LL-EPOLT304 EPON OLT

WEB USER MANUAL

Contents

Chapter 1 Monitor

1.1 System Information

1.1.1 Login OLT

The default management address of the OLT is 192.168.168.1, the PC is configured as the address of the 192.168.168.X, and the network cable is connected to the MGMT port to access the OLT. The default user name and password are admin/admin.

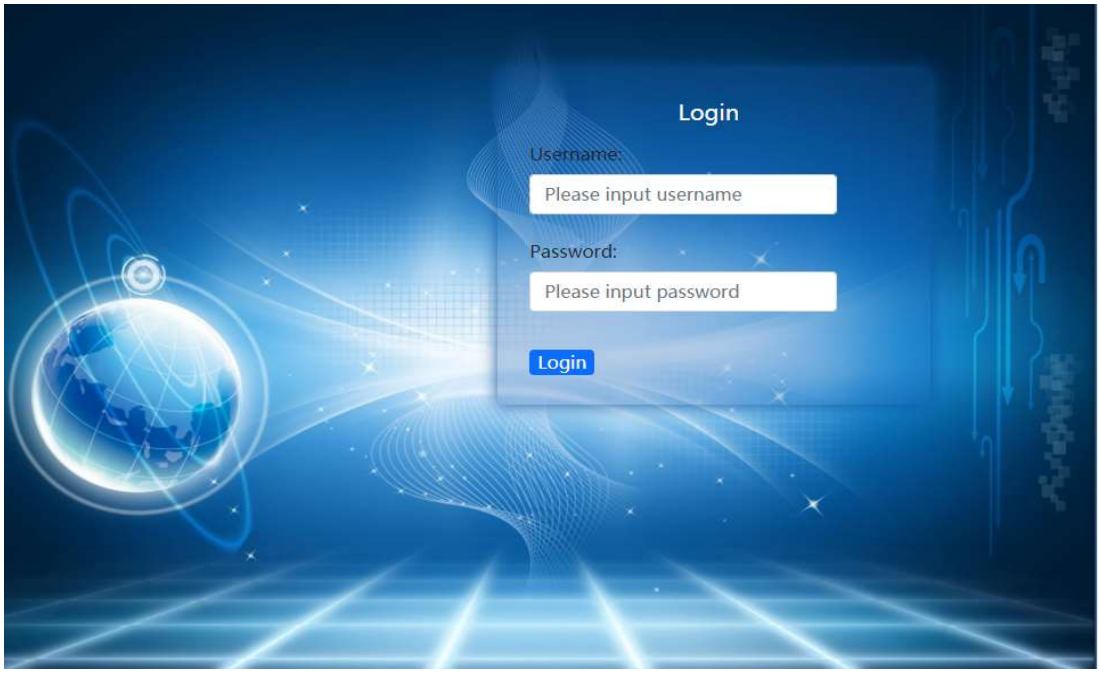


Figure1-1

1.1.2 Device Information

1.Click Monitor-> System Information-> Device Information

2. This page displays information such as device description, hardware version, software version, and MAC address.

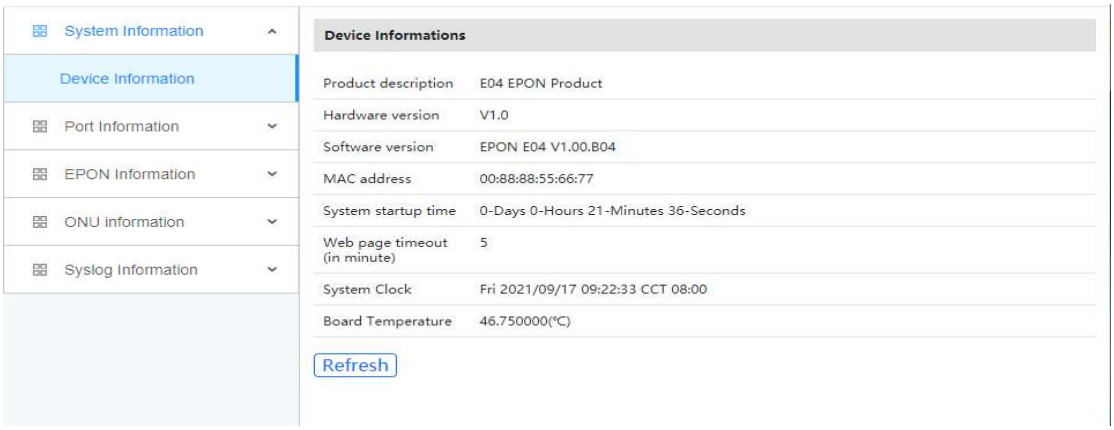


Figure 1-2

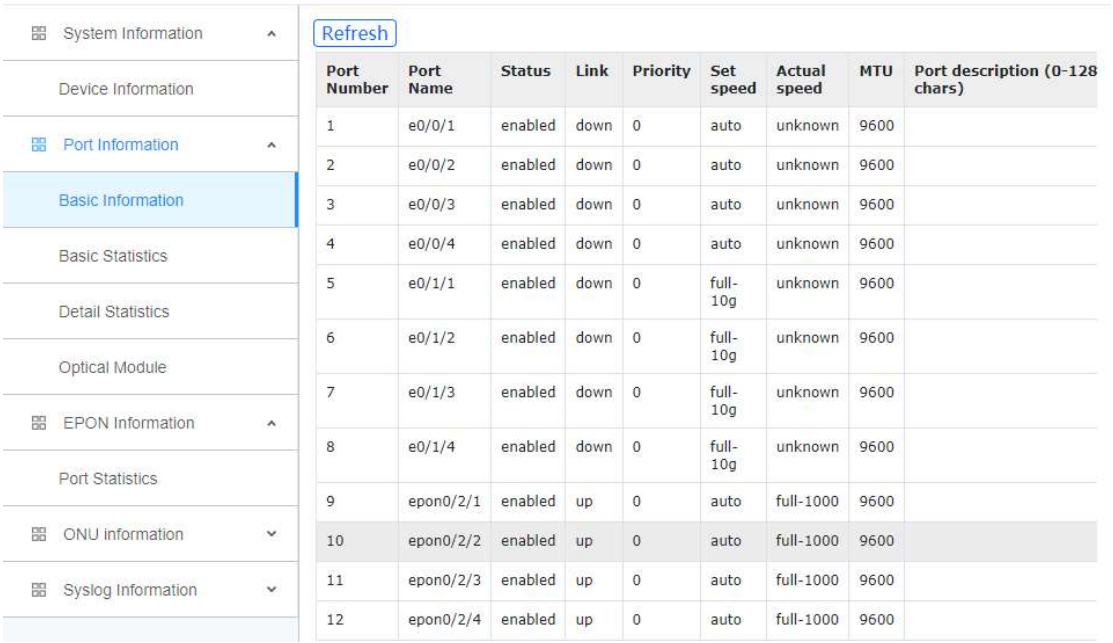
1.2 Port Information

Port information displays device port status, port traffic statistics, and uplink optical module information.

1.2.1 Basic Information

1.Click Monitor-> Port Information-> Basic Information

2. This page displays the port status, priority, speed, MTU, description and other information.



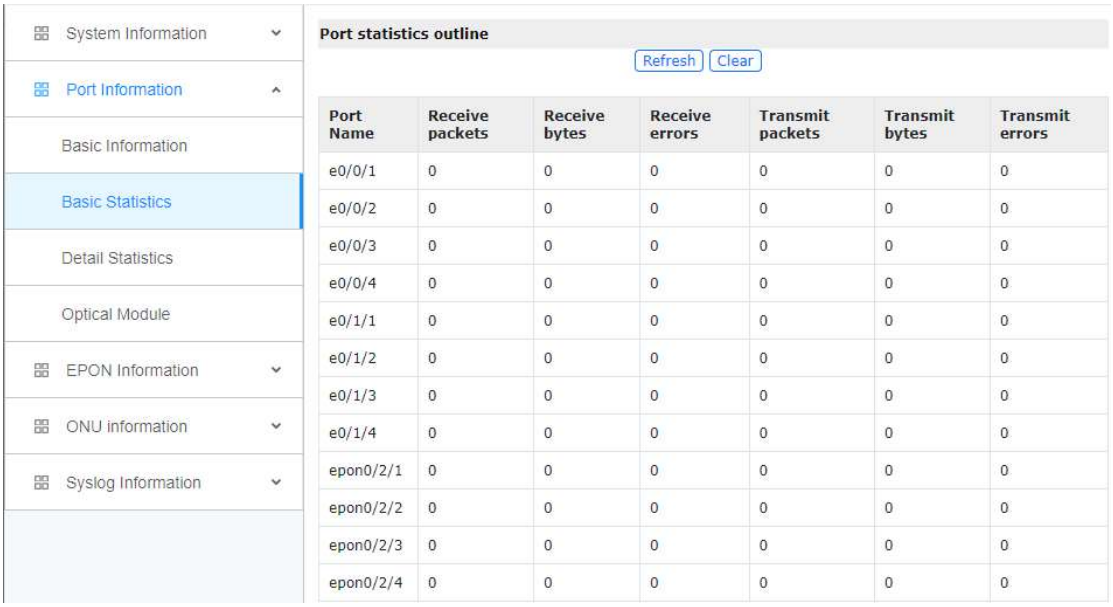
Port Number	Port Name	Status	Link	Priority	Set speed	Actual speed	MTU	Port description (0-128 chars)
1	e0/0/1	enabled	down	0	auto	unknown	9600	
2	e0/0/2	enabled	down	0	auto	unknown	9600	
3	e0/0/3	enabled	down	0	auto	unknown	9600	
4	e0/0/4	enabled	down	0	auto	unknown	9600	
5	e0/1/1	enabled	down	0	full-10g	unknown	9600	
6	e0/1/2	enabled	down	0	full-10g	unknown	9600	
7	e0/1/3	enabled	down	0	full-10g	unknown	9600	
8	e0/1/4	enabled	down	0	full-10g	unknown	9600	
9	epon0/2/1	enabled	up	0	auto	full-1000	9600	
10	epon0/2/2	enabled	up	0	auto	full-1000	9600	
11	epon0/2/3	enabled	up	0	auto	full-1000	9600	
12	epon0/2/4	enabled	up	0	auto	full-1000	9600	

Figure1-3

1.2.2 Basic Statistics

1.Click Monitor-> Port Information-> Basic Statistics

2. This page displays simple statistics about packets transmit and receive by the port.



Port Name	Receive packets	Receive bytes	Receive errors	Transmit packets	Transmit bytes	Transmit errors
e0/0/1	0	0	0	0	0	0
e0/0/2	0	0	0	0	0	0
e0/0/3	0	0	0	0	0	0
e0/0/4	0	0	0	0	0	0
e0/1/1	0	0	0	0	0	0
e0/1/2	0	0	0	0	0	0
e0/1/3	0	0	0	0	0	0
e0/1/4	0	0	0	0	0	0
epon0/2/1	0	0	0	0	0	0
epon0/2/2	0	0	0	0	0	0
epon0/2/3	0	0	0	0	0	0
epon0/2/4	0	0	0	0	0	0

Figure1-4

1.2.3 Detail Statistics

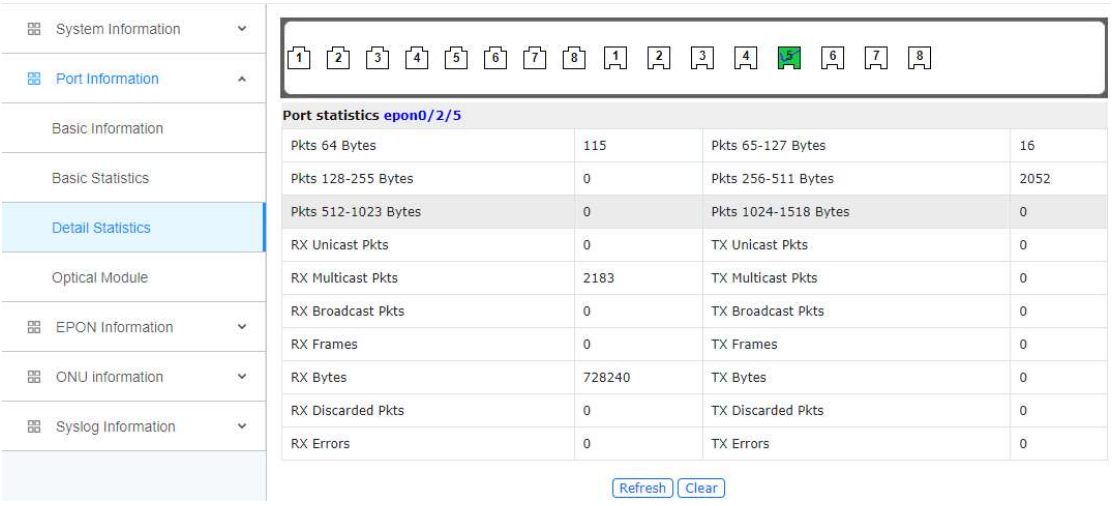
1.Click Monitor->Port Information->Detail Statistics

2. This page displays detailed statistics about the received and transmit packets on the port.

means linkup


means linkdown,


means the currently selected port.



Pkts 64 Bytes	115	Pkts 65-127 Bytes	16
Pkts 128-255 Bytes	0	Pkts 256-511 Bytes	2052
Pkts 512-1023 Bytes	0	Pkts 1024-1518 Bytes	0
RX Unicast Pkts	0	TX Unicast Pkts	0
RX Multicast Pkts	2183	TX Multicast Pkts	0
RX Broadcast Pkts	0	TX Broadcast Pkts	0
RX Frames	0	TX Frames	0
RX Bytes	728240	TX Bytes	0
RX Discarded Pkts	0	TX Discarded Pkts	0
RX Errors	0	TX Errors	0

Figure1-5

1.2.4 Optical Module

1.Click Monitor->Port Information->Optical Module
2. This page displays the basic information and DDM information of the optical module of the uplink port.

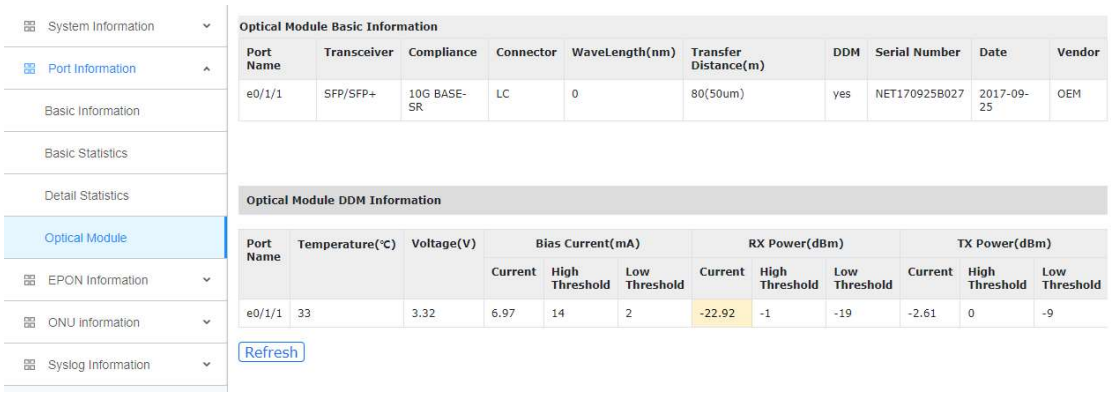


Figure 1-6

1.3 EPON Information

1.3.1 Port Statistics

1.Click Monitor->EPON Information->Port Statistics
2. This page displays PON port optical modules and PON port traffic statistics.

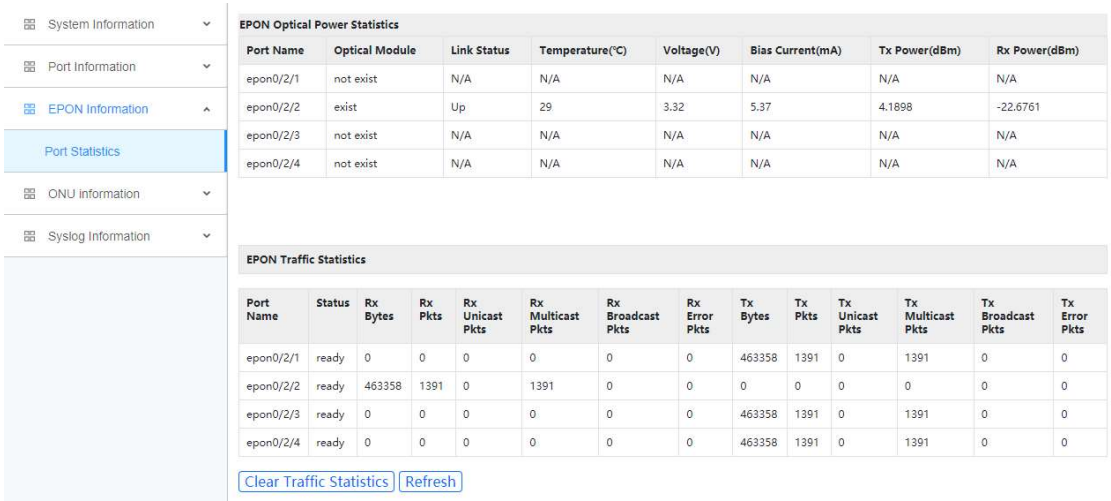


Figure1-7

1.4 ONU Information

ONU information includes ONU status, power, temperature and other information.

1.4.1 ONU Status

1.Click Monitor->ONU information->ONU Status

2. This page displays ONU's mac address, type, registration time and software information, etc.

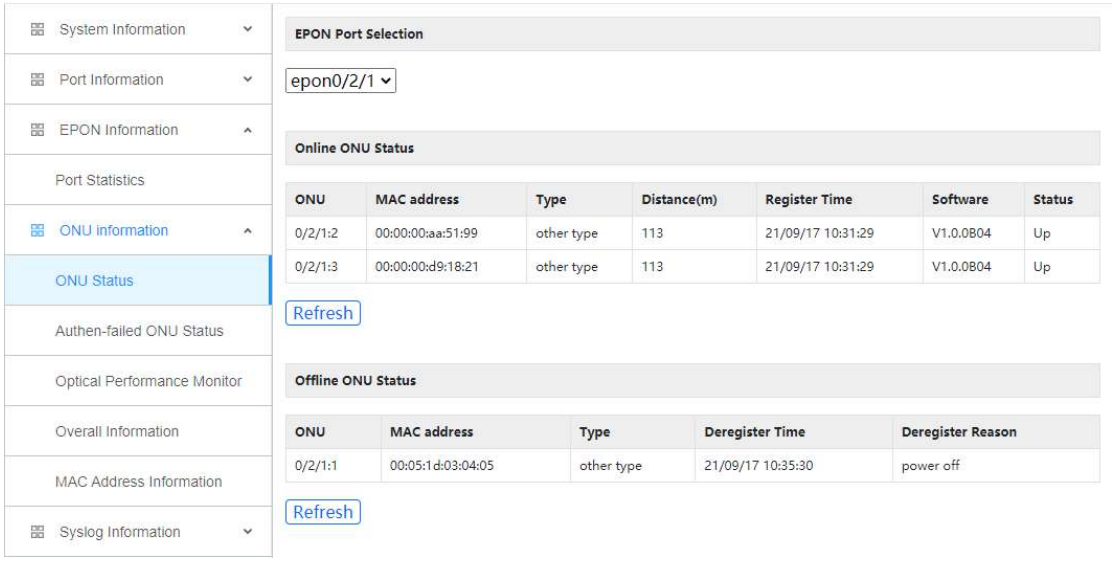


Figure1-8

1.4.2 Authen-failed ONU Status

1.Click Monitor->ONU information->Authen-failed ONU Status

2. This page displays information about ONUs that have failed authentication.

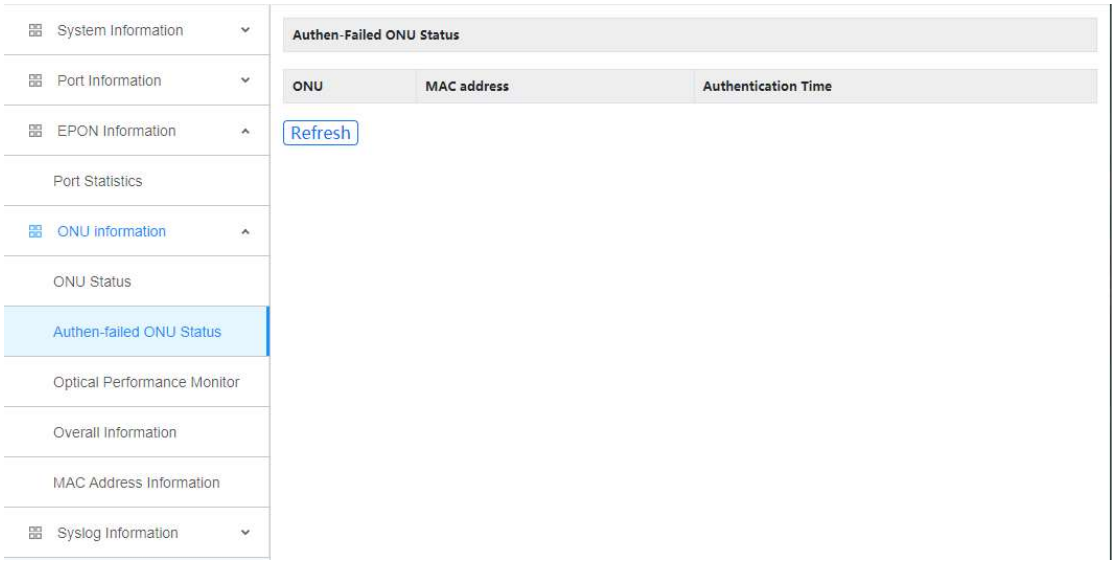


Figure1-9

1.4.3 Optical Performance Monitor

1.Click Monitor->ONU information->Optical Performance Monitor

2. This page displays the ONU's temperature, voltage, biascurrent, Tx power andRx power information

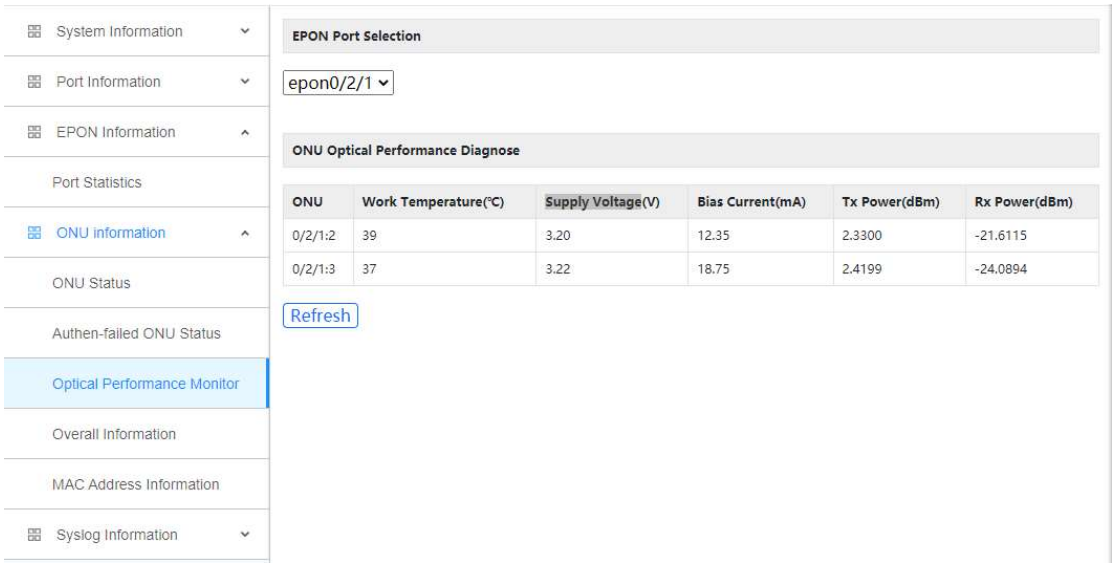


Figure1-10

1.4.4 Overall Information

1.Click Monitor->ONU information->Overall Information

2. This page displays ONU's CTC version, SN, Chip and Firmware information

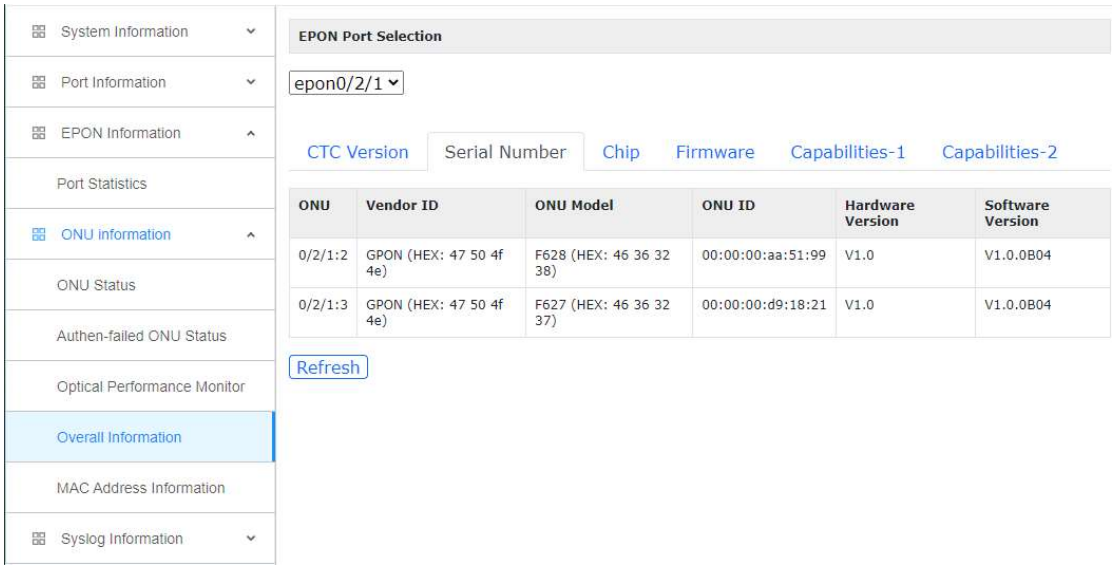


Figure1-11

1.4.5 MAC Address Information

1.Click Monitor->ONU information->MAC Address Information

2. This page displays the MAC address learned by ONU

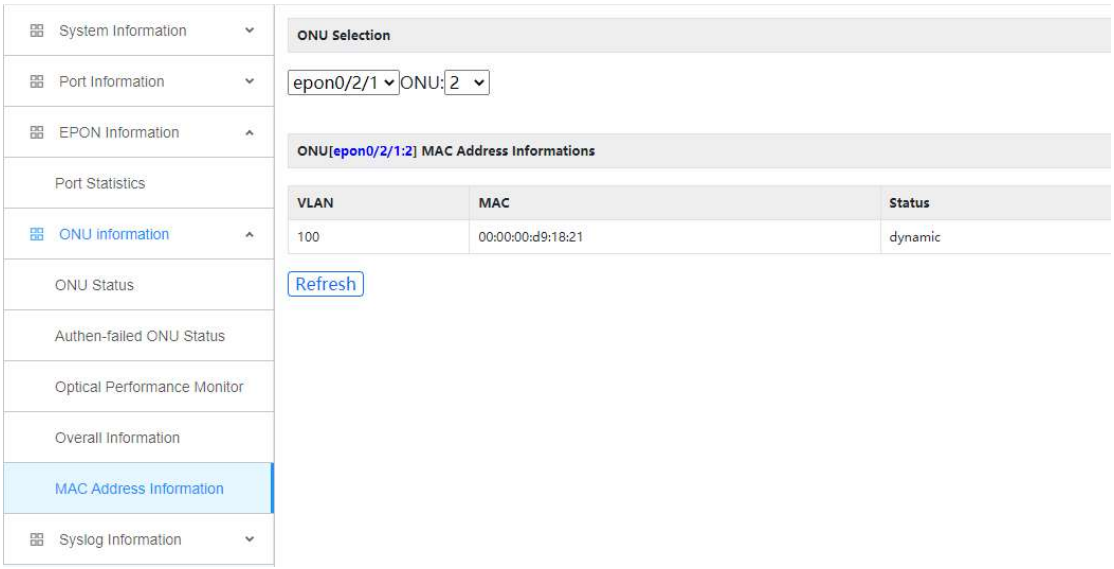


Figure 1-12

1.5 Syslog Information

1.Click Monitor->Syslog Information

2. This page displays the system log. The log records up to 10,000 entries, and it will be automatically overwritten when exceeded.

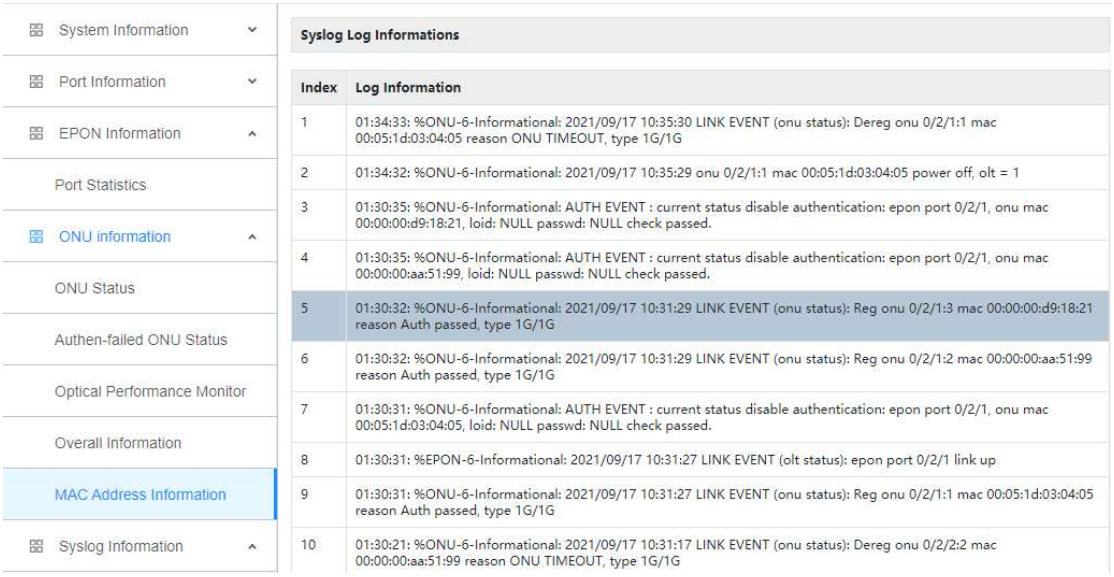


Figure1-13

Chapter 2 System Management

System OEM information modification and user management, etc.

2.1 System Information

1.Click Config->System Management->System Information
2.This page is configure and display the OEM information of OLT.

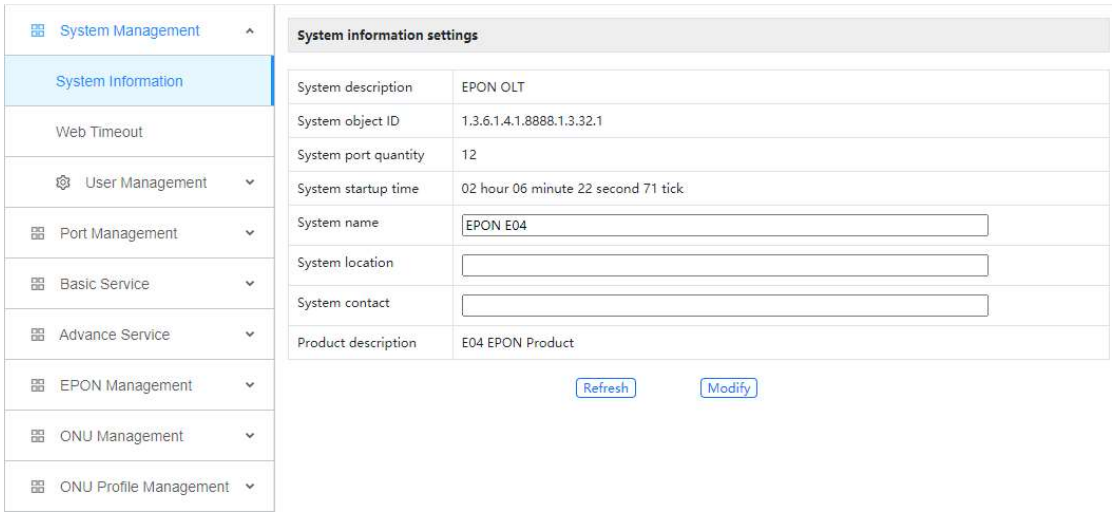


Figure2-1

2.2 Web Timeout

1.Click Config->System Management->Web Timeout
2. This page configures the web timeout time, which can be 5, 10, 15 and 20 minutes.

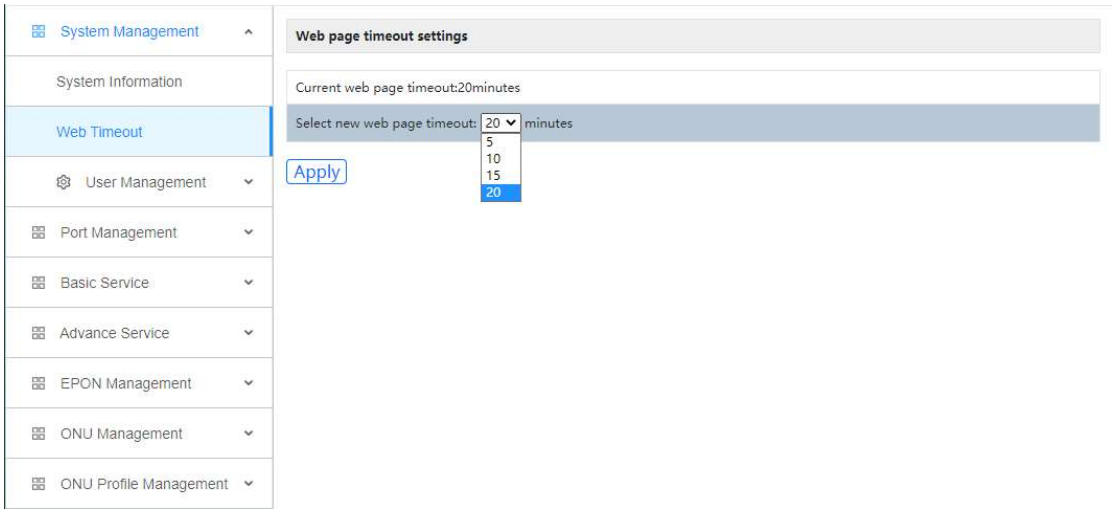


Figure2-2

2.3 User Management

User management is used to modify, add and delete new users. The system administrator account cannot be deleted, and the user administrator account cannot modify user permissions, and cannot add user accounts.

2.3.1 User Overview

1.Click Config->System Management->User Management->User Overview
2. This page displays all the accounts and privilege of the device.

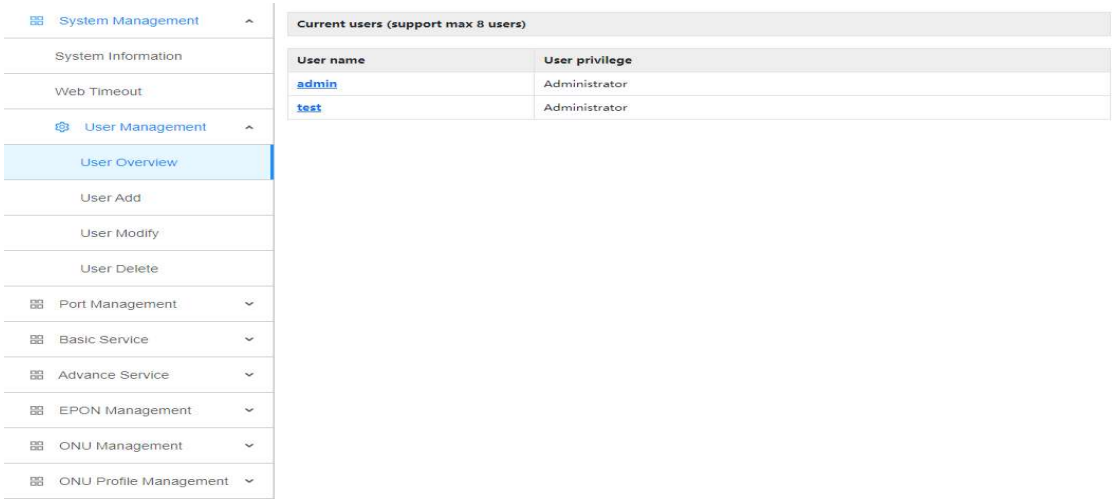


Figure2-3

2.3.2 User Add

1.Click Config->System Management->User Management->User Add
2.This page is used to add user account and password.

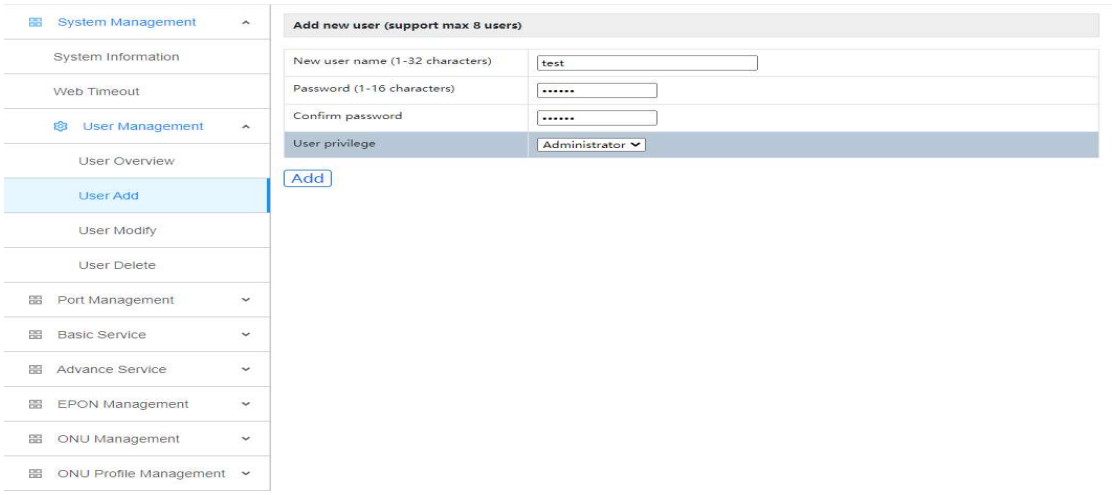


Figure2-4

2.3.3 User Modify

1.Click Config->System Management->User Management->User Modify
2.This page is used to modify user password and user privilege. The admin account privilege cannot be modified. Only the admin account can modify the privilege of other users.

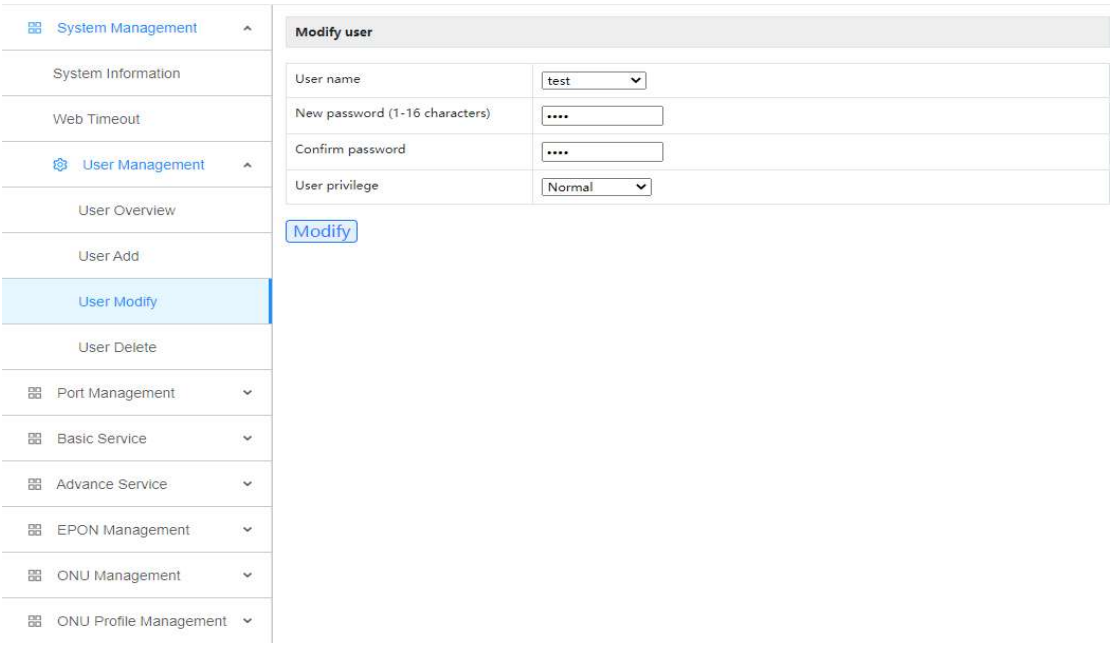


Figure2-5

2.3.4 User Delete

1.Click Config->System Management->User Management->User Delete
2. This page is used to delete user accounts. Only admin user can perform this operation.

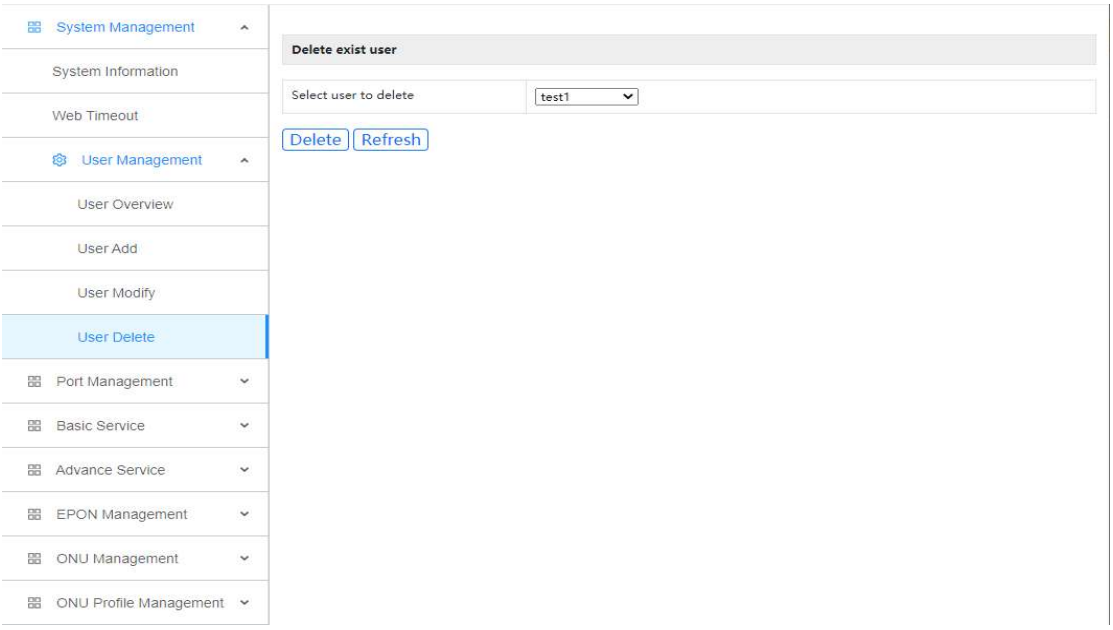


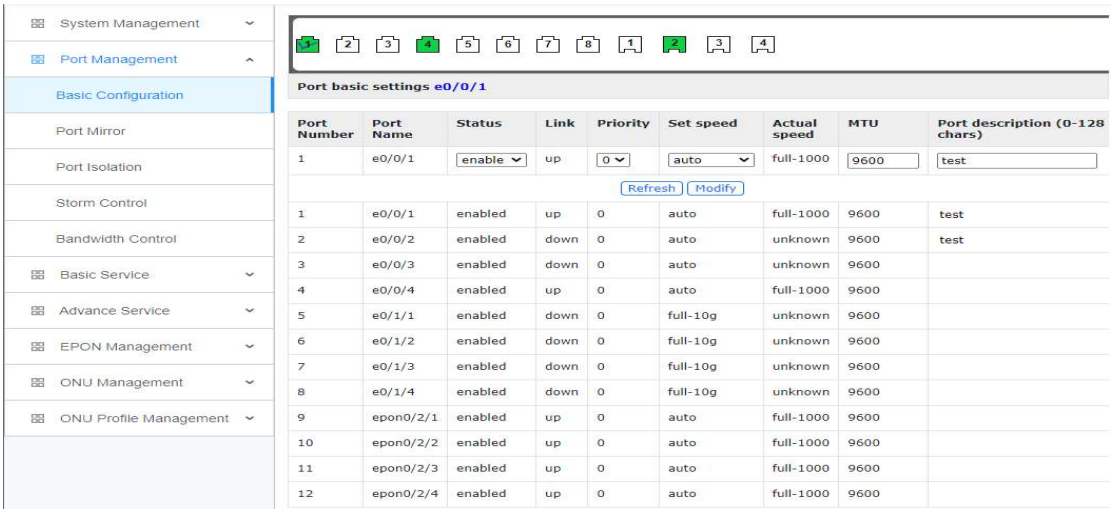
Figure2-6

Chapter 3 Port Management

Port management configures port mirror, port isolation, storm control and bandwidth control.

3.1 Basic Configuration

1.Click Config->Port Management->Basic Configuration
2. This page configures the OLT port status, priority, rate, MTU, and port description information.

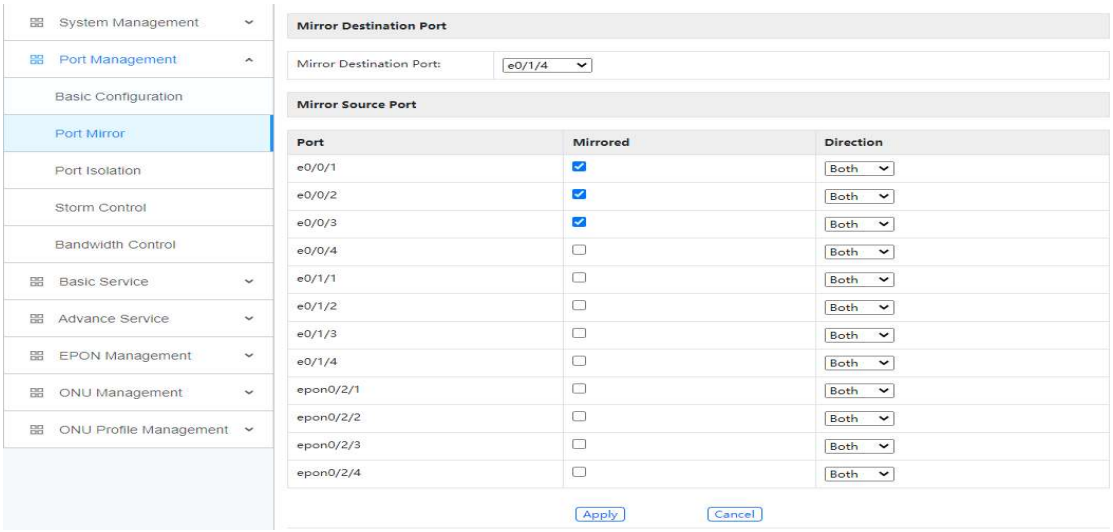


Port Number	Port Name	Status	Link	Priority	Set speed	Actual speed	MTU	Port description (0-128 chars)
1	e0/0/1	enable	up	0	auto	full-1000	9600	test
1	e0/0/1	enabled	up	0	auto	full-1000	9600	test
2	e0/0/2	enabled	down	0	auto	unknown	9600	test
3	e0/0/3	enabled	down	0	auto	unknown	9600	
4	e0/0/4	enabled	up	0	auto	full-1000	9600	
5	e0/1/1	enabled	down	0	full-10g	unknown	9600	
6	e0/1/2	enabled	down	0	full-10g	unknown	9600	
7	e0/1/3	enabled	down	0	full-10g	unknown	9600	
8	e0/1/4	enabled	down	0	full-10g	unknown	9600	
9	epon0/2/1	enabled	up	0	auto	full-1000	9600	
10	epon0/2/2	enabled	up	0	auto	full-1000	9600	
11	epon0/2/3	enabled	up	0	auto	full-1000	9600	
12	epon0/2/4	enabled	up	0	auto	full-1000	9600	

Figure3-1

3.2 Port Mirror

1.Click Config->Port Management->Port Mirror
2. This page configures the port mirror function.



Port	Mirrored	Direction
e0/0/1	☑	Both
e0/0/2	☑	Both
e0/0/3	☑	Both
e0/0/4	☐	Both
e0/1/1	☐	Both
e0/1/2	☐	Both
e0/1/3	☐	Both
e0/1/4	☐	Both
epon0/2/1	☐	Both
epon0/2/2	☐	Both
epon0/2/3	☐	Both
epon0/2/4	☐	Both

Figure3-2

3.3 Port Isolation

1.Click Config->Port Management->Port Isolation

2. This page configures the port isolation function. The ports in the isolation group are isolated from each other and can only communicate with the uplink port, cannot communicate with other ports.

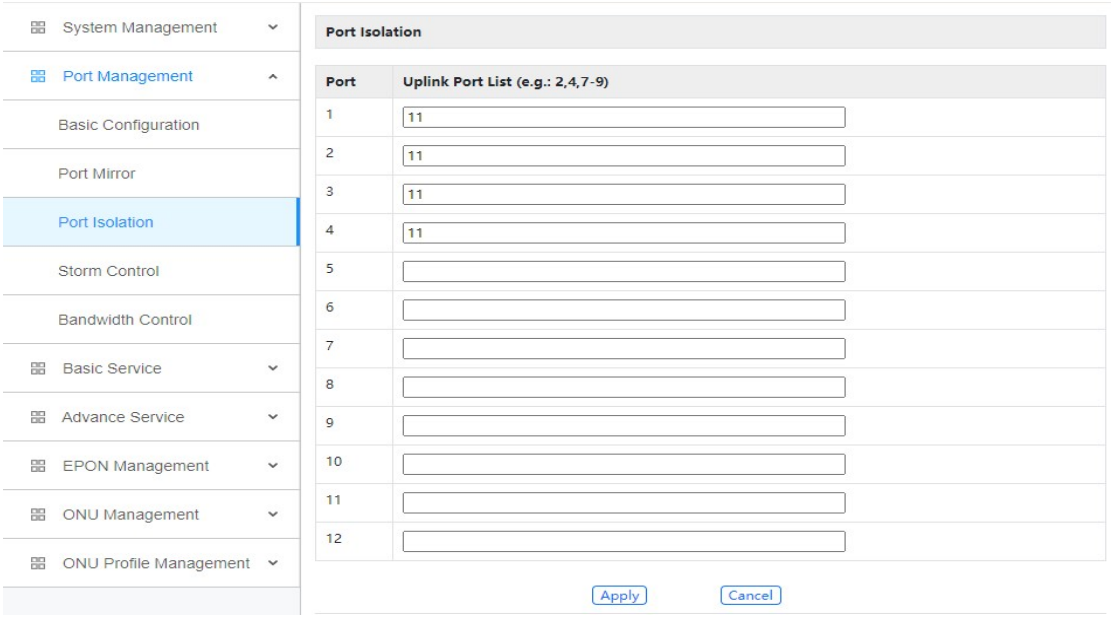


Figure 3-3

3.4 Storm Control

1.Click Config->Port Management->Storm Control

2. This page configures the storm control function, packets exceeding the configured speed will be discarded

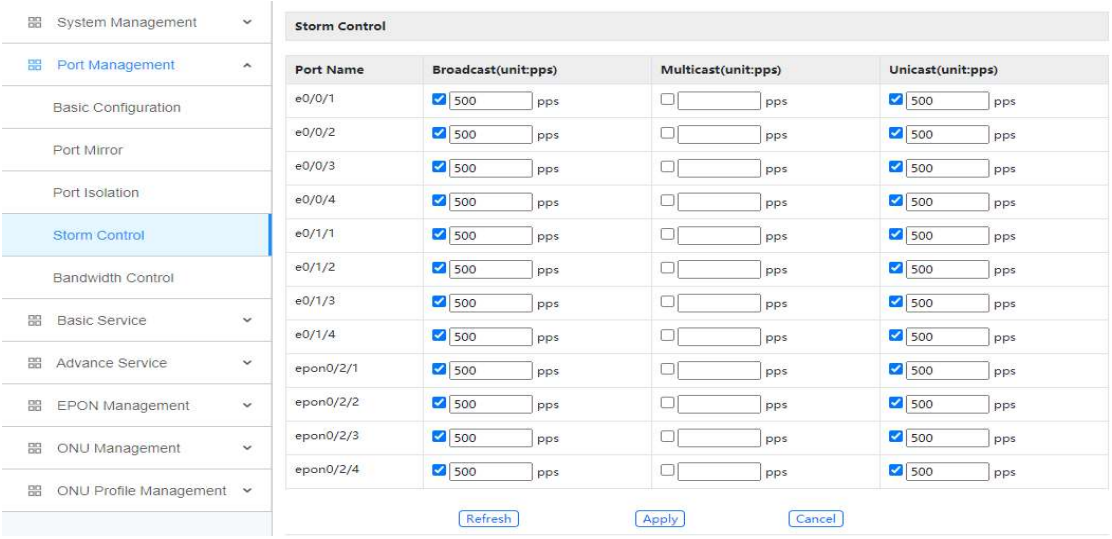


Figure3-4

3.5 Bandwidth Control

1.Click Config->Port Management->Bandwidth Control
2. This page configures the ingress and egress rate of the OLT port, and the bandwidth is limited to an integer multiple of 64

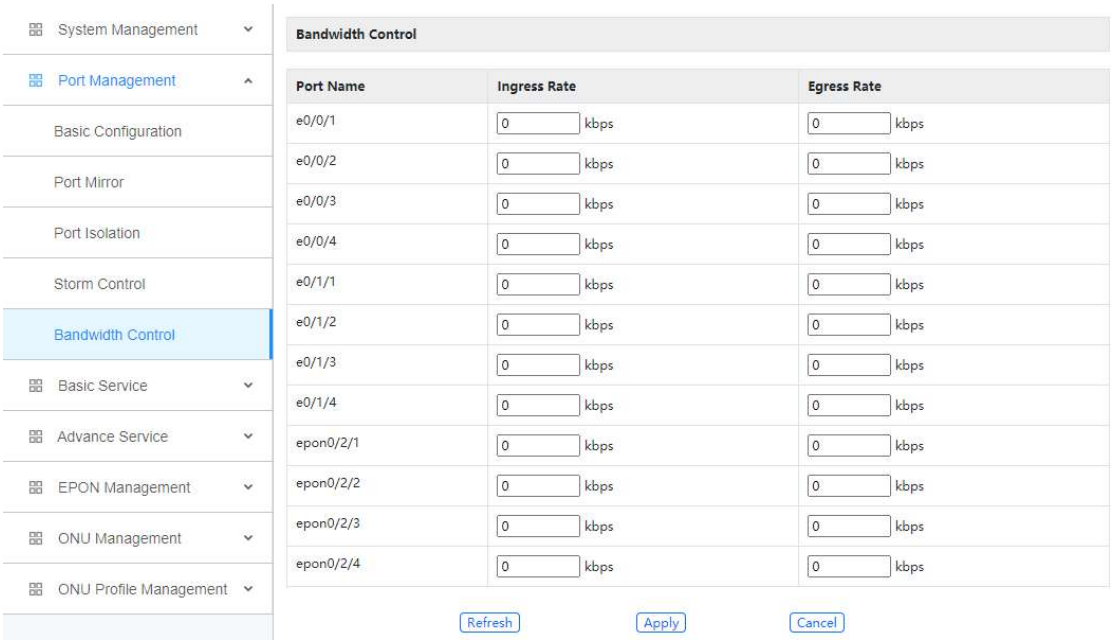


Figure3-5

Chapter 4 Basic Service

Basic services include VLAN, management IP, Layer 2 multicast, STP, LACP and other functions.

4.1 VLAN Configuration

VLAN configuration can create VLANs and bind ports

4.1.1 Static VLAN

1.Click Config->Basic Service->VLAN Configuration->Static VLAN
2. This page can add, modify, delete, and add description information for VLANs.

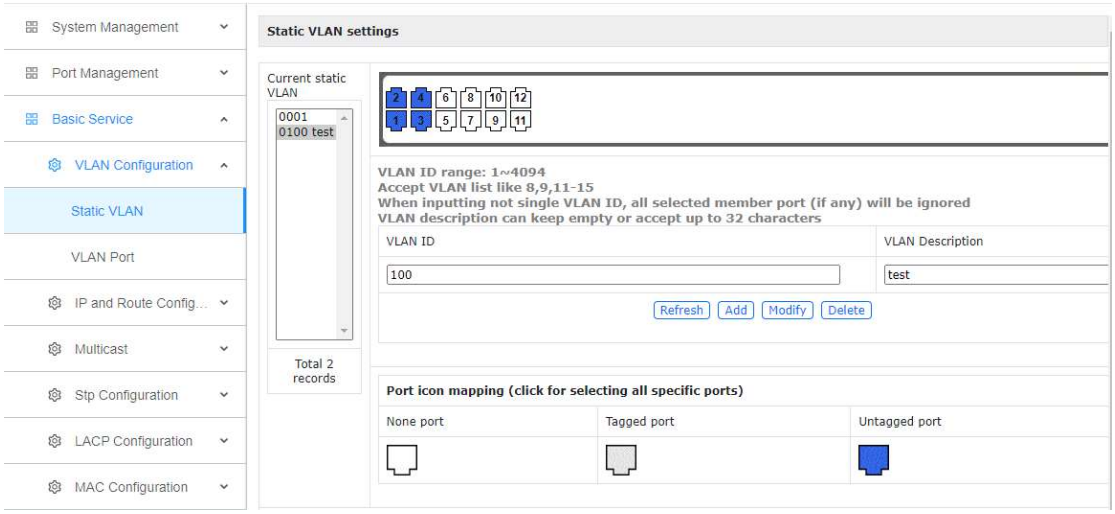


Figure4-1

4.1.2 VLAN Port

1.Click Config->Basic Service->VLAN Configuration->VLAN Port
2. This page configures the default VLAN and mode of the port.

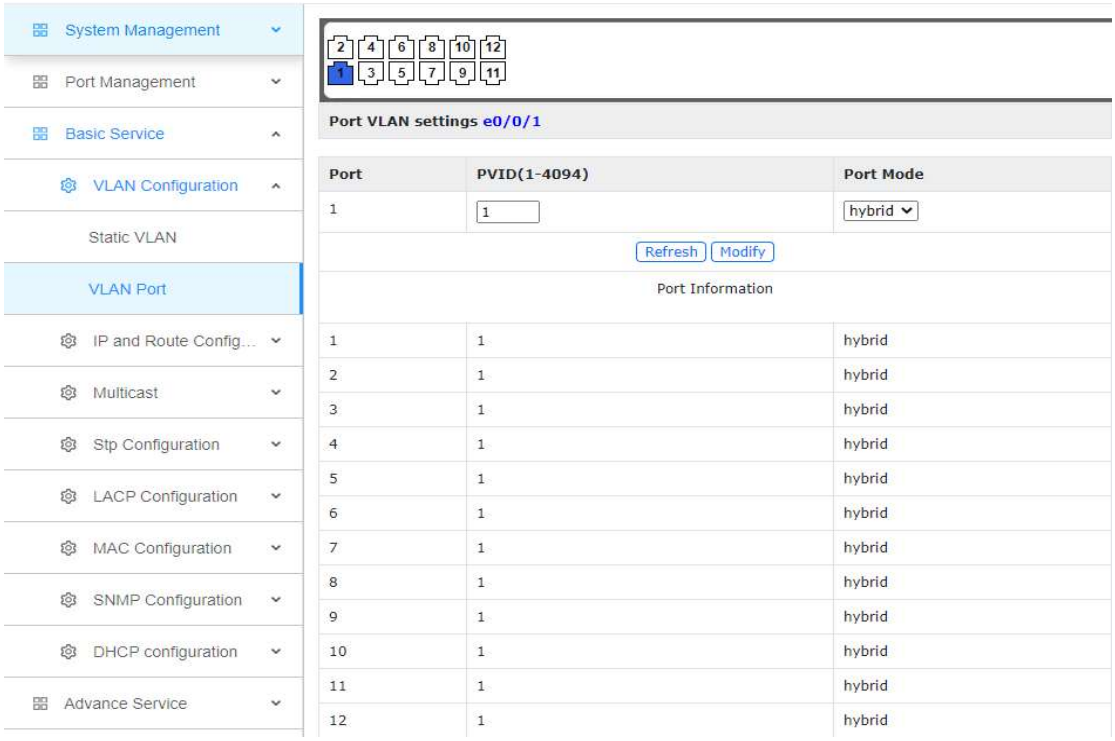


Figure4-2

4.2 IP and Route Configuration

IP and route configuration include VLAN interface and static route.

4.2.1 MGMT IP Configuration

1.Click Config->Basic Service->IP and Route Configuration->MGMT IP Configuration
2. This page configures the management IP of the OLT. The default management IP is 192.168.168.1.

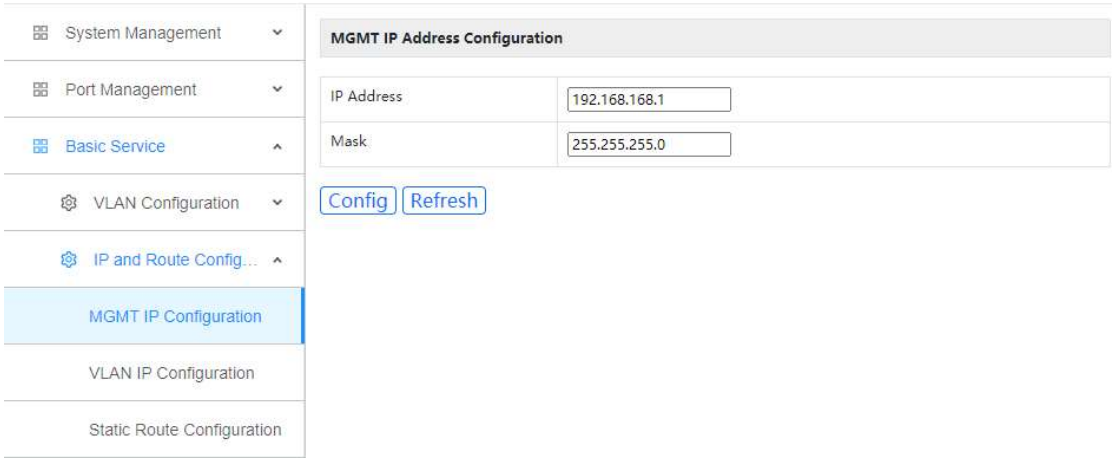


Figure4-3

4.2.2 VLAN IP Configuration

1.Click Config->Basic Service->IP and Route Configuration->VLAN IP Configuration
2. This page can add, modify and delete VLAN interface.

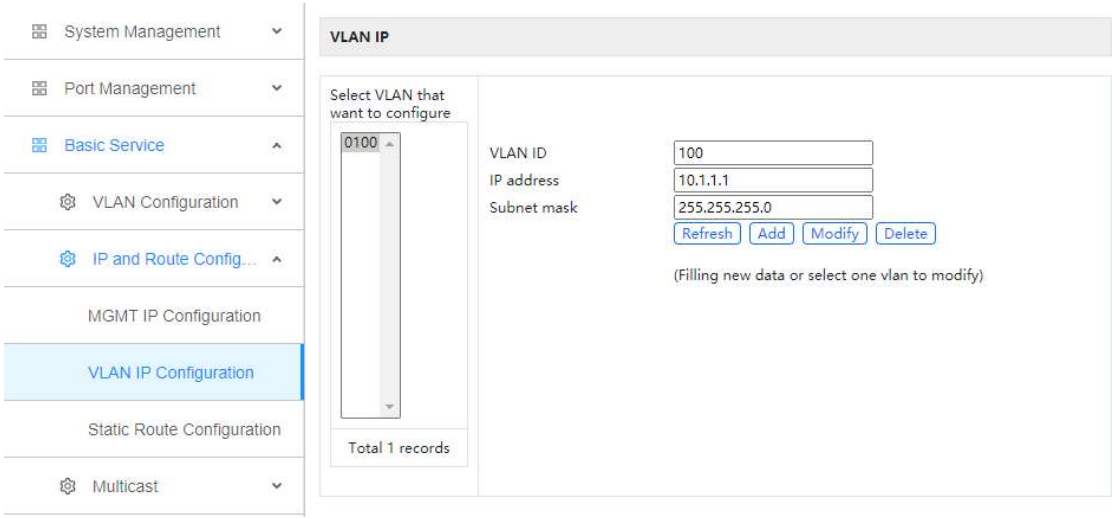


Figure4-4

4.2.3 Static Route Configuration

1.Click Config->Basic Service->IP and Route Configuration->Static Route Configuration
2. This page displays, adds and deletes static routes.

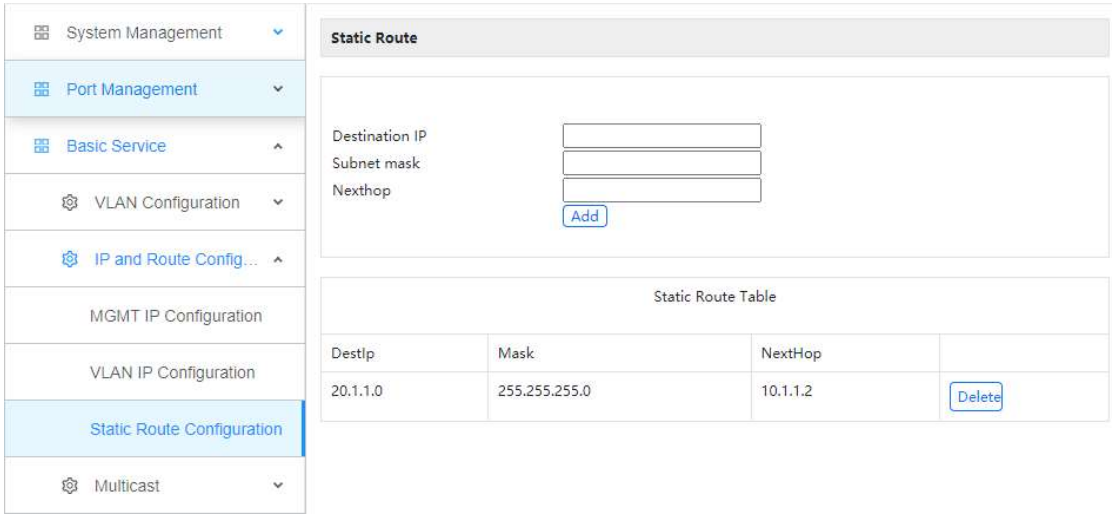


Figure4-5

4.3 Multicast

4.3.1 Multicast Configuration

1.Click Config->Basic Service->Multicast->Multicast Configuration
2. This page can add, modify and delete static multicast groups.

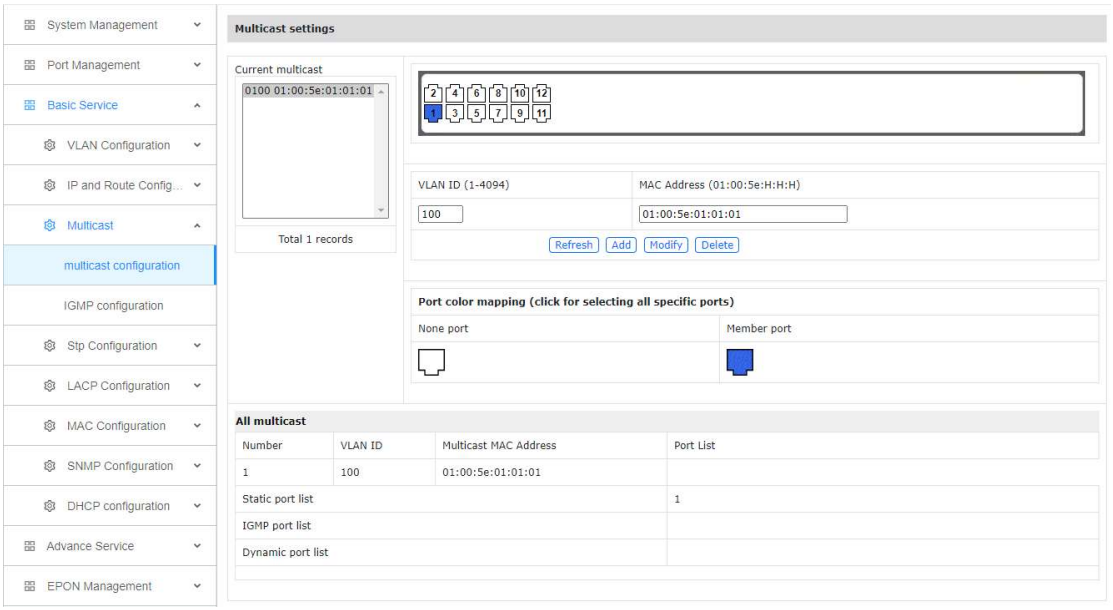


Figure4-6

4.3.2 IGMP Configuration

1.Click Config->Basic Service->Multicast->IGMP Configuration
2.This page configures IGMP snooping.

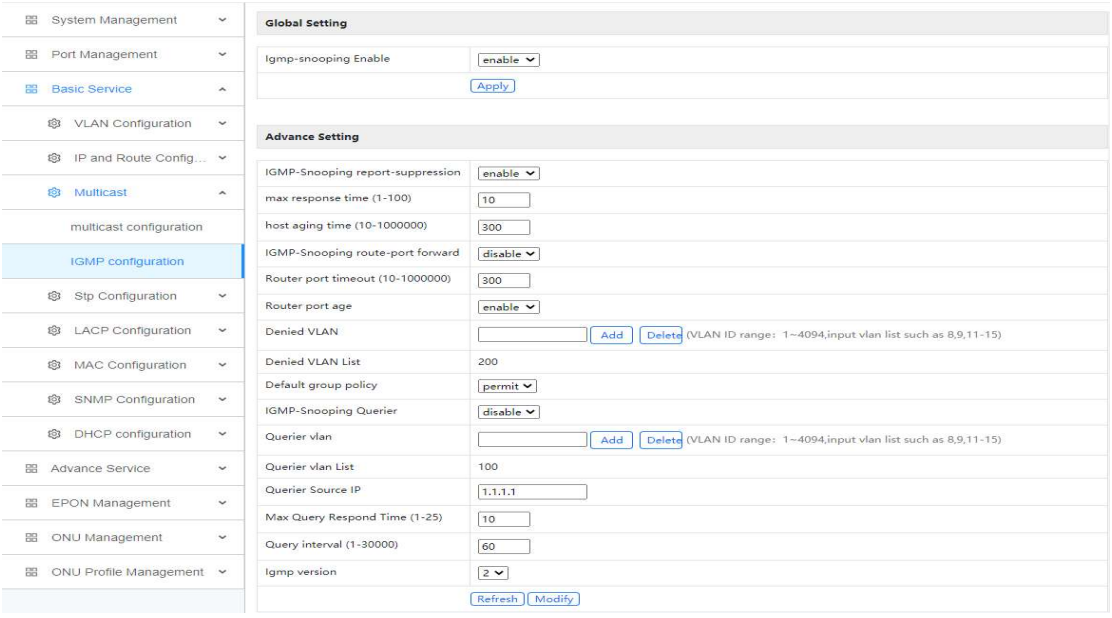


Figure4-7

4.4 STP Configuration

STP (Spanning Tree Protocol) is a part of the IEEE 802.1D bridge protocol. The standard STP implementation can eliminate network broadcast storms caused by network cyclic connections, eliminate cyclic connections caused by mistakes or accidents, and also provide network services. Possibility of backup connection.

4.4.1 Global Configuration

1.Click Config->Basic Service->Stp Configuration->Global Configuration
2. This page configures the global STP and displays STP status.

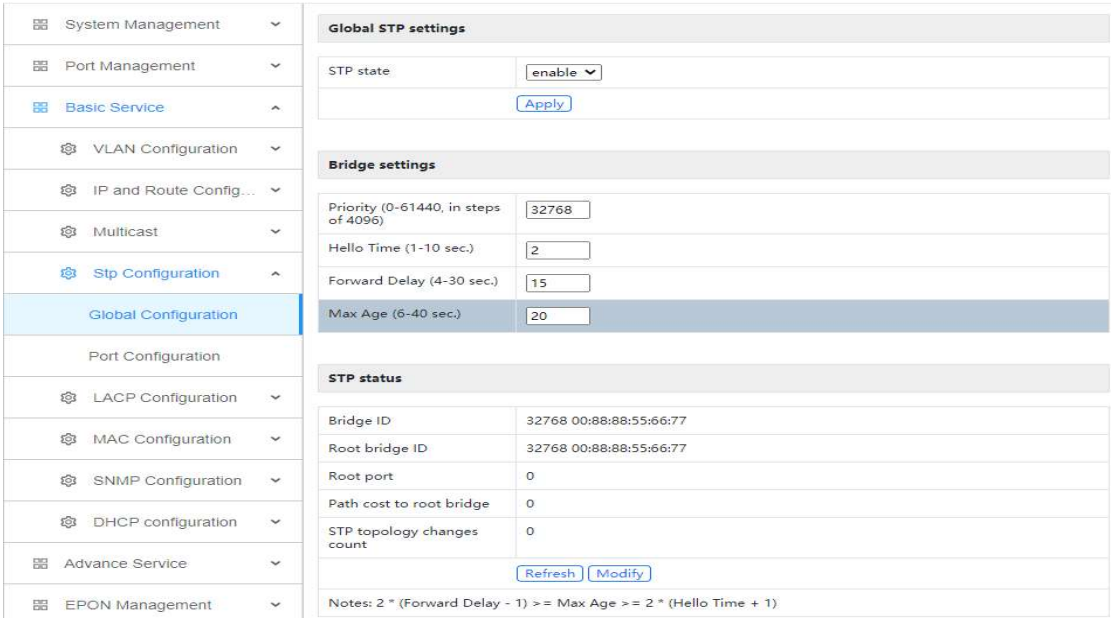


Figure4-8

4.4.2 Port Configuration

1.Click Config->Basic Service->Stp Configuration->Port Configuration
2. This page configures the STP status, path cost, and priority. The priority of the port must be an integer multiple of 16.

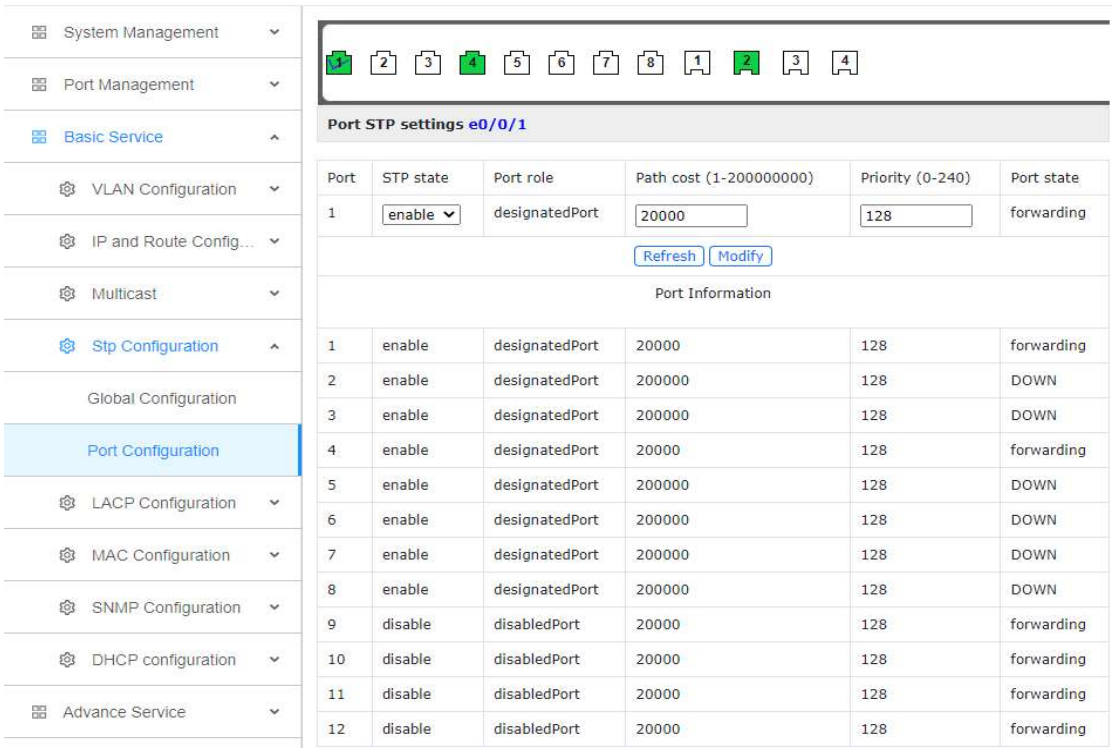


Figure4-9

4.5 LACP Configuration

LACP is the aggregation of multiple ports together to form an aggregation group to achieve traffic load sharing among member ports. When a link is unavailable, the link traffic will automatically switch to another link to ensure uninterrupted business traffic. An aggregation group is like a port.

4.5.1 Status Display

1.Click Config->Basic Service->LACP Configuration->Status Display
2. This page displays LACP configuration information.

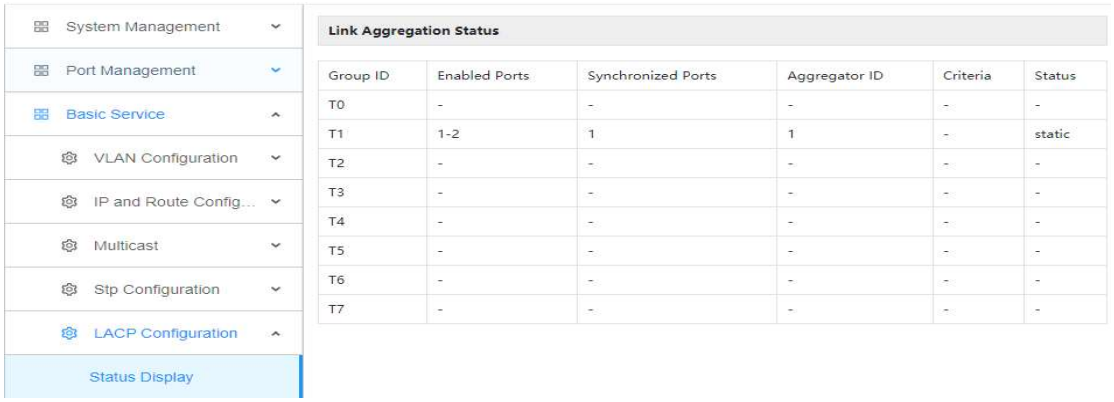


Figure4-10

4.5.2 LACP Configuration

1.Click Config->Basic Service->LACP Configuration->LACP Configuration
2. This page configures LACP. Only ports with the same VLAN can be configured in the same group.

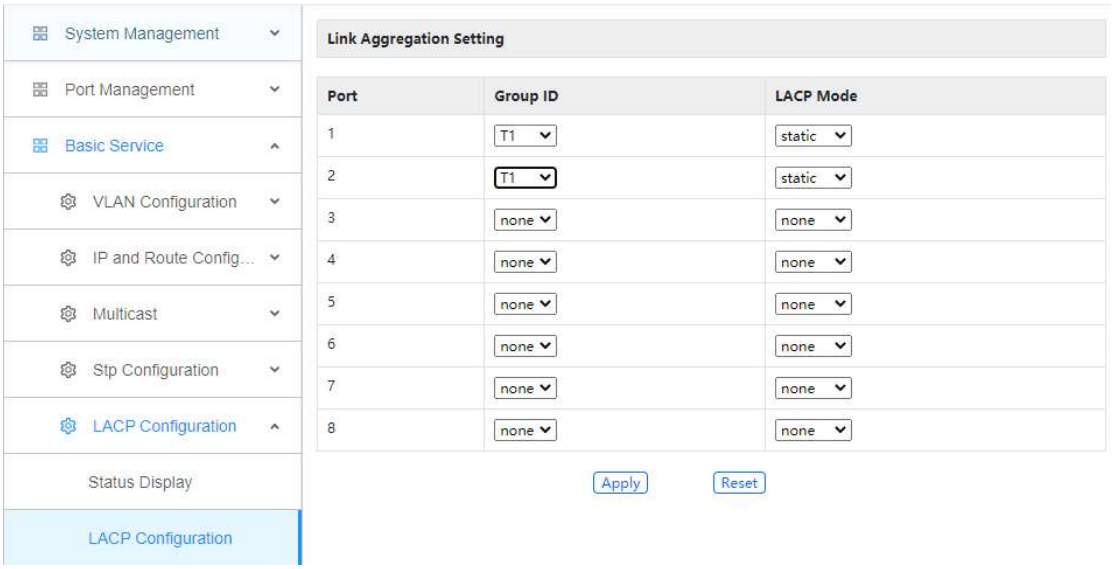


Figure4-11

4.5.3 Protocol Control

1.Click Config->Basic Service->LACP Configuration->Protocol Control
2. This page activates the LACP group and configures the port priority.

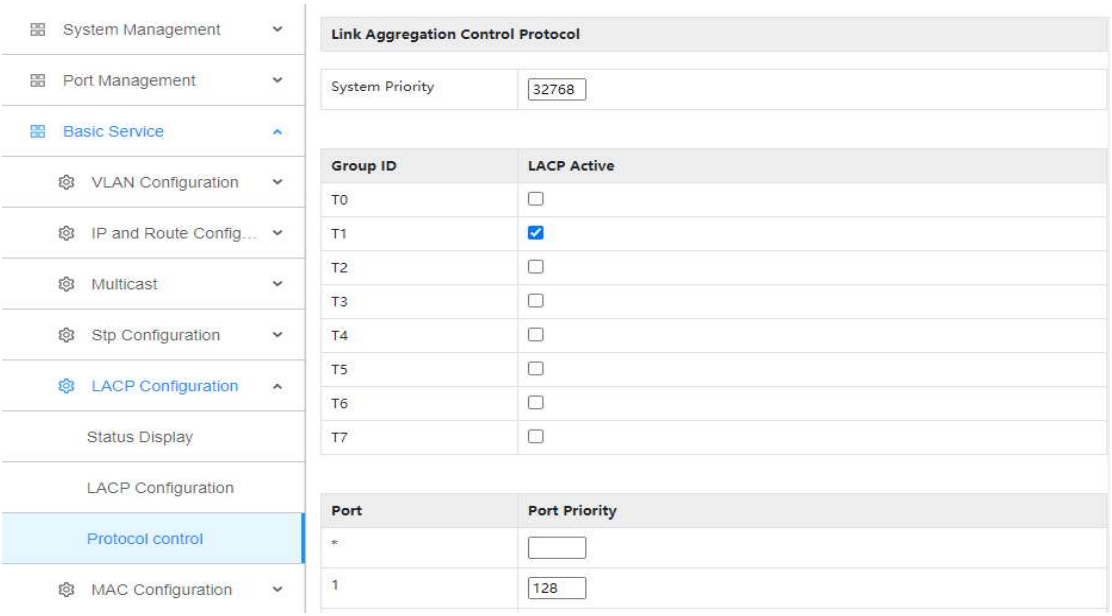


Figure4-12

4.6 MAC Configuration

MAC configuration is used to add and delete port-MAC bind.

4.6.1 Port Binding Display

1.Click Config->Basic Service->MAC Configuration->Port Binding Dispaly
2. This page displays port-MAC binding status information.

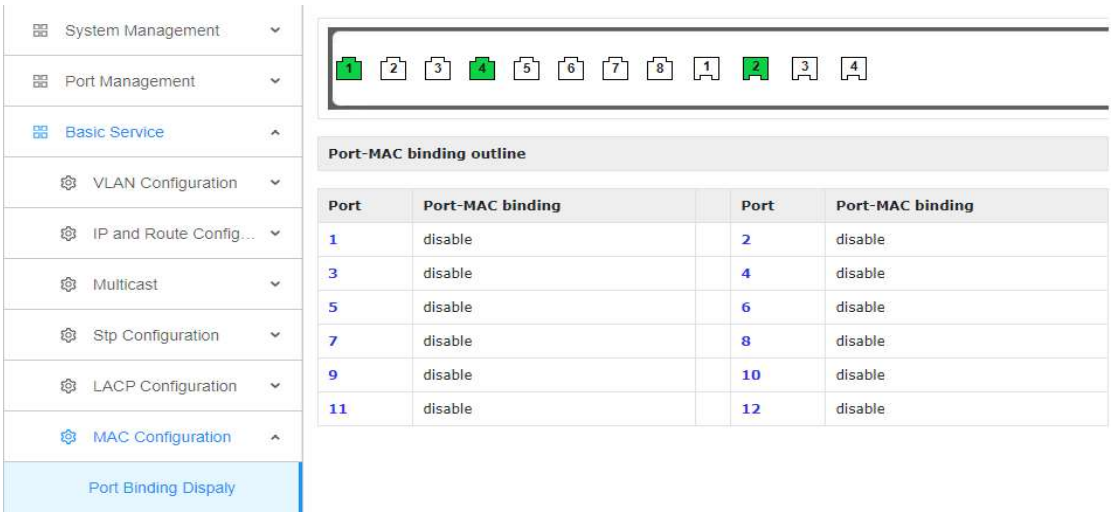


Figure4-13

4.6.2 Port Binding Configuration

1.Click Config->Basic Service->MAC Configuration->Port Binding Configuration
2. This page can configure port-MAC binding

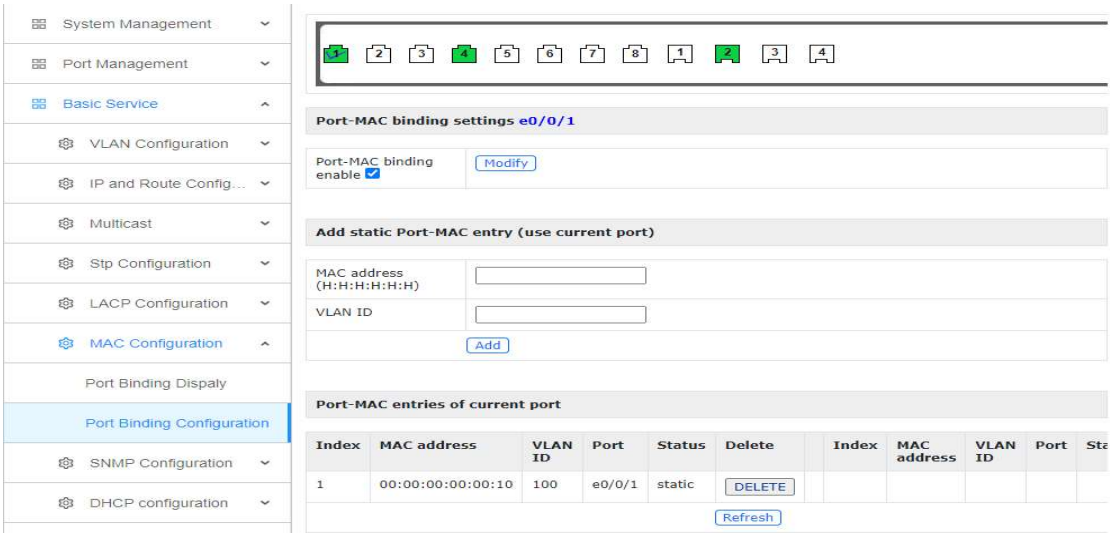


Figure4-14

4.7 SNMP Configuration

SNMP (Simple Network Management Protocol) is a network management standard based on the TCP/IP protocol suite, and is a standard protocol for managing network nodes in an IP network.

4.7.1 Commutity Configuration

1.Click Config->Basic Service->MAC Configuration->Port Binding Configuration
2. This page configures the SNMP community name (the default is iso).

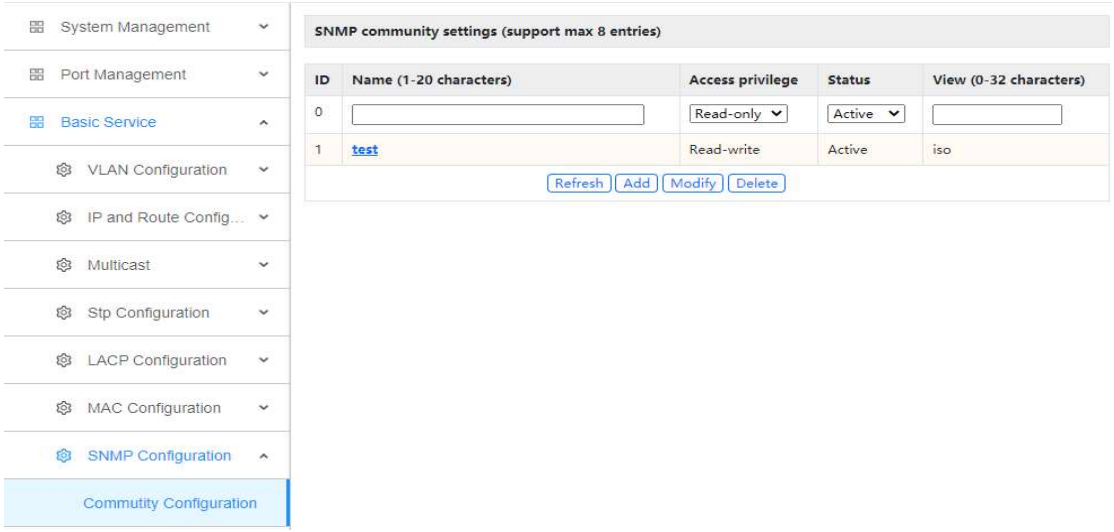


Figure4-15

4.7.2 Trap Configuration

1.Click Config->Basic Service->SNMP Configuration->Trap Configuration
2.This page configures the Trap.

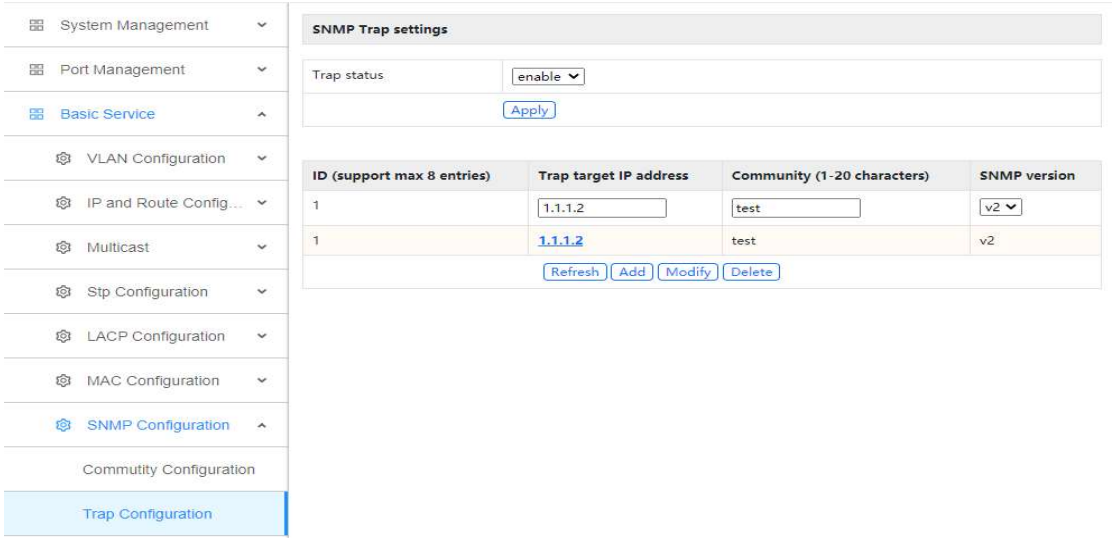


Figure4-16

4.8 DHCP Configuration

4.8.1 DHCPSnooping

1.Click Config->Basic Service->DHCP Configuration->DHCP Snooping->DHCP snooping Setting

2.This page configures DHCP snooping, option82, trust port, etc. After enabling DHCP snooping, the trust port must be configured.

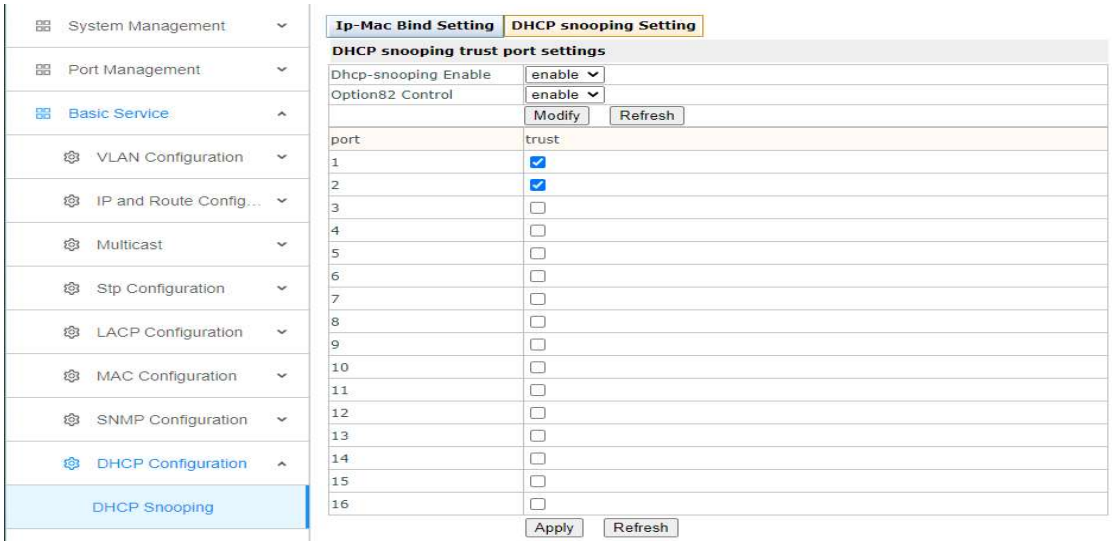


Figure4-17

4.8.2 IP-MAC Bind Setting

1.Click Config->Basic Service->DHCP Configuration->DHCP Snooping

2. This page configures the IP and MAC binding function, this function needs to be used with DHCP snooping

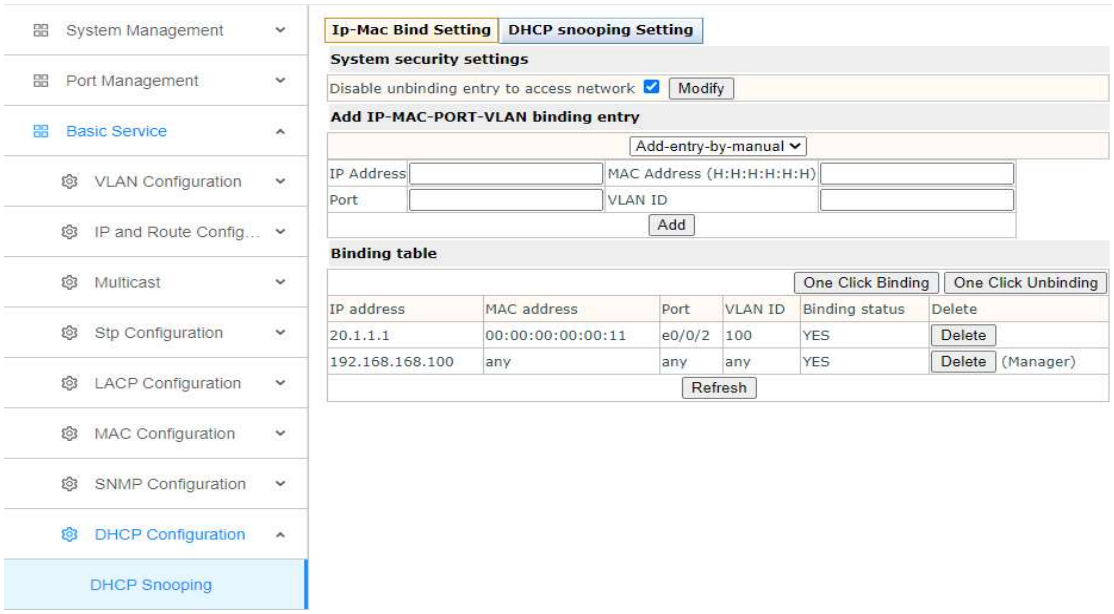


Figure4-18

4.8.3 DHCP Server&Relay

1.Click Config->Basic Service->DHCP configuration->DHCP Server&Relay
2.This page configures DHCP server and relay.

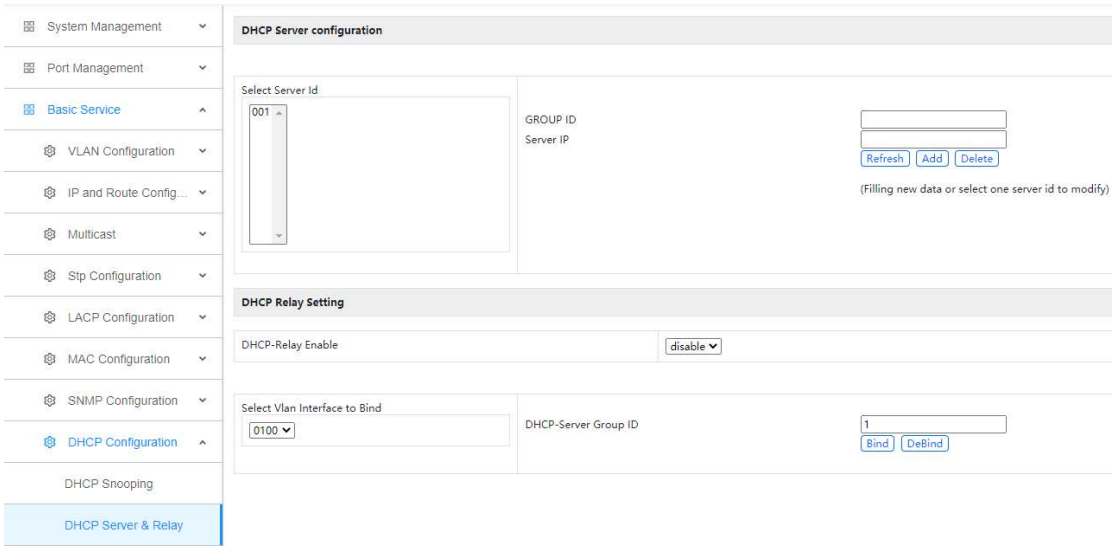


Figure4-19

Chapter 5 Advance Service

Advanced services include configuration of system time and time server.

5.1 System Time

1.Click Config->Advance Service->System Time
2. This page configures the system time and time zone, you can synchronize the local computer time

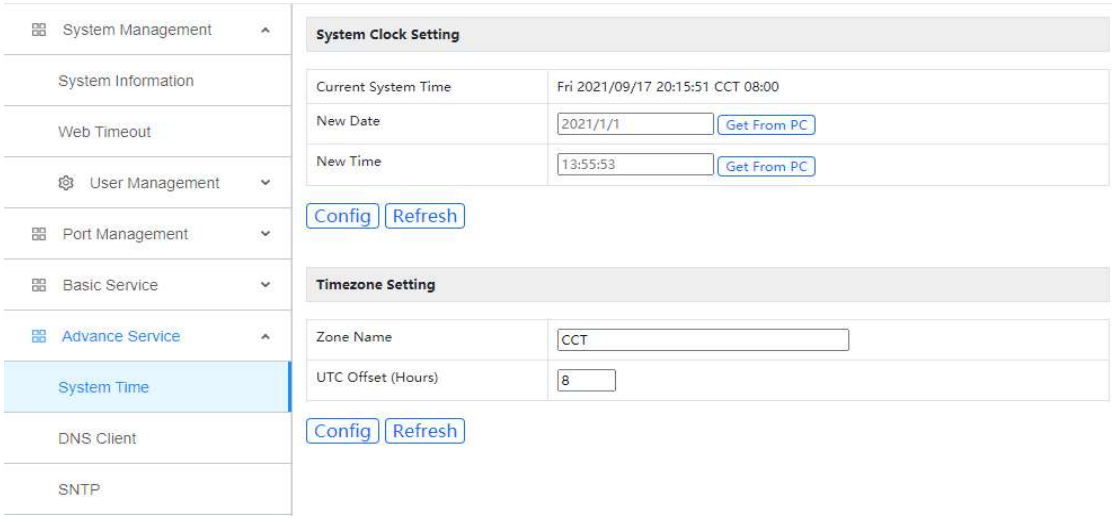


Figure5-1

5.2 DNS Client

1.Click Config->Advance Service->DNSClient
2. This page configures the IP and domain name of the time server (need to be configured in unicast mode).

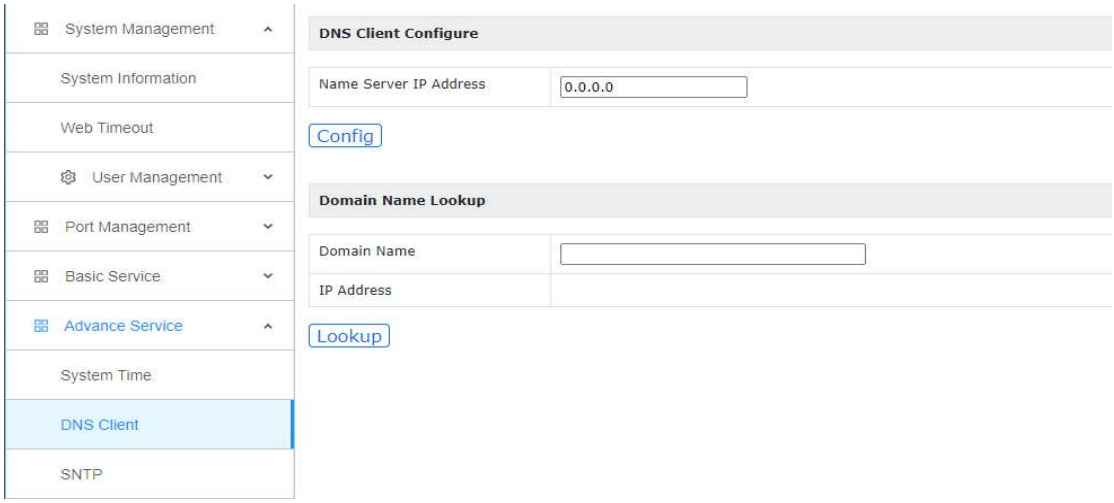


Figure5-2

5.3 SNTP

1.Click Config->Advance Service->SNTP
2.This page configures the SNTP.

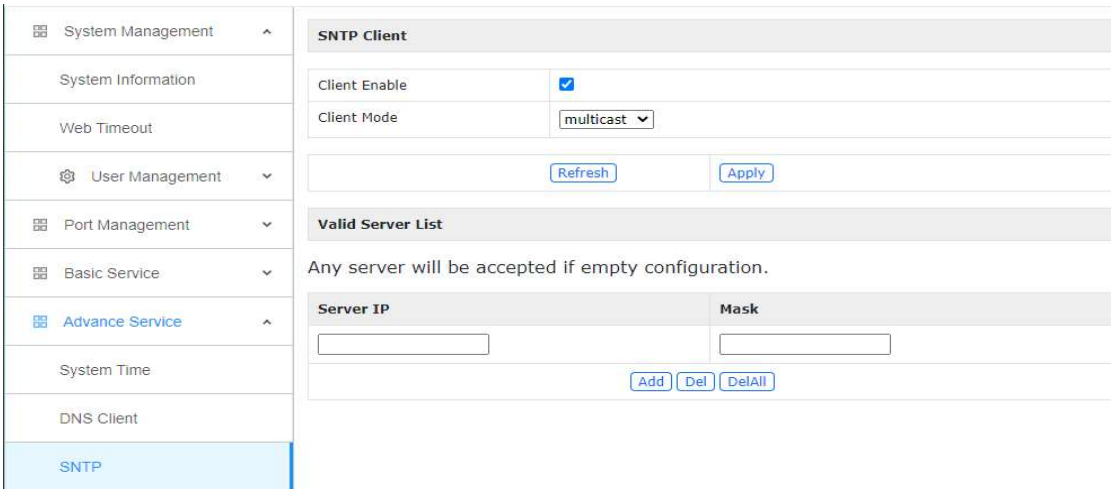


Figure5-3

Chapter 6 EPON Management

6.1 Port Configuration

1.Click Config->EPON Management->Port Configuration
2. This page configures the PON port authentication mode and ONU isolation function, etc. By default, the authentication mode is disable, all ONUs can go online, and ONUs under the same PON port and between PON ports are isolated.

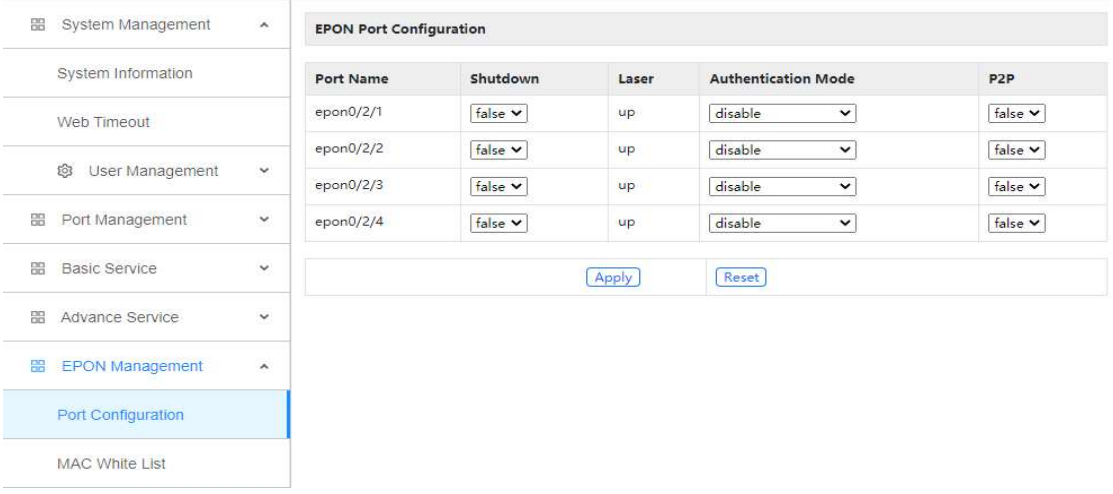


Figure6-1

6.2 MAC White List

1.Click Config->EPON Management->MAC White List

2. This page adds and deletes the MAC whitelist. Only ONUs in the whitelist can go online

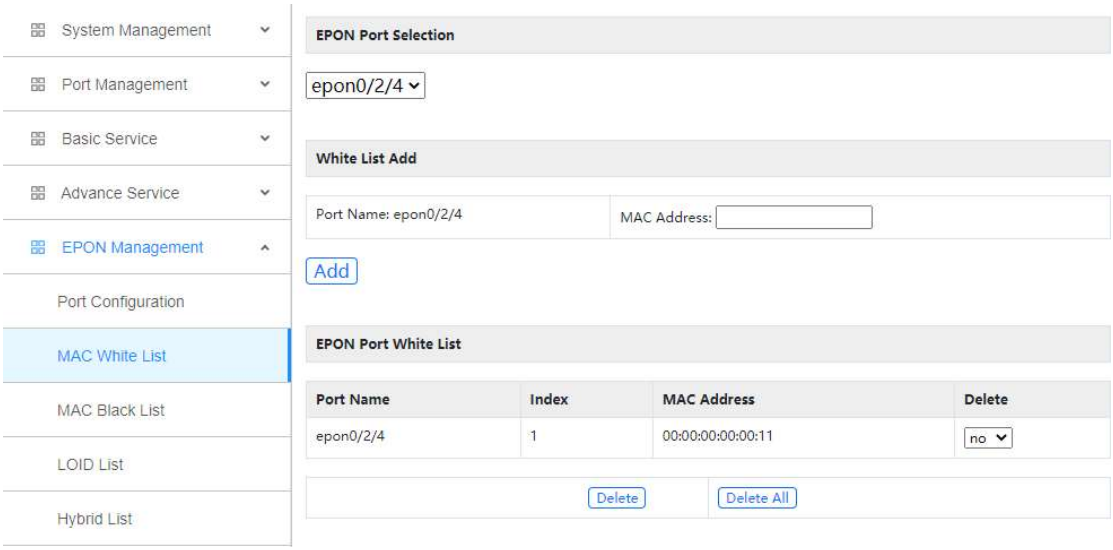


Figure6-2

6.3 MAC Black List

1.Click Config->EPON Management->MAC Black List

2. This page configures the blacklist of the PON port, and all ONUs in the blacklist cannot go online.

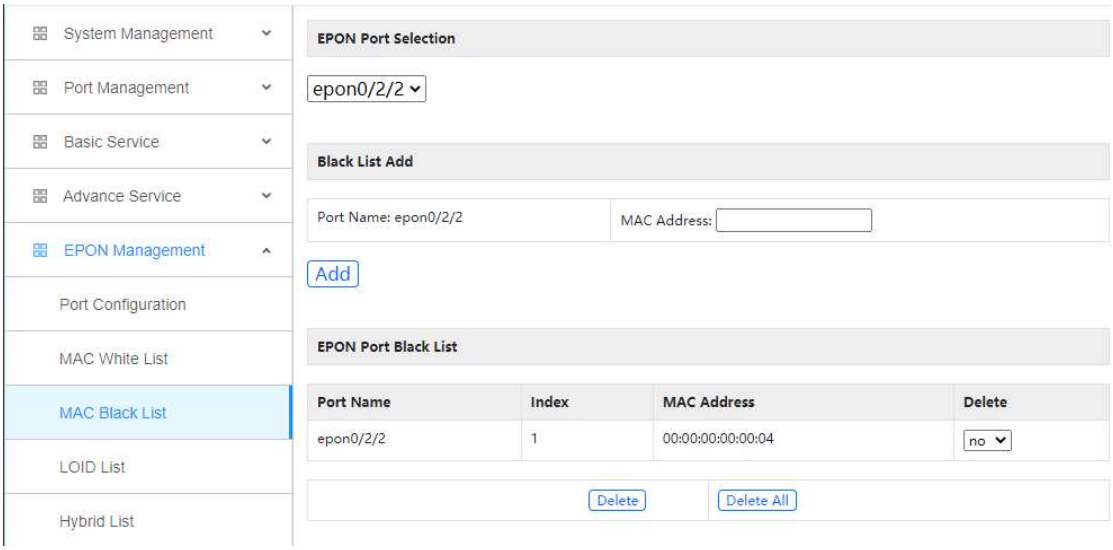


Figure6-3

6.4 LOID List

1.Click Config->EPON Management->LOID List

2. This page configures the LOID list, and only ONUs in the LOID list can go online.

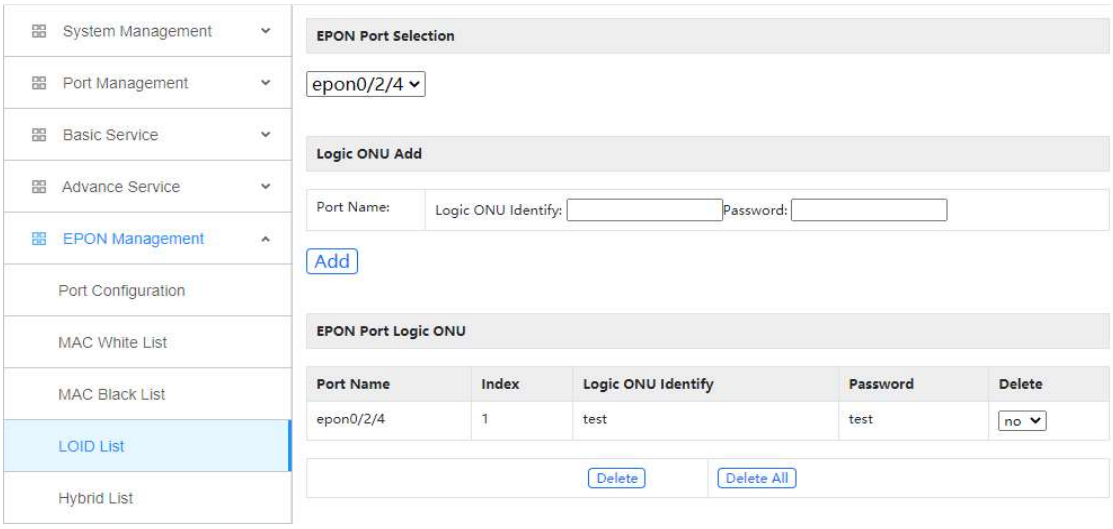


Figure6-4

6.5 Hybrid List

1.Click Config->EPON Management->Hybrid List

2. This page configures the hybrid authentication list, and only ONUs in the hybrid list can go online normally.

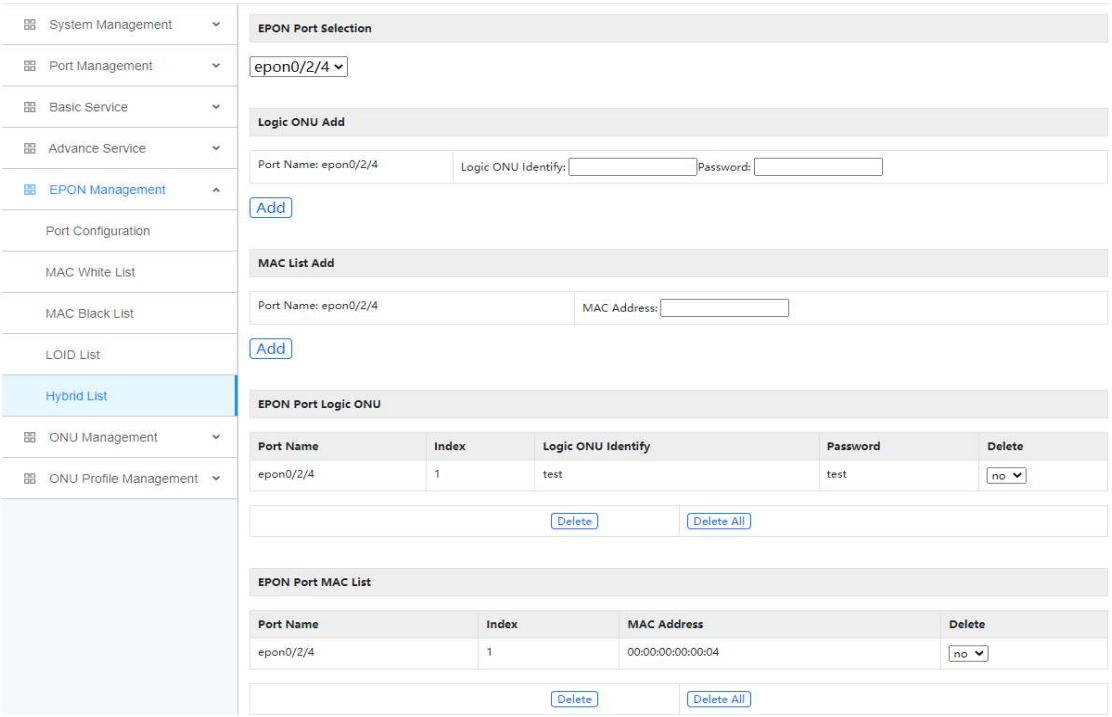


Figure6-5

Chapter 7 ONU Management

7.1 Binding Operation

1.Click Config->ONU Management->Binding Operation
2. This page configures binding and unbinding ONUs, unbinding only operates offline ONUs

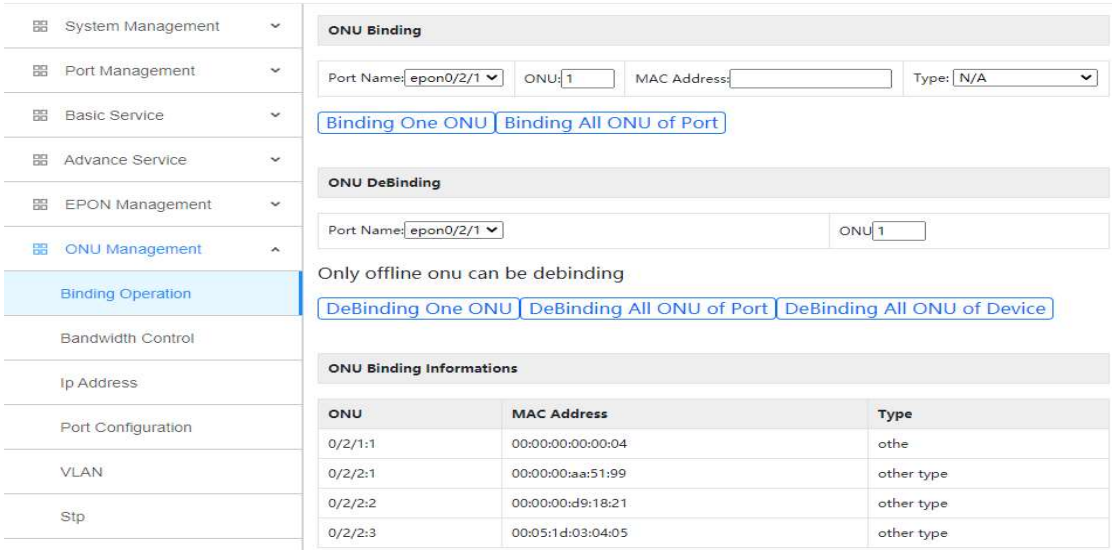


Figure7-1

7.2 Bandwidth Control

1.Click Config->ONU Management->Bandwidth Control
2. This page configures the upstream and downstream bandwidth of the ONU.

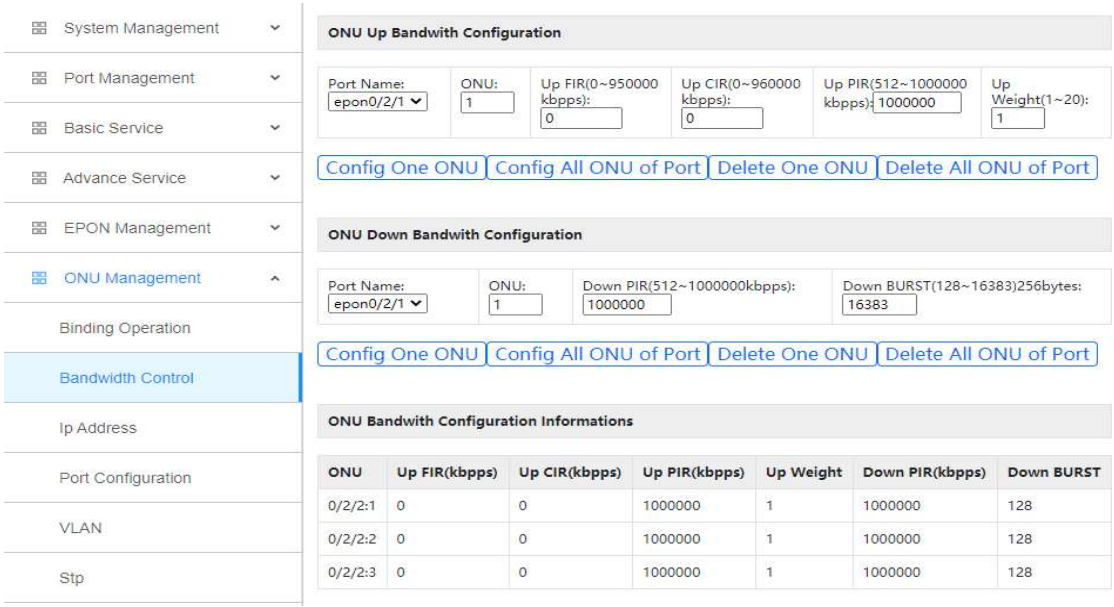


Figure7-2

7.3 IP Address

1.Click Config->ONU Management->Ip Address

2. This page configures the management IP and management VLAN of the ONU.

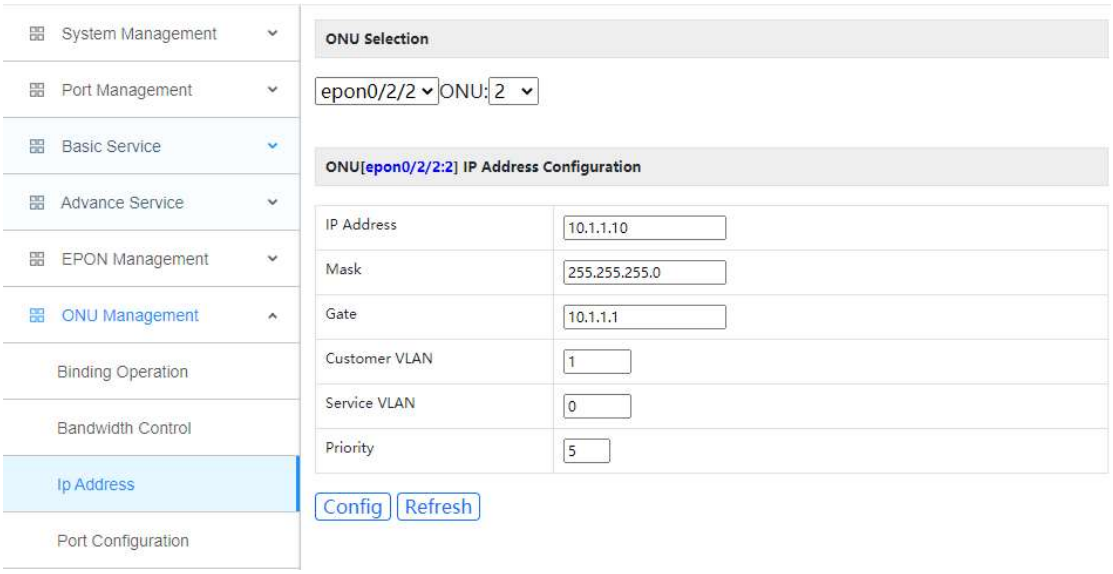


Figure7-3

7.4 Port Configuration

1.Click Config->ONU Management->Port Configuration

2. This page configures ONU flow control, ingress rate and egress rate, etc.

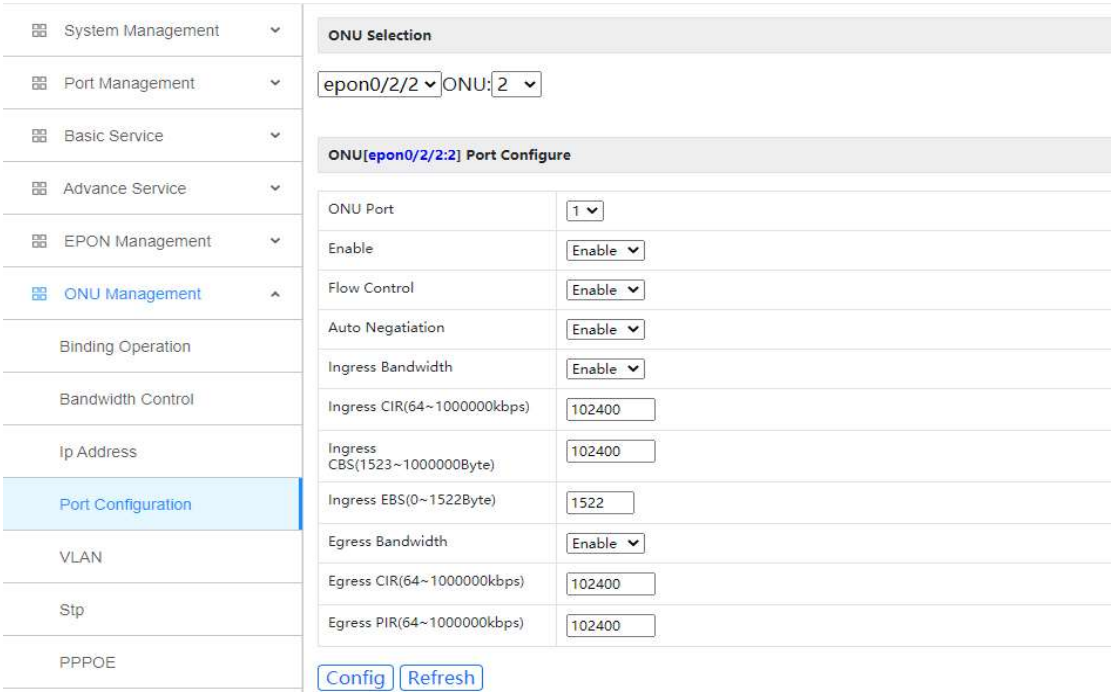


Figure7-4

7.5 VLAN

1.Click Config->ONU Management->VLAN

2. This page configures the CTC VLAN of the ONU port.

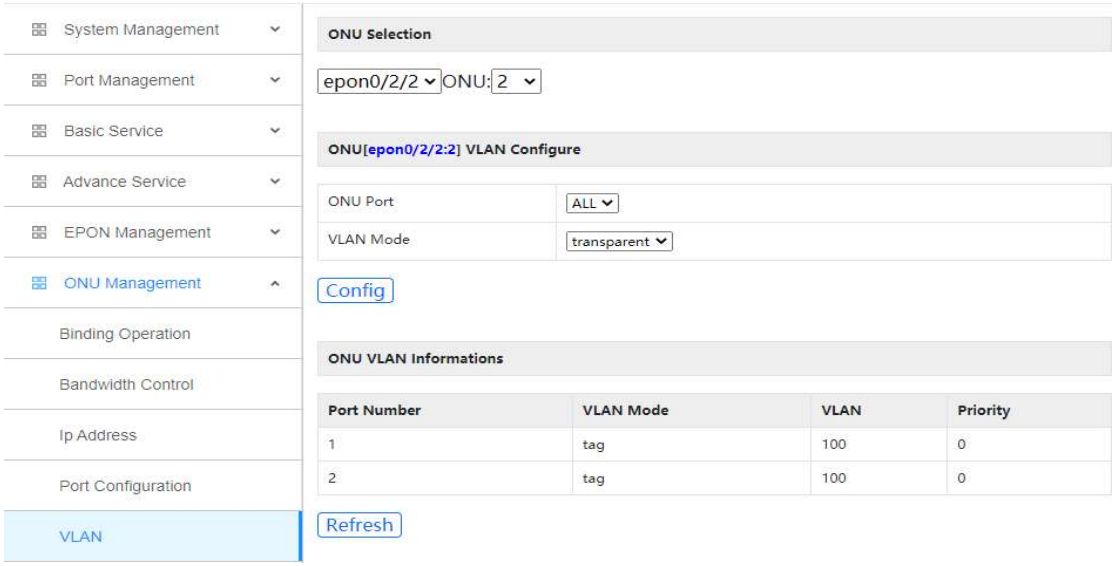


Figure7-5

7.6 STP

1.Click Config->ONU Management->STP

2. This page configures ONU's STP and loop detection functions

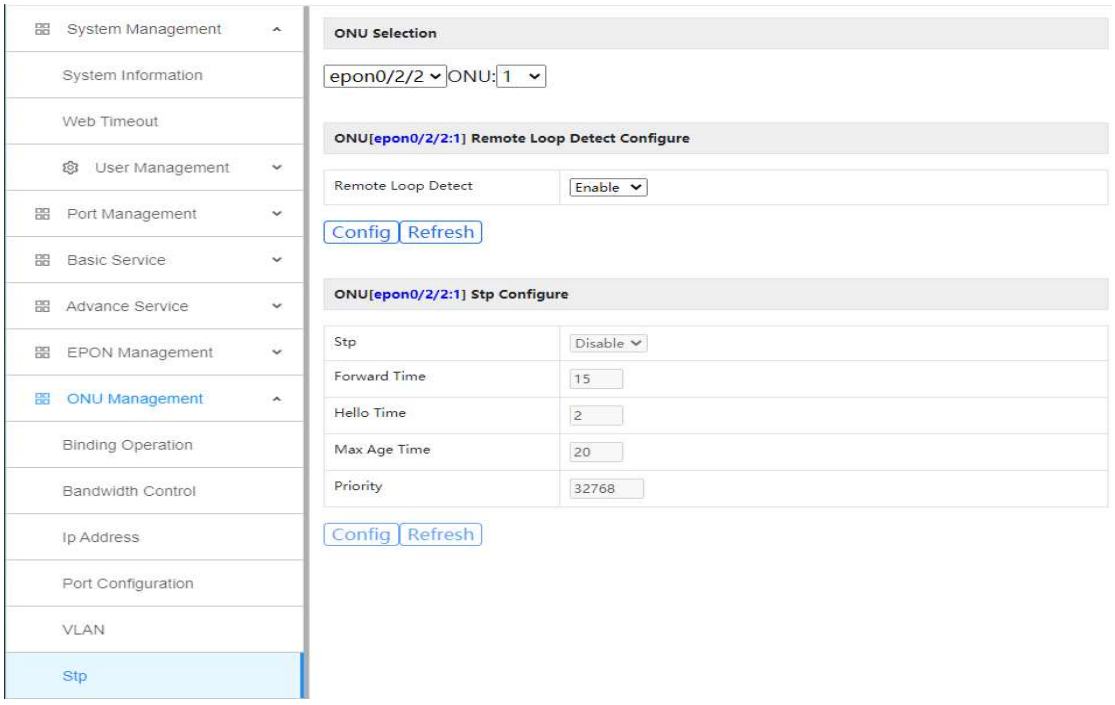


Figure7-6

7.7 PPPOE

1.Click Config->ONU Management->PPPOE

2. This page configures the PPPoE account and password of the ONU. This function needs the support of the ONU.

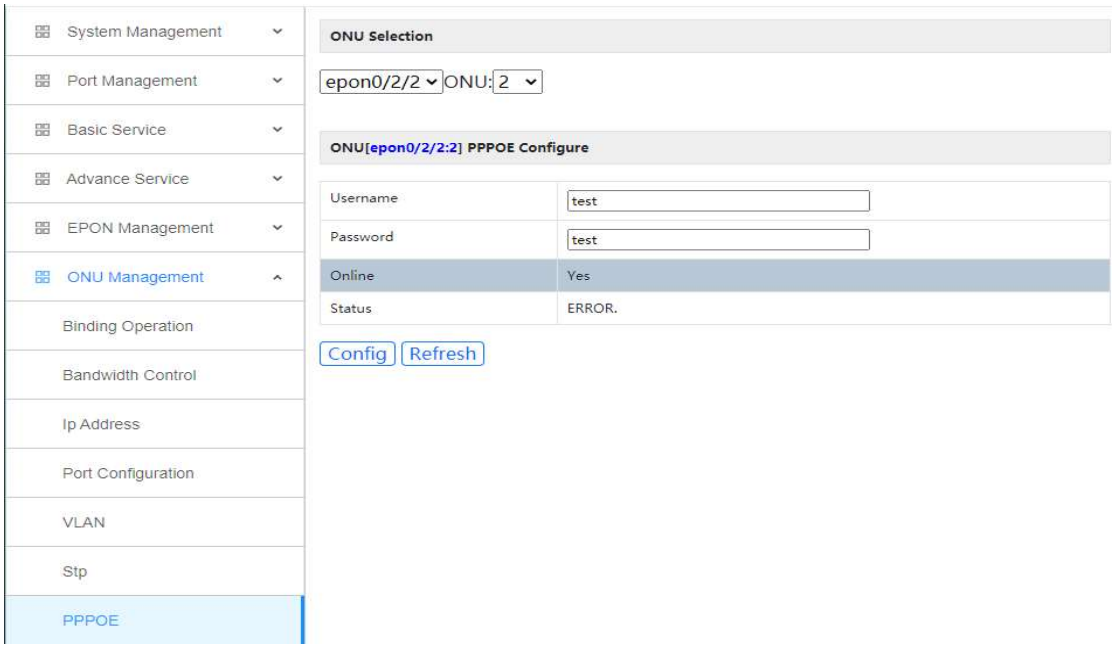


Figure7-7

7.8 WIFI

1.Click Config->ONU Management->WIFI

2. This page configures ONU's WIFI, this function needs ONU support.

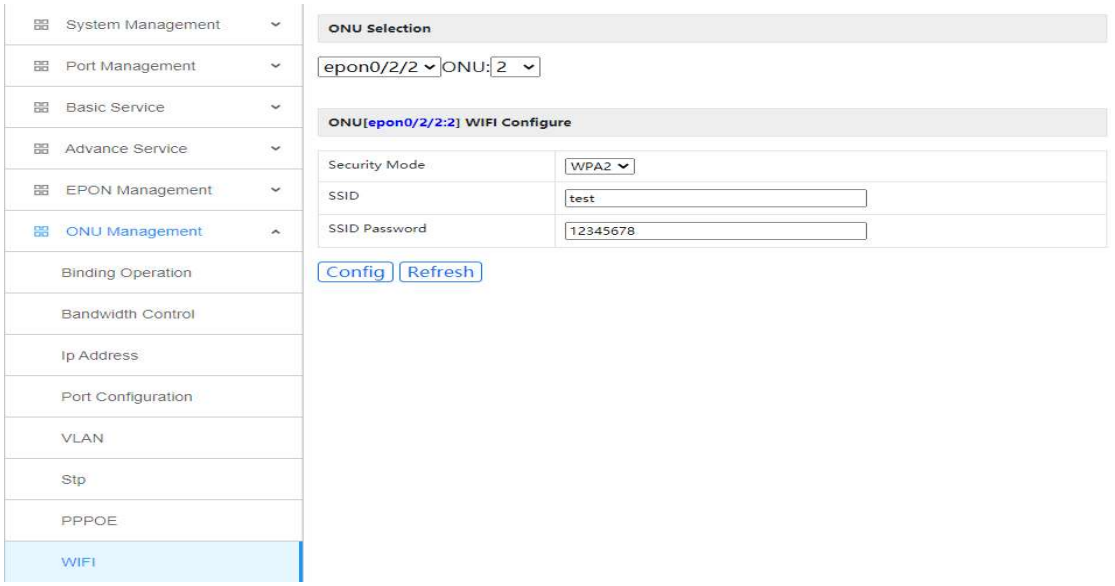


Figure7-8

7.9 CATV

1.Click Config->ONU Management->CATV
2. This page configures the CATV function of the ONU. This function needs the support of the ONU.

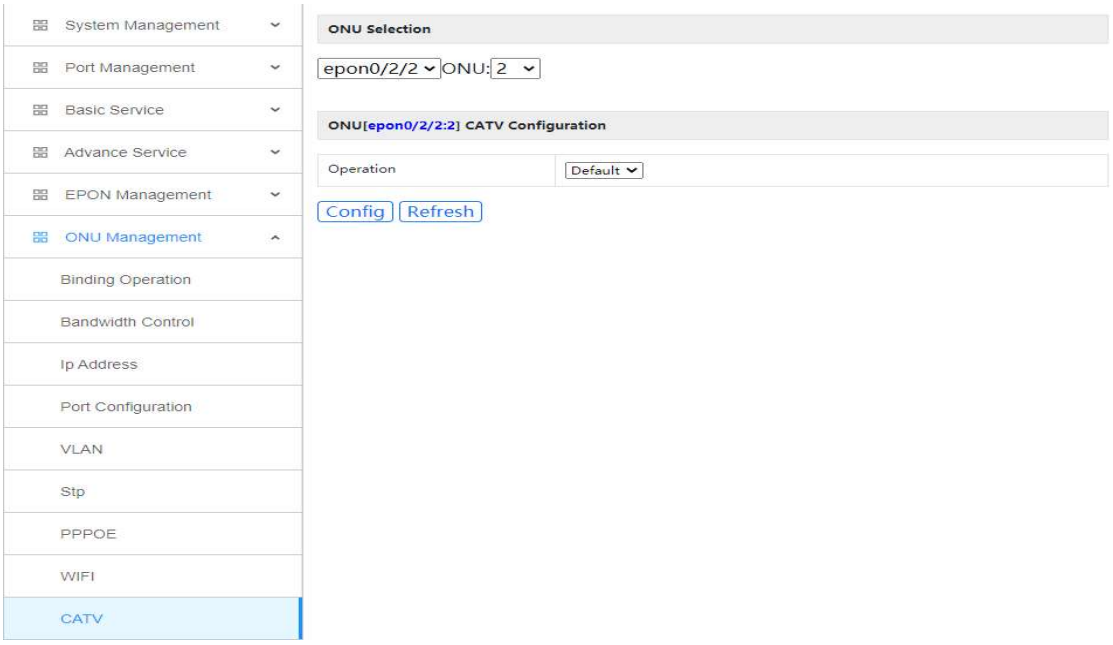


Figure7-9

Chapter 8 ONU Profile Management

ONU profile management is used to configure ONUs in batches, line profileare used to configure ONUs, and rule profile are used to deliver the configuration of line profile to match ONUs.

8.1 Line Profile Management

1.Click Config->ONU Profile Management->Line Profile Management
2.This page configures add , modify and delete line profile.

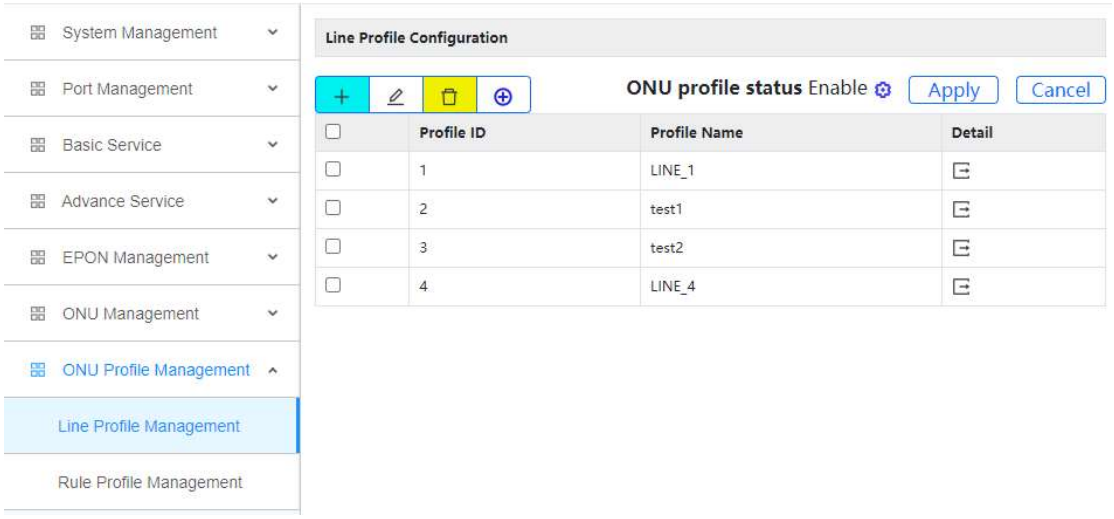


Figure8-1

8.1.1 DBA Configuration

1.Click Config->ONU Profile Management->Line Profile Management->Detail->DBA Configuration

2.This page configures the ONU upstream and downstream bandwidth of the line profile.

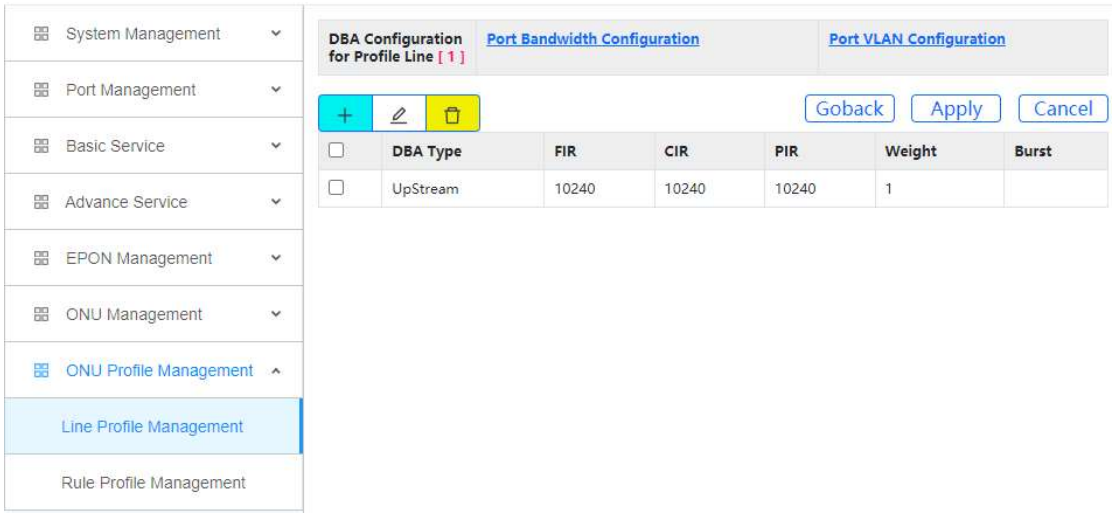


Figure 8-2

8.1.2 Port Bandwidth Configuration

1.Click Config->ONU Profile Management->Line Profile Management->Detail->Port Bandwidth Configuration

2.This page configures the ONU port bandwidth of the line profile.

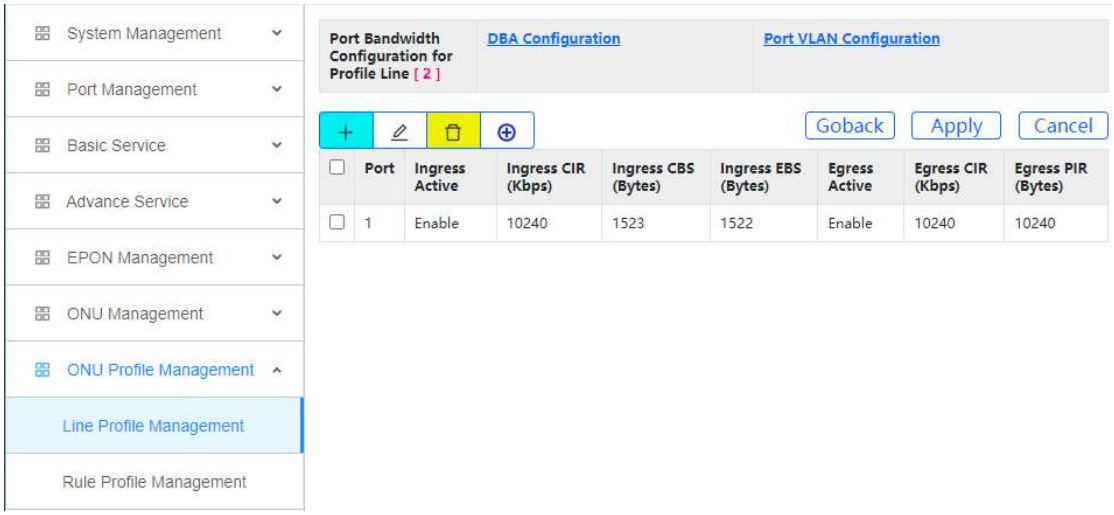


Figure8-3

8.1.3 Port VLAN Configuration

1.Click Config->ONU Profile Management->Line Profile Management->Detail->Port VLAN Configuration

2. This page configures the VLAN of the ONU port in the line profile.

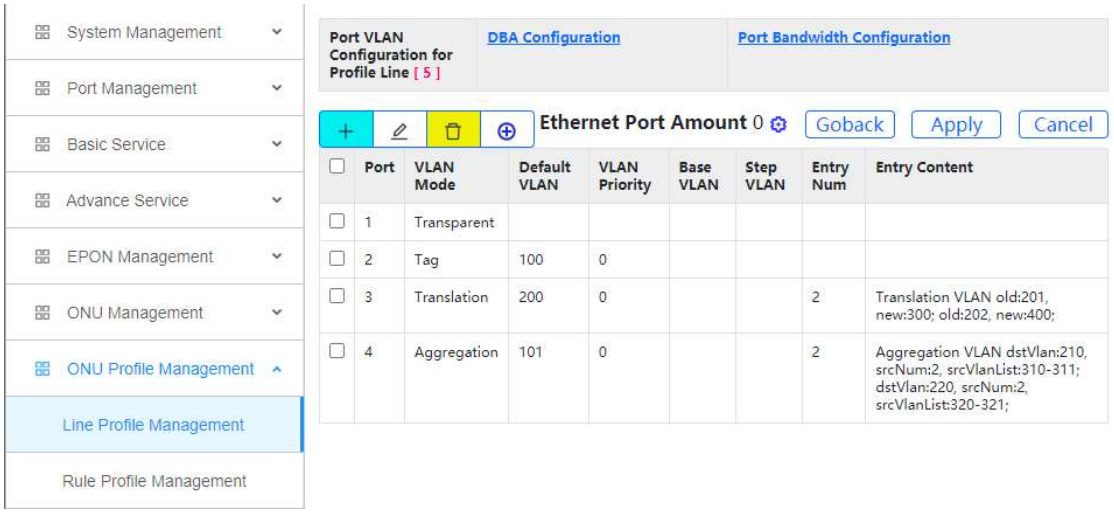


Figure8-4

8.2 Rule Profile Management

1.Click Config->ONU Profile Management->Rule Profile Management

2, This page configures add, modify, and delete rule profile.

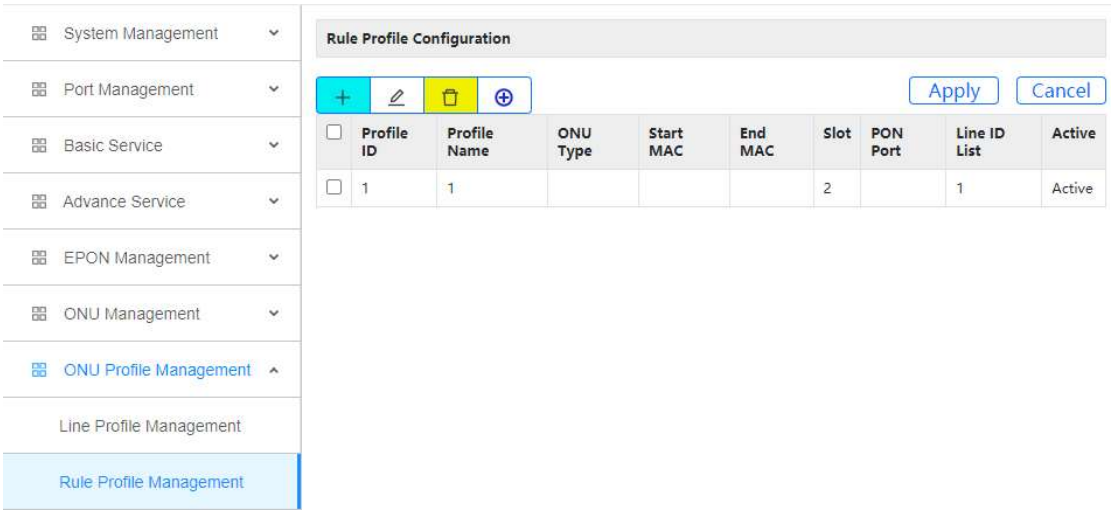


Figure8-5

Chapter 9 Maintain

9.1 Software Upgrading

1.Click Maintain->Software Upgrading

2. This page upgrades the OLT version. You can choose to upgrade the boot and host files. After the upgrade, restart the OLT to take effect.

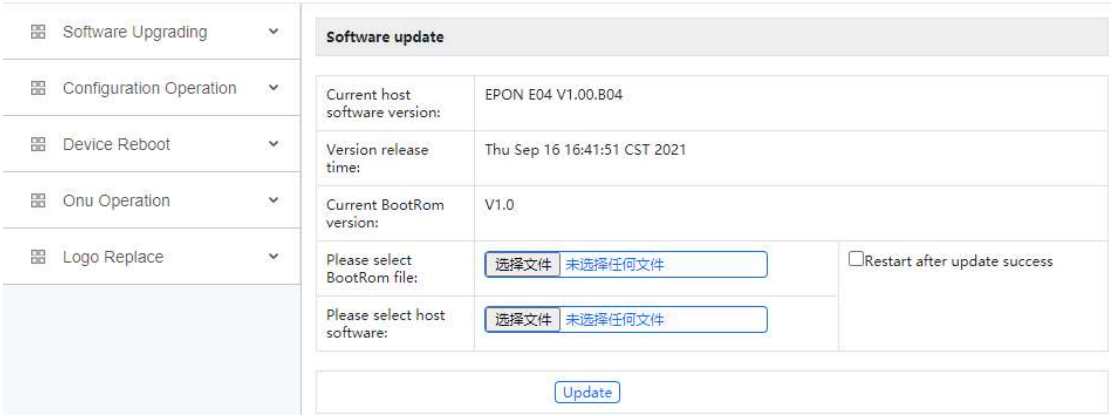


Figure 9-1

9.2 Configuration Operation

Configuration operations include upload, download and save configuration.

9.2.1 Configuration Update

1.Click Maintain->Configuration Operation->Configuration Update
2. This page uploads the configuration file to the OLT and saves the configuration file from the device to the PC.

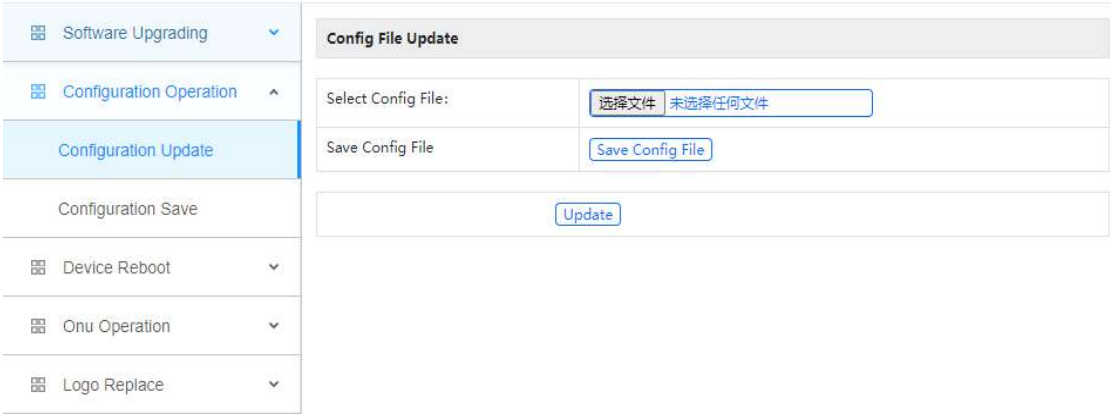


Figure9-2

9.2.2 Configuration Save

1.Click Maintain->Configuration Operation->Configuration Save
2. This page saves the OLT configuration file to the flash.

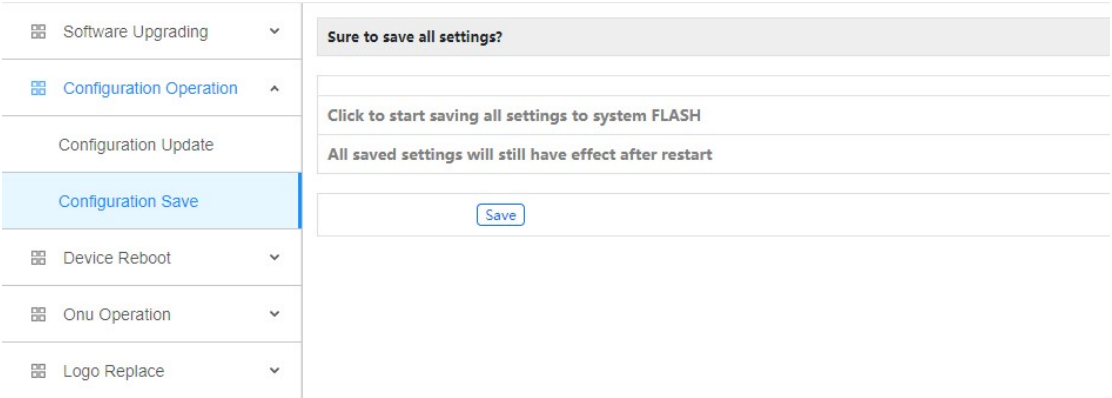


Figure9-3

9.3 Device Reboot

1.Click Maintain->Device Reboot
2. This page restarts the OLT.

Figure9-4

9.4 ONU Operation

ONU operations include upgrade the ONU and restart the ONU.

9.4.1 ONU Upgrade

1.Click Maintain->ONU Operation->ONU Upgrade
2. This page upgrades a single ONU.

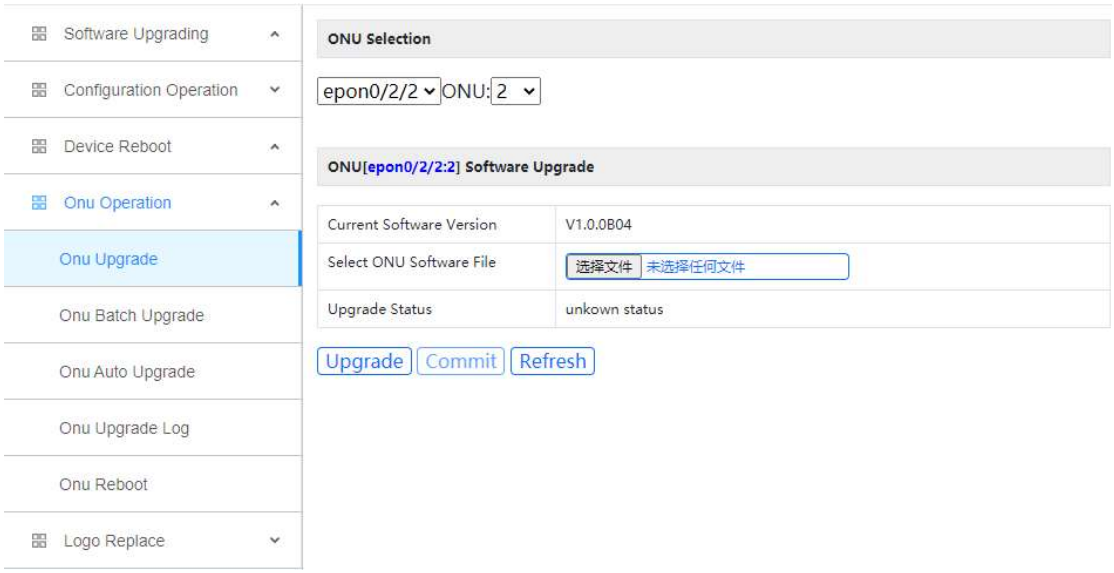


Figure9-5

9.4.2 ONU Batch Upgrade

1.Click Maintain->Onu Operation->ONU Batch Upgrade
2. This page configures ONU batch upgrade. The ONU upgrade file must be uploaded to the OLT, and then the matching ONU will be upgraded by the OLT.

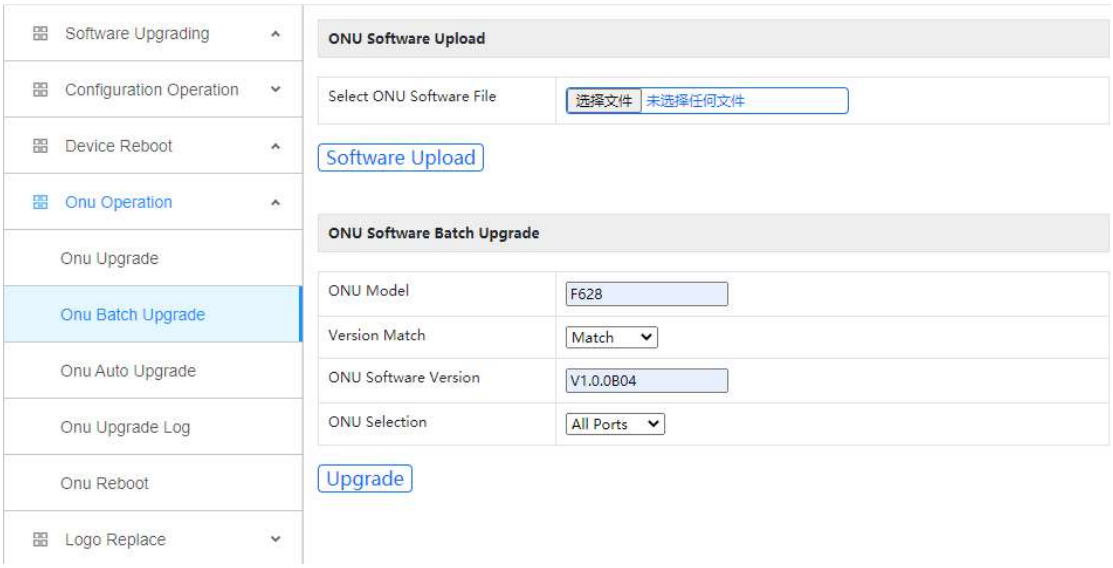


Figure9-6

9.4.3 ONU Auto Upgrade

1.Click Maintain->Onu Operation->ONU Auto Upgrade

2. This page configures ONU automatic upgrade.

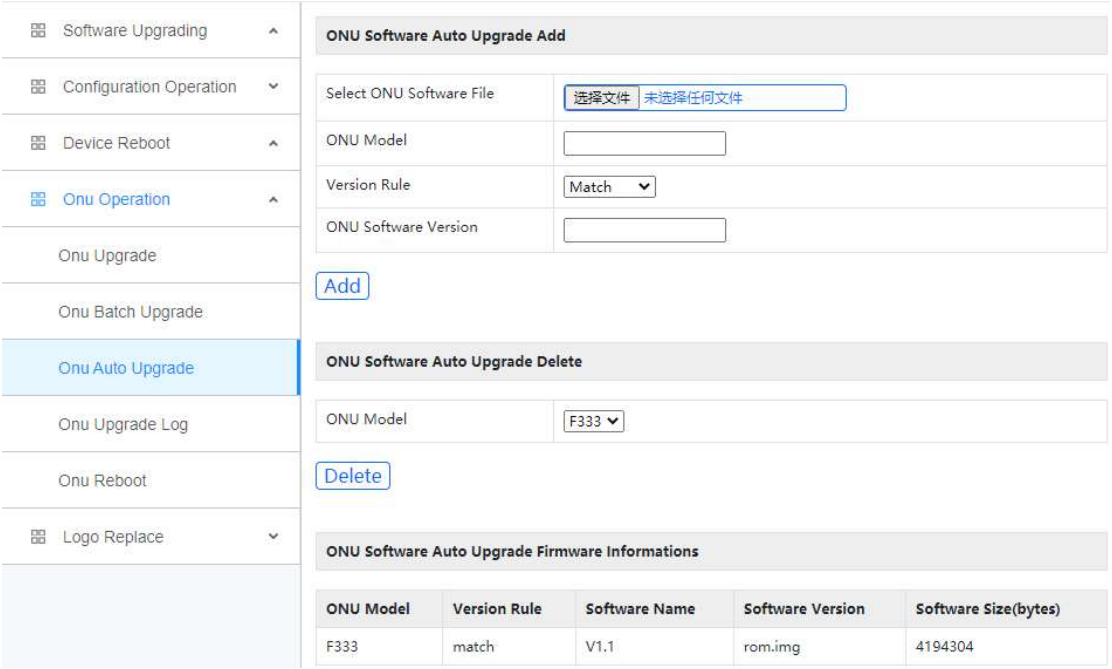


Figure9-7

9.4.4 ONU Upgrade Log

1.Click Maintain->Onu Operation->ONU Upgrade Log

2. This page displays the upgrade logs of all ONUs.

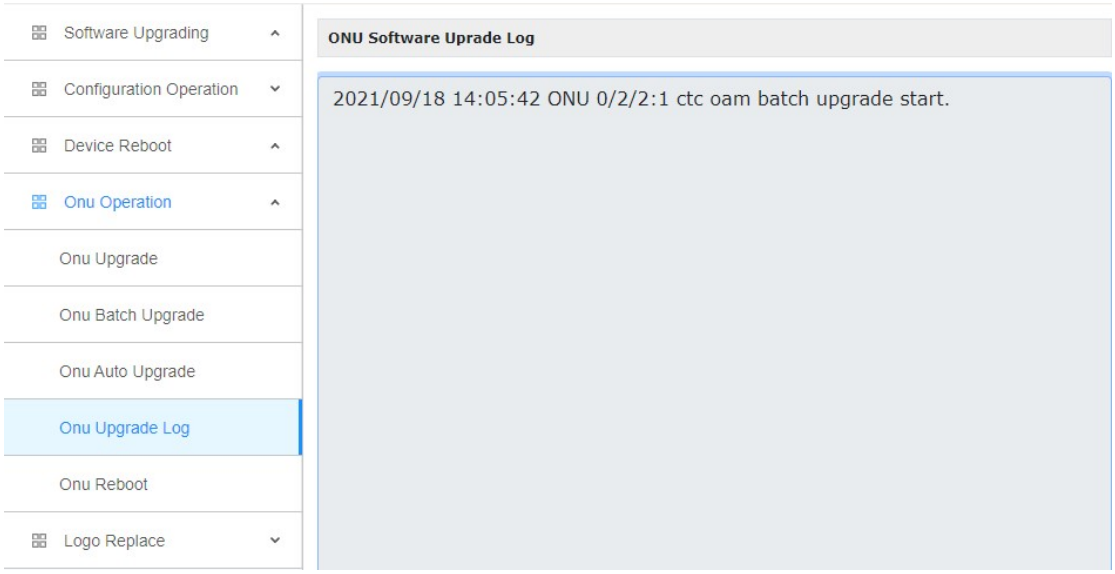


Figure9-8

9.4.5 ONU Reboot

1.Click Maintain->Onu Operation->ONU Reboot

2. This page restarts a single ONU or batches of ONUs.

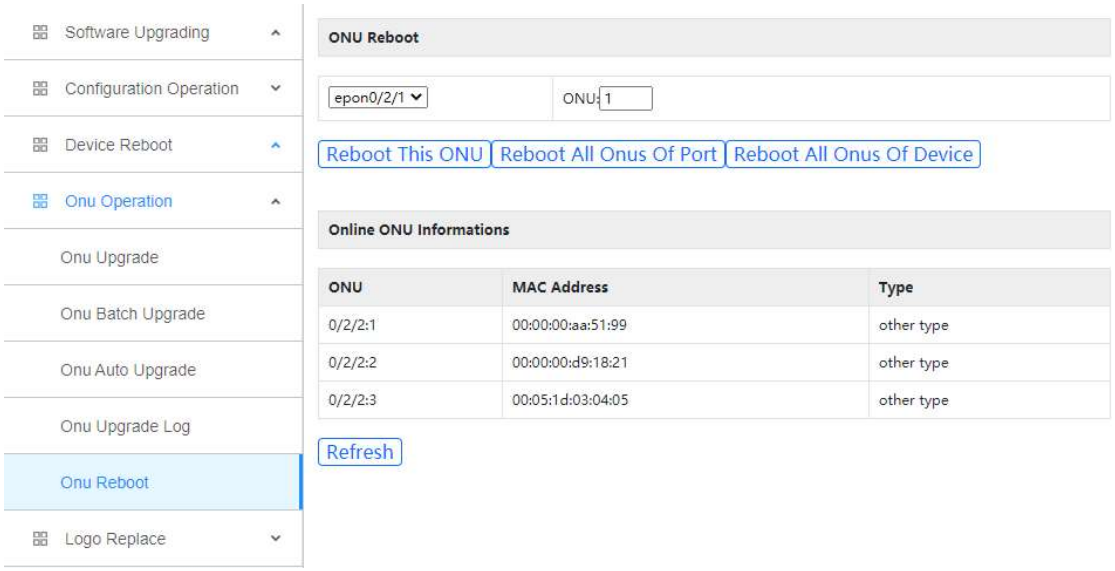


Figure9-9

9.5 Logo Replace

1. Maintain->Logo Replace

2. This page replaces the logo information of the WEB page. After uploading the new logo, restart the browser and clear the cache.

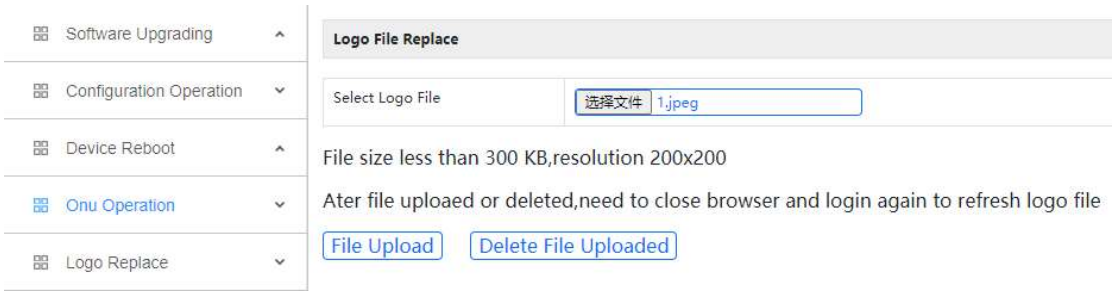

Software Upgrading
Configuration Operation
Device Reboot
Onu Operation
Logo Replace
Logo File Replace
Select Logo File
选择文件
1.jpeg
File size less than 300 KB,resolution 200x200
Ater file uploaed or deleted,need to close browser and login again to refresh logo file
File Upload
Delete File Uploaded

Figure9-10