'IP Address' with the value '192.168.5.5', 'Subnet Mask' with '255.255.255.0', and 'Gateway' with '0.0.0.0'. Below these fields are 'Submit' and 'Reset' buttons.

Figure5-12: AUX IP

5.6 RTC

Select Maintenance →RTC to set system time. The default system time is the OLT firmware release time.

The screenshot shows the 'OLT Web Management Interface' with the same top navigation bar as Figure 5-12. In the secondary bar, 'RTC' is highlighted. The main content area is titled 'Date Setting' and contains a date and time picker with fields for Year (2016), Month (7), Day (29), Hour (15), Minute (21), and Second (17). Below these fields are 'Submit' and 'Reset' buttons.

Figure5-13: RTC Configuration

5.7 FAN

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

OLT Web Management Interface

admin

Maintenance	Status	Basic Setting		Application	Maintenance		ONU Profile	ONU
	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN	

FAN

FAN Configuration

FAN Temperature

50

(20-80)

FAN Mode

Auto

Submit

Reset

Figure5-14: FAN Configuration

Chapter 6 ONU Profile

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

6.1 DBA Profile

The default system will have an id 0 DBA template, this template parameters cannot be modified. All ONU will be bound the template. When the user bind manually, the new template will take effect.

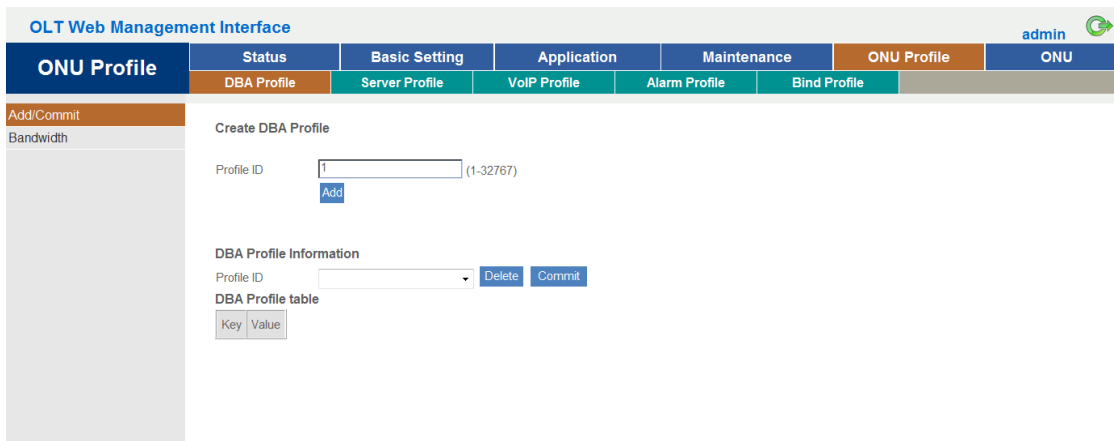


Figure6-1: Add a DBA Profile

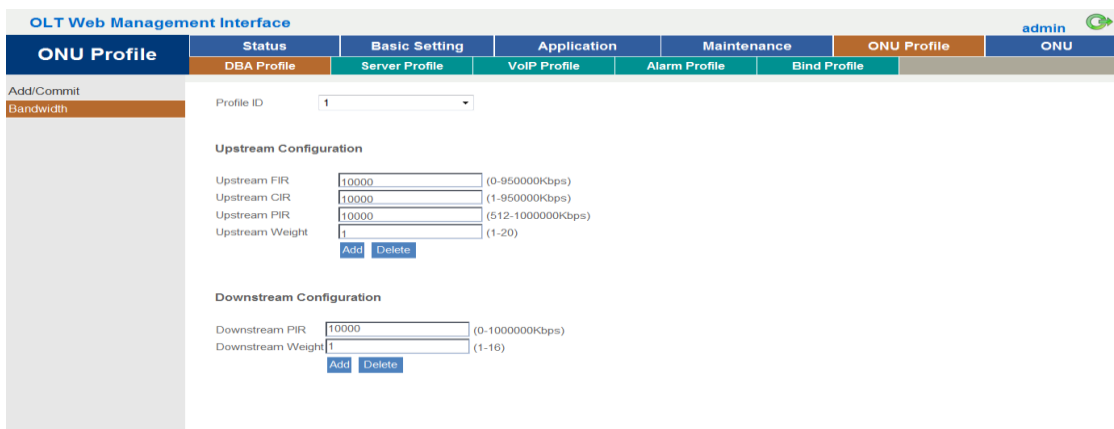


Figure6-2: DBA Profile Configure

6.2 Server Profile

Create a server profile, it can be shown in the table when user select the profile ID.

OLT Web Management Interfaceadmin

ONU Profile

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

DBA Profile

Server Profile

VoIP Profile

Alarm Profile

Bind Profile

Add/Commit

LAN Count

SNMP

LLID

FEC Mode

SLA

Multicast

MAC Age Time

Active PON

PON Setting

Port Basic

Port VLAN

Port Class

Multicast Port

Multicast VLAN

Monitor Status

Monitor Current

Create Service Profile

Profile ID

1

(1-32767)

Add

Service Profile Info

Profile ID

11

Delete

Commit

Service Profile Table

Key	Value
Multicast Logical Link Identifier	3
Lan Count	4
lan:1	Vlan mode translation, Default 111; tpid 10; Translation : 111 to 222;
lan:2	
lan:3	
lan:4	

Figure6-3: Add Server Profile

The server profile configuration contain ONU PON configuration, port configuration, multicast configuration, etc.

OLT Web Management Interfaceadmin

ONU Profile

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

DBA Profile

Server Profile

VoIP Profile

Alarm Profile

Bind Profile

Add/Commit

LAN Count

SNMP

LLID

FEC Mode

SLA

Multicast

MAC Age Time

Active PON

PON Setting

Port Basic

Port VLAN

Port Class

Multicast Port

Multicast VLAN

Monitor Status

Monitor Current

Service Profile Lan Count

Profile ID

1

Lan Count

2

(0-255)

Submit

Delete

Figure6-4: Server Profile Configuration

6.3 VoIP Profile

As the above, create a profile first, and it will be shown in the table when user select the profile ID.

OLT Web Management Interface

admin

ONU Profile

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

DBA Profile

Server Profile

VoIP Profile

Alarm Profile

Bind Profile

Add/Commit

POTS Count

Global

H.248 Global

H.248 POTS

SIP Global

SIP POTS

Fax Modem

Create VoIP Profile

Profile ID

0

(1-32767)

Add

VoIP Profile Info

Profile ID

1

▼

Delete

Submit

VoIP Profile Table

Key	Value
Profile_Id :	1
Pots_Count :	2
global_param	Voice IP Mode : staticip IAD IP Address : 192.168.3.56 IAD Net Mask : 255.255.255.0 IAD Default Gateway : 192.168.3.1 ppoe_username : ppoe_password : Voice Client VLAN : 100

Figure6-5: Add VoIP Profile

OLT Web Management Interface

admin

ONU Profile

Status

Basic Setting

Application

Maintenance

ONU Profile

ONU

DBA Profile

Server Profile

VoIP Profile

Alarm Profile

Bind Profile

Add/Commit

POTS Count

Global

H.248 Global

H.248 POTS

SIP Global

SIP POTS

Fax Modem

VoIP Profile Info

Profile ID

1

▼

Add VoIP Pots Count

Pots Count

2


(0-255)

Submit

Figure6-6: Server Profile Configuration

6.4 Alarm Profile

As the above, create a profile first, and it will be shown in the table when user select the profile ID.

OLT Web Management Interface admin 

ONU Profile	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Bind Profile	

Add/Commit
ONU
PON
PON Statistics
Port
Port Statistics
POTS
E1

Create Alarm Profile
Profile ID: (1-32767)
Add


Alarm Profile Info
Profile ID: commit delete

Alarm Profile Table

Key	Value

Figure6-7: Add Alarm Profile

The alarm profile contains ONU global threshold alarm, PON alarm, port alarm, pots alarm, etc.

OLT Web Management Interface admin 

ONU Profile	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Bind Profile	

Add/Commit
ONU
PON
PON Statistics
Port
Port Statistics
POTS
E1

Alarm Profile Info
Profile ID:

ONU Alarm System State
ONU Alarm Type:
Alarm State:
Commit Delete

ONU Temperature Alarm Threshold
Alarm Type:
Alarm State:
Alarm Threshold: (-1280..1280,units:0.1C)
Alarm Clear Threshold: (-1280..1280,units:0.1C)
Commit Delete

ONU VCC Alarm Threshold
ONU VCC Switch:
Alarm Threshold: (0..65535,units:0.1V)
Alarm Clear Threshold: (0..65535,units:0.1V)
Commit Delete

Figure6-8: Alarm Profile Configuration

6.5 Bind Profile

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

OLT Web Management Interface

admin

ONU Profile

StatusBasic SettingApplicationMaintenanceONU ProfileONU

DBA ProfileServer ProfileVoIP ProfileAlarm ProfileBind Profile

Bind Profile

Bind Profile

Profile Binding

Port ID

PON1

ONU ID

2

DBA Profile ID

1

SRV Profile ID

11

VoIP Profile ID

12

Alarm Profile ID

13

Commit

Figure6-9: Bind Profile Configuration

Chapter 7 ONU

This chapter is about configuring a single ONU by OLT.

7.1 Authentication

7.1.1 ONU authentication

There are 4 modes of the ONU authentication. The default mode is disable.

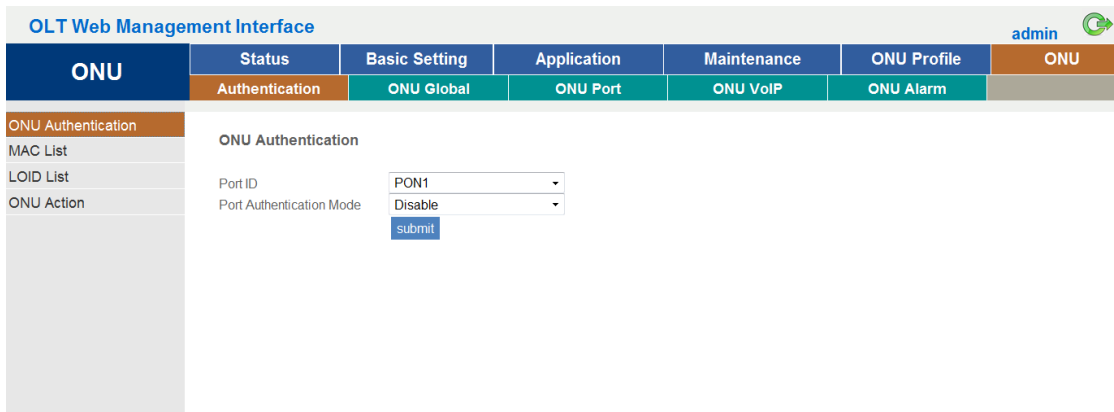


Figure7-1 ONU Authentication

7.1.2 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.

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	

ONU Authentication

MAC List

LOID List

ONU Action

ONU MAC Authentication

Port ID

PON1

MAC Authentication

00:00:01:00:11:25 (HH.HH.HH.HH.HH.HH)

Add

Black MAC Authentication

Add

ONU MAC Authentication Table

Index	MAC	Delete
Clear		

ONU Black MAC Authentication Table

Index	Black MAC	Delete
Clear		

Figure7-2 MAC List

7.1.3 LOID List

When the authentication mode is LOID, only the ONUs on the LOID list can register to the OLT.

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	

ONU Authentication

MAC List

LOID List

ONU Action

ONU LOID

Port ID

PON1

LOID

8014A81235

Password

1111

Add

ONU LOID Authentication Table

Index	LOID	Password	Delete
Clear			

Figure7-3LOID List

7.1.4 ONU Action

Manage the ONU unauth, deregister, reset. User can operate one of the

ONU, or a batch of ONUs in the same PON port.

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	

ONU Authentication

MAC List

LOID List

ONU Action

ONU Auth Action

Port ID

PON1

UnAuth All

Deregister All

Reset All

ONU ID	LLID	Status	MAC Address	Unauth	Deregister	Reset
1	58	Online	80:14:A8:20:B5:A0	UnAuth	Deregister	Reset
2	4	Online	80:14:A8:20:B4:88	UnAuth	Deregister	Reset
3	11	Online	80:14:A8:20:B4:D8	UnAuth	Deregister	Reset
4	17	Online	80:14:A8:20:B5:58	UnAuth	Deregister	Reset
5	6	Online	80:14:A8:20:B8:C0	UnAuth	Deregister	Reset
6	12	Online	80:14:A8:20:B4:98	UnAuth	Deregister	Reset
7	27	Online	80:14:A8:20:B4:D0	UnAuth	Deregister	Reset
8	19	Online	80:14:A8:20:B4:80	UnAuth	Deregister	Reset

Figure7-4 ONU Action

7.2 ONU Global

In this section, all the global configuration of ONU can be operated.

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	

Basic Info

Upstream/Downstream

Upgrade

Manage IP

SNMP

LLID

FEC Mode

SLA

Multicast

MAC Age Time

Active PON

PON Setting

Basic Information

Port ID

PON1

ONU ID

1

Optical Module Information

Temperature	60 C
Supply Voltage	3.27 V
Transmit BIAS	8 mA
Transmit Power	1.5609 mW (1.9338 dbm)
Receive Power	0.0871 mW (-10.5998 dbm)

ONU Basic Information

CTC Version	0x30
OUI	0x11 0x11 0x11
RTT	81
Vendor ID	0x565344c

Figure7-5 ONU Global Configuration

7.3 ONU Port

All the port services can be configured. It contains port VLAN, multicast, monitor and so on.

The screenshot displays the 'OLT Web Management Interface' with a top navigation bar containing 'ONU', 'Status', 'Basic Setting', 'Application', 'Maintenance', 'ONU Profile', and 'ONU'. The 'ONU' tab is active, and the 'ONU Port' sub-tab is selected. On the left, a sidebar lists 'Basic Info' and 'VLAN' (highlighted). The main content area is titled 'VLAN' and includes fields for 'PON ID' (PON1), 'ONU ID' (1), and 'ONU Port' (Port1). Below these is a 'VLAN Information' table with 'VLAN Mode' (Transparent), 'PVID Value' (0), and 'Port VLAN Value'. At the bottom, the 'VLAN Configuration' section shows 'VLAN Mode' (tag) and 'PVID Value' (100) with a range '(1-4095)', and a 'Commit' button.

Figure7-6 ONU Port Configuration

7.4 ONU VoIP

Configure the HGU ONU VoIP parameter, including H.248 protocol and SIP protocol configuration.

The screenshot displays the 'OLT Web Management Interface' with the 'ONU' tab active and the 'ONU VoIP' sub-tab selected. The left sidebar shows 'Basic Info' and 'Global' (highlighted). The main content area is titled 'ONU VoIP Global Configuration' and includes fields for 'PON ID' (PON1) and 'ONU ID' (61). Below these is a 'Global Parameter Config' section with 'Voice IP Mode' (DHCP), 'Tagged Flag' (Transparent), 'Voice Priority' (1), 'Voice Client VLAN' (100), and 'Voice Service VLAN' (100), each with a range '(0-7)' or '(0-4095)'. A 'Submit' button is at the bottom.

Figure7-7 ONU VoIP Configuration

7.5 ONU Alarm

In this page, user can view the chosen ONU alarm information, the alarm info contains ONU global alarm info, PON alarm info, port alarm info, POTS alarm info, E1 alarm info.

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	

ONU Alarm Info

PON Alarm Info

Port Alarm Info

POTS Alarm Info

E1 Alarm Info

ONU Alarm Information

Port ID

PON1

ONU ID

1

ONU Alarm

Alarm Type

Equipment Alarm

Alarm Name

equipment_alarm

Alarm Configuration

disable

Figure7-8 ONU Alarm Information

Chapter 8 Configuration Examples

8.1 Internet With VLAN 100

a. OLT configuration

Step 1: Create a new VLAN.

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

New VLAN

VLAN ID (1-4094)

Description

[Add](#)

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
960	vlan960		Delete
1000	vlan1000		Delete
1001	vlan1001		Delete
1010	vlan1010		Delete

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

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

New VLAN

Port VLAN

QinQ

VLAN IP

Port VLAN Configuration

VLAN ID

GE1 ☒ None ☐ Tag ☐ Untag

GE2 ☒ None ☐ Tag ☐ Untag

GE3 ☒ None ☐ Tag ☐ Untag

GE4 ☒ None ☐ Tag ☐ Untag

GE5 ☒ None ☐ Tag ☐ Untag

GE6 ☒ None ☐ Tag ☐ Untag

GE7 ☒ None ☐ Tag ☐ Untag

GE8 ☒ None ☐ Tag ☐ Untag

GE9 ☐ None ☐ Tag ☒ Untag

GE10 ☒ None ☐ Tag ☐ Untag

GE11 ☒ None ☐ Tag ☐ Untag

GE12 ☒ None ☐ Tag ☐ Untag

GE13 ☒ None ☐ Tag ☐ Untag

GE14 ☒ None ☐ Tag ☐ Untag

GE15 ☒ None ☐ Tag ☐ Untag

GE16 ☒ None ☐ Tag ☐ Untag

PON1 ☐ None ☒ Tag ☐ Untag

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

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
VLAN	Port	QoS	MAC	Security		

GE Setup
PON Setup
Channel Group
Mirroring

GE Configuration

Port ID: **GE9**

Description:

Admin Status: ☒ Enable ☐ Disable

Flow Control: ☐ On ☒ Off

Isolate: ☒ Enable ☐ Disable

Broadcast Storm Protection: (0/64-1000000pps)

Multicast Storm Protection: (0/64-1000000pps)

Unicast Storm Protection: (0/64-1000000pps)

Ingress Rate: (0/32-1000000kpps)

Egress Rate: (0/32-1000000kpps)

MAC Limit: (0-16384)

Default VLAN ID: **100**

GE Information

Port ID	Description	Admin Status	Flow Control	Isolate	Broadcast Storm	Multicast Storm	Unicast Storm	Ingress Rate	Egress Rate	MAC Limit	PVID
GE1		enable	off	enable	512	0	512	0	0	0	100
GE2		enable	off	enable	512	0	512	0	0	0	1
GE3		enable	off	enable	512	0	512	0	0	0	1
GE4		enable	off	enable	512	0	512	0	0	0	1
GE5		enable	off	enable	512	0	512	0	0	0	1

b. ONU configuration

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

OLT Web Management Interface admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm		

Basic Info
VLAN
Port Class
Multicast VLAN
Multicast Port
Monitor Status
Monitor Current

VLAN

PON ID: **PON1**

ONU ID: **1**

ONU Port: **Port1**

VLAN Information

VLAN Mode	Transparent
PVID Value	0
Port VLAN Value	

VLAN Configuration

VLAN Mode: **tag**

PVID Value: **100** (1-4095)

8.2 IPTV With VLAN 200

a. OLT configuration

Step 1: Create a new VLAN.

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

New VLAN

Port VLAN

QinQ

VLAN IP

New VLAN

VLAN ID (1-4094)

Description

Add

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
100	vlan100		
960	vlan960		
1000	vlan1000		
1001	vlan1001		
1010	vlan1010		

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

OLT Web Management Interface admin

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

New VLAN

Port VLAN

QinQ

VLAN IP

Port VLAN Configuration

VLAN ID

GE1 ☒ None ☐ Tag ☐ Untag

GE2 ☒ None ☐ Tag ☐ Untag

GE3 ☒ None ☐ Tag ☐ Untag

GE4 ☒ None ☐ Tag ☐ Untag

GE5 ☒ None ☐ Tag ☐ Untag

GE6 ☒ None ☐ Tag ☐ Untag

GE7 ☒ None ☐ Tag ☐ Untag

GE8 ☒ None ☐ Tag ☐ Untag

GE9 ☐ None ☒ Tag ☐ Untag

GE10 ☒ None ☐ Tag ☐ Untag

GE11 ☒ None ☐ Tag ☐ Untag

GE12 ☒ None ☐ Tag ☐ Untag

GE13 ☒ None ☐ Tag ☐ Untag

GE14 ☒ None ☐ Tag ☐ Untag

GE15 ☒ None ☐ Tag ☐ Untag

GE16 ☒ None ☐ Tag ☐ Untag

PON1 ☐ None ☒ Tag ☐ Untag

PON2 ☒ None ☐ Tag ☐ Untag

PON3 ☒ None ☐ Tag ☐ Untag

PON4 ☒ None ☐ Tag ☐ Untag

PON5 ☒ None ☐ Tag ☐ Untag

PON6 ☒ None ☐ Tag ☐ Untag

PON7 ☒ None ☐ Tag ☐ Untag

Step 3: Enable the IGMP status.

OLT Web Management Interface admin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

Global Setup
Port Setup
Port User VLAN
Port Mrouter
Static Group

IGMP Configuration

IGMP Status: Enable

Last Member Query Interval: 1 (1-255s)

Last Member Query Count: 2 (1-255)

Last Member Query Response: 1 (1-255s)

General Query Packet: Disable Enable

General Query Interval: 125 (10-255s)

Query Source IP: 1.1.1.1

Submit Reset

Step 4: Add the IGMP user VLAN and group VLAN

OLT Web Management Interface admin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

Global Setup
Port Setup
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

OLT Web Management Interface admin

Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	IGMP	RSTP	ARP Proxy	DHCP	Static Route	

Global Setup
Port Setup
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
---------	---------------	--------

b. ONU configuration

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

OLT Web Management Interface admin 

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	

Basic Info
VLAN
 Port Class
 Multicast VLAN
 Multicast Port
 Monitor Status
 Monitor Current

VLAN

PON ID:

ONU ID:

ONU Port:

VLAN Information


VLAN Mode	
PVID Value	0
Port VLAN Value	

VLAN Configuration

VLAN Mode:

PVID Value: (1-4095)

Step 7: Configuration multicast VLAN

OLT Web Management Interface admin 

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	ONU Private

Basic Info
 VLAN
 Port Class
Multicast VLAN
 Multicast Port
 Monitor Status
 Monitor Current

Multicast VLAN

PON ID:

ONU ID:


ONU Port:

Multicast VLAN Configuration

Multicast VLAN: (1-4095)

Multicast VLAN

Step 8: Configure the IGMP VLAN tagstrip mode

OLT Web Management Interface admin 

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	ONU Private

- Basic Info
- VLAN
- Port Class
- Multicast VLAN
- Multicast Port
- Monitor Status
- Monitor Current

Multicast Port

PON ID:

ONU ID:

ONU Port:

Multicast Max Group

Multicast Max Group: (0-4096)

Multicast Port Information

Tagstrip Mode	no strip
Tagstrip Value	


Multicast Port Configuration

Tagstrip Mode:

8.3 VoIP With VLAN 300

a. OLT Configuration

Step 1: Create a new VLAN

OLT Web Management Interface admin 

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QoS	MAC	Security	








- New VLAN
- Port VLAN
- QinQ
- VLAN IP

New VLAN


VLAN ID: (1-4094)

Description:

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
100	vlan100		<input type="button" value="Delete"/>
200	vlan200		<input type="button" value="Delete"/>
960	vlan960		<input type="button" value="Delete"/>
1000	vlan1000		<input type="button" value="Delete"/>
1001	vlan1001		<input type="button" value="Delete"/>
1010	vlan1010		<input type="button" value="Delete"/>

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

OLT Web Management Interface admin 

Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	VLAN	Port	QOS	MAC	Security	

New VLAN

Port VLAN

QinQ

VLAN IP


Port VLAN Configuration

VLAN ID 300

GE1	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE2	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE3	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE4	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE5	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE6	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE7	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE8	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE9	<input type="radio"/> None <input checked="" type="radio"/> Tag <input type="radio"/> Untag
GE10	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE11	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE12	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE13	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE14	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE15	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
GE16	<input checked="" type="radio"/> None <input type="radio"/> Tag <input type="radio"/> Untag
PON1	<input type="radio"/> None <input checked="" type="radio"/> Tag <input type="radio"/> Untag

b. ONU Configuration

Step 3: Configure the VoIP global parameter

OLT Web Management Interface admin 

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	ONU Private

Basic Info

Global

H248 Global

H248 POTS

SIP Global

SIP POTS

Fax Modem

IAD Oper

Choose ONU

PON ID PON5

ONU ID 9

Global Parameter Config

Voice IP Mode Static_IP

Tagged Flag Tag

Voice Priority 7 (0-7)

Voice Client VLAN 300 (0-4095)

Voice Service VLAN 300 (0-4095)

IAD IP Address 192.168.3.123 (x.x.x.x)

IAD Net Mask 255.255.255.0 (x.x.x.x)

IAD Default Gateway 192.168.3.1 (x.x.x.x)

Commit

Step 4: Setup the SIP configuration

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	ONU Private

Basic Info
Global
H248 Global
H248 POTS
SIP Global
SIP POTS
Fax Modem
IAD Oper

ONU ID

4

SIP Parameter Config

Heartbeat Switch

Enable

Heartbeat Cycle

30

(1-65535)

Heartbeat Count

1

(1-65535)

SIP Register Interval

0

(0-65535)

Manage Port

5060

(1-65535)

Out Bound Service IP

0.0.0.0

Out Bound Service Port

5060

(0-65535)

SIP Proxy Service IP

192.168.3.45

SIP Proxy Service Port

5060

(1-65535)

Backup SIP Proxy Service Ip

192.168.3.45

Backup SIP Proxy Service Port

5060

(1-65535)

SIP Register Service IP

192.168.3.45

SIP Register Service Port

5060

(1-65535)

Backup SIP Register Service IP

192.168.3.45

Backup SIP Register Service Port

5060

(0-65535)

Commit

Step 5: Fill in the user account and password

OLT Web Management Interface

admin

ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm	ONU Private

Basic Info
Global
H248 Global
H248 POTS
SIP Global
SIP POTS
Fax Modem
IAD Oper

Choose ONU

PON ID

PON5

ONU ID

5

ONU VoIP Port

Pots1

SIP User Parameter Config

User Account

12345678

User name

12345678

User Password

00000000

commit

Thank you!