



DG-GO420 Series GEPON OLT User Manual (Web Management)

V1.3

22-4-2019

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This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

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Chapter 1 System Description

1.1 OLT Introduction

EPON OLT provides various types of network interface, service interface and maintenance interface to adapt to different networking environments. All the interfaces could comply with the relevant telecommunications standards.

Table 1-1 lists of all OLT interface types.

Type	Interface	Remarks
PON Interface	PON Optical Interface	The point-to-multipoint architecture and the passive fiber transmission mode are used. The downstream rate and upstream rate can reach up to 1.25Gbps.
Uplink port interface	Support GE copper interface and optical interface	RJ45 connect the uplink port To Ethernet, or add optical model connecting the optical uplink port to Ethernet.
Maintenance interface	Console port AUX port	Console port is used for local maintenance. AUX port is used for remote maintenance.

1.2 Connection

Manage the OLT via WEB by connecting the OLT AUX port to Ethernet port of PC.

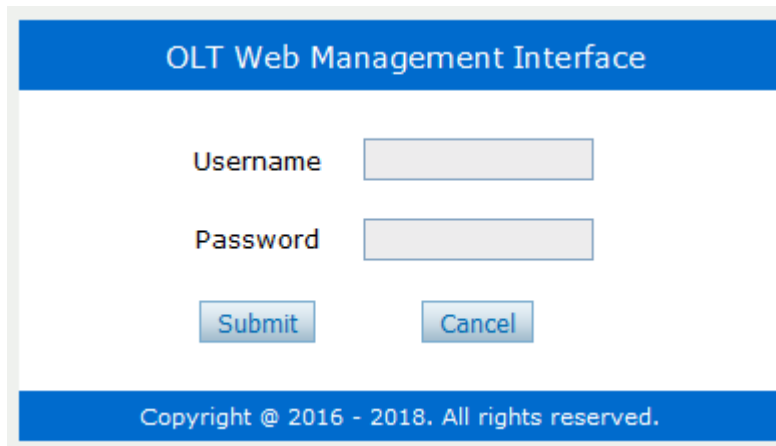
-- The OLT default IP is 192.168.8.100/24

-- Set your PC IP in range of 192.168.8.XXX (e.g. 192.168.8.123)

Chapter 2 OLT Information

2.1 LOGIN

- The OLT default IP is 192.168.8.100/24
- Set your PC IP in range of 192.168.8.XXX (e.g. 192.168.8.123)
- Username= admin, Password= admin



2.2 OLT Information

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

2.2.1 Device Information

It's about the OLT basic information and the real-time information.



Device Basic Information			
System Name	epon-olt	Serial Number	V1702140847
Hardware Version	four epon olt platform	Firmware Version	V2.03.26
MAC Address	80-14-A8-09-27-E5	Temperature	55°C
System Time	2002 / 9 / 16 0:27	Running Time	0 Days 1 Hours 0 Minutes 6 Seconds
CPU Usage	55%	Memory Usage	13%

page 0

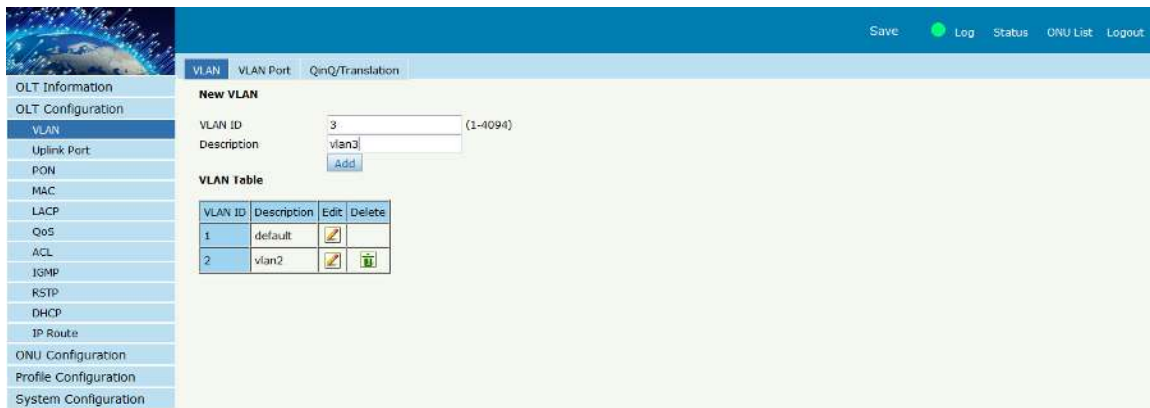
Chapter 3 OLT Configuration

This section allows you to configure the OLT.

3.1 VLAN

3.1.1 New VLAN

OLT network service is based on VLAN, create a new VLAN if necessary.



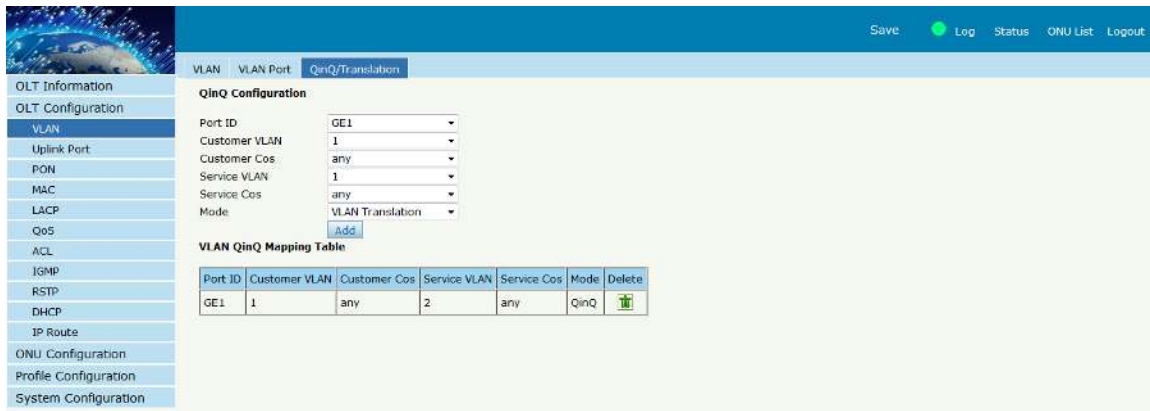
3.1.2 VLAN Port

Assign the VLAN to the port you want to connect. You can choose the VLAN mode tag or untag in this page.



3.1.3 Q-in-Q/Translation

Configure the port mode VLAN as translation or Q-in-Q.

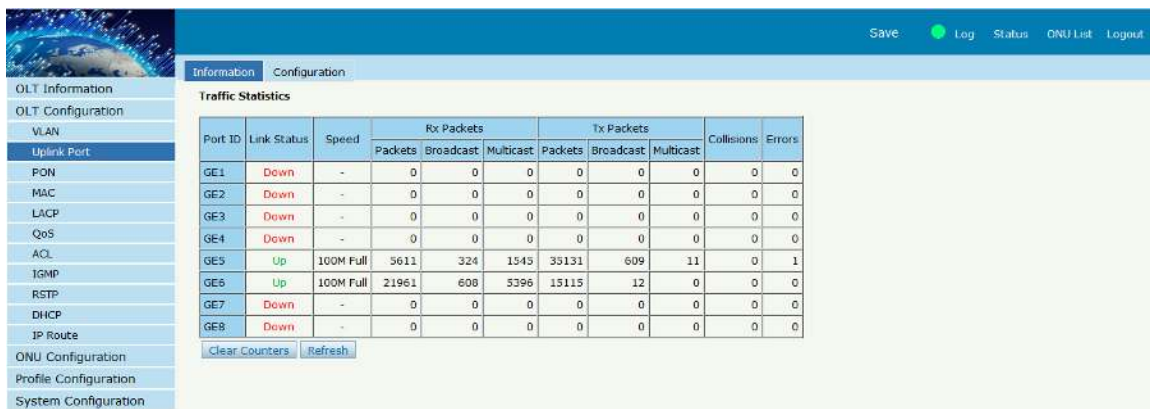


3.2 Uplink Port

View the OLT GE port information and configure the GE port.

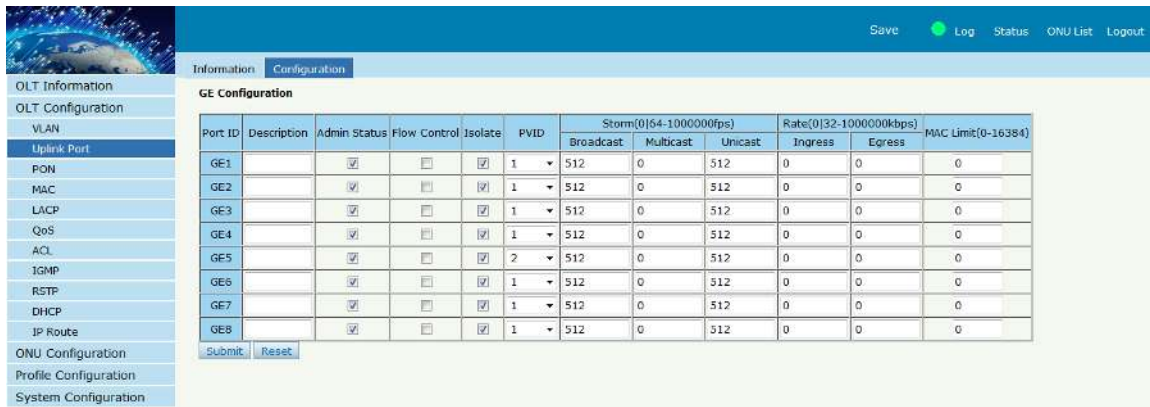
3.2.1 Information

It shows the GE ports link status, speed and packet statistics.



3.2.2 Configuration

Configure the GE ports basic service such as admin status, flow control, isolate, PVID.etc.



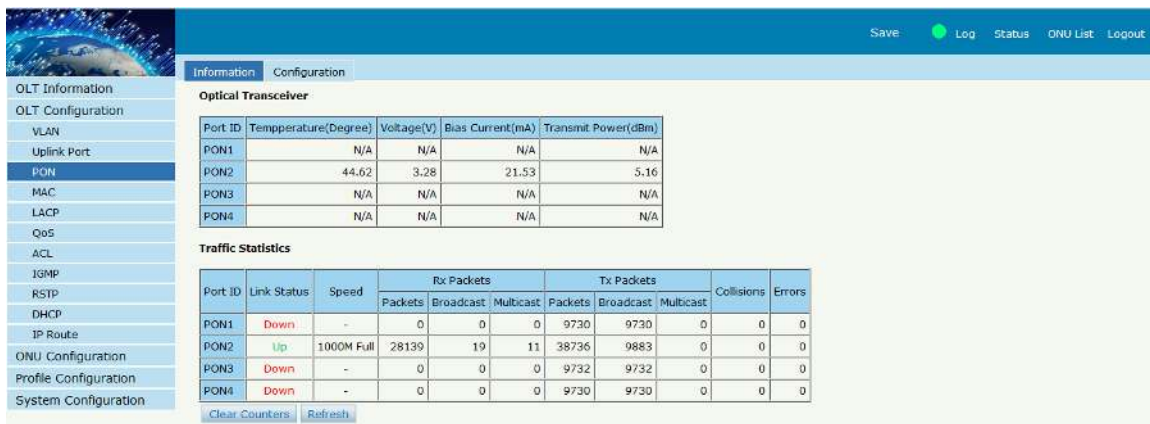
Port ID	Description	Admin Status	Flow Control	Isolate	PVID	Storm(0164-1000000pps)			Rate(0132-1000000kbps)		MAC Limit(0-16384)
						Broadcast	Multicast	Unicast	Ingress	Egress	
GE1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	512	0	512	0	0	0
GE2		<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"/>	2	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

3.3 PON

Shows the PON port information and configure the PON port.

3.3.1 Information

Shows the optical parameters of PON port and traffic statistics.

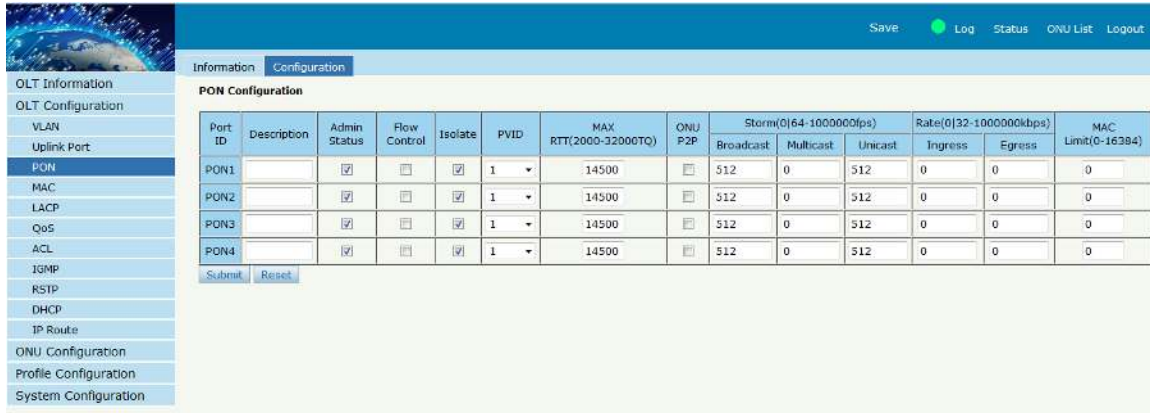


Port ID	Temperature(Degree)	Voltage(V)	Bias Current(mA)	Transmit Power(dBm)
PON1	N/A	N/A	N/A	N/A
PON2	44.62	3.28	21.53	5.16
PON3	N/A	N/A	N/A	N/A
PON4	N/A	N/A	N/A	N/A

Port ID	Link Status	Speed	Rx Packets			Tx Packets			Collisions	Errors
			Packets	Broadcast	Multicast	Packets	Broadcast	Multicast		
PON1	Down	-	0	0	0	9730	9730	0	0	0
PON2	Up	1000M Full	28139	19	11	38736	9883	0	0	0
PON3	Down	-	0	0	0	9732	9732	0	0	0
PON4	Down	-	0	0	0	9730	9730	0	0	0

3.3.2 Configuration

Configure the PON ports basic service such as admin status, flow control, isolate, PVID.etc.



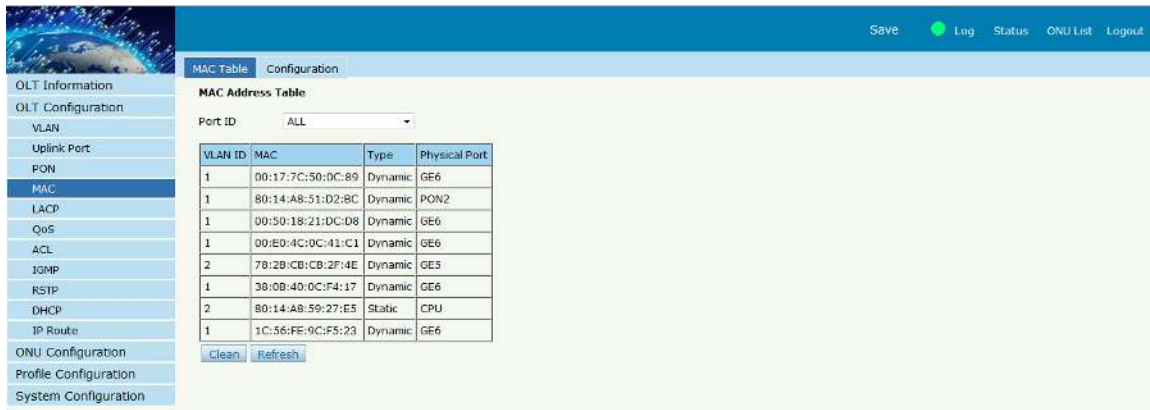
Port ID	Description	Admin Status	Flow Control	Isolate	PVID	MAX RTT(2000-32000TQ)	ONU P2P	Storm(0[64-1000000]ps)			Rate(0[32-1000000]kbps)		MAC Limit(0-16384)
								Broadcast	Multicast	Unicast	Ingress	Egress	
PON1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	14500	<input type="checkbox"/>	512	0	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

3.4 MAC

Used to display and configure the MAC address table.

3.4.1 MAC Table

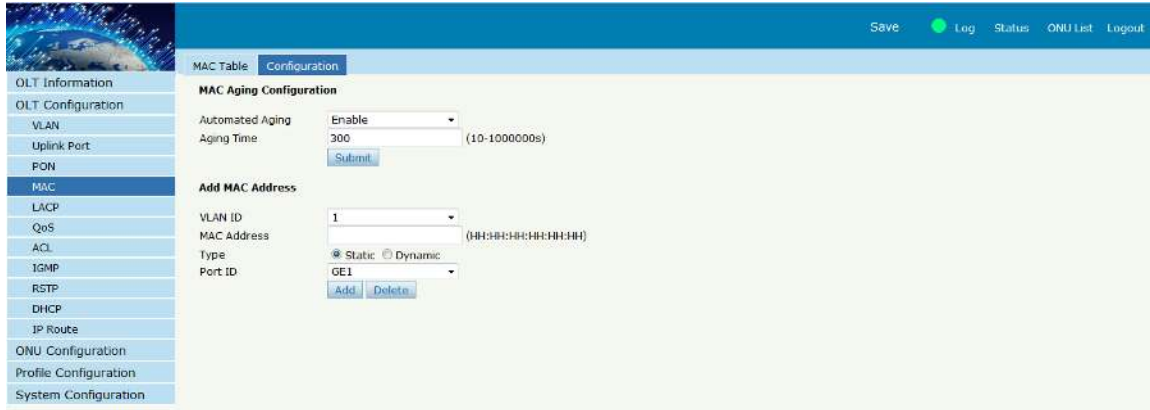
MAC Info is to show the learning MAC address of OLT. All the MAC addresses of all the ports with VLAN can be shown.



VLAN ID	MAC	Type	Physical Port
1	00:17:7C:50:0C:89	Dynamic	GE6
1	80:14:AB:51:D2:8C	Dynamic	PON2
1	00:50:18:21:DC:D8	Dynamic	GE6
1	00:E0:4C:0C:41:C1	Dynamic	GE6
2	78:2B:CB:CB:2F:4E	Dynamic	GE5
1	38:08:4D:0C:F4:17	Dynamic	GE6
2	80:14:AB:59:27:E5	Static	CPU
1	1C:56:FE:9C:F5:23	Dynamic	GE6

3.4.2 Configuration

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

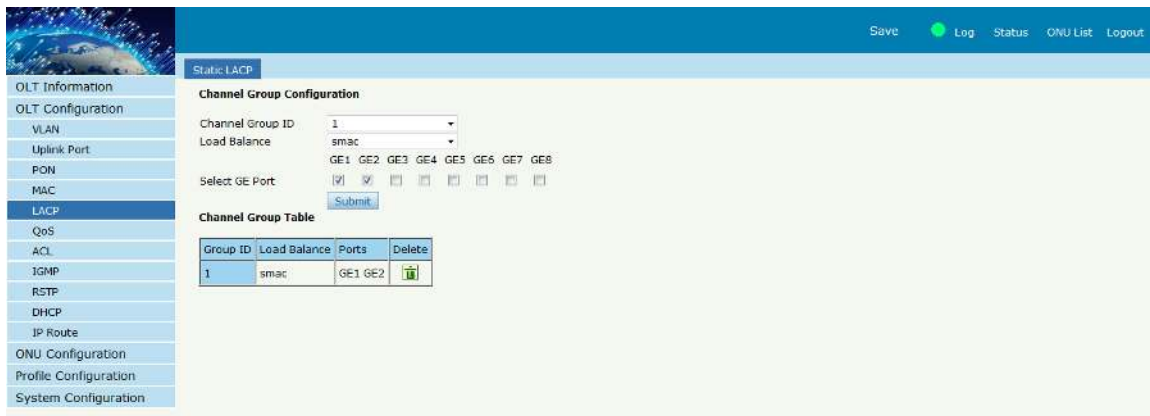


3.5 LACP

Configure Link Aggregation.

3.5.1 Static LACP

4 groups can be created at most. Each group can add 4 ports at most. Only GE ports can be added in the channel groups.

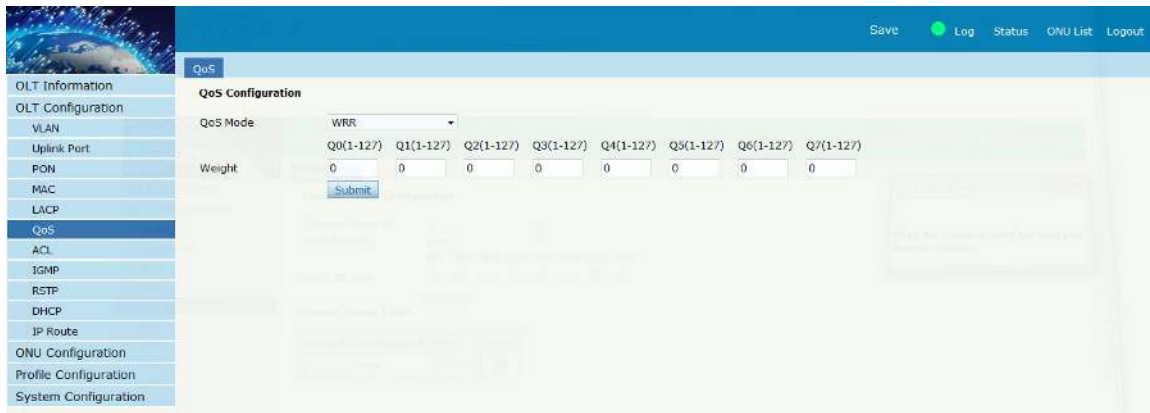


3.6 QoS

Configure the Quality of Service parameters.

3.6.1 QoS

It can support 3 modes: strict, WRR and strict-WRR.

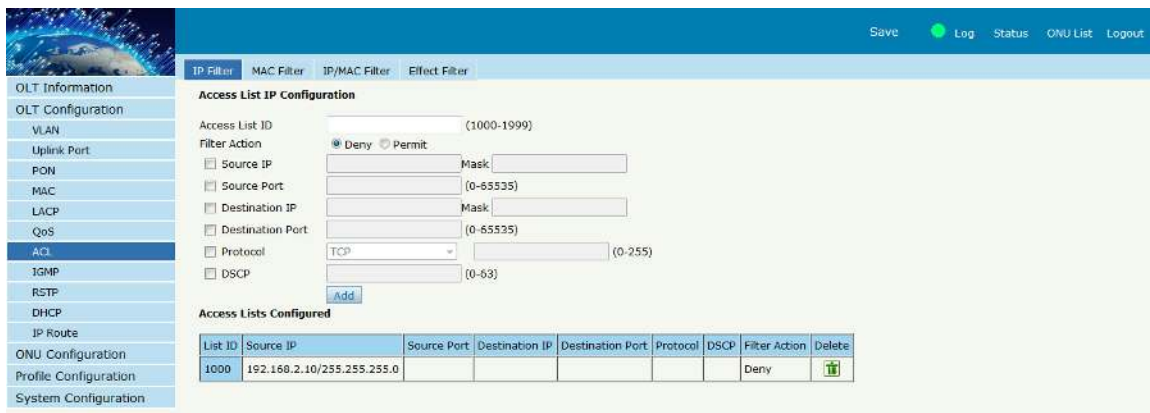


3.7 ACL

This part is about security of OLT. Configuring the Access List.

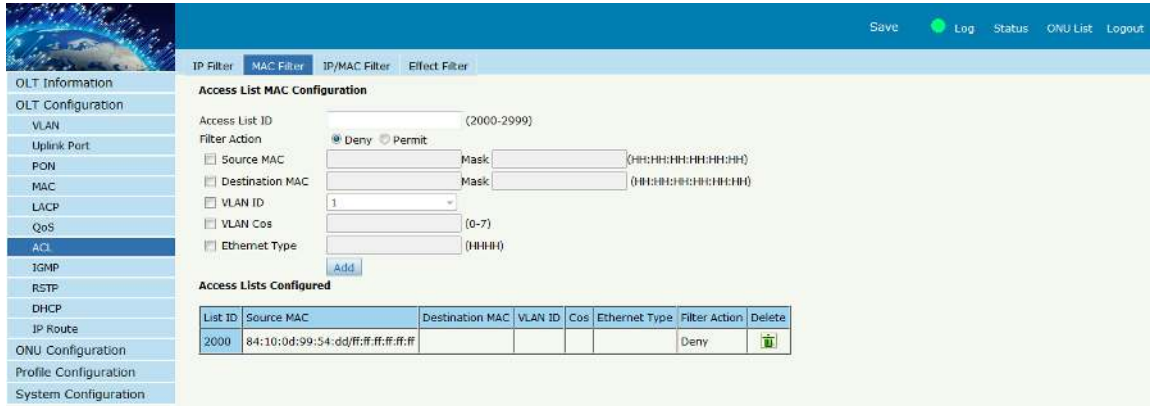
3.7.1 IP Filter

It can filter the packets depending upon IP address.



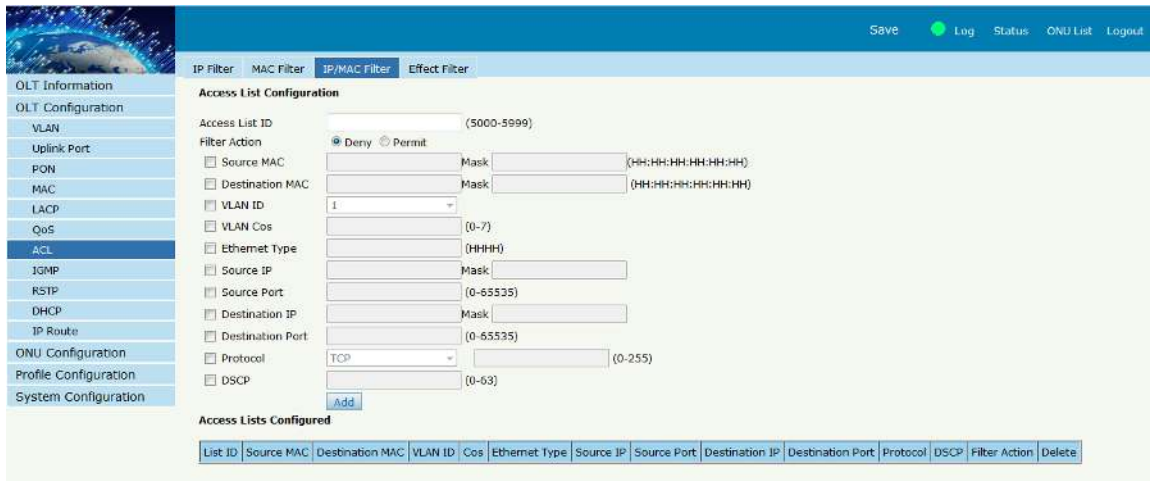
3.7.2 MAC Filter

It can filter the packets depending upon MAC addresses.



3.7.3 IP/MAC Filter

Create extended access list. Can filter packets based on IP, MAC, protocol, etc.



3.7.4 Effect Filter

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



3.8 IGMP

Configure the multicasting parameters.

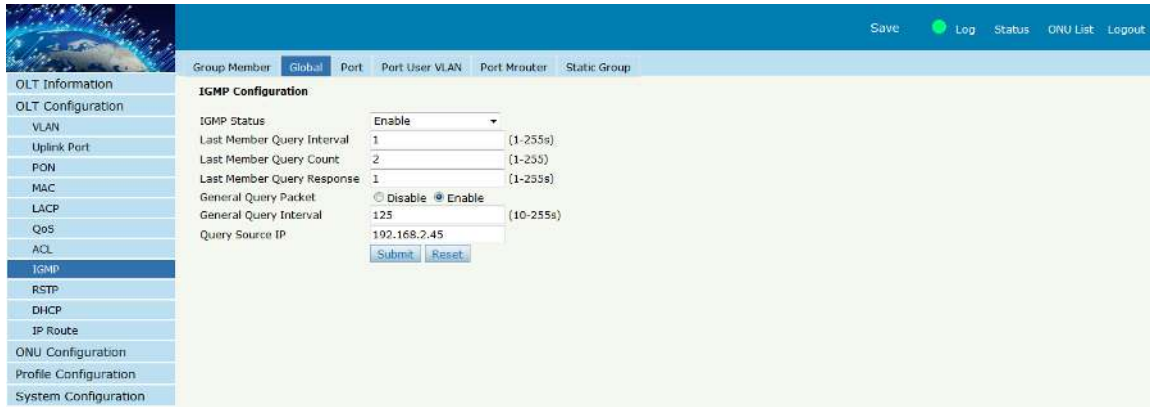
3.8.1 Group Member

Shows the status of active IGMP groups.



3.8.2 Global

Enable/Disable the IGMP snooping mode.



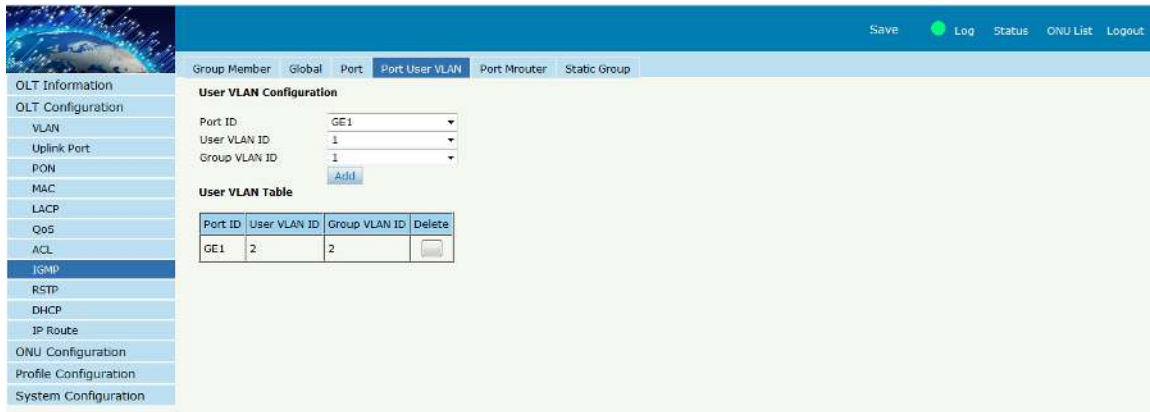
3.8.3 Port

IGMP port configuration is about the max groups number, port fast leave status and filter status.



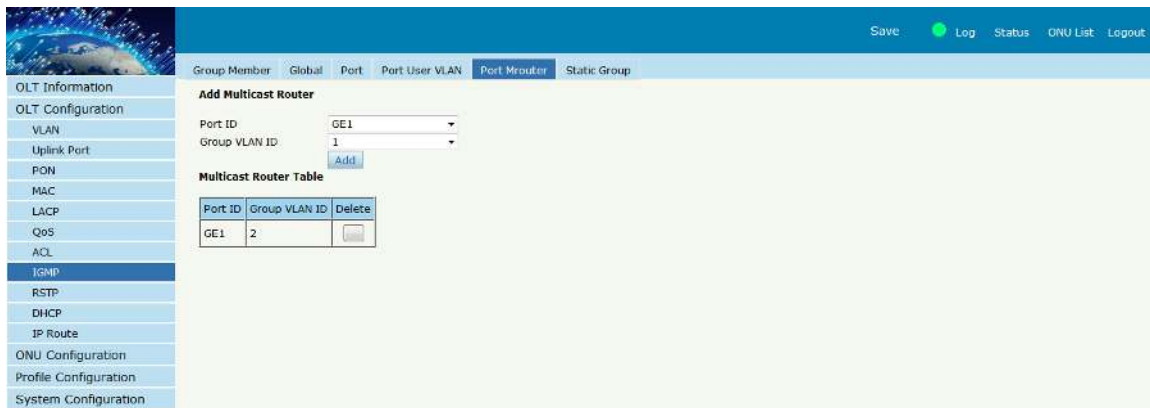
3.8.4 Port User VLAN

IGMP VLAN. Configure the user VLAN and group VLAN.



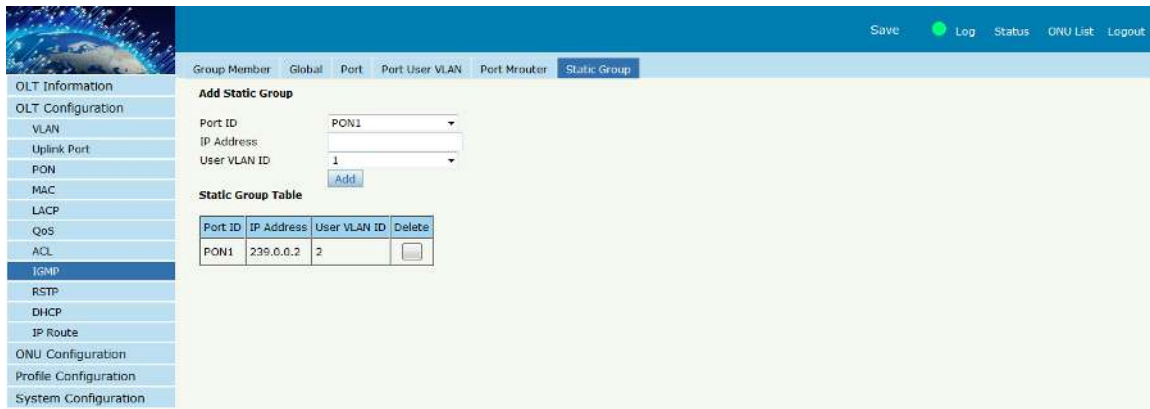
3.8.5 Port Mrouter

Add a port as the IGMP mrouter port.



3.8.6 Static Group

Add an IGMP group manually. We always choose the PON port as the group port.



3.9 RSTP

Configure the Rapid Spanning Tree.

3.9.1 Information

The OLT is disabling RSTP by default. When enable the RSTP, the RSTP global information shows the details of root bridge and RSTP port status.



3.9.2 Global

Configure the bridge priority and timers.



3.9.3 Port

Set the RSTP port parameters.



3.10 DHCP

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

3.10.1 DHCP Server

If the OLT enable DHCP server, the connecting devices will obtain an IP address.

3.10.1.1 Lease

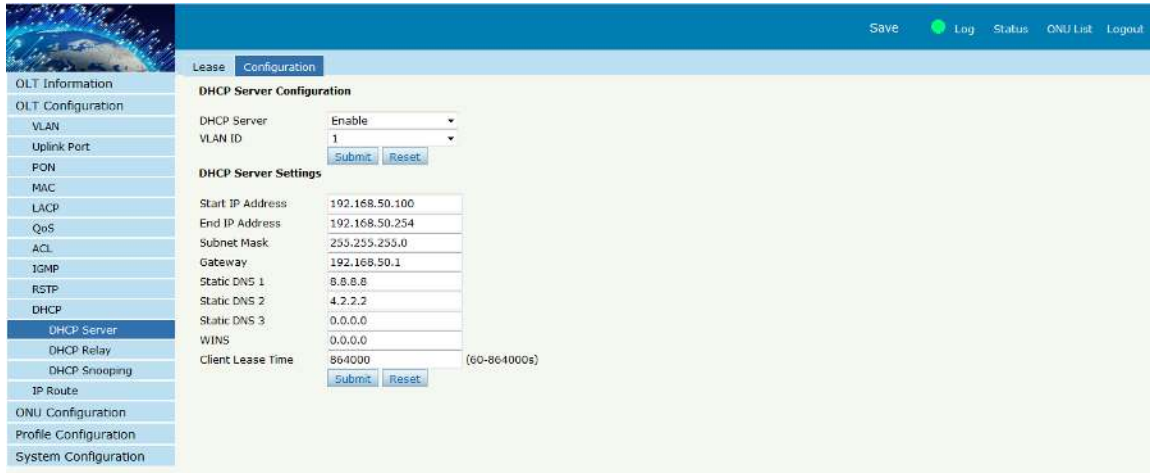
Shows the DHCP server lease details.



IP Address	MAC address	Expires Time
192.168.50.100	00:14:A8:56:A3:25	863993
192.168.50.101	00:14:A8:51:D2:BC	863993

3.10.1.2 Configuration

Set the DHCP server details.



3.10.2 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.

3.10.2.1 Configuration

Add the Relay Server IP address.



3.10.3 DHCP Snooping

To prevent the DHCP message attacking and protect your network and to get a useful IP address, use dhcp snooping, it can deny the DHCP offer packets.

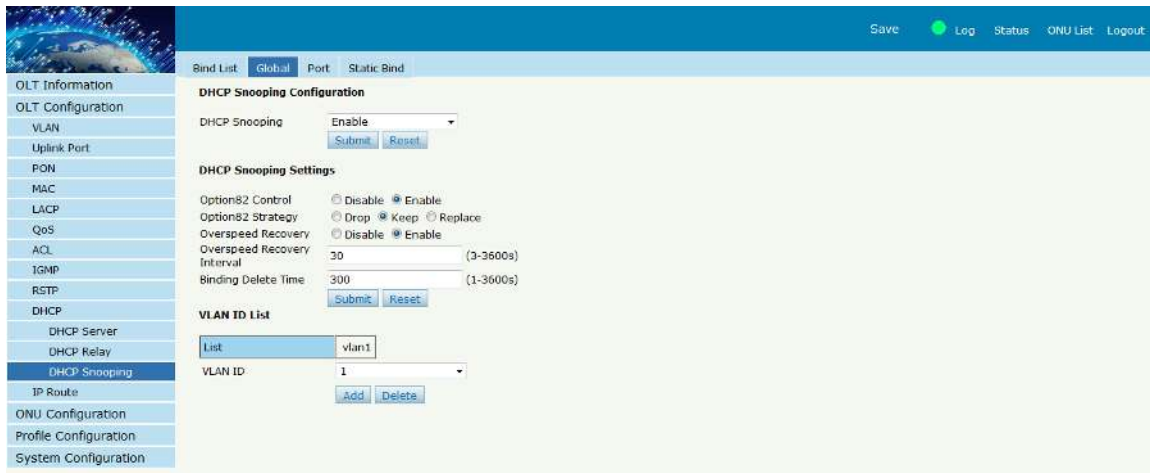
3.10.3.1 Bind List

It shows the DHCP snooping binding table.



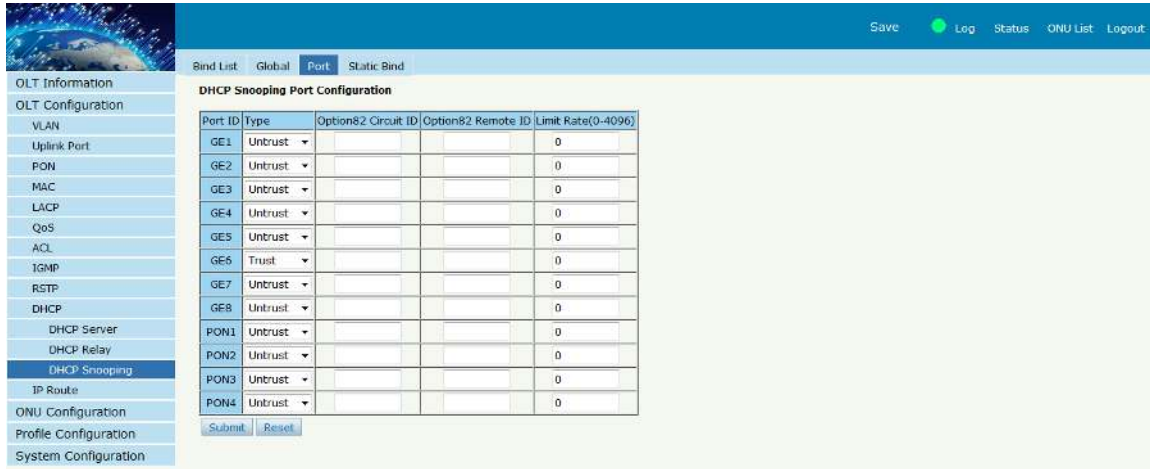
3.10.3.2 Global

Enable/Disable the DHCP snooping and set the parameters for DHCP option82 if required.



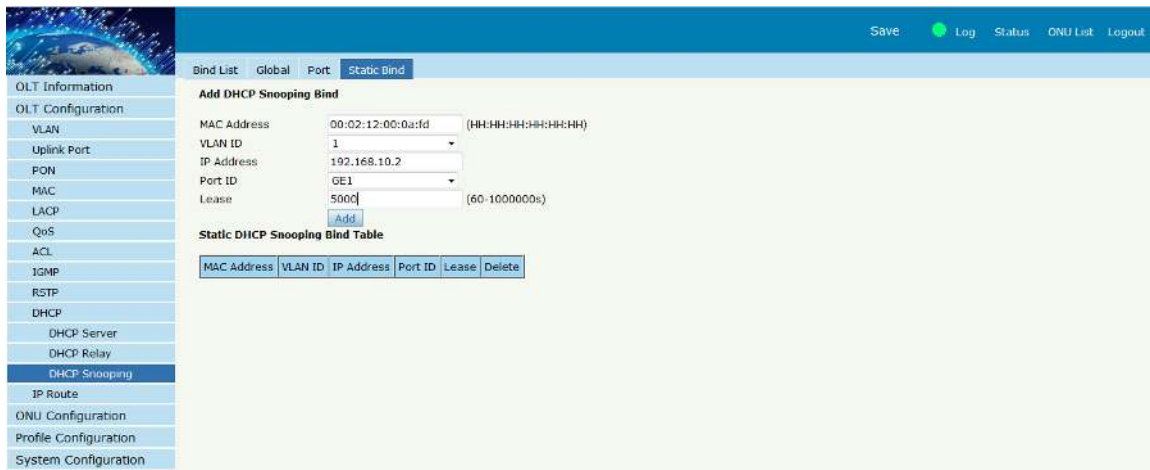
3.10.3.3 Port

Mark the ports as trusted and untrusted. Ports are untrusted by default.



3.10.3.4 Static Bind

Add a static entry in DHCP snooping binding table.

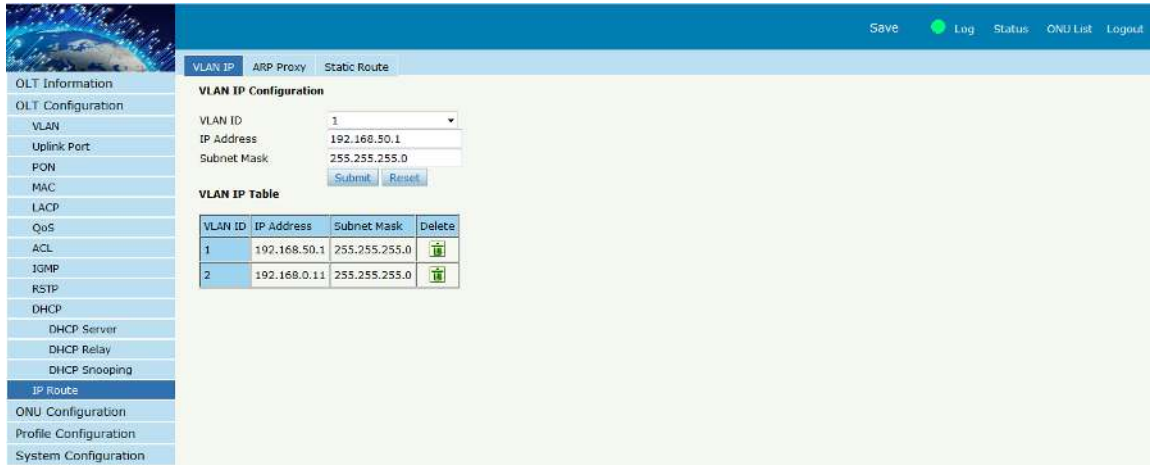


3.11 IP route

OLT supports L3 functions.

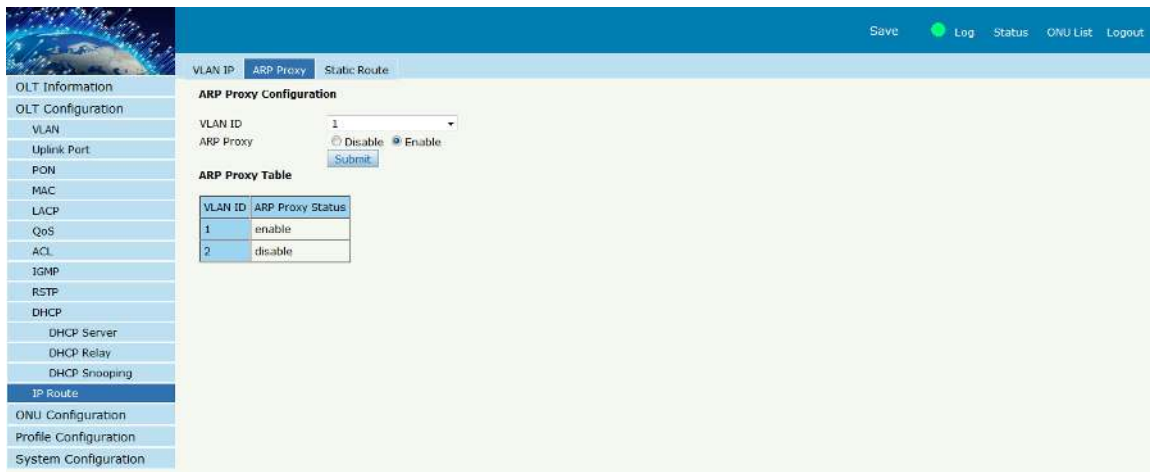
3.11.1 VLAN IP

Set the IP address to the VLAN.



3.11.2 ARP Proxy

As OLT supports L3 Function, it can help the different subnet ARP access. First set the IP address to the particular VLAN



3.11.3 Static Route

Enter the static route.



Chapter 4 ONU Configuration

This section allows you to configure and manage the ONU from OLT.

4.1 ONU List

Provides ONU details.

4.1.1 ONU List

Provides authentication information of ONU, and the ONU can also be configured and manage from here. Click on config to configure the ONU. Reset or Deregister ONU.

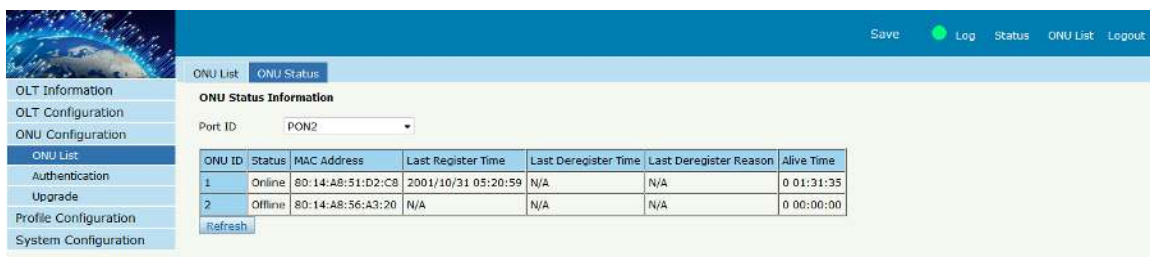


The screenshot shows the 'ONU Authentication Information' page in the OLT management interface. It includes a sidebar with navigation options like 'OLT Information', 'ONU Configuration', and 'ONU List'. The main content area has tabs for 'ONU List' and 'ONU Status'. Below the tabs, there are dropdown menus for 'Port ID' (set to PON2) and 'ONU Type' (set to Authentication). There are also links for 'Deregister All', 'Reset All', and 'UnAuth All'. A table lists two ONUs with columns for ID, Status, MAC Address, Description, RTT, Type, Auth Flag, Exchange, Auth Mode, Loid/pwd, and Action. A 'Refresh' button is located at the bottom left of the table area.

ONU ID	Status	MAC Address	Description	RTT	Type	Auth Flag	Exchange	Auth Mode	Loid/pwd	Action
1	Online	80:14:A8:51:D2:C8	N/A	53	4GE+2POTS+4WIFI	Auth	Idle	None	N/A	Config Profile Deregister Reset Unauth
2	Offline	80:14:A8:56:A3:20	N/A	0	N/A	Unauth	Idle	None	N/A	Profile Unauth

4.1.2 ONU Status

Provides status information of ONU such as last register time and alive time.



The screenshot shows the 'ONU Status Information' page in the OLT management interface. It features a sidebar with navigation options. The main content area has tabs for 'ONU List' and 'ONU Status'. Below the tabs, there is a 'Port ID' dropdown menu set to 'PON2'. A table displays status information for two ONUs, with columns for ID, Status, MAC Address, Last Register Time, Last Deregister Time, Last Deregister Reason, and Alive Time. A 'Refresh' button is located at the bottom left of the table area.

ONU ID	Status	MAC Address	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
1	Online	80:14:A8:51:D2:C8	2001/10/31 05:20:59	N/A	N/A	0 01:31:35
2	Offline	80:14:A8:56:A3:20	N/A	N/A	N/A	0 00:00:00

4.2 Authentication

Configure the authentication parameters for ONU.

4.2.1 Authentication mode

Set the authentication mode for ONU. There are 4 modes of ONU authentication. Disable/MAC/LOID/Hybrid.



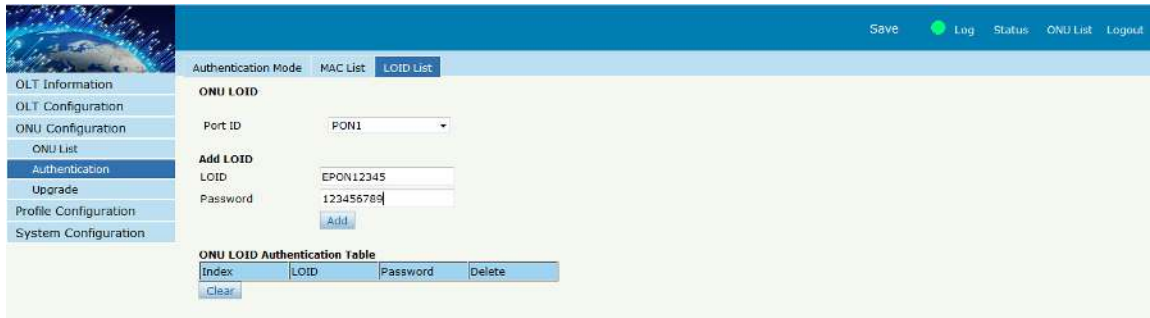
4.2.2 MAC List

When the ONU authentication mode is MAC mode, only the white list ONU can register. The black MAC list ONU cannot register whatever the mode.



4.2.3 LOID List

When the authentication mode is Loid, only the Loid list ONU can register. Every ONU must have a unique LOID.



4.3 Upgrade

Upgrade the ONU from OLT.

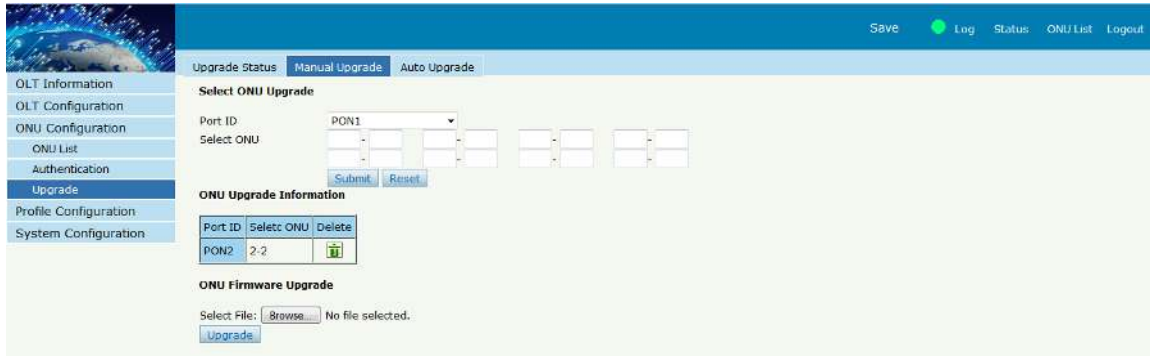
4.3.1 Upgrade Status

Shows the ONU upgrade status.



4.3.2 Manual Upgrade

Upgrade the ONU from OLT. Enter the ONU ID of the ONU and click on submit and then browse the appropriate file and click on upgrade.



4.3.3 Auto Upgrade

For auto upgrade enter the vendor ID and model no. and then upgrade the ONU.



Chapter 5 Profile Configuration

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

5.1 DBA Profile

Dynamic Bandwidth Algorithm. 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 by hands, the new template will take effect.

5.1.1 Add/Commit

Create profile ID for DBA.



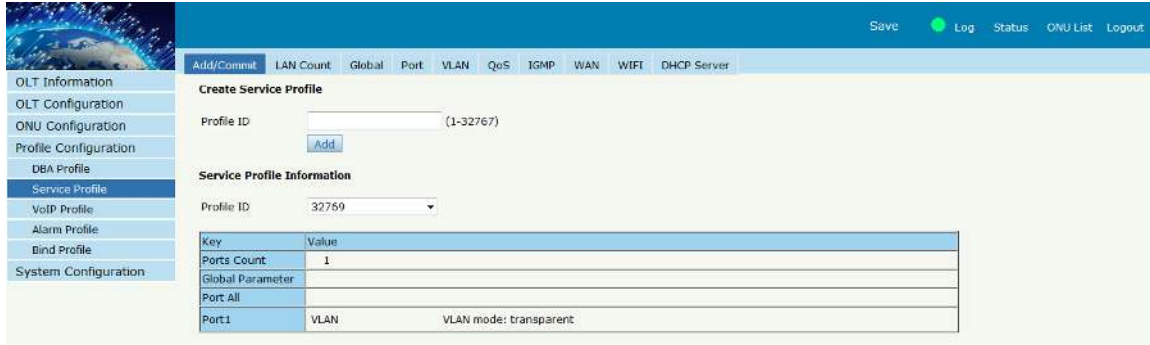
5.1.2 Bandwidth

Set the bandwidth parameters in upstream and downstream direction.



5.2 Service Profile

Create a server profile, it can be shown in the table when user select the profile ID. The server profile configuration contain ONU PON configuration, port configuration, multicast configuration...



5.3 VOIP Profile

As the above, create a profile first, and it will be shown in the table when user select the profile ID. The VOIP profile configuration contain ONU VOIP and SIP configuration.



5.4 Alarm Profile

As the above, create a profile first, and it will be shown in the table when user select the profile ID. The alarm profile contains ONU global threshold alarm, PON alarm, port alarm, pots alarm.

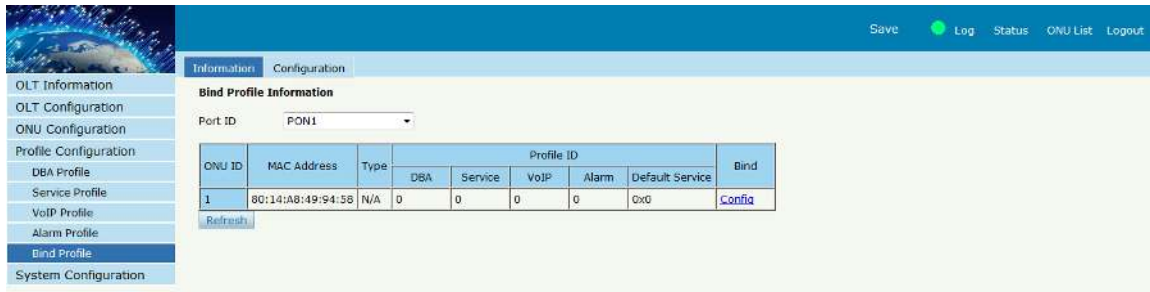


5.5 Bind Profile

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

5.5.1 Information

Gives the details of binded profile.



Save Log Status ONU List Logout

Information Configuration

Bind Profile Information

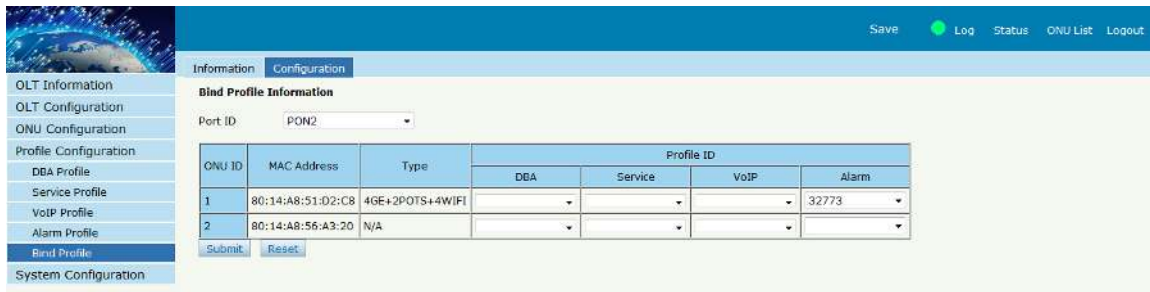
Port ID: PON1

ONU ID	MAC Address	Type	Profile ID				Bind
			DBA	Service	VoIP	Alarm	
1	80:14:A8:49:94:58	N/A	0	0	0	0x0	Config

[Refresh](#)

5.5.2 Configuration

Bind the profile to the required ONU.



Save Log Status ONU List Logout

Information Configuration

Bind Profile Information

Port ID: PON2

ONU ID	MAC Address	Type	Profile ID			
			DBA	Service	VoIP	Alarm
1	80:14:A8:51:D2:C8	4GE+2POTS+4WIFI				32773
2	80:14:A8:56:A3:20	N/A				

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

Chapter 6 System Configuration

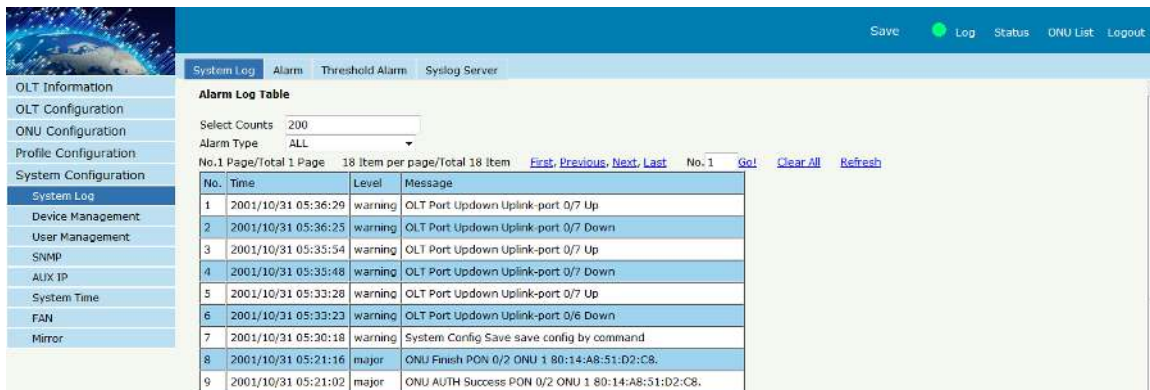
This chapter is about the global management of OLT.

6.1 System Log

Show the alarm configuration list.

6.1.1 System Log

Shows the system logs generated.



No.	Time	Level	Message
1	2001/10/31 05:36:29	warning	OLT Port Updown Uplink-port 0/7 Up
2	2001/10/31 05:36:25	warning	OLT Port Updown Uplink-port 0/7 Down
3	2001/10/31 05:35:54	warning	OLT Port Updown Uplink-port 0/7 Up
4	2001/10/31 05:35:48	warning	OLT Port Updown Uplink-port 0/7 Down
5	2001/10/31 05:33:28	warning	OLT Port Updown Uplink-port 0/7 Up
6	2001/10/31 05:33:23	warning	OLT Port Updown Uplink-port 0/6 Down
7	2001/10/31 05:20:18	warning	System Config Save save config by command
8	2001/10/31 05:21:16	major	ONU Finish PON 0/2 ONU 1 80:14:A8:51:D2:C8.
9	2001/10/31 05:21:02	major	ONU AUTH Success PON 0/2 ONU 1 80:14:A8:51:D2:C8.

6.1.2 Alarm

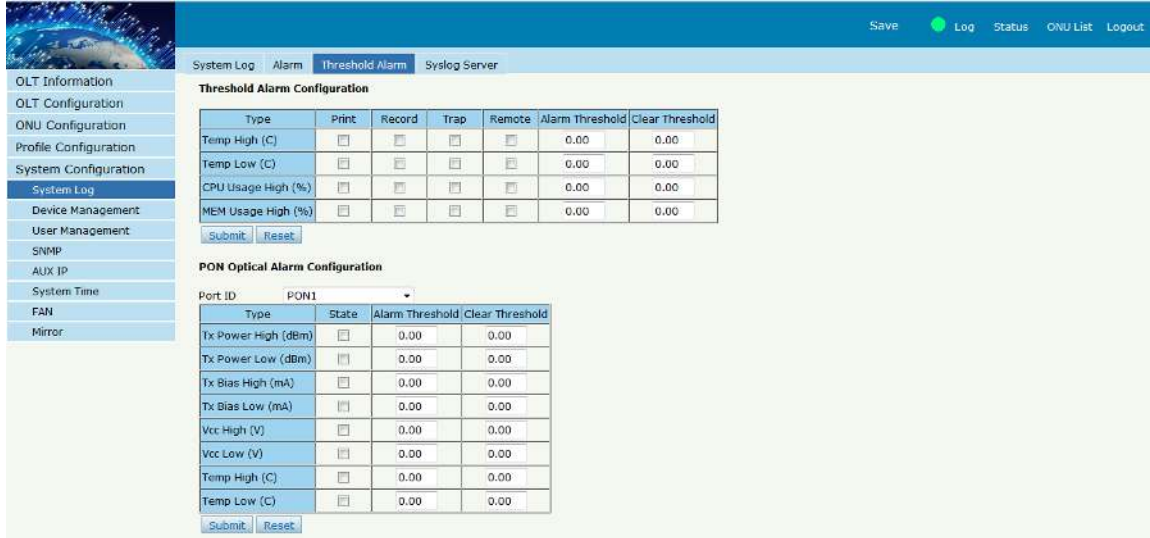
It contains all the alarms of OLT. User can choose the different alarms to "Print", "Record", "Trap" and "Remote".



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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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"/>

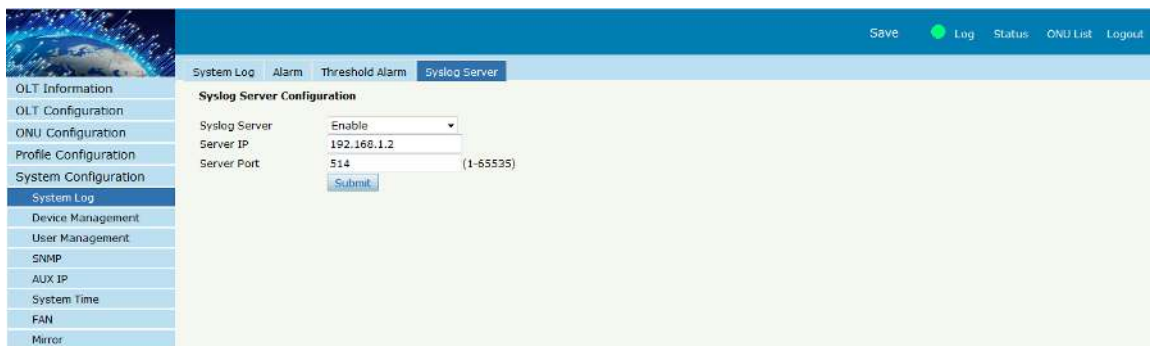
6.1.3 Threshold Alarm

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



6.1.4 Syslog Server

Configure the server of OLT remote system logs.



6.2 Device Management

It allows OLT management.

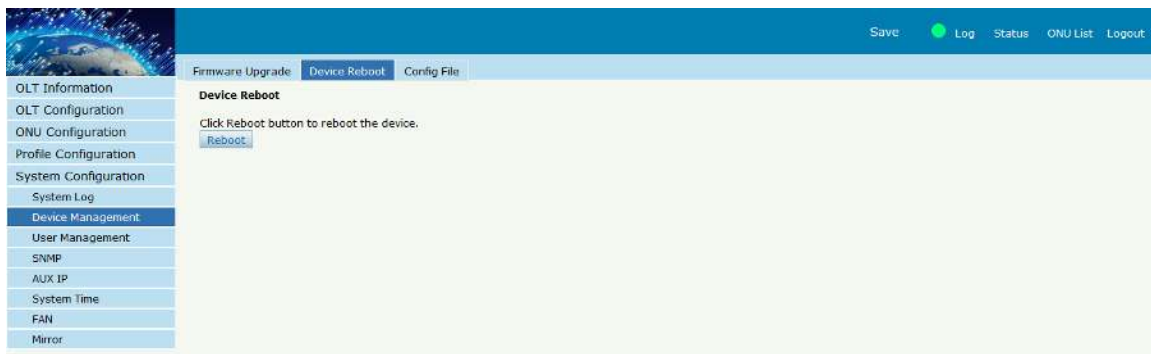
6.2.1 Firmware Upgrade

Upgrade the OLT by WEB, do not need TFTP server. After finish upgrading, it will reboot automatically.



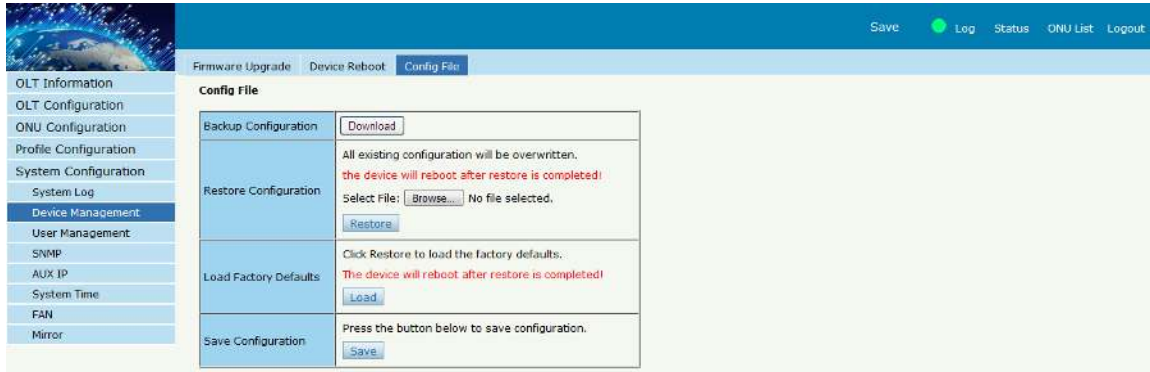
6.2.2 Device Reboot

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



6.2.3 Config File

It includes backup configuration, restore configuration, factory default and save configuration.



6.3 User Management

Add/Del the user account.

6.3.1 User Manage

The user can be divided into 2 levels: Normal and Admin. The different of them is the contents. The admin account content will be more abundant. The default account is **Admin** level.

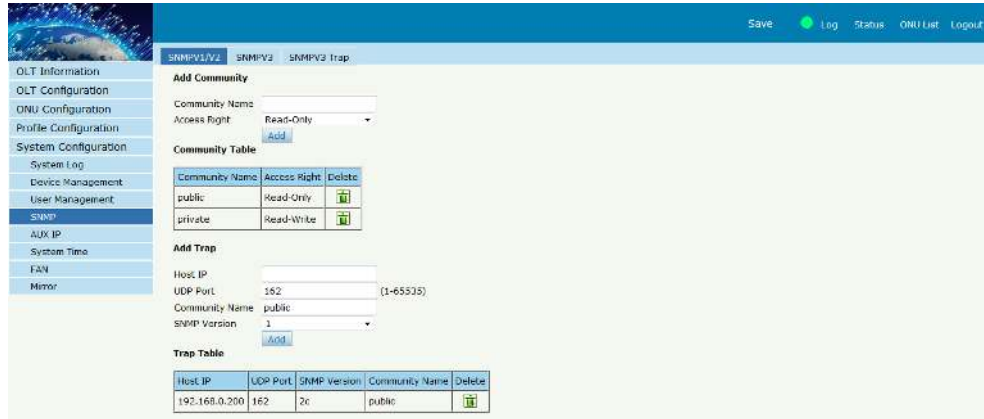


6.4 SNMP

Configure the SNMP (Simple Network Management Protocol) parameters for remote management.

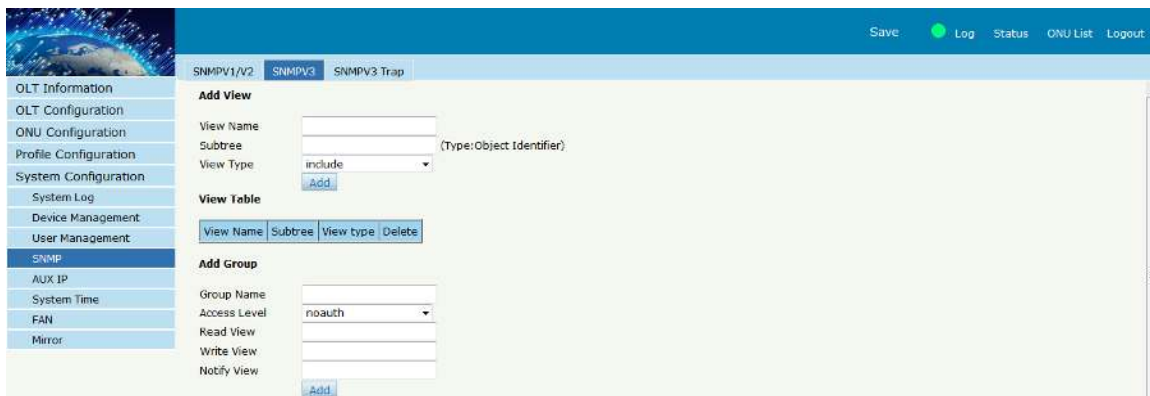
6.4.1 SNMP V1/V2

SNMP is an extensive network management protocol at the moment. The EPON OLT uses the SNMP V2.



6.4.2 SNMP V3

The SNMP V3 is the newer version. Configure the SNMP V3 parameters.



6.4.3 SNMP V3 Trap

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



6.5 AUX IP

AUX port is out band management port. Its IP address is out band management IP. The default IP address is 192.168.8.100. User can change it if need.



6.6 System Time

Set the system time.

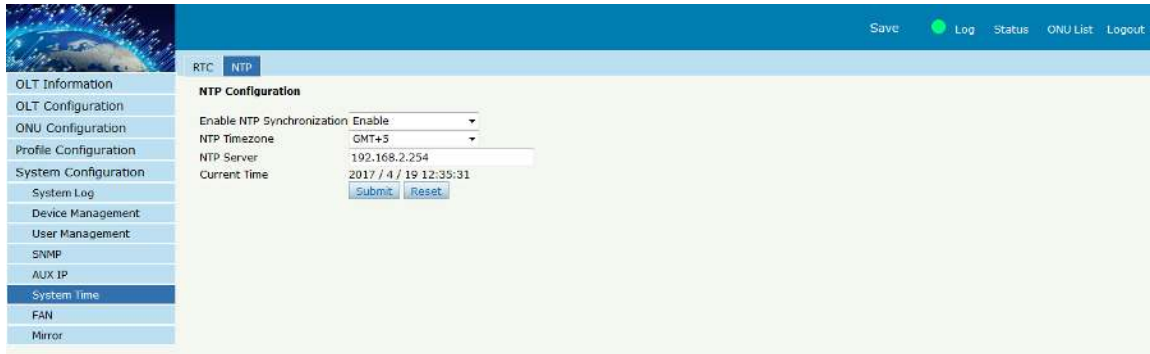
6.6.1 RTC

The system time is adaptable. The default system time is the OLT release time.



6.6.2 NTP

Set the NTP server details.



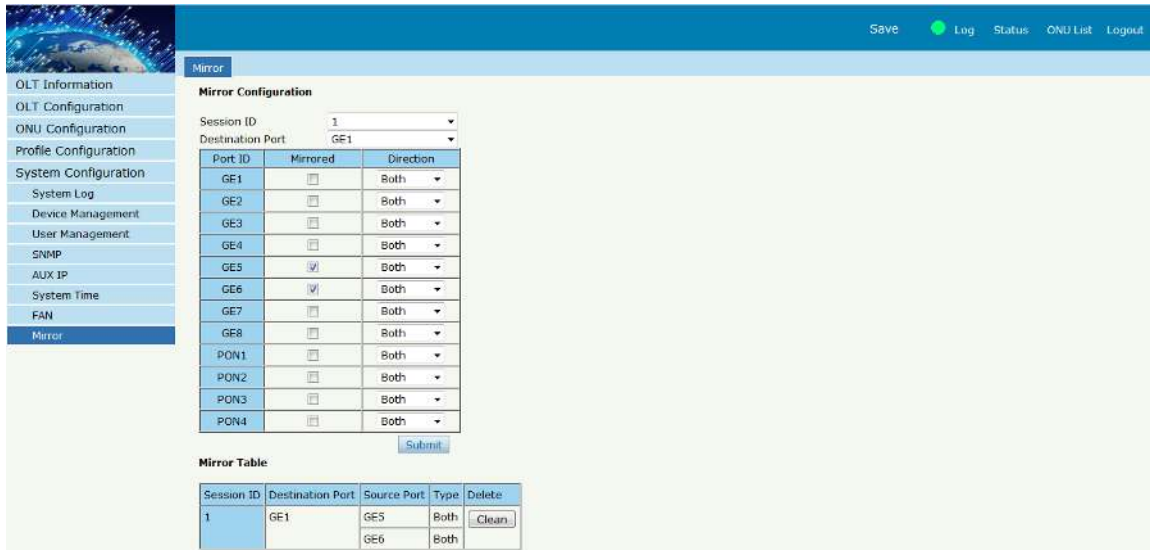
6.7 FAN

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



6.8 Mirror

It can be created 4 groups at most. One destination port can support 8 source ports at most.



Mirror Configuration

Session ID: 1
 Destination Port: GE1

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 checked="" type="checkbox"/>	Both
GE6	<input checked="" type="checkbox"/>	Both
GE7	<input type="checkbox"/>	Both
GE8	<input type="checkbox"/>	Both
PON1	<input type="checkbox"/>	Both
PON2	<input type="checkbox"/>	Both
PON3	<input type="checkbox"/>	Both
PON4	<input type="checkbox"/>	Both

Mirror Table

Session ID	Destination Port	Source Port	Type	Delete
1	GE1	GE5	Both	<input type="button" value="Clean"/>
		GE6	Both	

This product comes with standard one year warranty. For further details about warranty policy and Product Registration, please visit support section of www.digisol.com