

XG(S)PON OLT WEB USER MANUAL

Version：V1.1
Release Date 2022-10-24

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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.



Figure 1-1

1.1.2 Device Information

1. Click Monitor-> System Information-> Device Information
2. This page displays information such as product description, hardware version, software version, and MAC address.XG(S)PON OLT is compatible with GPON ONU when combined with the combo optical module.

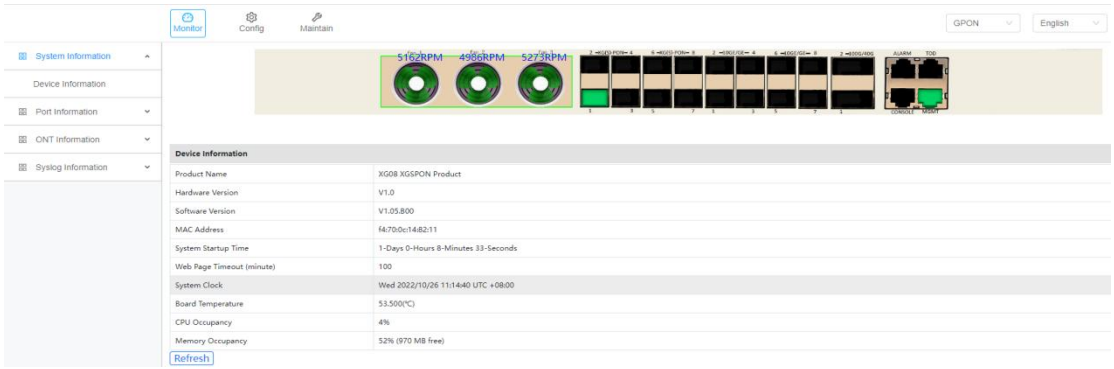


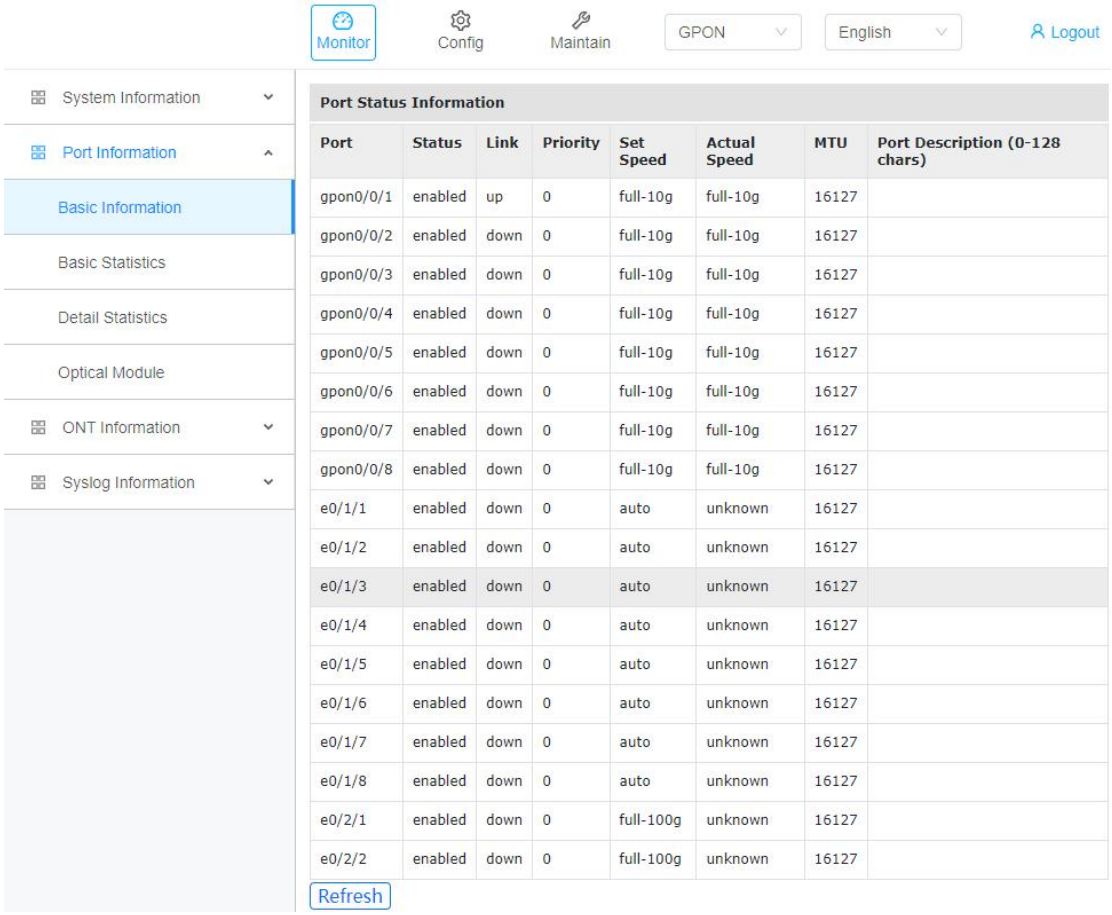
Figure 1-2

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	Status	Link	Priority	Set Speed	Actual Speed	MTU	Port Description (0-128 chars)
gpon0/0/1	enabled	up	0	full-10g	full-10g	16127	
gpon0/0/2	enabled	down	0	full-10g	full-10g	16127	
gpon0/0/3	enabled	down	0	full-10g	full-10g	16127	
gpon0/0/4	enabled	down	0	full-10g	full-10g	16127	
gpon0/0/5	enabled	down	0	full-10g	full-10g	16127	
gpon0/0/6	enabled	down	0	full-10g	full-10g	16127	
gpon0/0/7	enabled	down	0	full-10g	full-10g	16127	
gpon0/0/8	enabled	down	0	full-10g	full-10g	16127	
e0/1/1	enabled	down	0	auto	unknown	16127	
e0/1/2	enabled	down	0	auto	unknown	16127	
e0/1/3	enabled	down	0	auto	unknown	16127	
e0/1/4	enabled	down	0	auto	unknown	16127	
e0/1/5	enabled	down	0	auto	unknown	16127	
e0/1/6	enabled	down	0	auto	unknown	16127	
e0/1/7	enabled	down	0	auto	unknown	16127	
e0/1/8	enabled	down	0	auto	unknown	16127	
e0/2/1	enabled	down	0	full-100g	unknown	16127	
e0/2/2	enabled	down	0	full-100g	unknown	16127	

Figure 1-3

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.

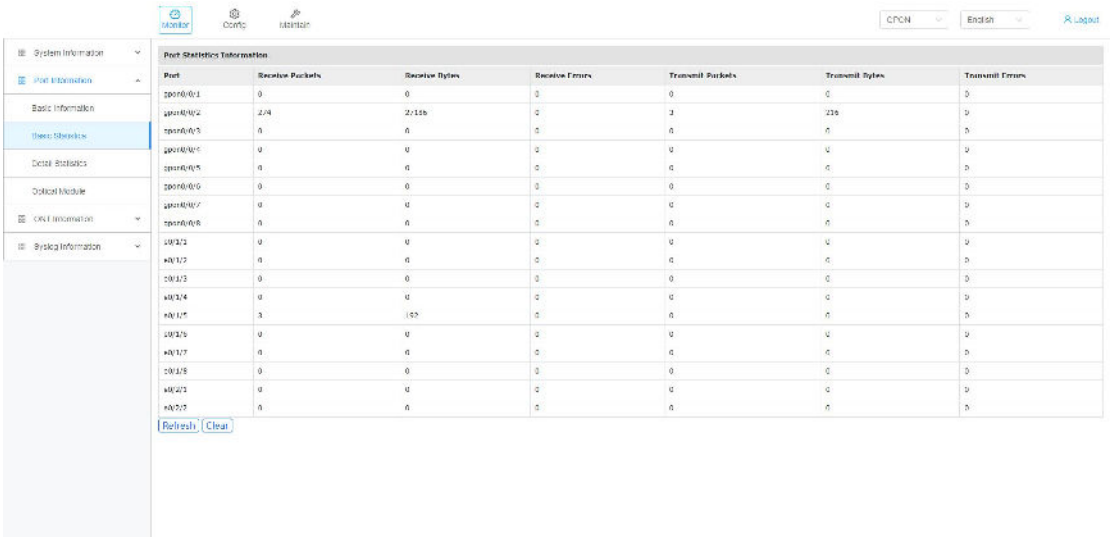


Figure 1-4

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.

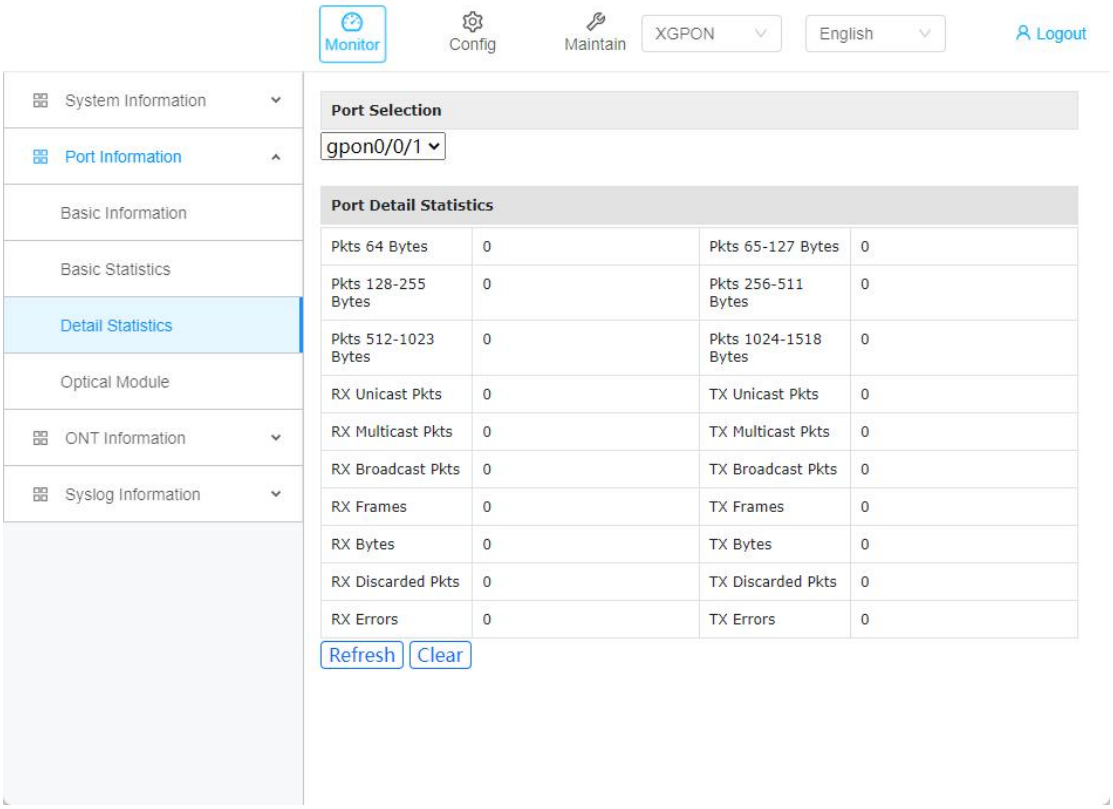


Figure 1-5

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.You can view the DDM information of GPON and XGPON from the drop-down box in the upper right corner.

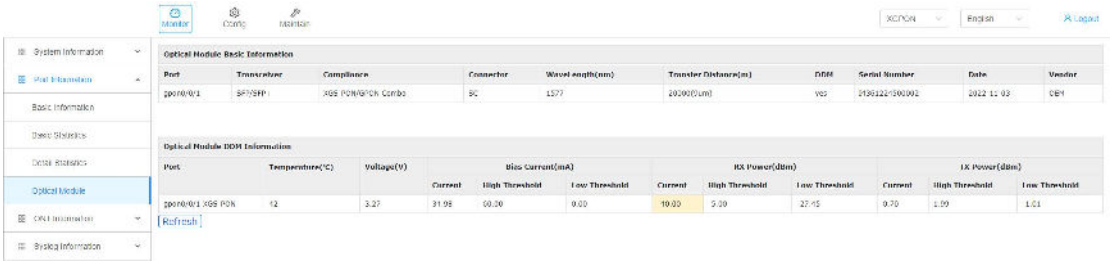


Figure 1-6

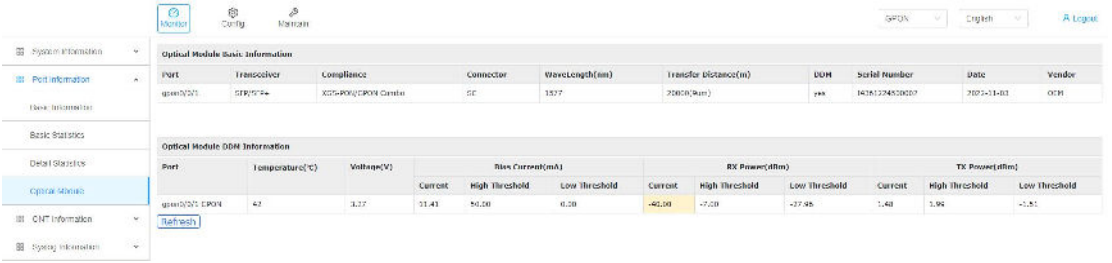


Figure 1-7

1.3 ONT Status

1. Click Monitor->ONT information->ONT Status
2. This page is used to view the status information of ONT registered on OLT.

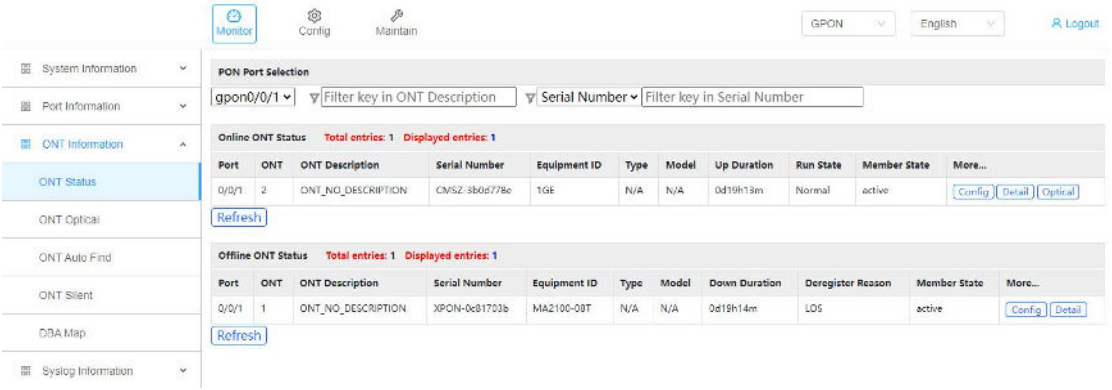


Figure 1-8

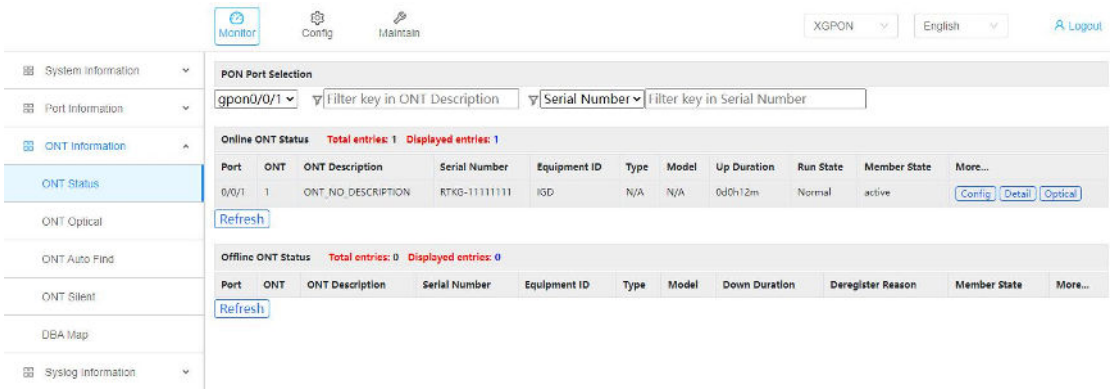


Figure 1-9

1.3.1 Overview

1. Click Monitor->ONT information->ONT Status->Detail->Overview
2. This page displays ONT's Description, Run state and Distance, etc.

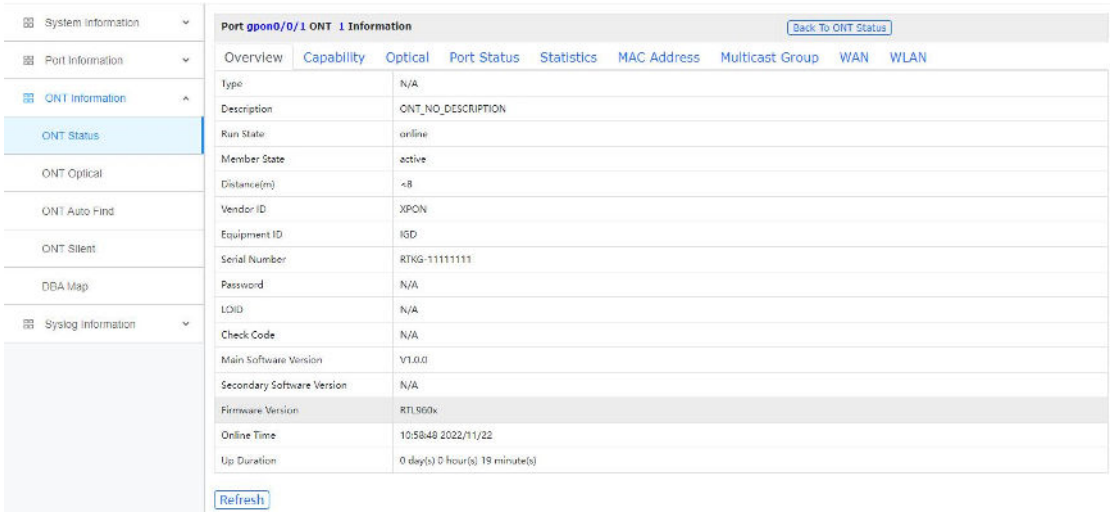


Figure 1-10

1.3.2 Capability

1. Click Monitor->ONT information->ONT Status->Detail->Capability
2. This page displays ONT's capability information.

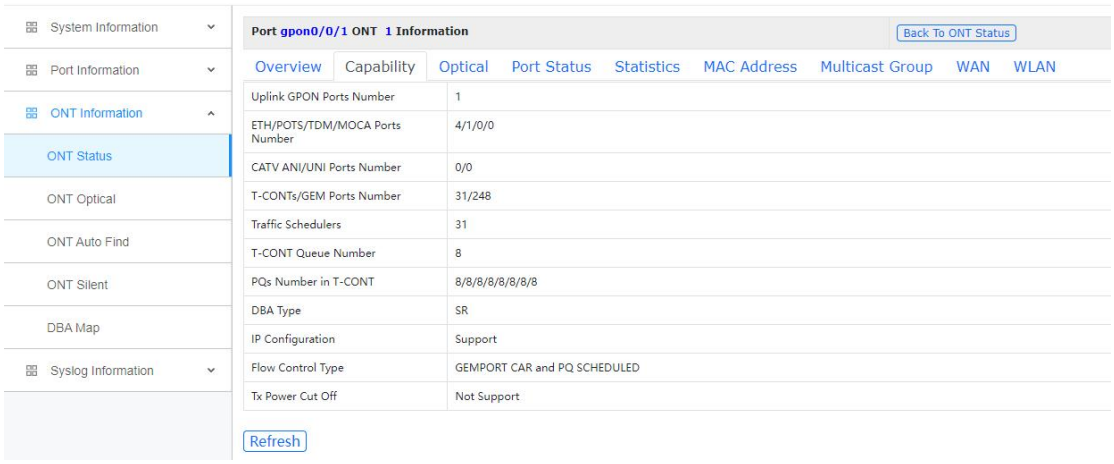


Figure 1-11

1.3.3 Optical

1. Click Monitor->ONT information->ONT Status->Detail->Optical
2. This page displays ONT's optical module power information.

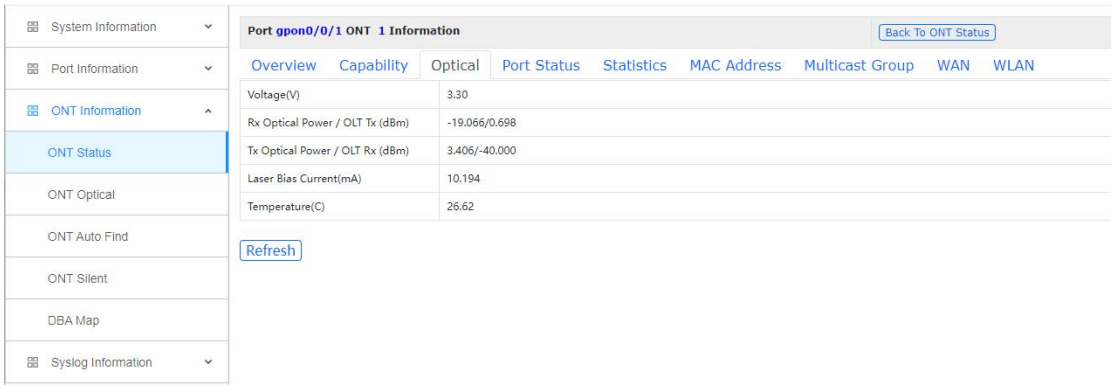


Figure 1-12

1.3.4 Port Status

1. Click Monitor->ONT information->ONT Status->Detail->Port Status
2. This page displays ONT's ethernet port operation state and link state, etc.

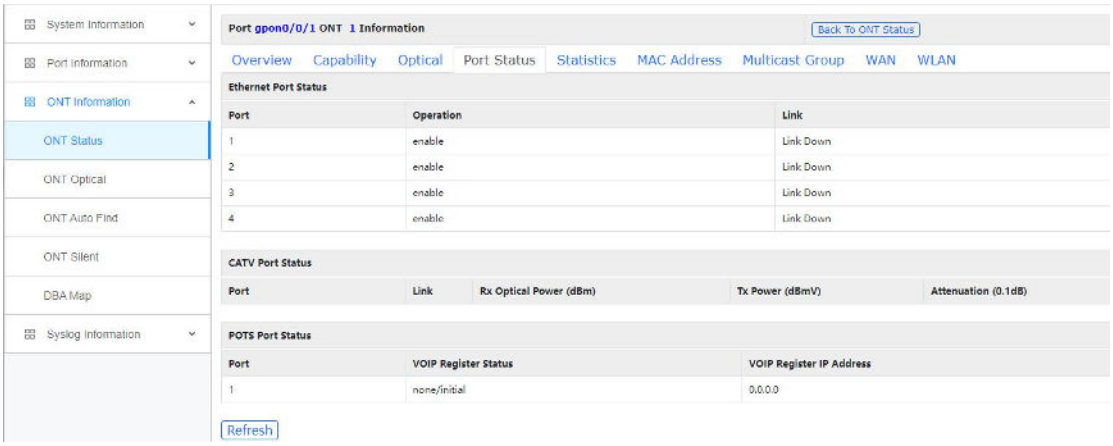


Figure 1-13

1.3.5 Statistics

1. Click Monitor->ONT information->ONT Status->Detail->Statistics
2. This page displays ONT's ethernet and GEM traffic statistics.

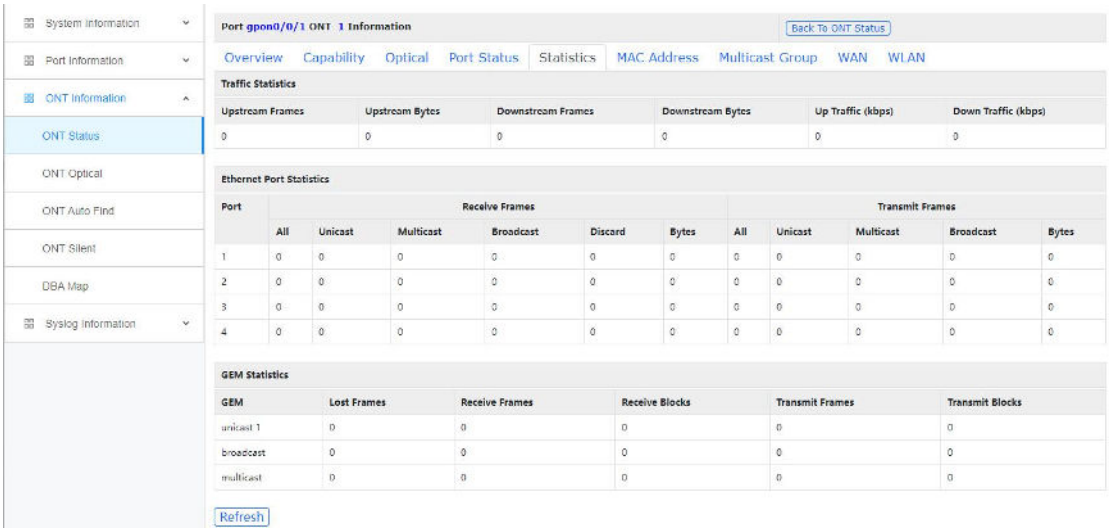


Figure 1-14

1.3.6 MAC Address

1. Click Monitor->ONT information->ONT Status->Detail->Mac Address
2. This page displays ONT's MAC address learned by ONT.

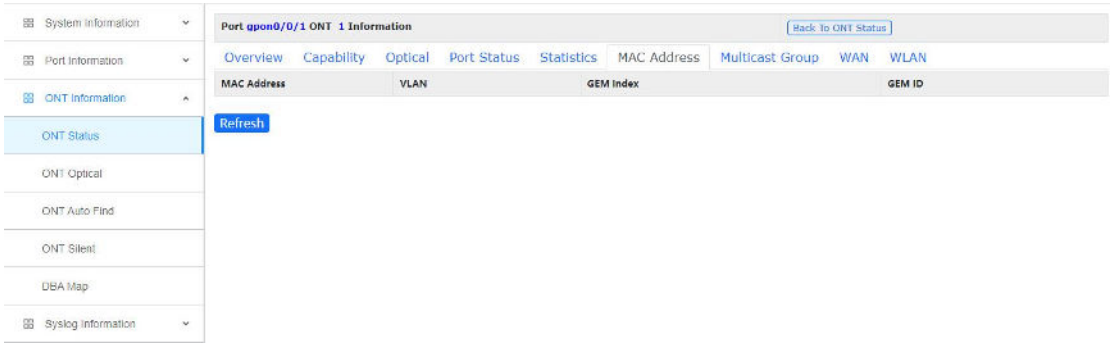


Figure 1-15

1.3.7 Multicast Group

1. Click Monitor->ONT information->ONT Status->Detail->Multicast Group
2. This page displays ONT's multicast group learned by ONT.

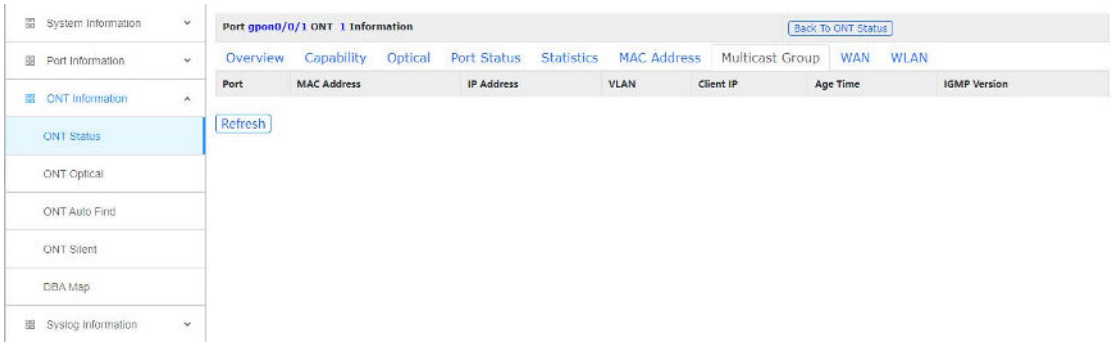


Figure 1-16

1.3.8 ONT WAN

1.Click Monitor->ONT information->ONT Status->Detail->WAN
2.This page is used to view the WAN information sent from OLT to ONT, this function needs ONU support.

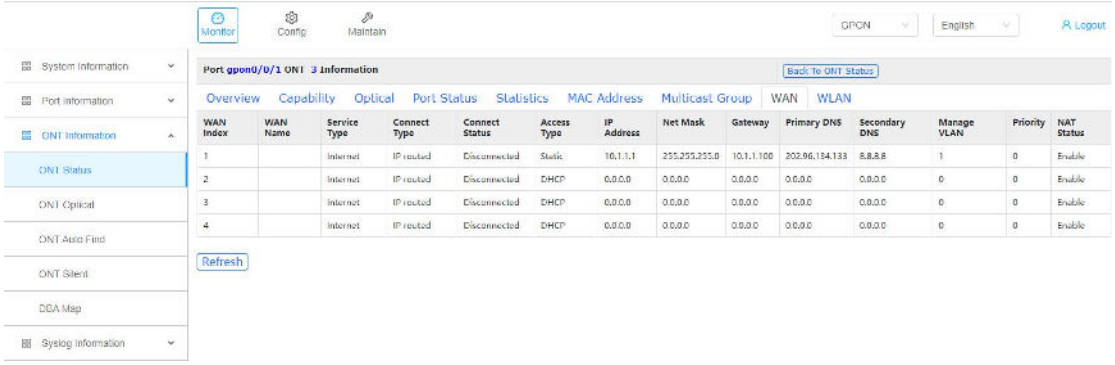


Figure 1-17

1.3.9 ONT WLAN

1.Click Monitor->ONT information->ONT Status->Detail->WLAN
2.This page is used to view the WIFI information sent down from the OLT to the ONU, and this function requires ONU support.

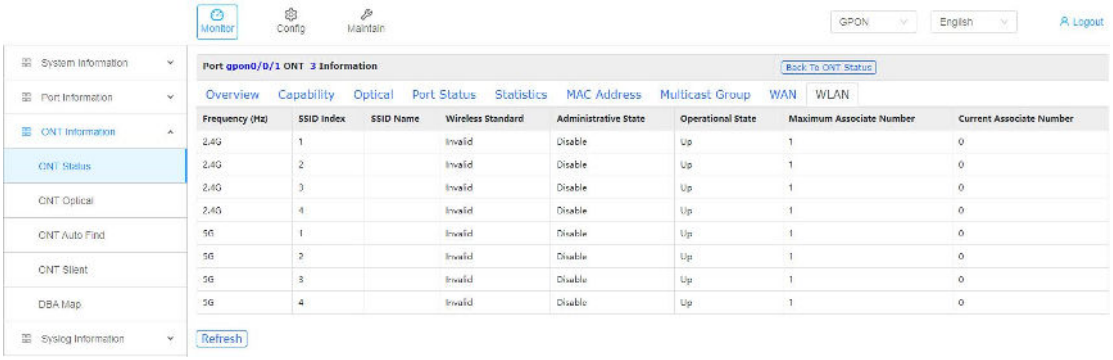


Figure 1-18

1.4 ONT Optical

1.Click Monitor->ONT information->ONT Optical
2.This page displays the optical power information of the registered ONT.

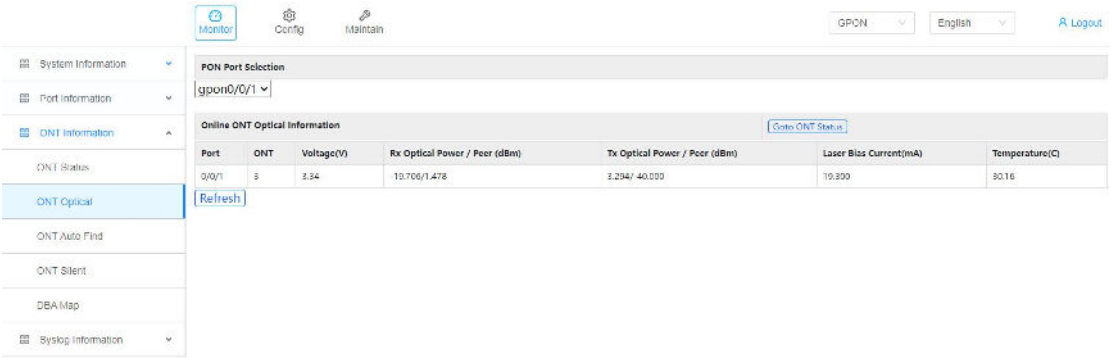


Figure 1-19

1.5 ONT Auto Find

1. Click Monitor->ONT information->ONT Auto Find
2. This page displays information about ONTs that have failed authentication.

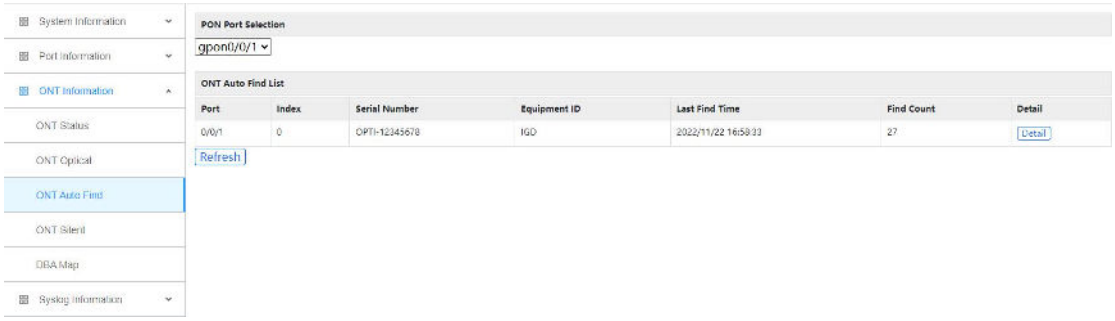


Figure 1-20

1.5.1 ONT Auto Find Detail Information

1. Click Monitor->ONT information->ONT Auto Find->Detail
2. This page displays ONT's auto find detail information by find list index.

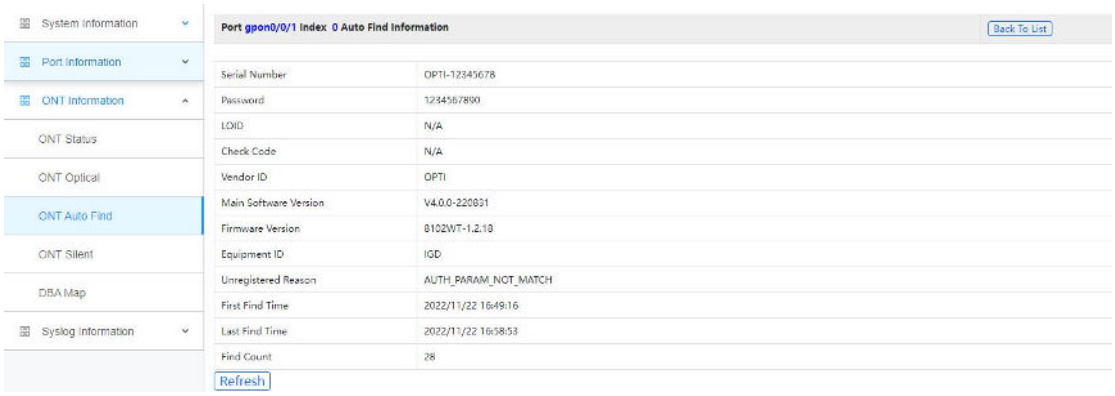


Figure 1-21

1.6 ONT Silent

1. Click Monitor->ONT information->ONT Silent
2. This page displays the ONU's configration of failed authentication silent and offline silent.

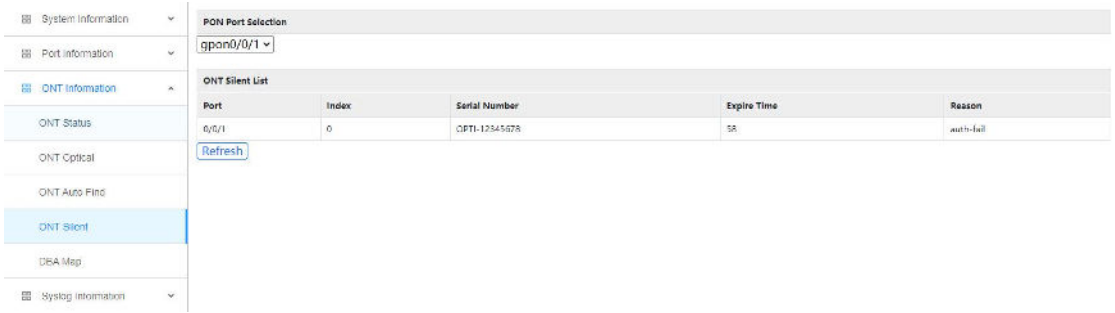


Figure1-22

1.7 DBA Map

1. Click Monitor->ONT information->DBA Map
2. This page displays ONT DBA assignment information of GPON interface.

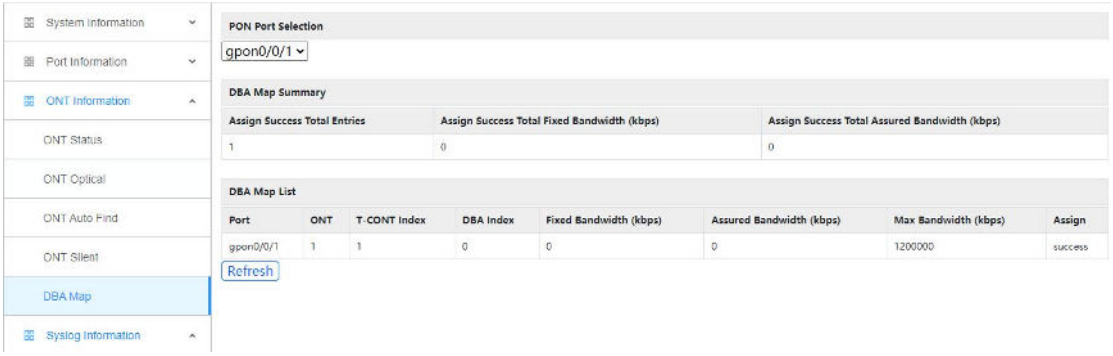


Figure 1-23

1.8 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.

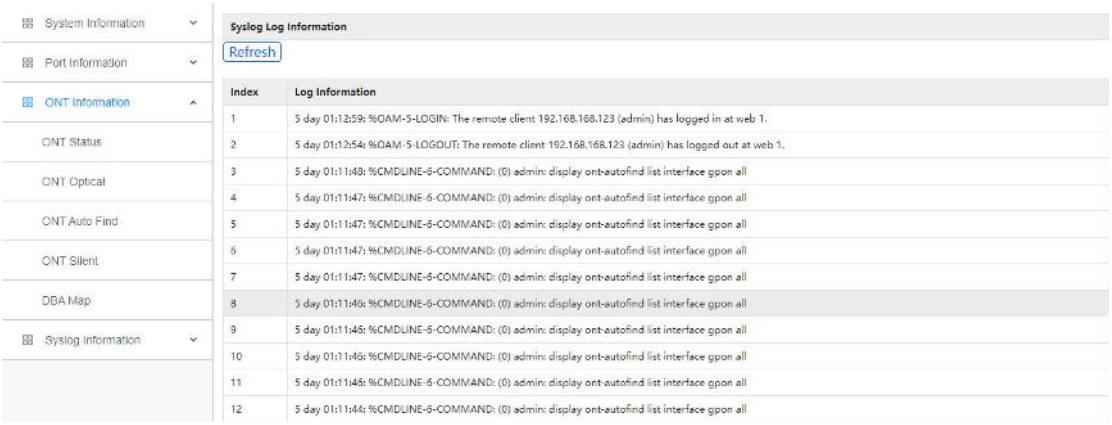


Figure 1-24

Chapter 2 System Management

System OEM information modification and user management, etc.

2.1 System Information

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

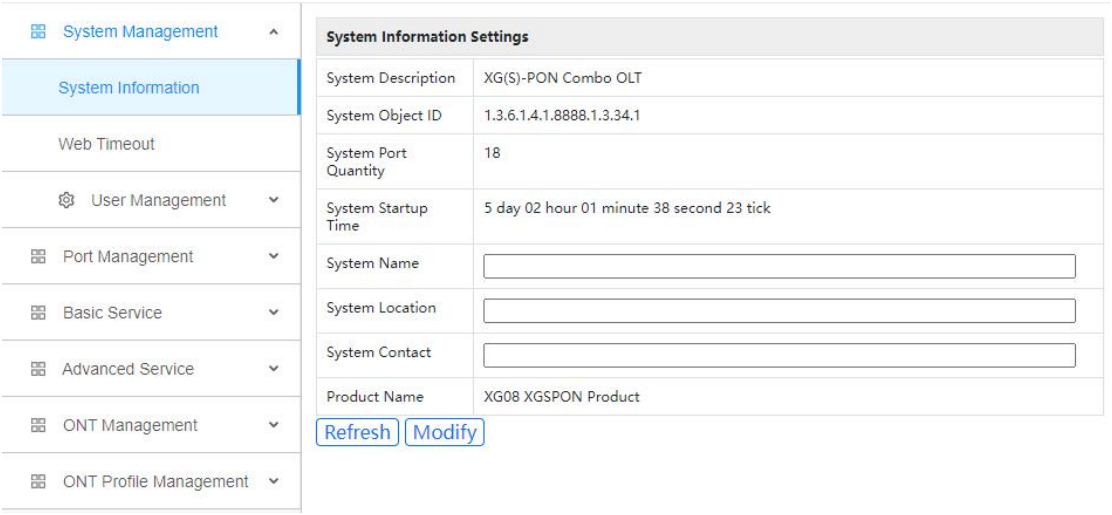


Figure 2-1

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.

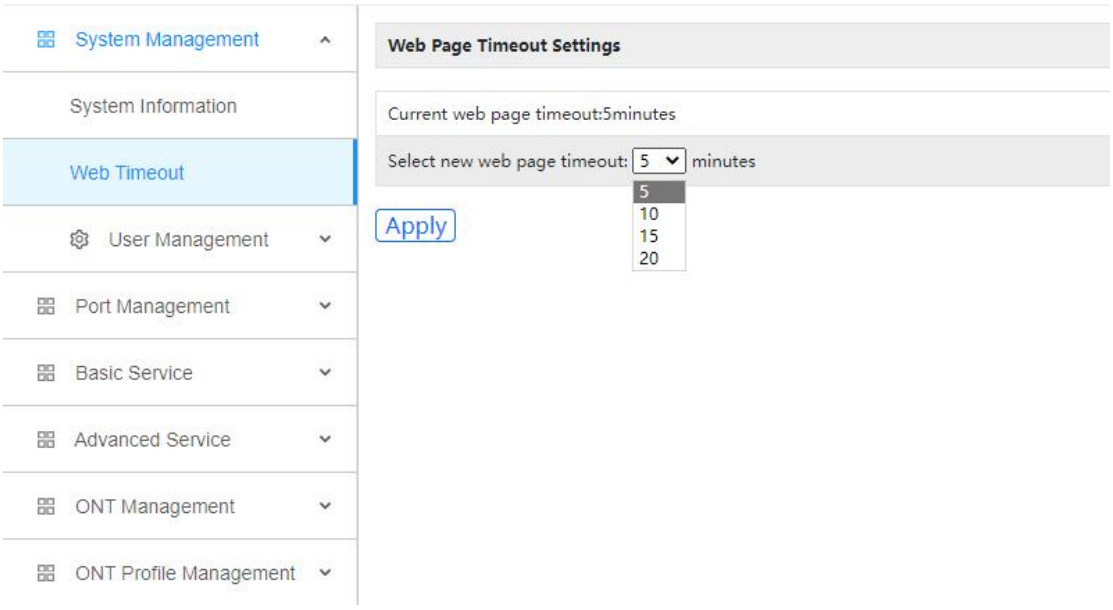


Figure 2-2

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.

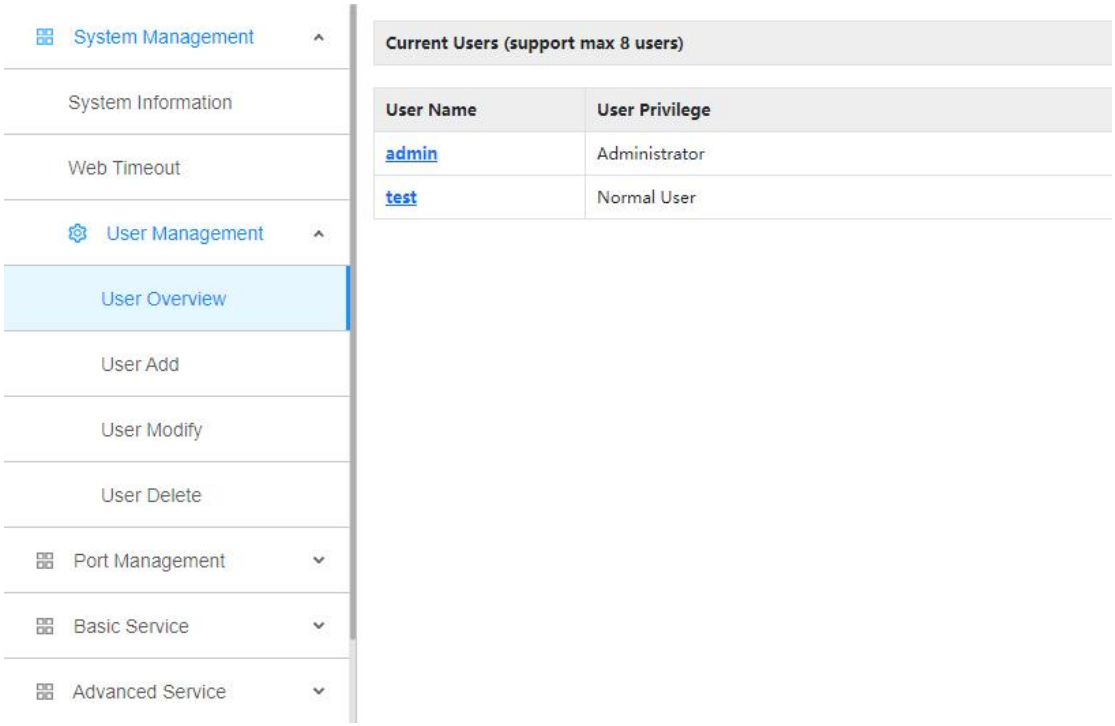


Figure 2-3

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.

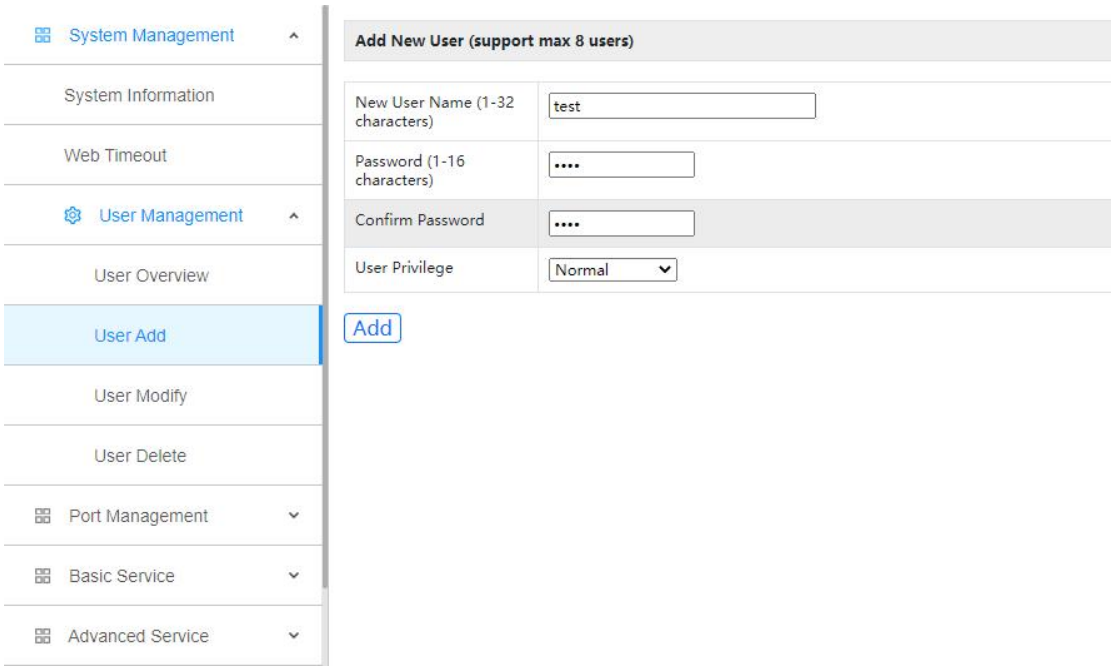


Figure 2-4

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.

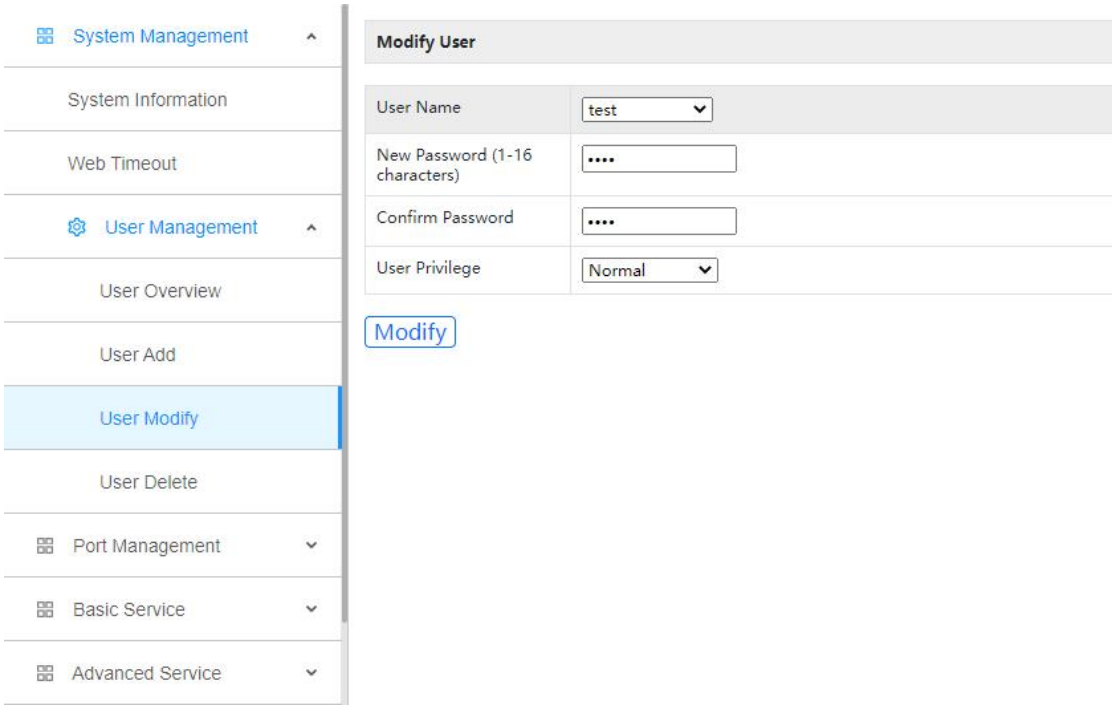


Figure 2-5

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.

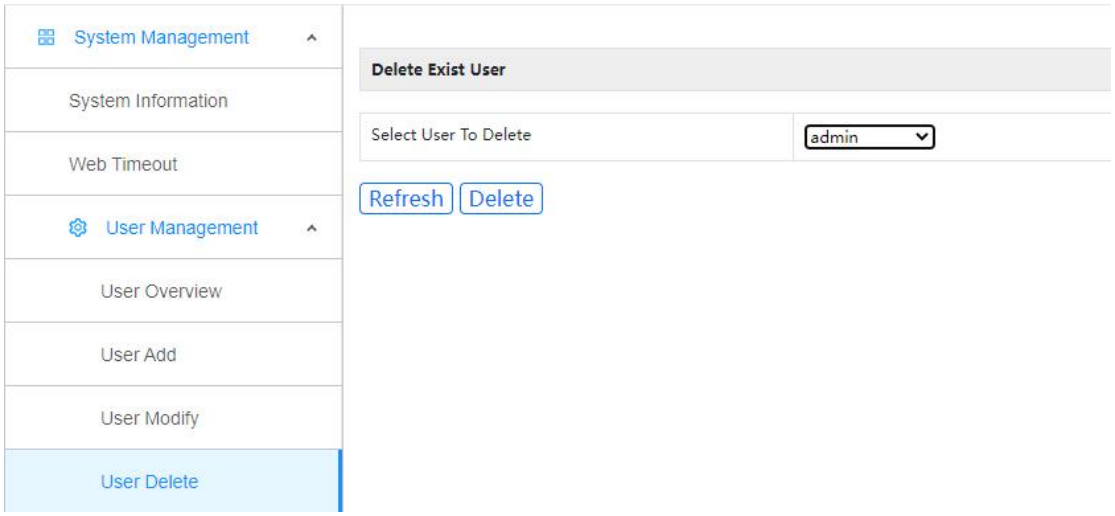


Figure 2-6

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.

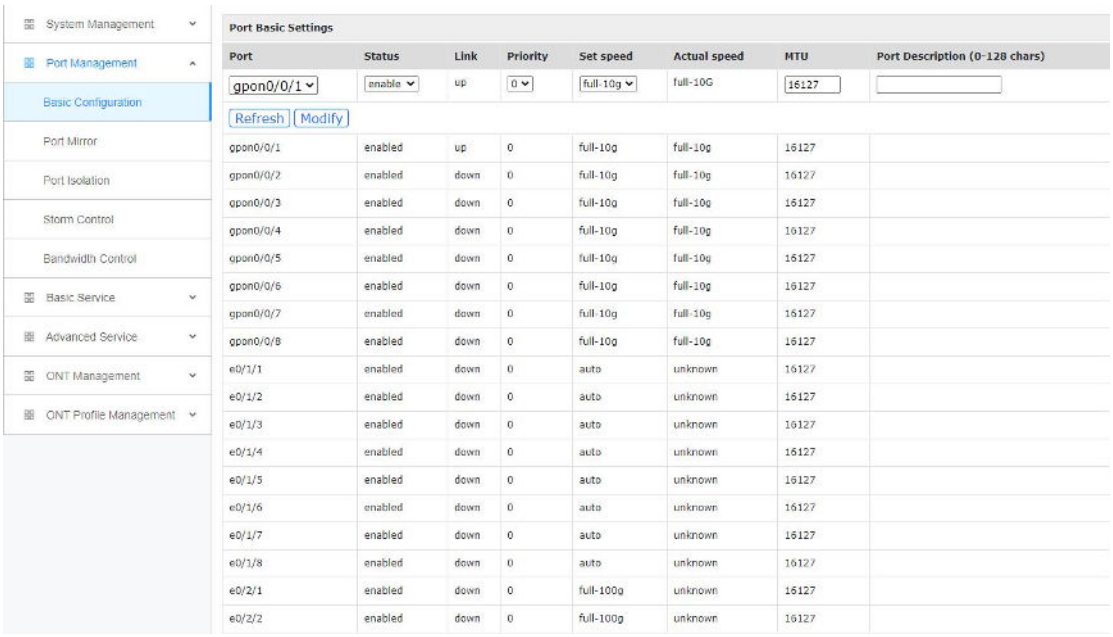


Figure 3-1

3.2 Port Mirror

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

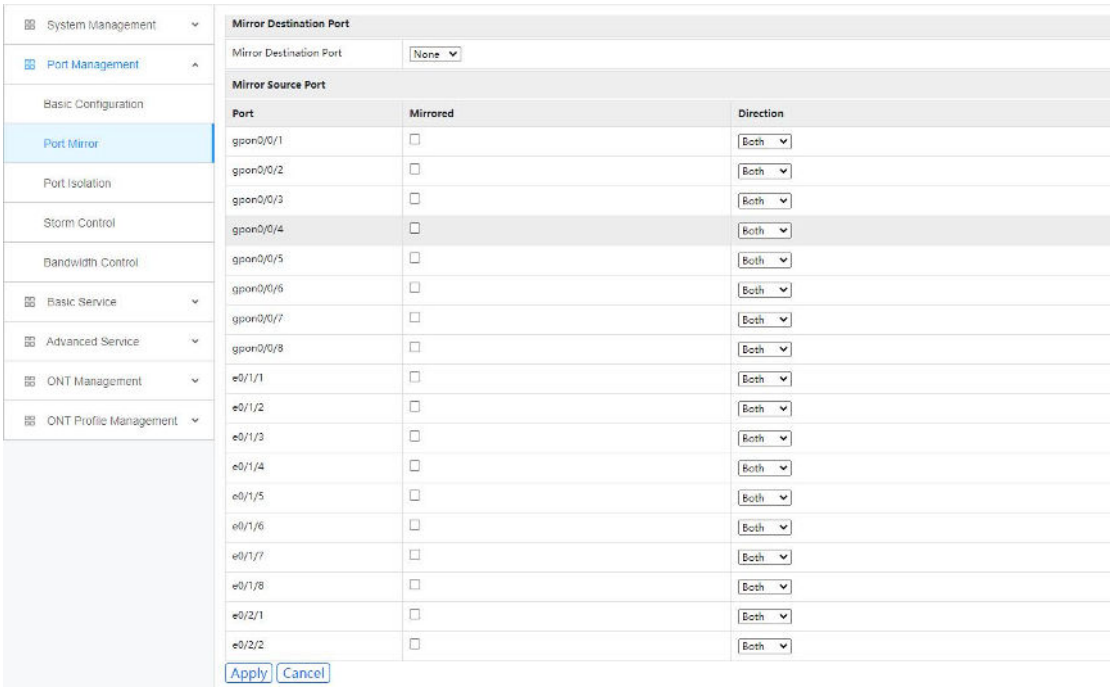


Figure 3-2

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.

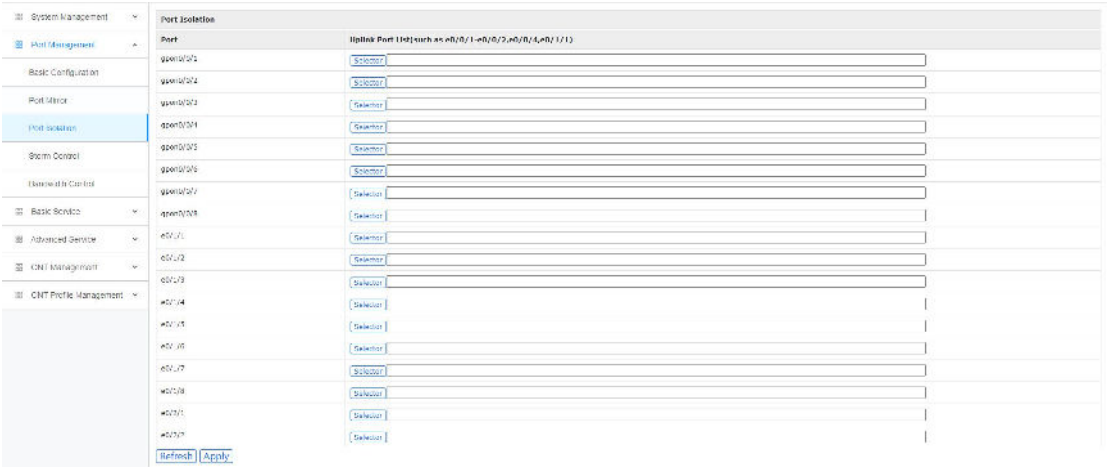


Figure 3-3

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

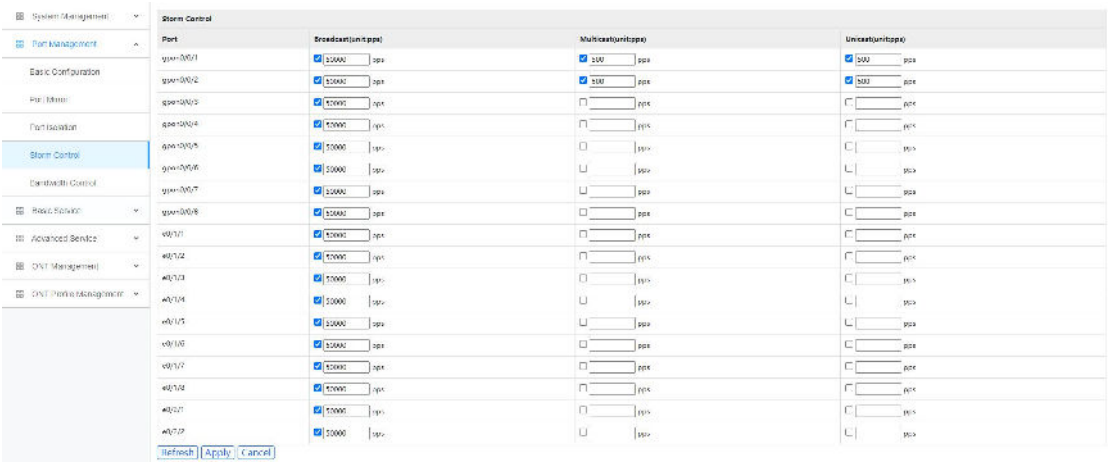


Figure 3-4

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.



Figure 3-5

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.

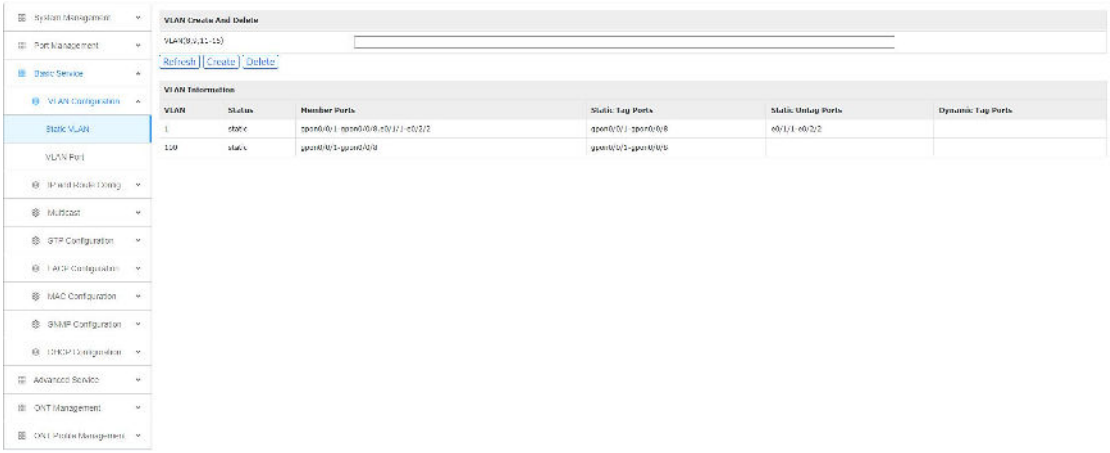


Figure 4-1

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.

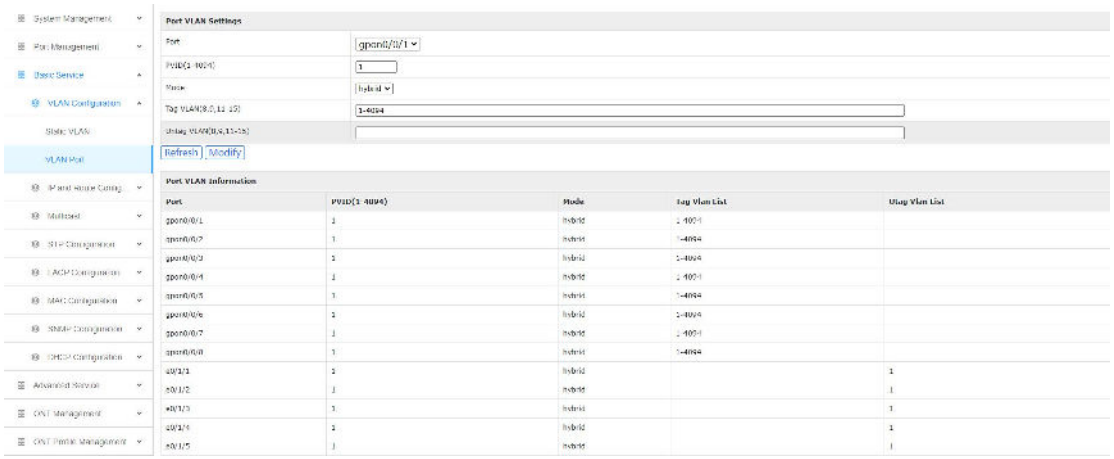


Figure 4-2

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.

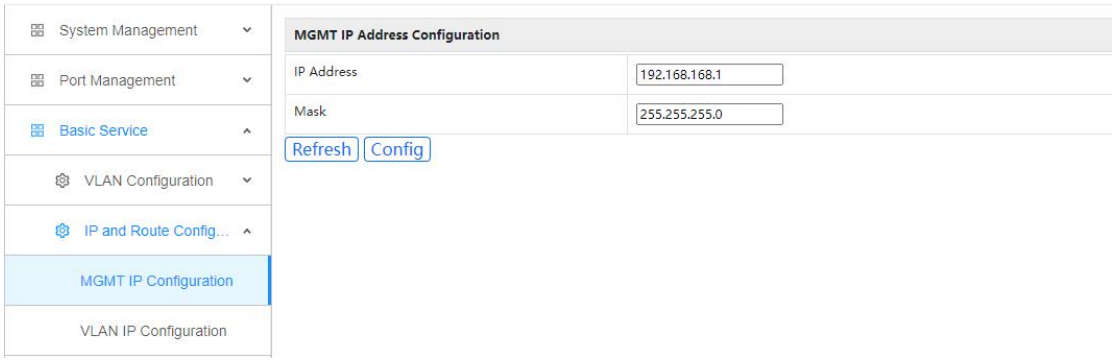


Figure 4-3

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.

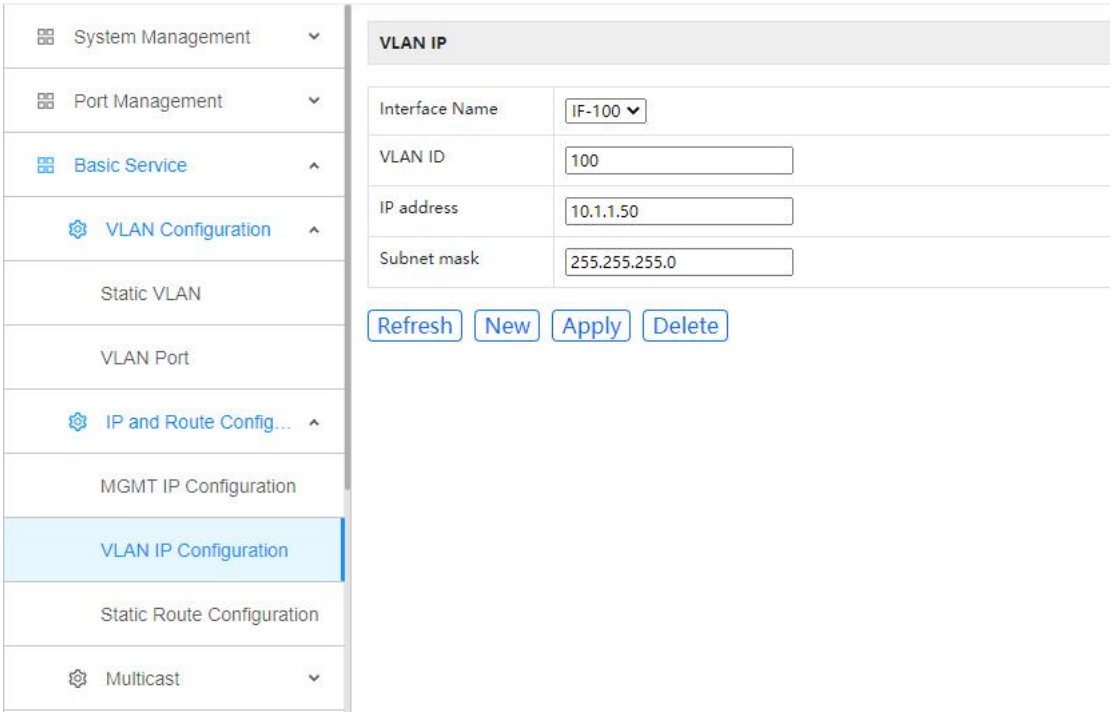


Figure 4-4

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.

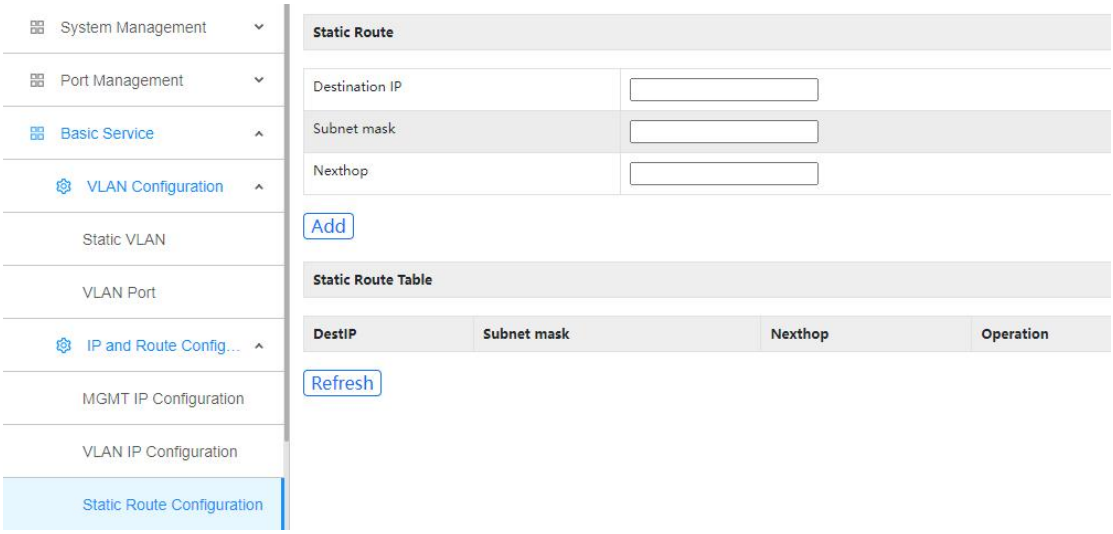


Figure 4-5

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.



Figure 4-6

4.3.2 IGMP Configuration

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

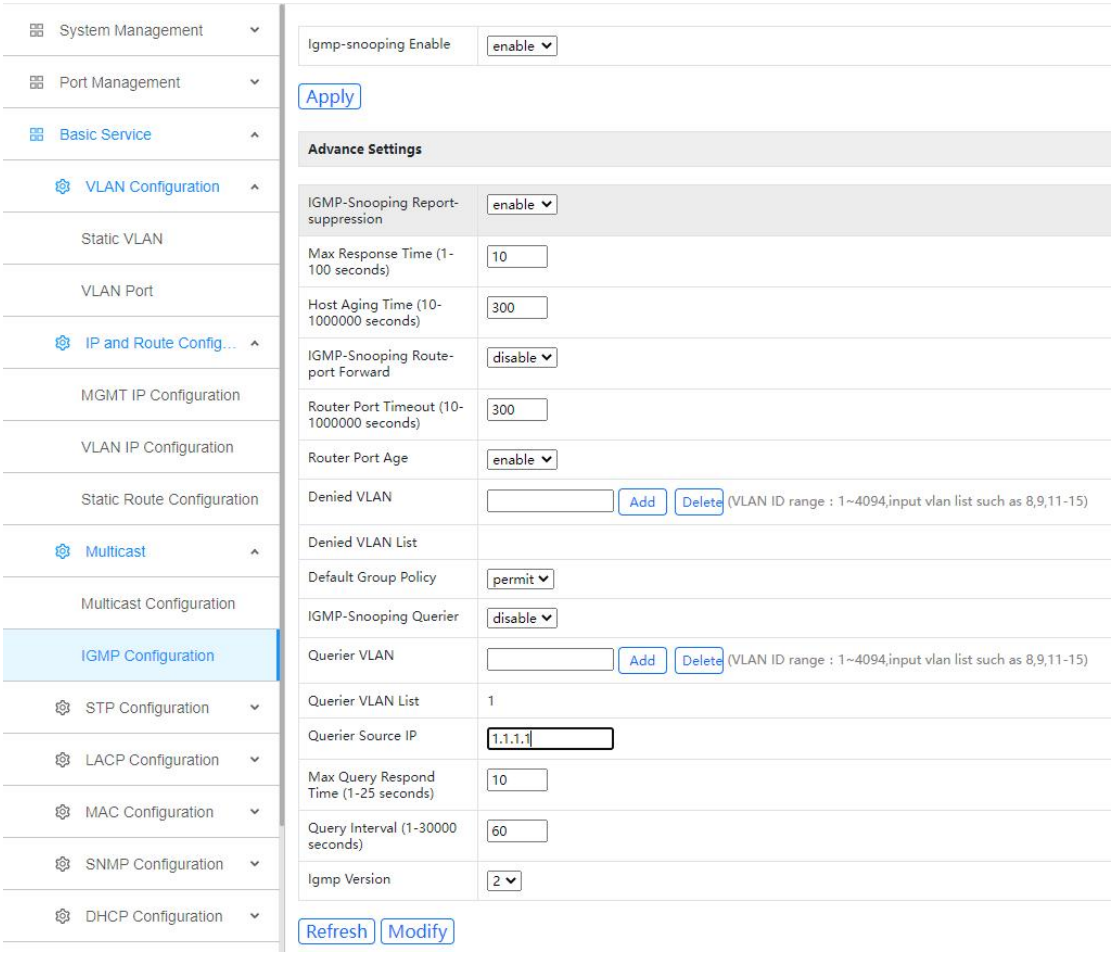


Figure 4-7

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.

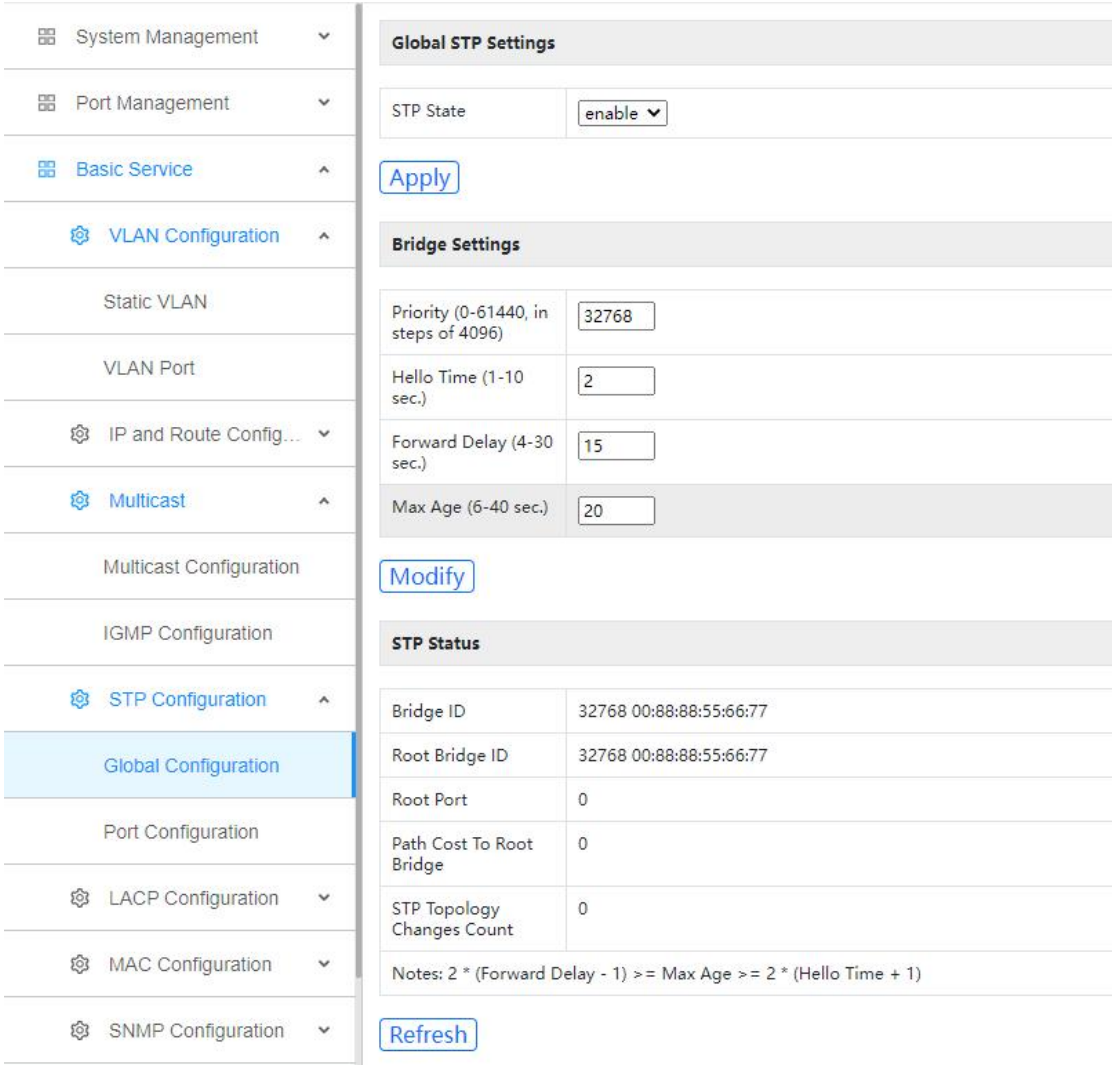


Figure 4-8

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.

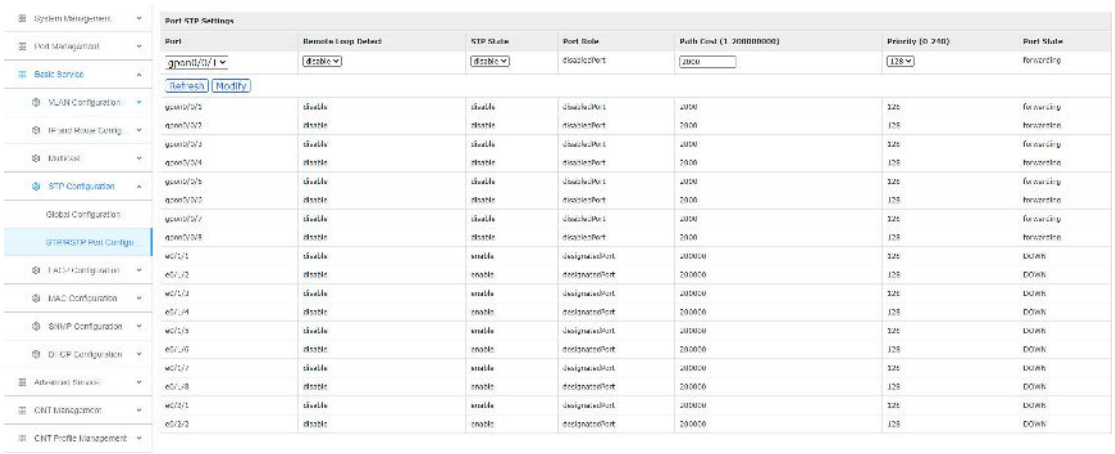


Figure 4-9

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.

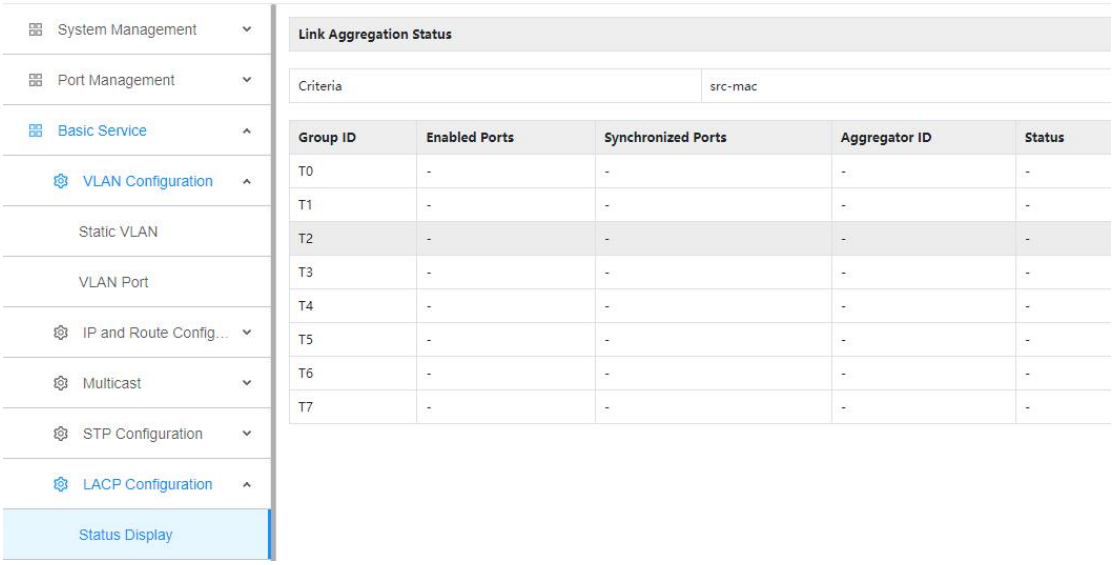


Figure 4-10

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.

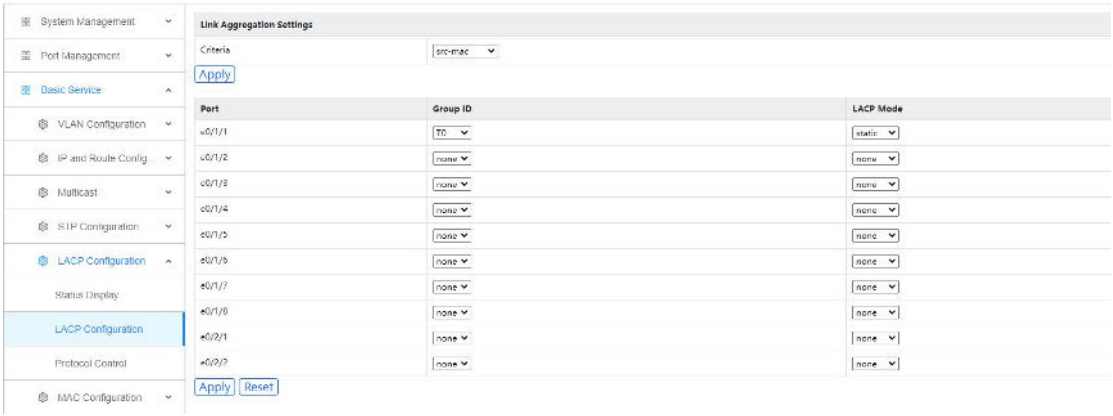


Figure 4-11

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.

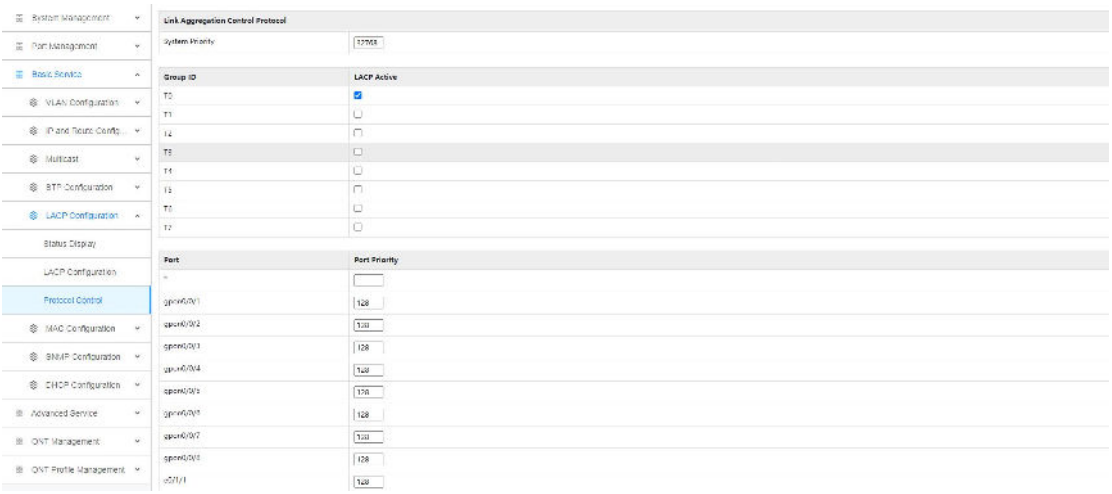


Figure 4-12

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.

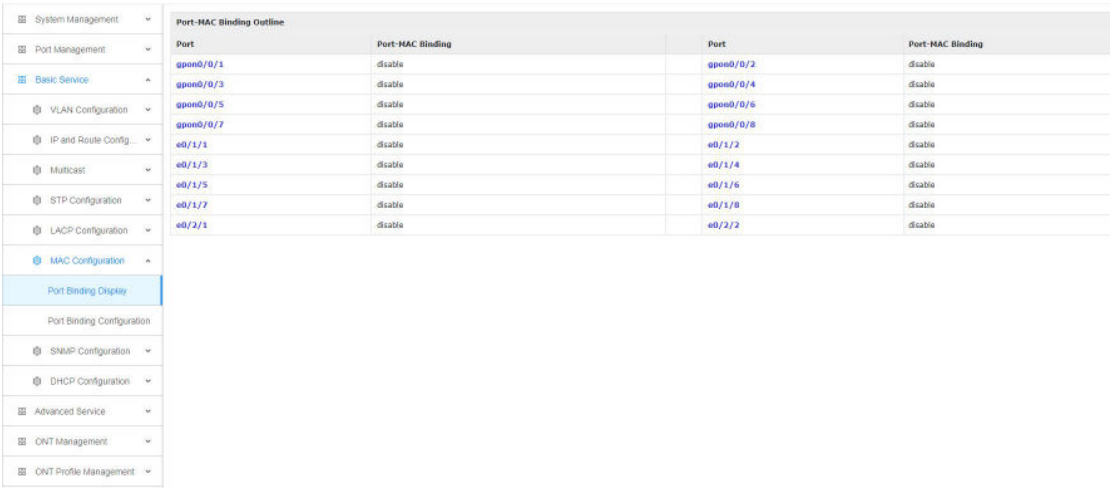


Figure 4-13

4.6.2 Port Binding Configuration

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

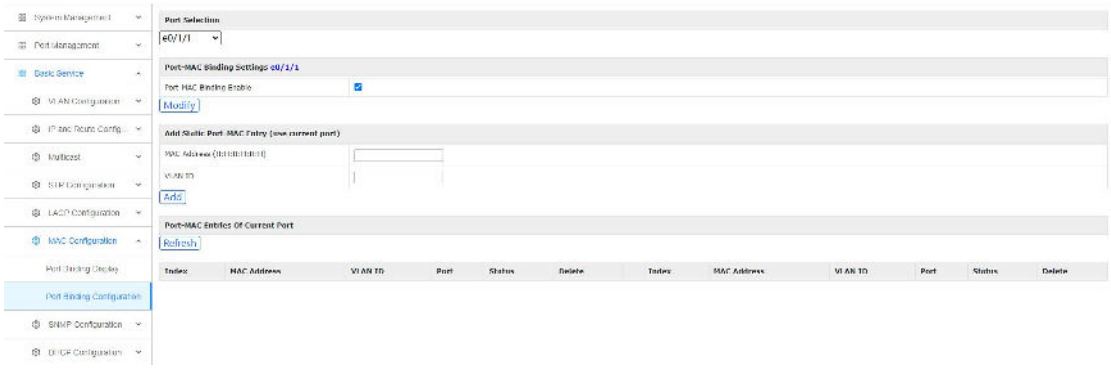


Figure 4-14

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).

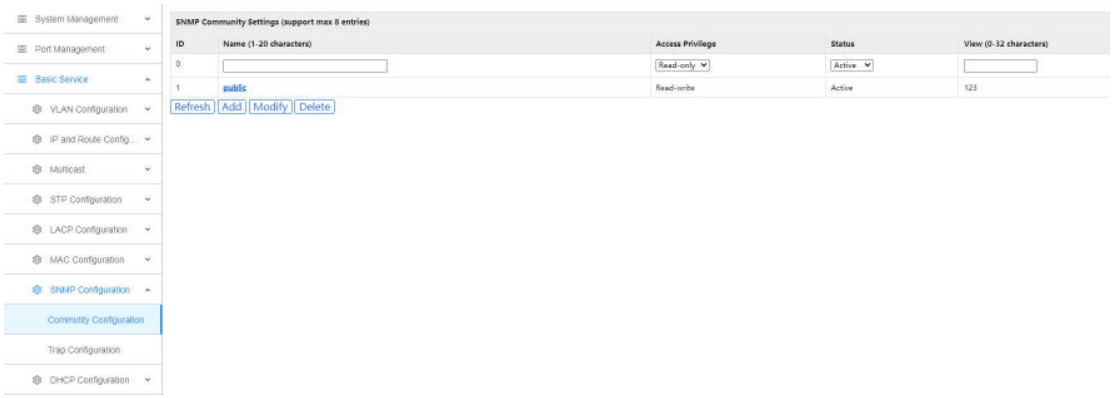


Figure 4-15

4.7.2 Trap Configuration

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

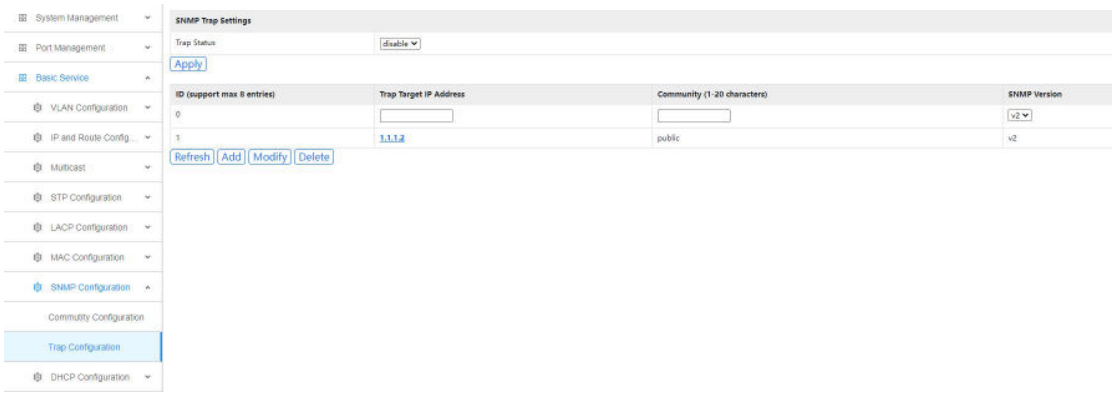


Figure 4-16

4.8 DHCP Configuration

4.8.1 DHCP Snooping

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.

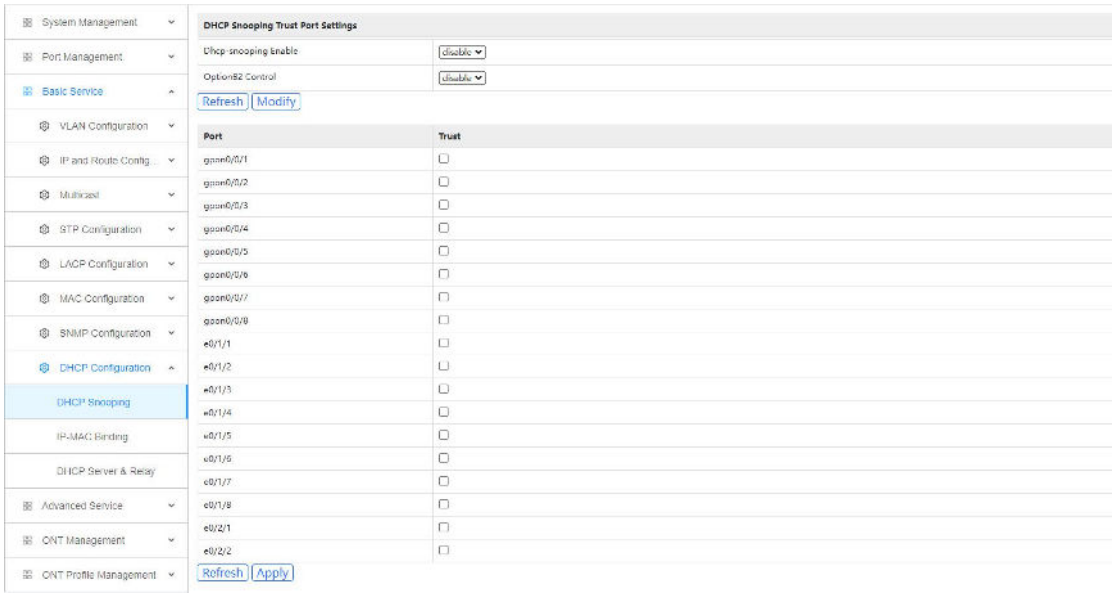


Figure 4-17

4.8.2 IP-Mac Binding

1. Click Config->Basic Service->DHCP Configuration->IP-Mac Binding
2. This page configures the IP and MAC binding function, this function needs to be used with DHCP snooping.

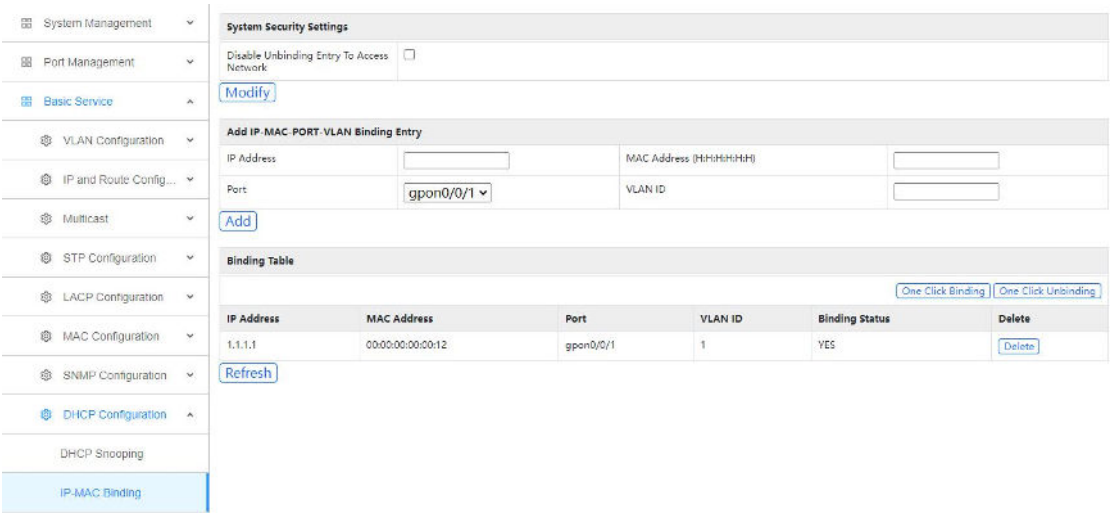


Figure 4-18

4.8.3 DHCP Server&Relay

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

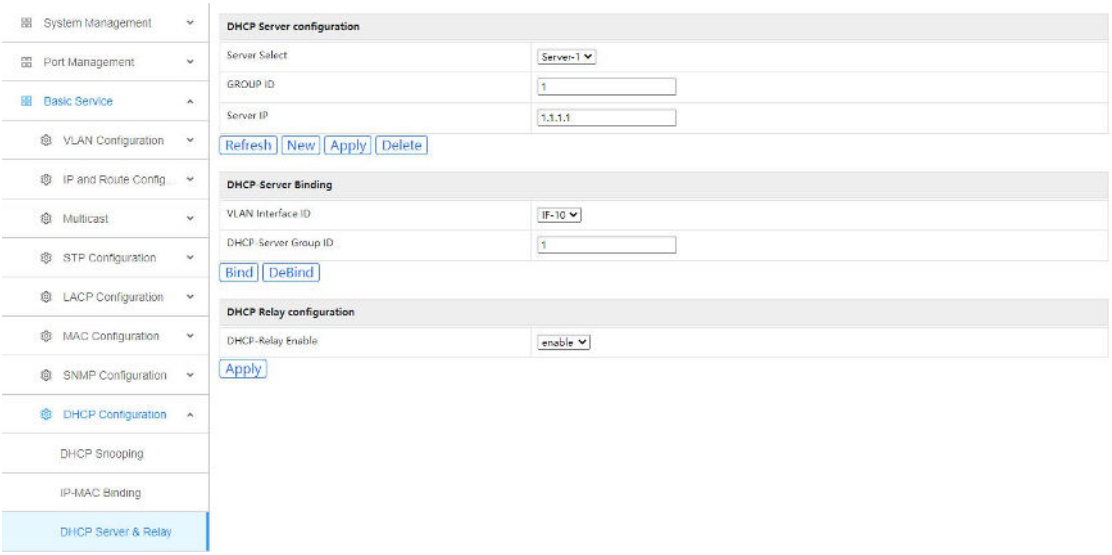


Figure 4-19

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

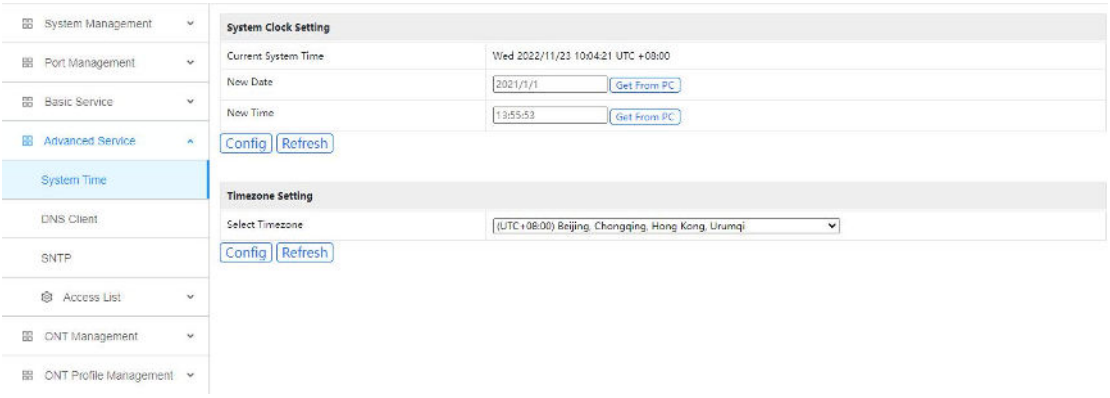


Figure 5-1

5.2 DNS Client

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

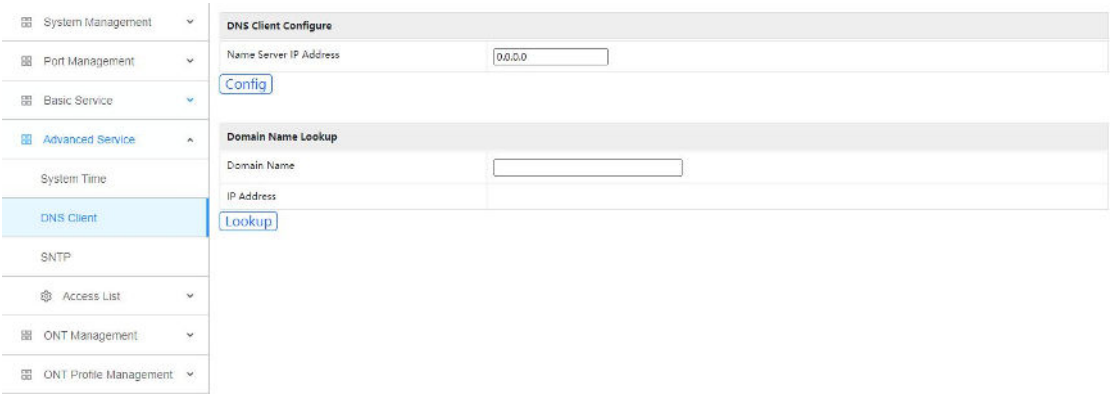


Figure 5-2

5.3 SNTP

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

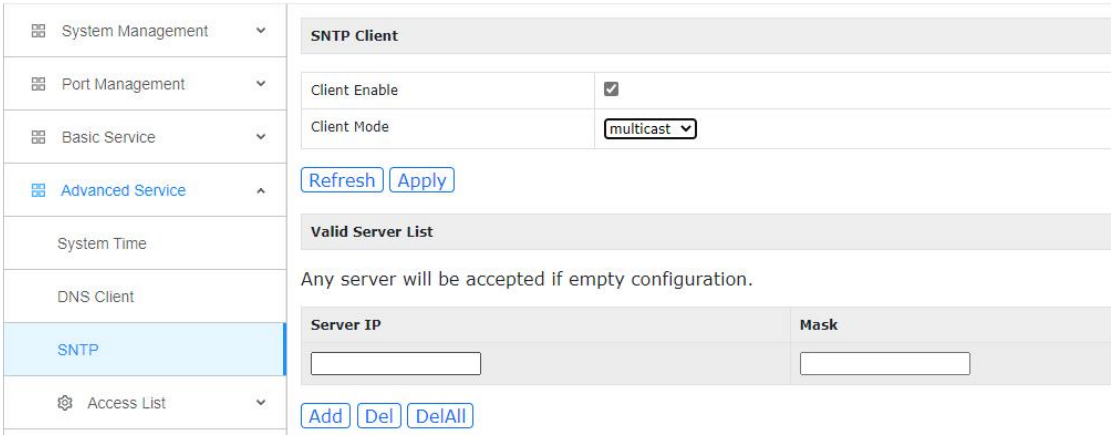


Figure 5-3

5.4 Access List

5.4.1 Classifier

1. Click Config->Advance Service->Access List->Classifier
2. This page configures the ACL Classifier.

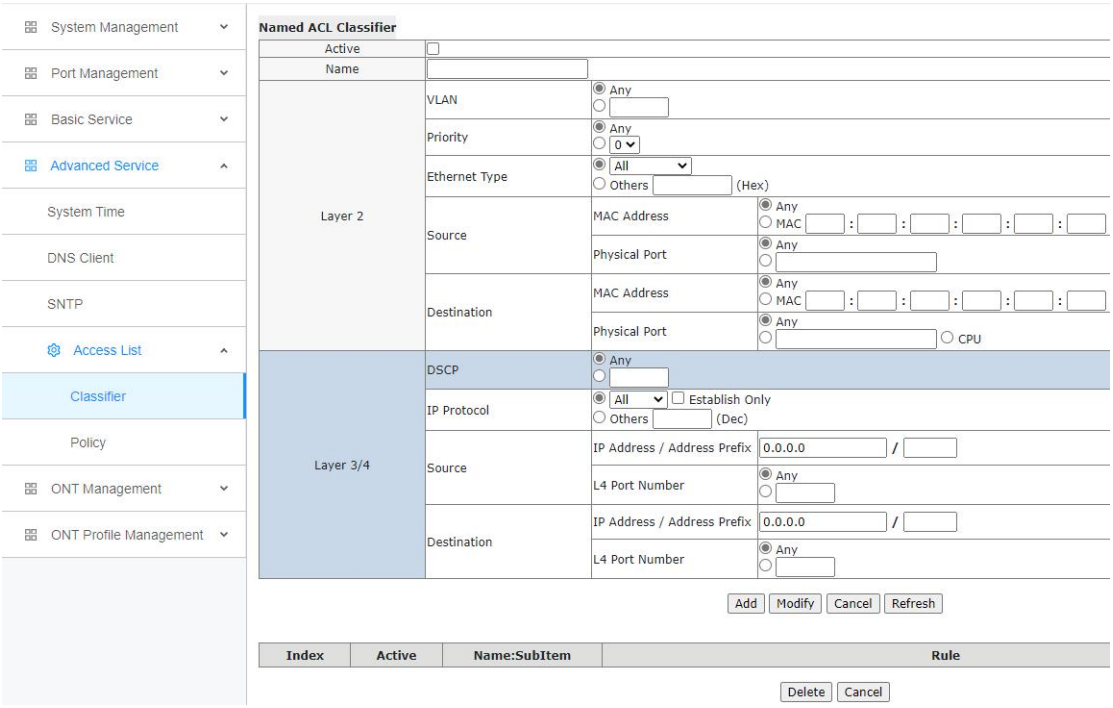


Figure 5-4

5.4.2 Policy

1. Click Config->Advance Service->Access List->Policy
2. This page configures the ACL Policy.

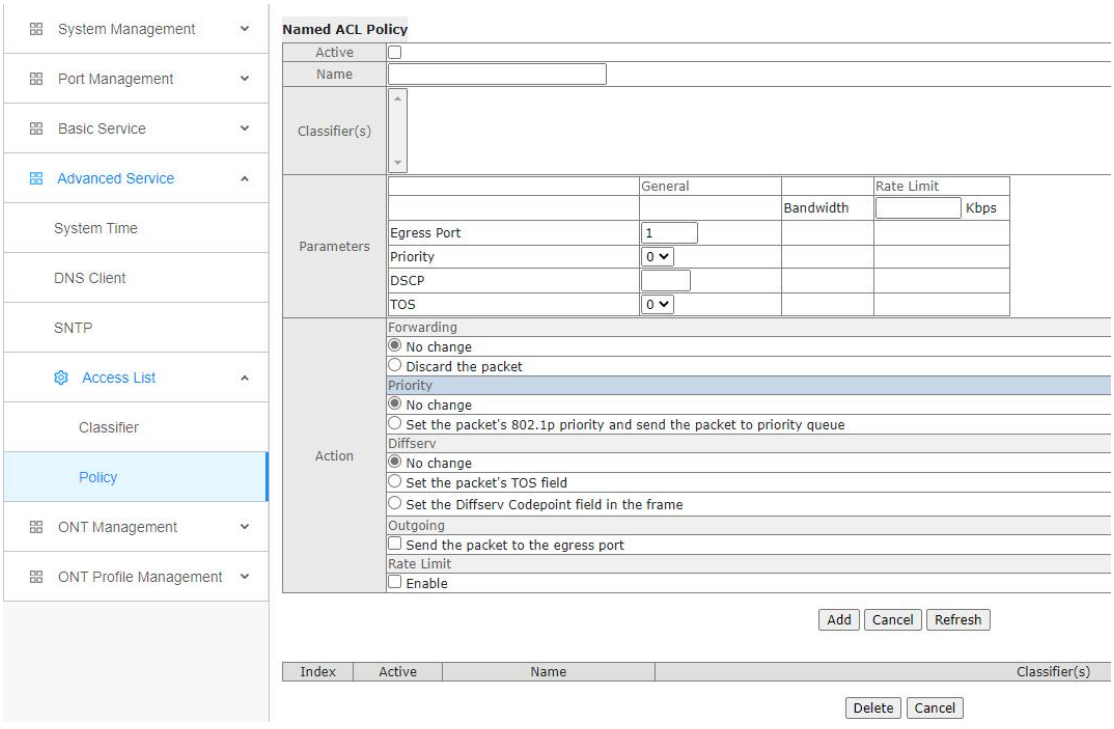


Figure 5-5

Chapter 6 ONT Management

6.1 Auto Find

1. Click Config->ONT Management->ONT Find
2. This page configures the ONT auto find function.

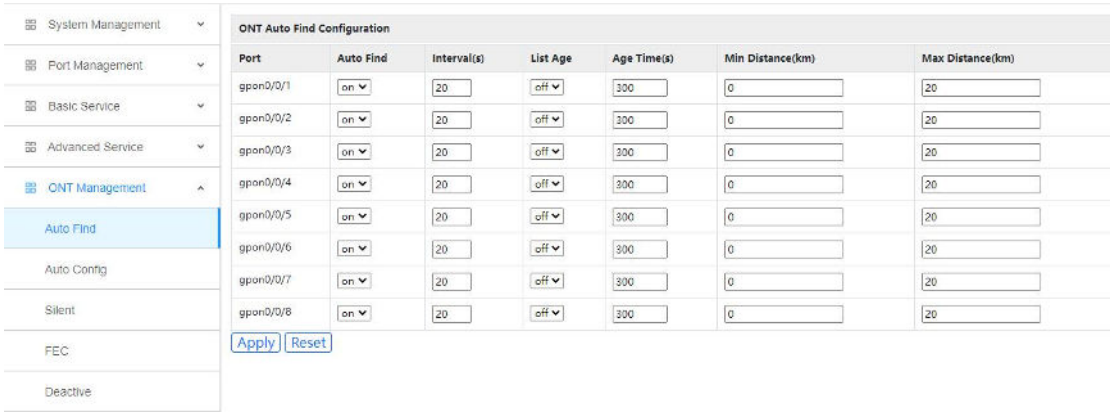


Figure 6-1

6.2 Auto Config

1.Click Config->ONT Management->Auto Config
2. This page configures the ONT auto create rule profile and registration.

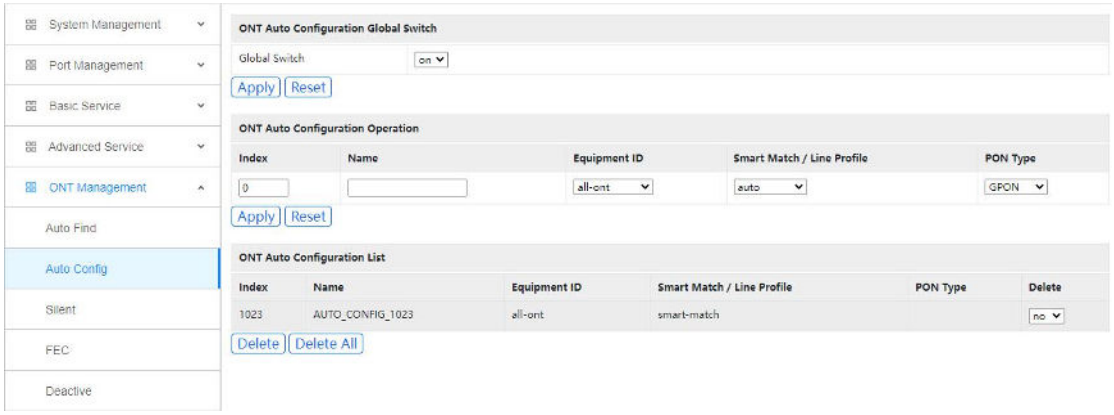


Figure 6-2

6.3 Silent

1. Click Config->ONT Management->Silent
2. This page configures the ONT silent function of failed authentication and offline.

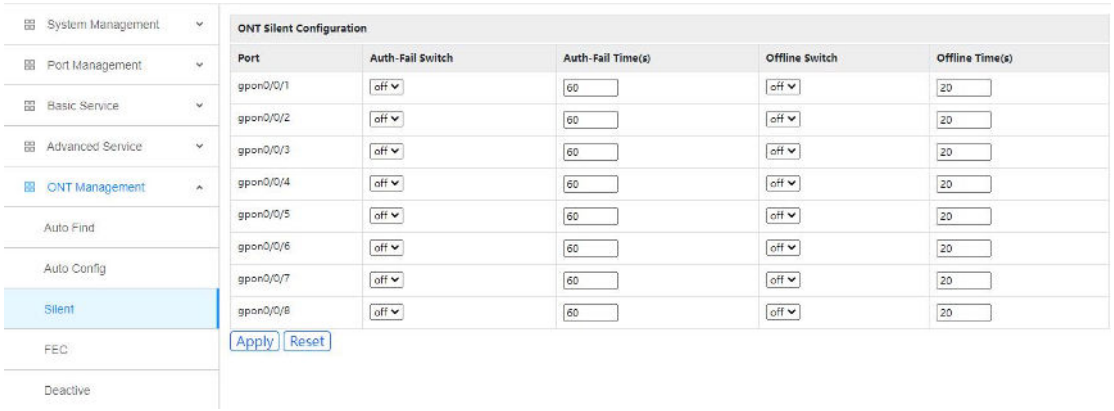


Figure 6-3

6.4 FEC

1. Click Config->ONT Management->FEC
2. This page configures the GPON port downstream FEC switch.



Figure 6-4

6.5 Deactive

1. Click Config->ONT Management->Deactive
2. This page configures batch deactive the ONTs.

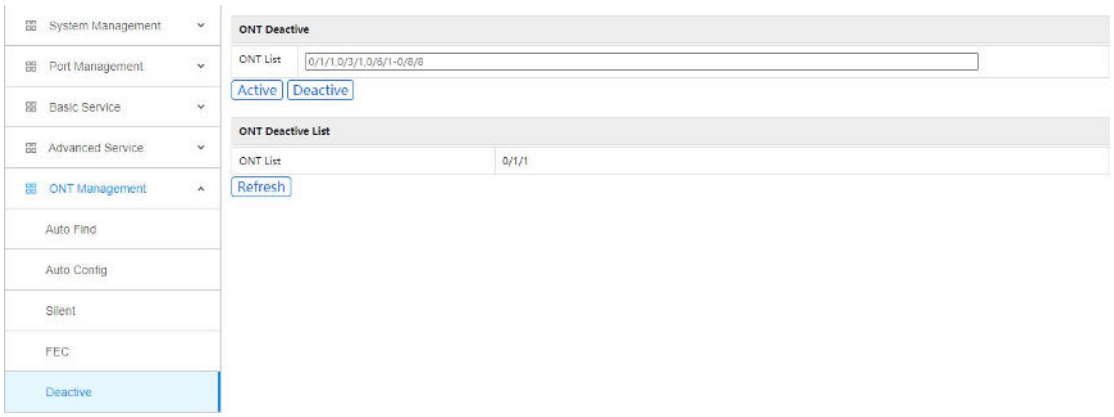


Figure 6-5

Chapter 7 ONT Profile Management

7.1 DBA Profile

1. Click Config->ONT Profile Management->DBA Profile
2. This page configures the DBA profile.

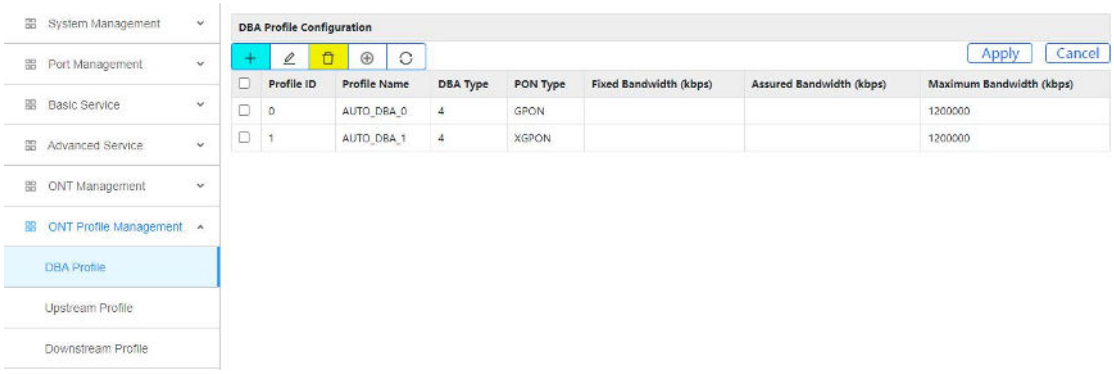


Figure 7-1

7.2 Upstream Profile

1. Click Config->ONT Profile Management->Upstream Profile
2. This page configures the upstream profile.

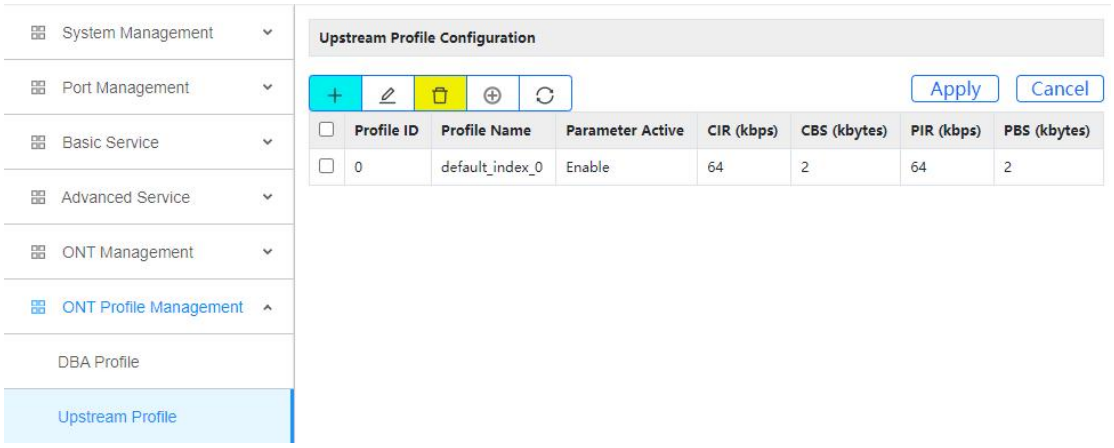


Figure 7-2

7.3 Downstream Profile

1. Click Config->ONT Profile Management->Downstream Profile
2. This page configures the downstream profile.

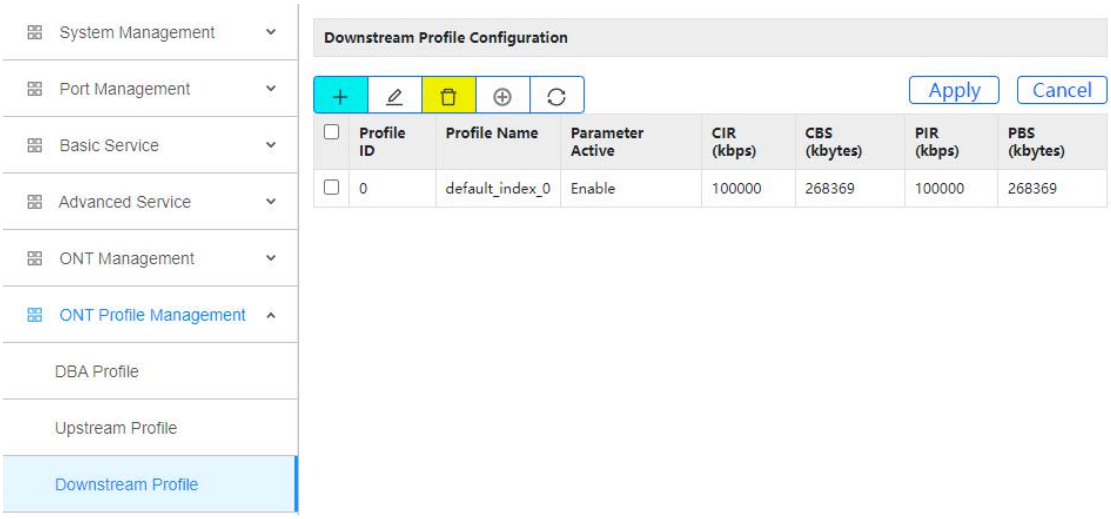


Figure 7-3

7.4 VLAN Profile

1. Click Config->ONT Profile Management->VLAN Profile
2. This page configures add, modify and delete VLAN profile.

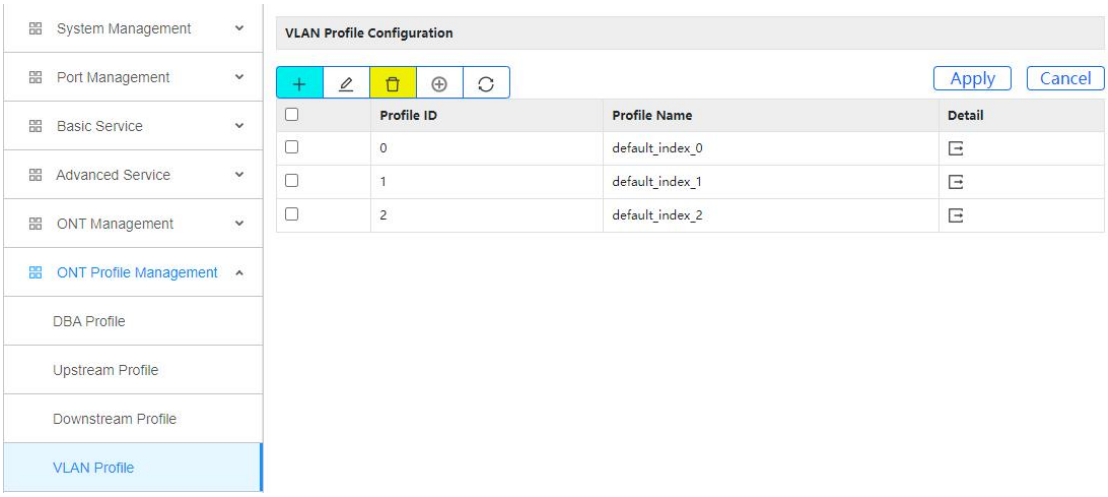


Figure 7-4

7.4.1 VLAN Profile Configuration

1. Click Config->ONT Profile Management->VLAN Profile->Detail
2. This page configures the VLAN profile.

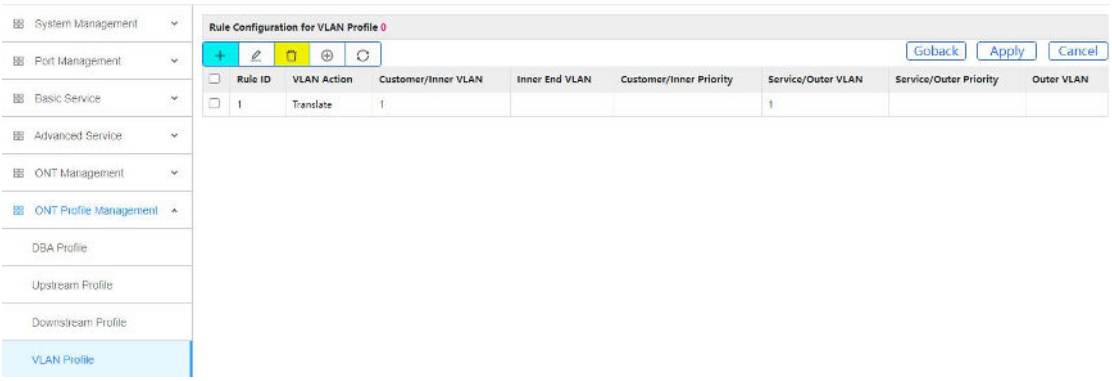


Figure 7-5

7.5 Line Profile

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

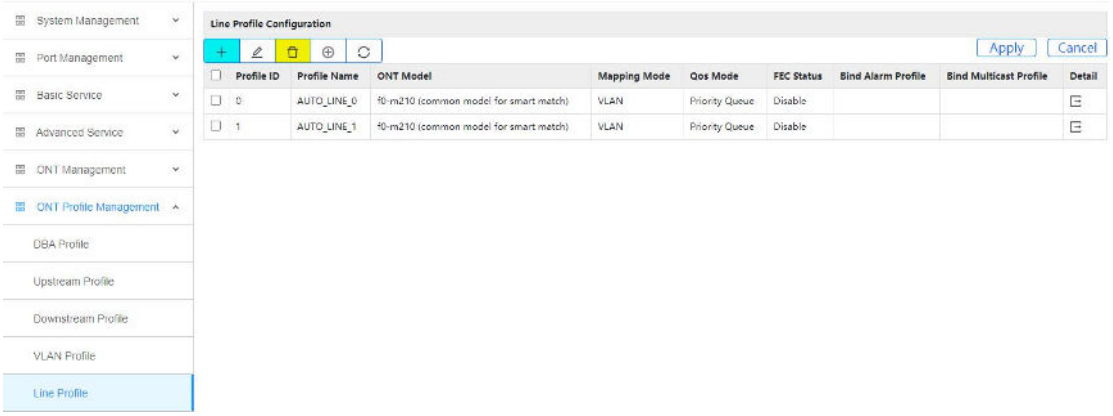


Figure 7-6

7.5.1 T-CONT

1. Click Config->ONT Profile Management->Line Profile->Detail->T-CONT
2. This page configures the T-CONT and bind DBA profile.

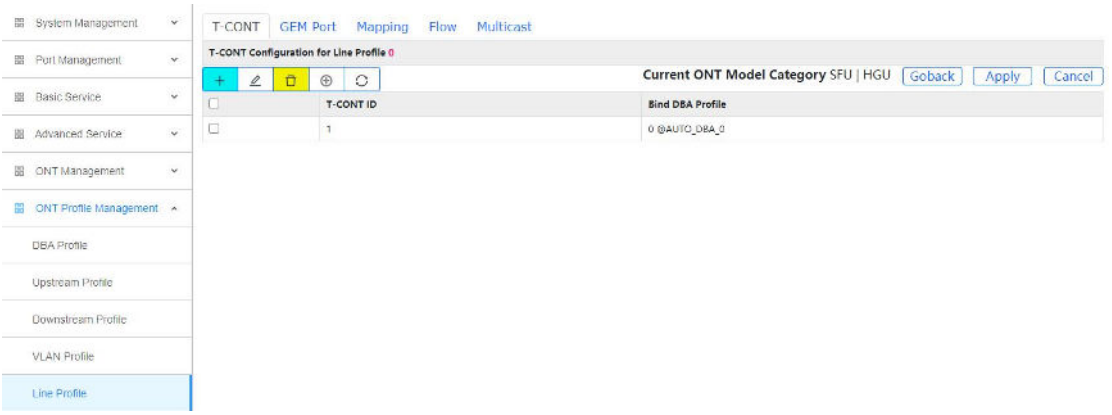


Figure 7-7

7.5.2 GEM Port Configuration

1. Click Config->ONT Profile Management->Line Profile->Detail->GEM Port 2. This page configures the GEM port and bind T-CONT.

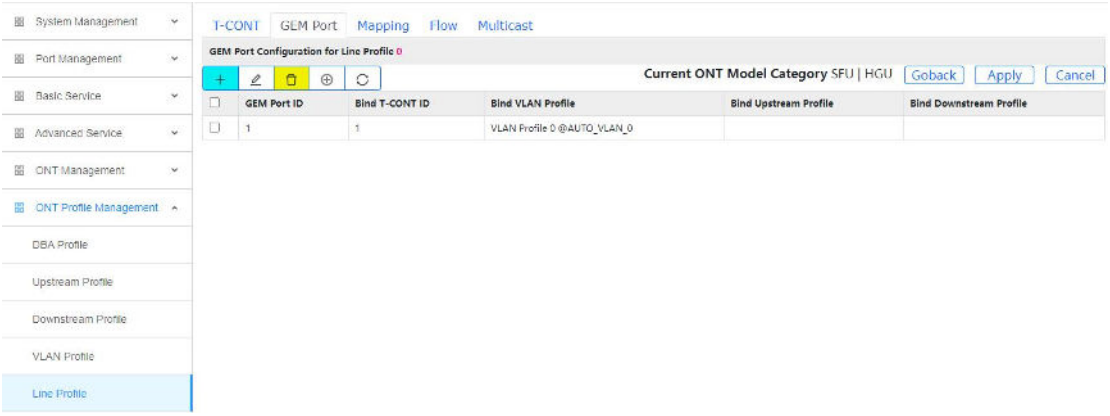


Figure 7-8

7.5.3 Mapping Configuration

1. Click Config->ONT Profile Management->Line Profile->Detail->Mapping
2. This page configures the GEM port mapping.

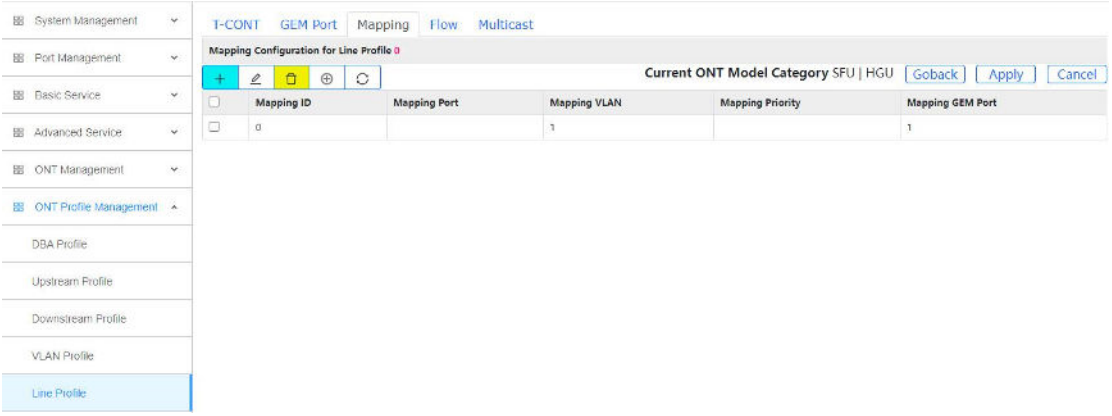


Figure 7-9

7.5.4 Flow Configuration

1. Click Config->ONT Profile Management->Line Profile->Detail->Flow
2. This page configures the ONT ethernet flow.

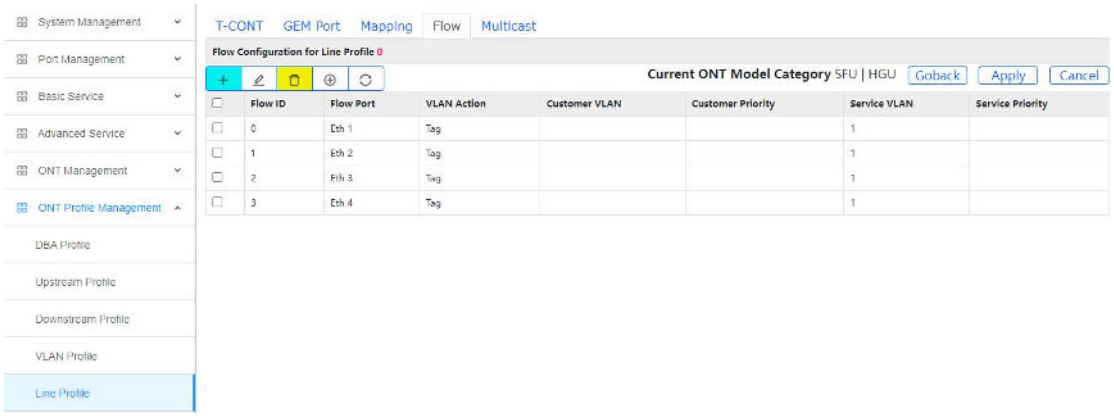


Figure 7-10

7.5.5 Multicast Configuration

1. Click Config->ONT Profile Management->Line Profile->Detail->Multicast
2. This page configures the ONT Multicast strategy.

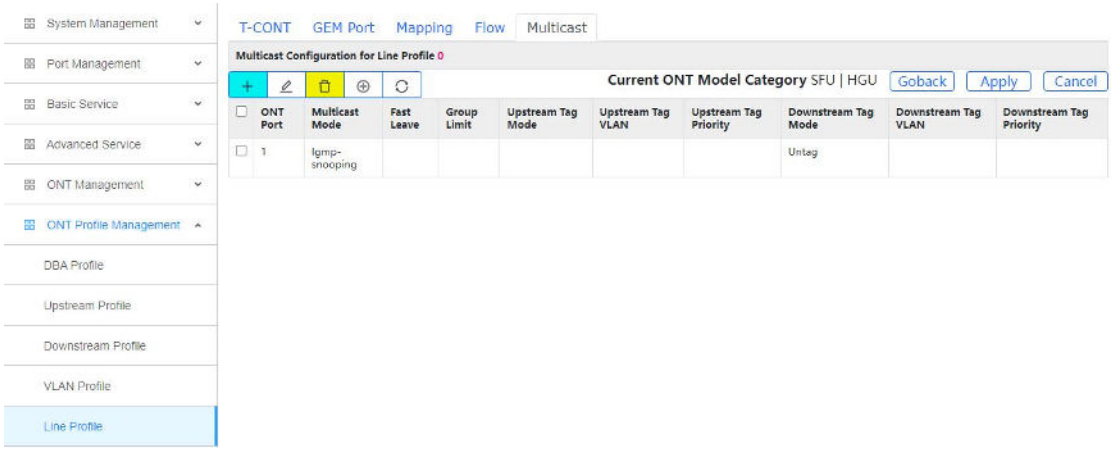


Figure 7-11

7.6 Rule Profile

1. Click Config->ONT Profile Management->Rule Profile
2. This page configures add, modify, and delete rule profile.

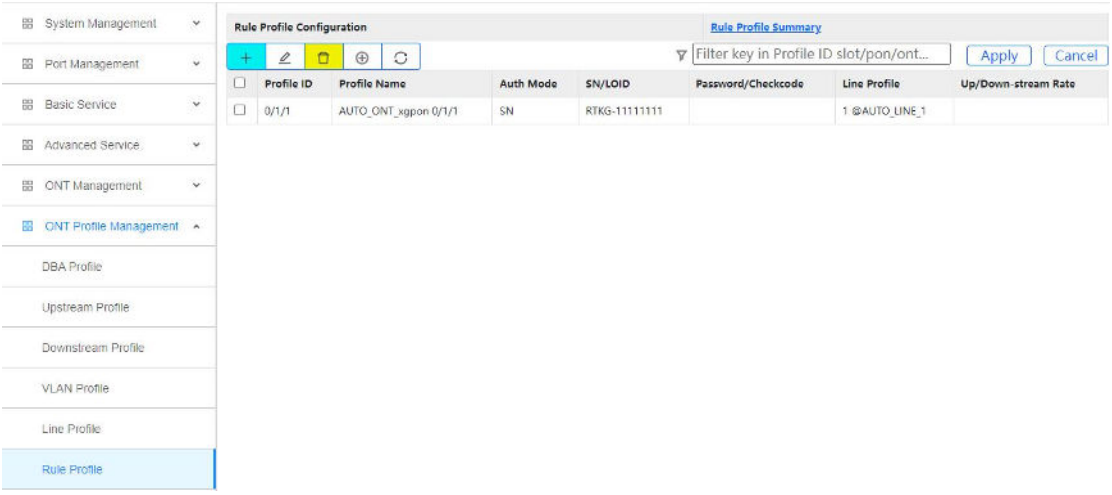


Figure 7-12

7.6.1 Rule Profile Summary

1. Click Config->ONT Profile Management->Rule Profile Summary
2. This page display rule profile summary.

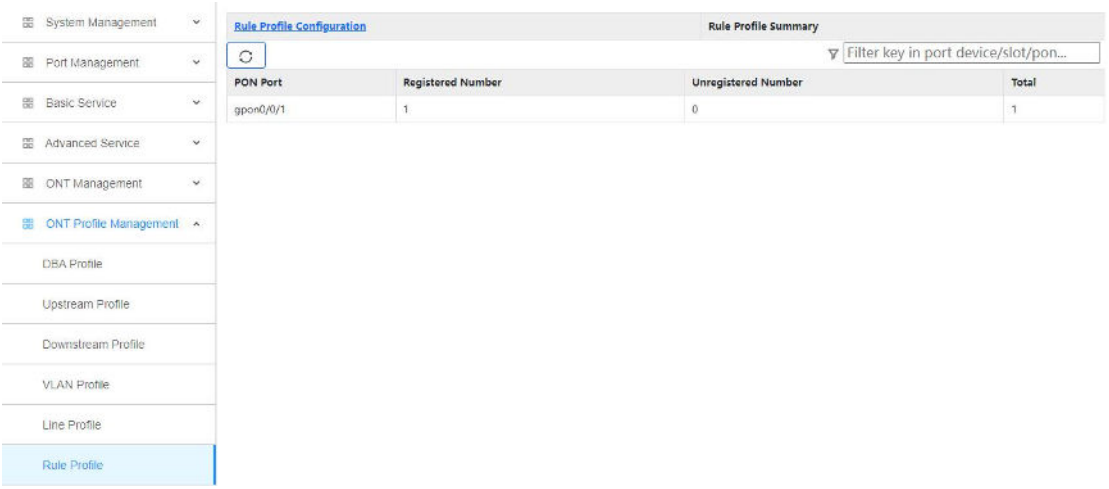


Figure 7-13

7.7 Specific Profile

1.Click Config->ONT Profile Management->Specific Profile

2.This page is used to create a specific profile, which can be directly bound to an alarm profile and a multicast profile (when a specific profile conflicts with the configuration in the service profile, the specific profile takes precedence).

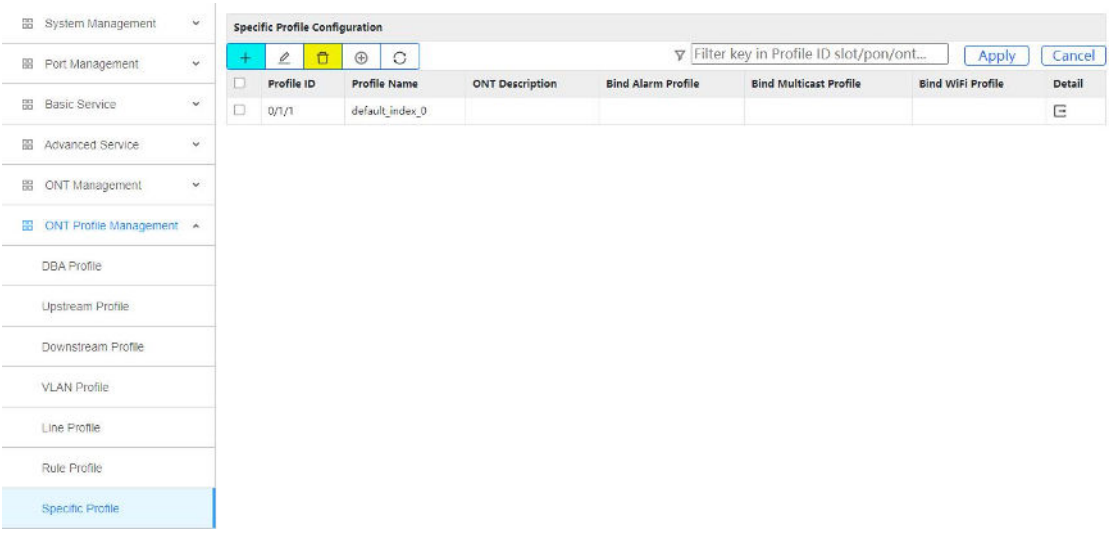


Figure 7-14

7.7.1 T-CONT

1.Click Config->ONT Profile Management->Specific Profile->Detail->T-CONT

2.This page is used to configure t-cont binding DBA profile.

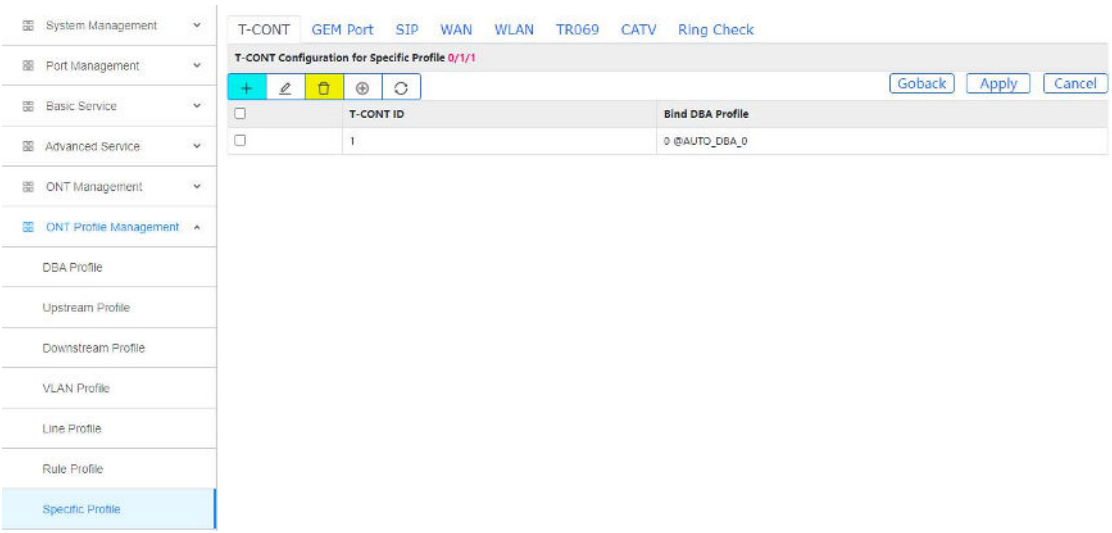


Figure 7-15

7.7.2 GEM Port

1.Click Config->ONT Profile Management->Specific Profile->Detail->GEM Port

2.2. This page is used to configure gemport binding VLAN profiles and upstream and downstream profiles.

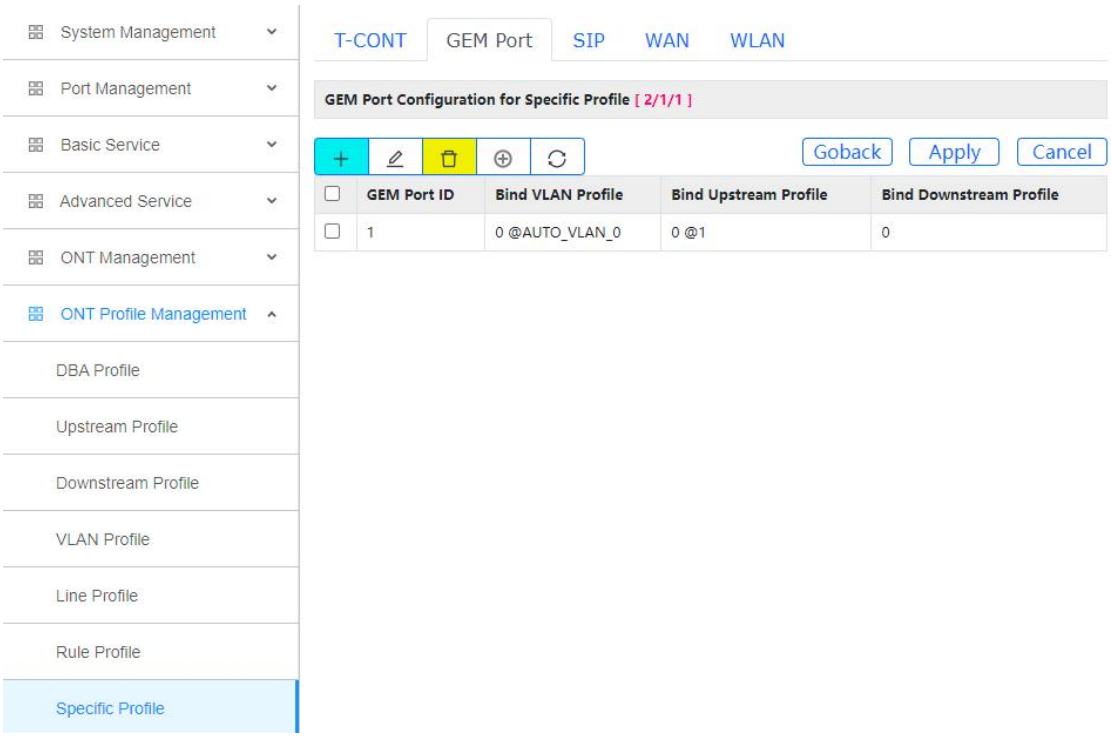


Figure 7-16

7.7.3 SIP

1.Click Config->ONT Profile Management->Specific Profile->Detail->SIP->SIP Agent
2.This page is used to configure the address of the SIP proxy server, the default port number is 5060.

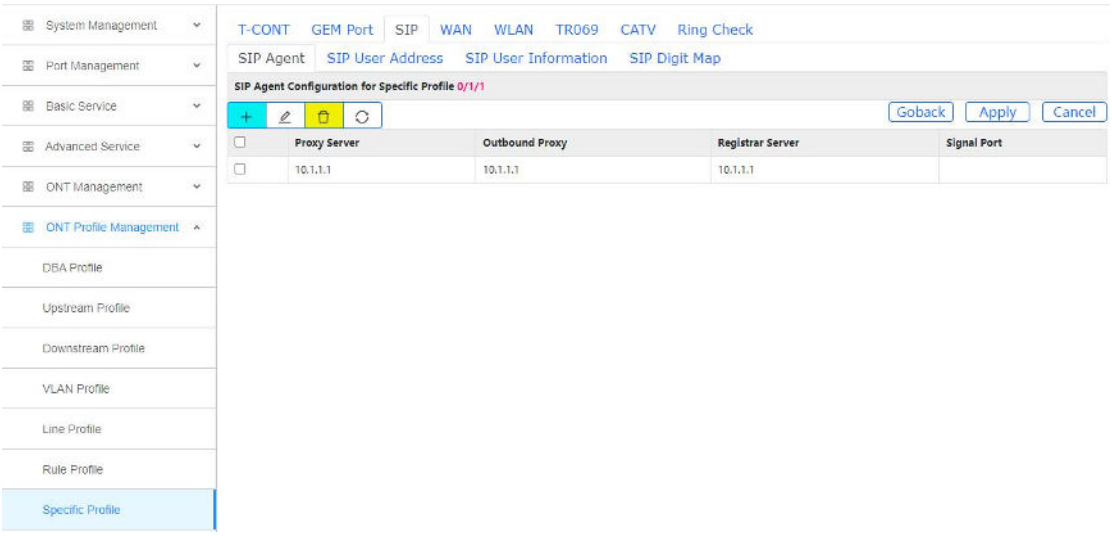


Figure 7-17

7.7.3.1 SIP User Address

1.Click Config->ONT Profile Management->Specific Profile->Detail->SIP->SIP User Address

2.This page is used to configure SIP user address, optional DHCP or static address.

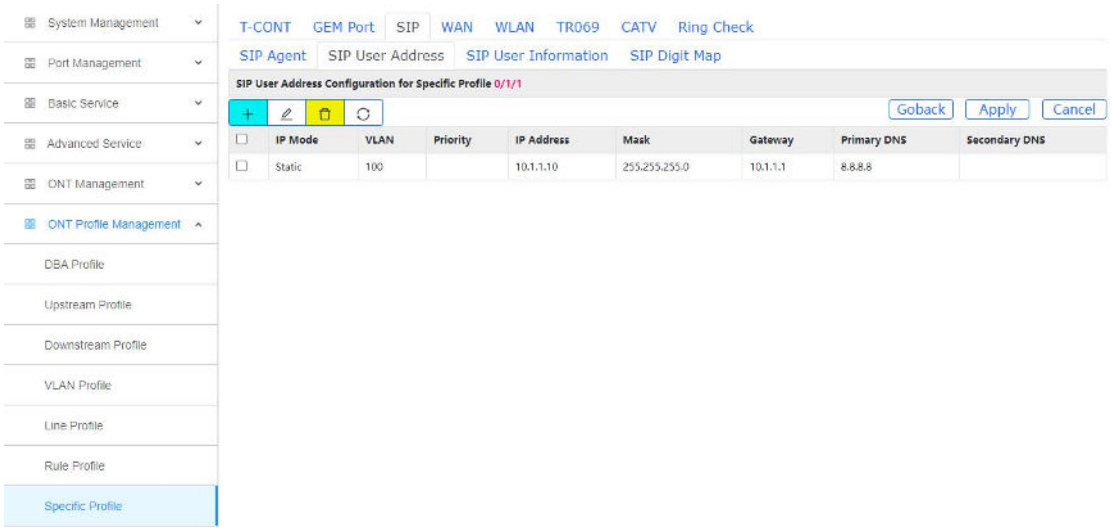


Figure 7-18

7.7.3.2 SIP User Information

1.Click Config->ONT Profile Management->Specific Profile->Detail->SIP->SIP User Information

2.This page is used to configure SIP user account and password.

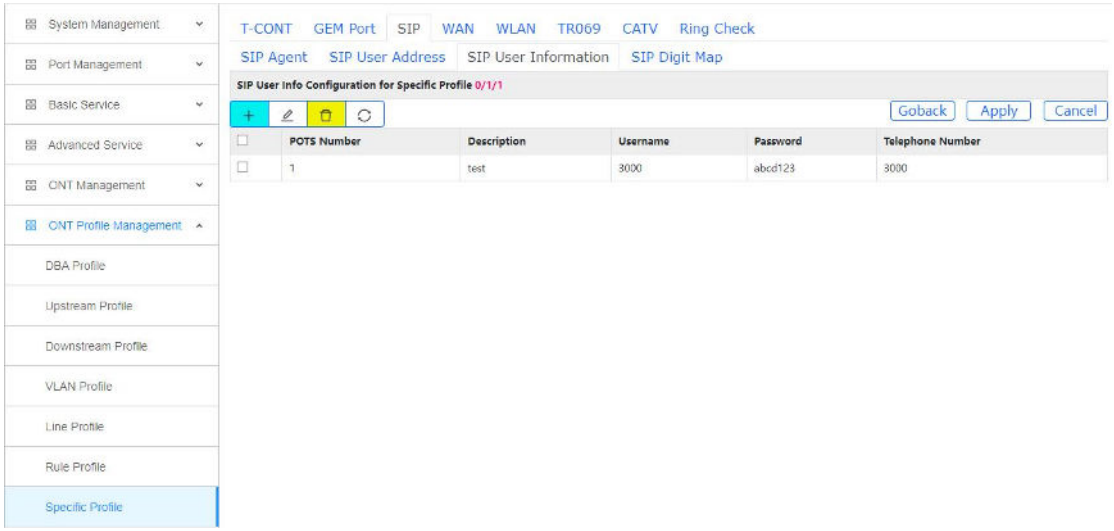


Figure 7-19

7.7.3.3 SIP Digit Map

1.Click Config->ONT Profile Management->Specific Profile->Detail->SIP->SIP Digit Map

2.This page is used to configure SIP digit map.

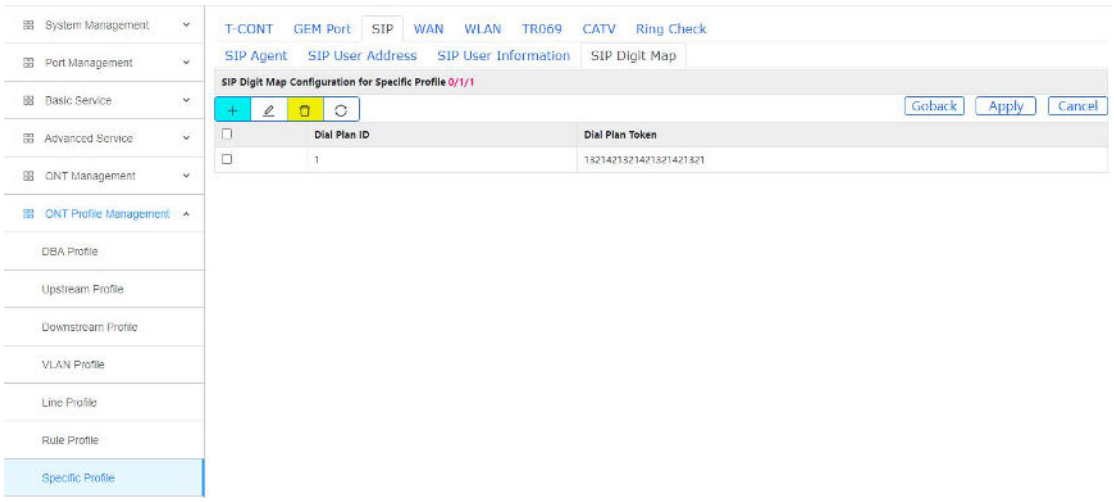


Figure 7-20

7.7.4 WAN

1.Click Config->ONT Profile Management->Specific Profile->Detail->WAN

2.This page is used to configure the WAN of the ONU, up to four.

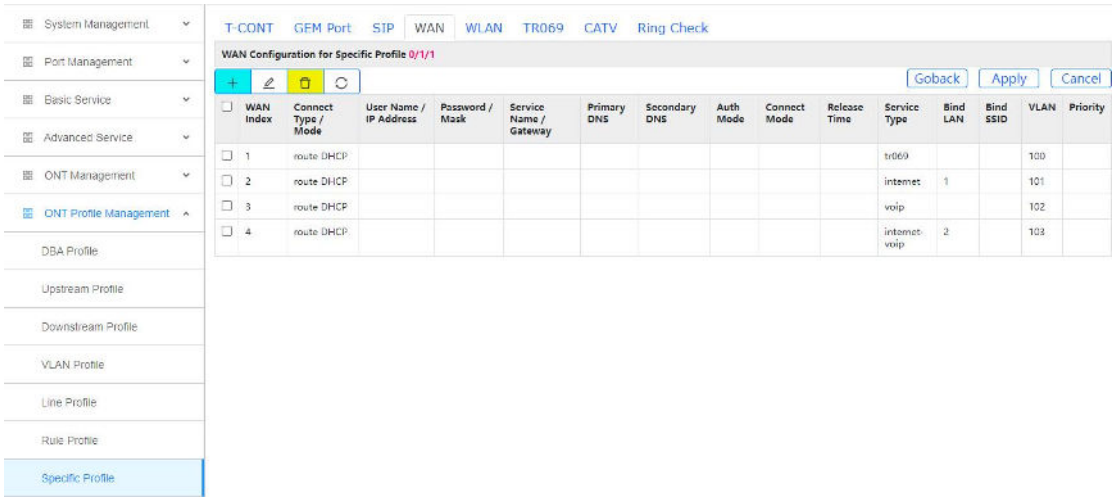


Figure 7-21

7.7.5 WLAN

1.Click Config->ONT Profile Management->Specific Profile->Detail->WLAN

2.This page is used to configure WIFI password and bind WIFI profile.

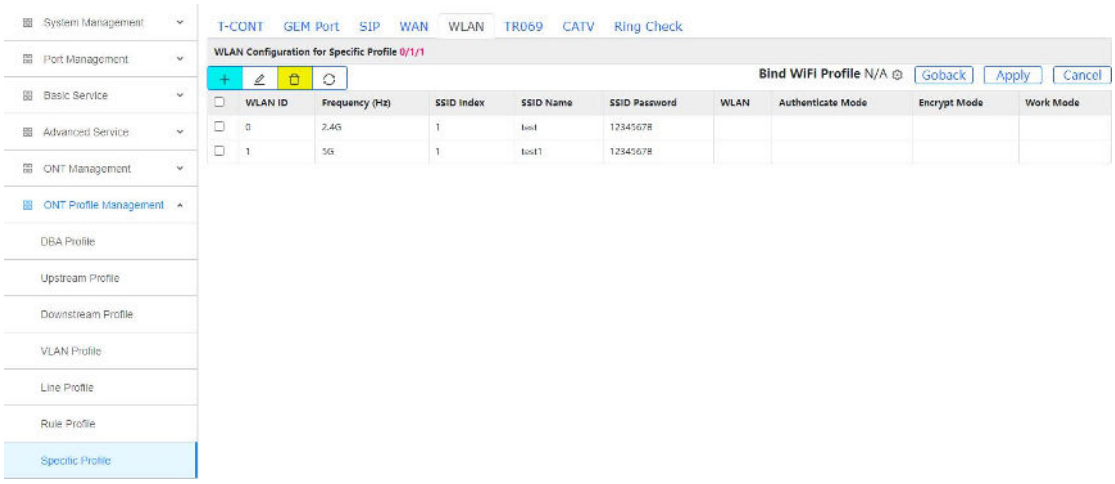


Figure 7-22

7.7.6 TR069

1.Click Config->ONT Profile Management->Specific Profile->Detail->TR069->TR069 STUN
2.This page is used to configure TR069 STUN.

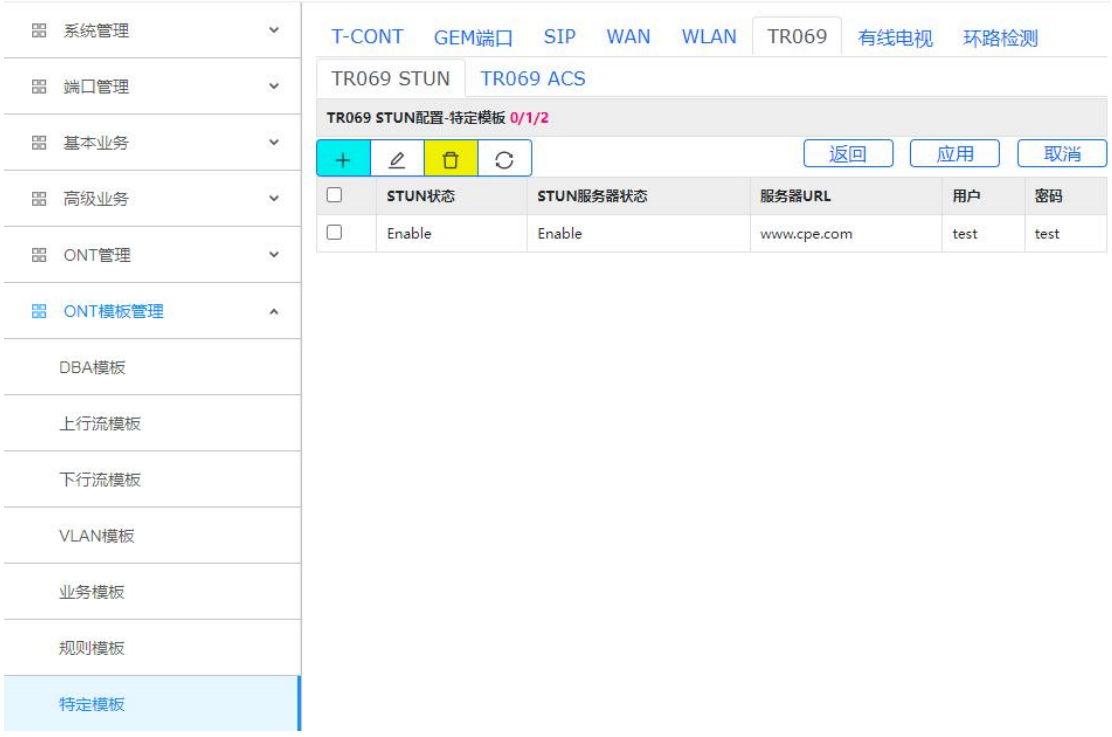


Figure 7-23

7.7.6.1 TR069 ACS

1.Click Config->ONT Profile Management->Specific Profile->Detail->TR069->TR069 ACS
2.This page is used to configure TR069 ACS.

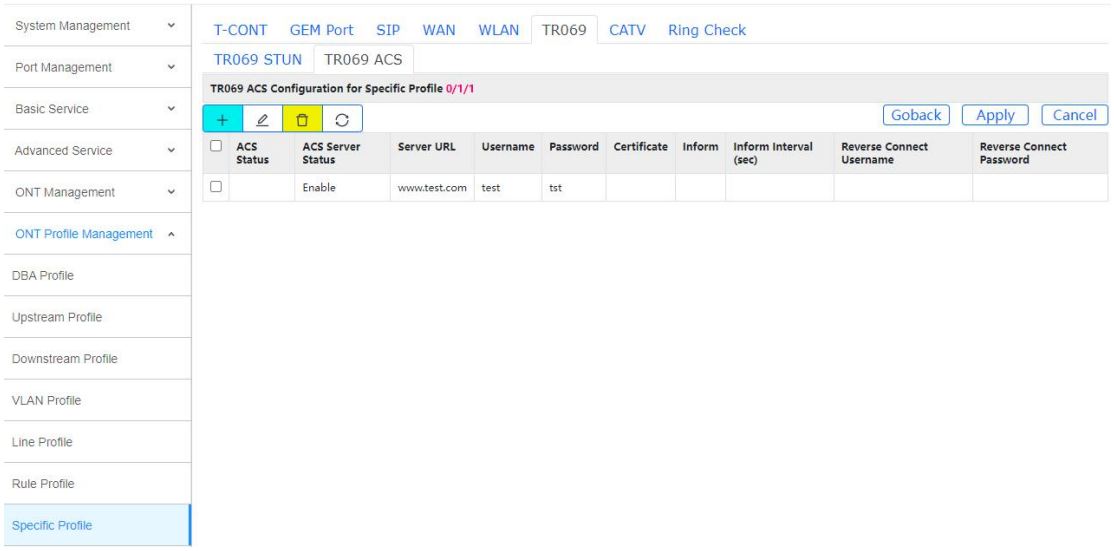


Figure 7-24

7.7.7 CATV

1.Click Config->ONT Profile Management->Specific Profile->Detail->CATV

2.This page is used to configure CATV functions.

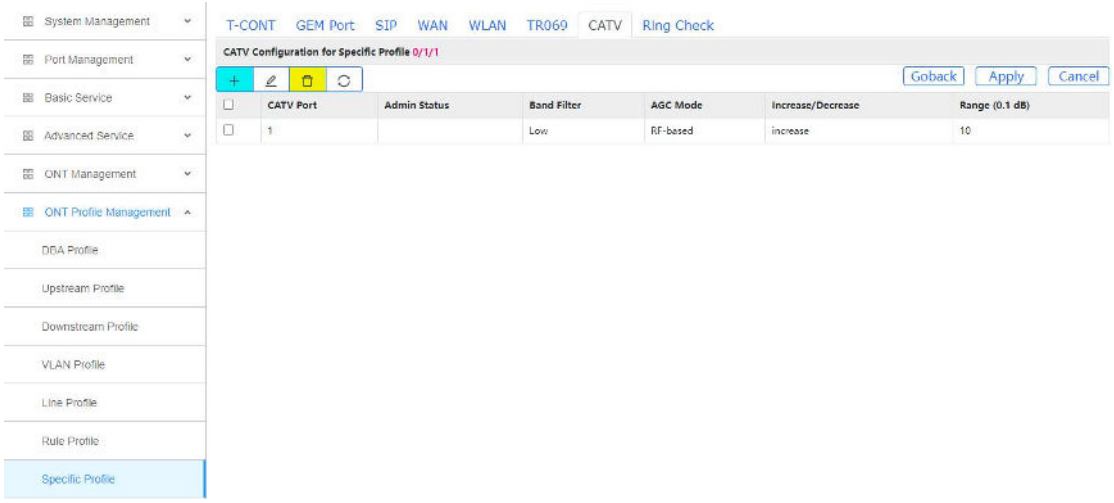


Figure 7-25

7.7.5 Ring Check

1.Click Config->ONT Profile Management->Specific Profile->Detail->Ring Check

2.This page is used to configure the loop detection function of ONT.

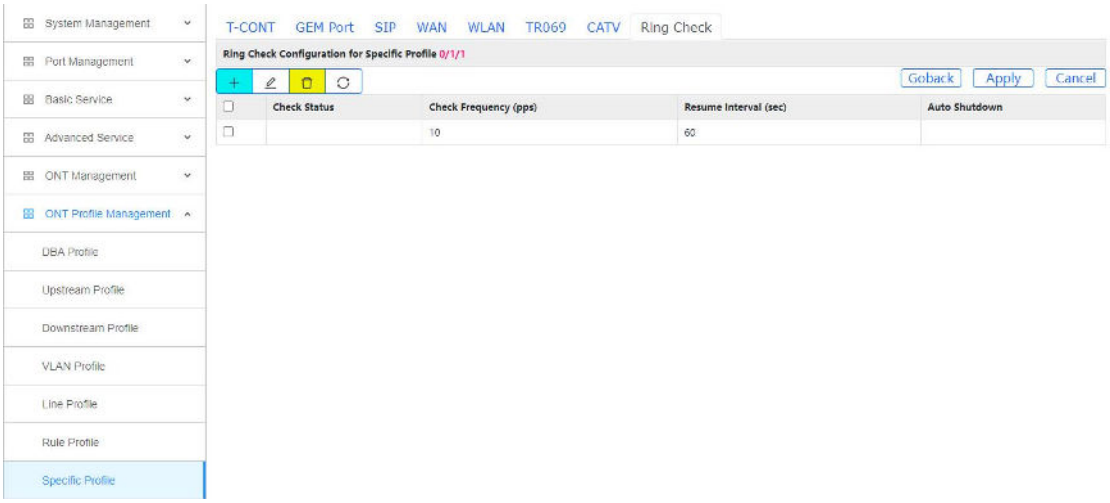


Figure 7-26

7.7 Alarm Profile

1.Click Config->ONT Profile Management->Alarm Profile

2.This page is used to configure the optical power alarm profile. The alarm profile needs to be bound and used in the line profile.

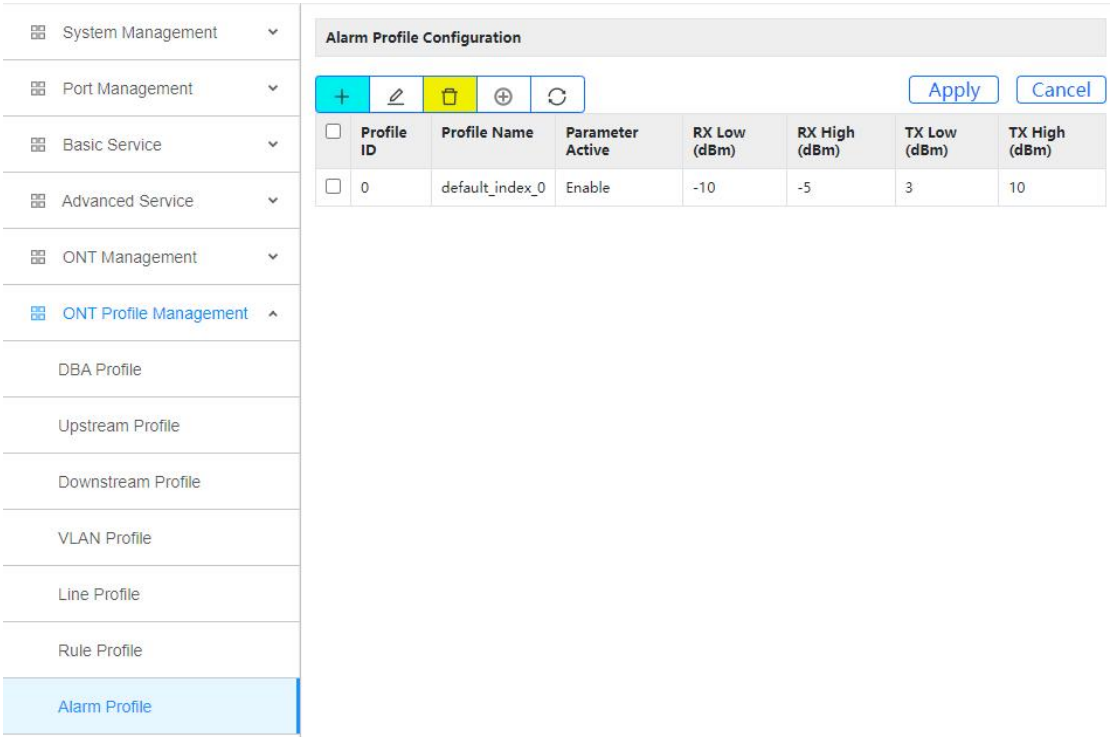


Figure 7-27

7.8 Multicast Profile

1.Click Config->ONT Profile Management->Multicast Profile

2.This page is used to create a multicast profile. Multicast profile needs to be bound and used in the line profile.

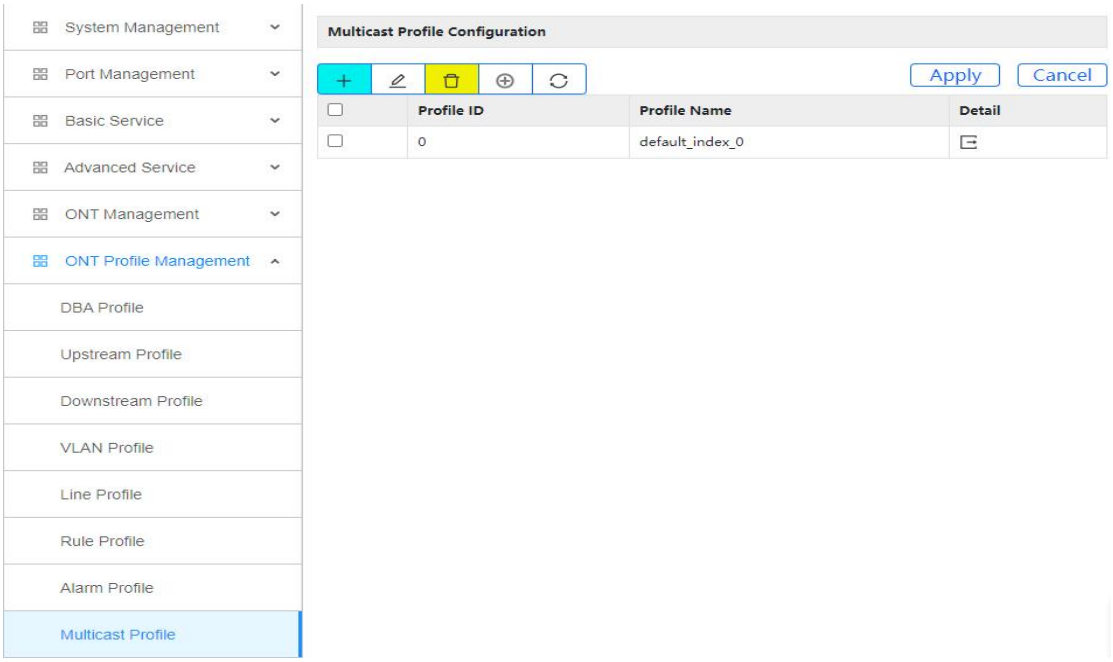


Figure 7-28

7.8.1 Multicast Profile Configuration

1.Click Config->ONT Profile Management->Multicast Profile->Detail

2.This page is used to configure the multicast profile.

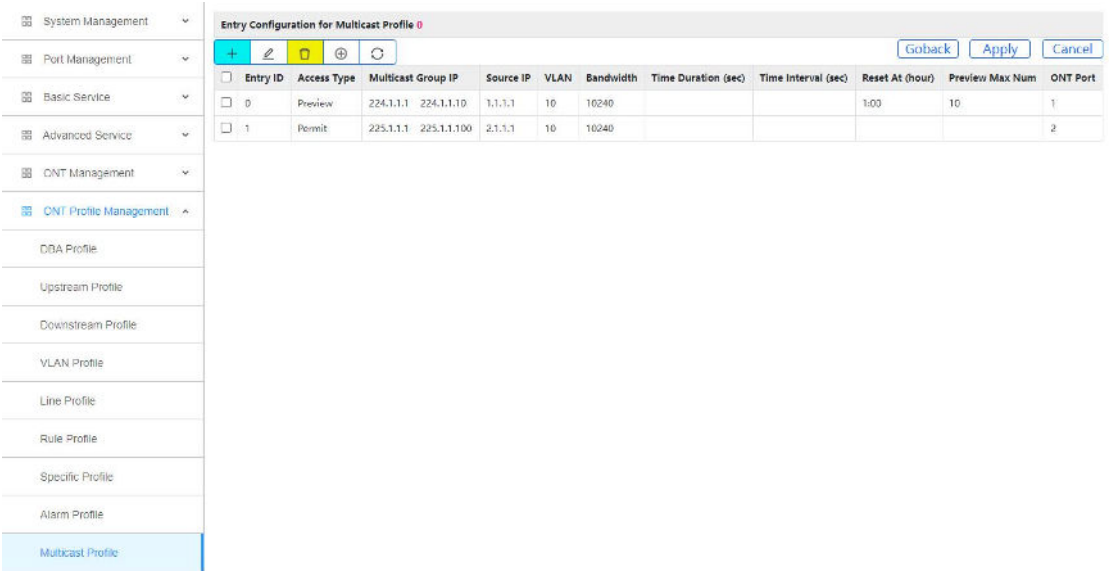


Figure 7-29

7.10 WIFI Profile

1.Click Config->ONT Profile Management->WIFI Profile
2.This page is used to configure the WIFI profile.

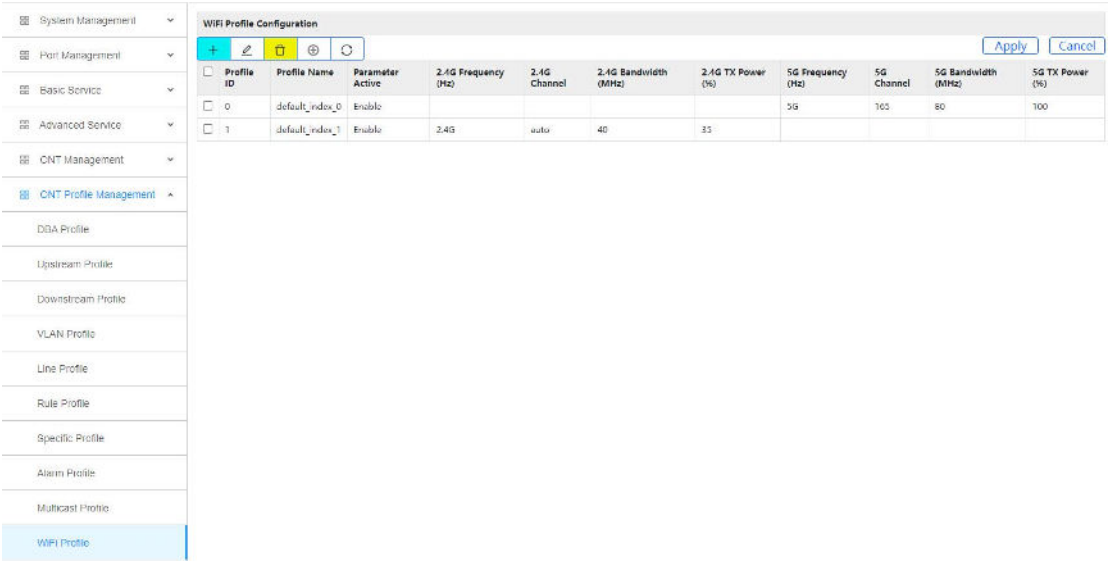


Figure 7-30

7.11 ONT Profile Relation

1.Click Config->ONT Profile Management->ONT Profile Relation
2.This page is used to view and modify ONT template relationships.

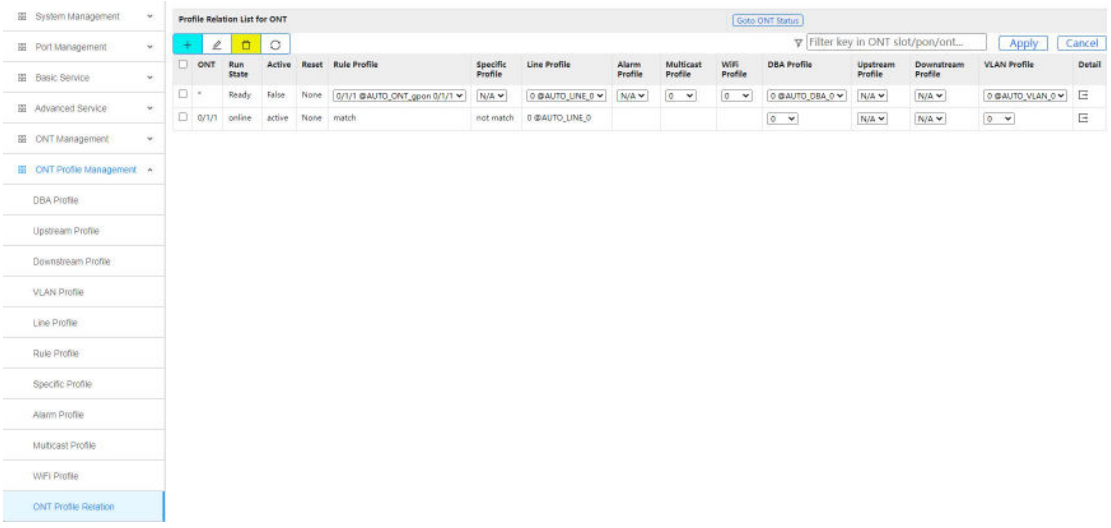


Figure 7-31

Chapter 8 Maintain

8.1 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 8-1

8.2 Configuration Operation

Configuration operations include upload, download and save configuration.

8.2.1 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.



Figure 8-2

8.2.2 Configuration Save

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

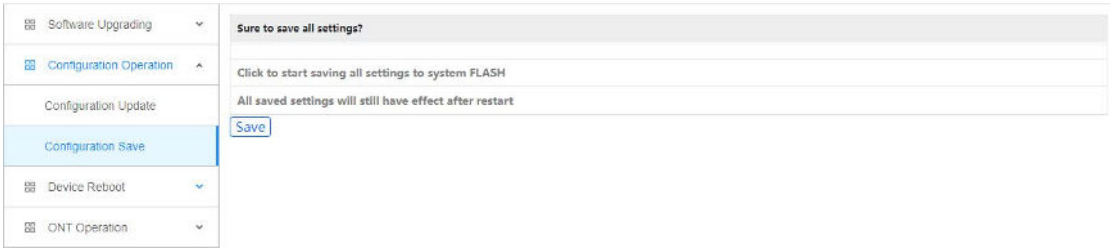


Figure 8-3

8.3 Device Reboot

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

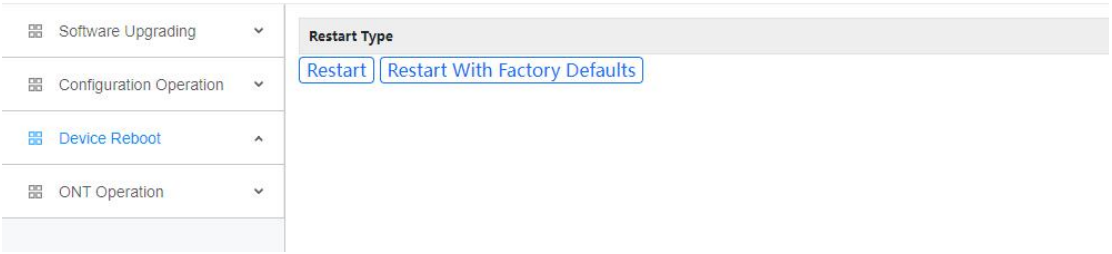


Figure 8-4

8.4 ONT Operation

ONU operations include upgrade the ONT and restart the ONT.

8.4.1 Software Upgrade

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

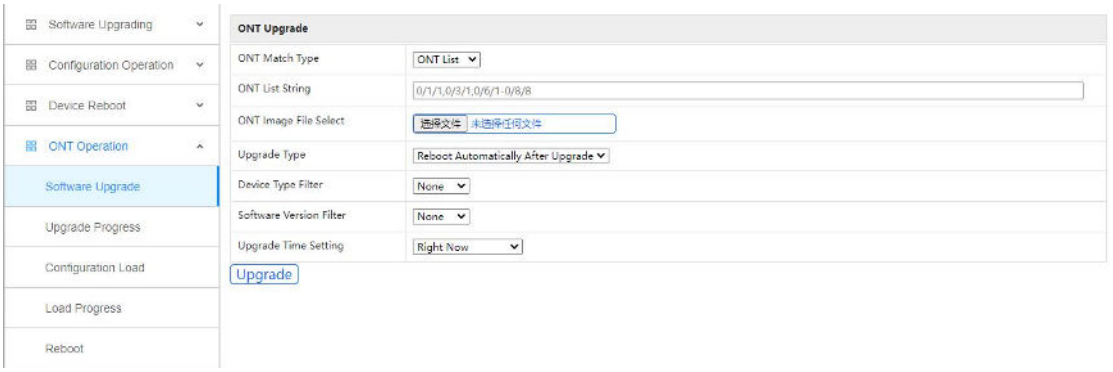


Figure 8-5

8.4.4 Upgrade Progress

1. Click Maintain->ONT Operation->Upgrade Progress
2. This page displays the upgrade progress of all ONTs.

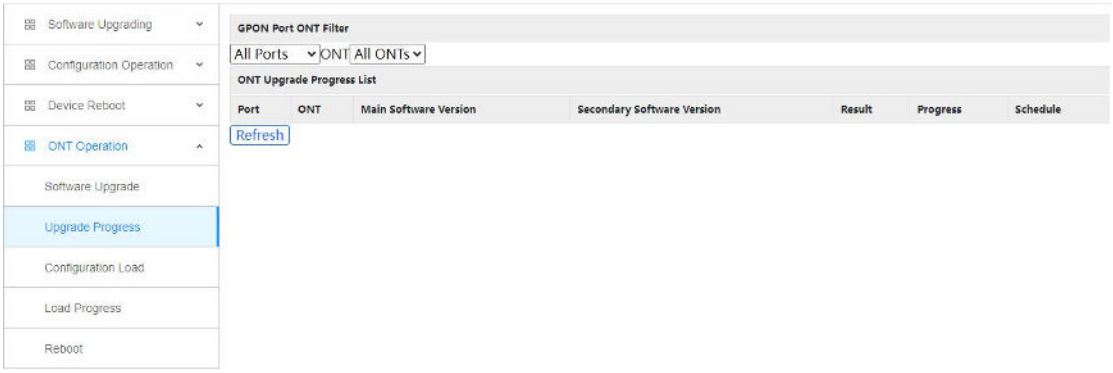


Figure 8-6

8.4.5 Configuration Load

1. Click Maintain->ONT Operation->Configuration Load
2. This page configures ONT XML configuration file load. The information is defined in a vendor-specific deployment descriptor.

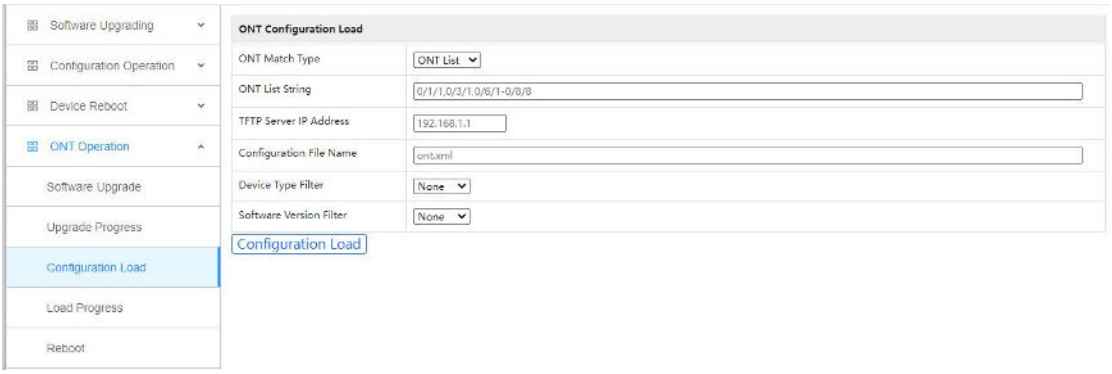


Figure 8-7

8.4.4 Load Progress

1. Click Maintain->ONT Operation->Load Progress
2. This page displays the XML configuration file load progress of all ONTs.

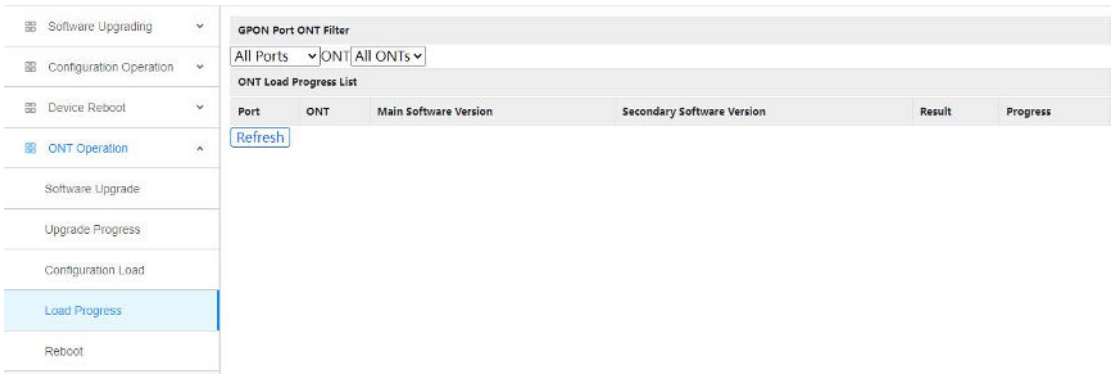


Figure 8-8

8.4.5 ONT Reboot

1. Click Maintain->ONT Operation->Reboot
2. This page restarts a single ONT or batches of ONTs.



Figure 8-9