Chapter 4: Basic Service

Table of Contents

Chapter 4 Basic Service

Basic services include VLAN, management IP, Layer2 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.

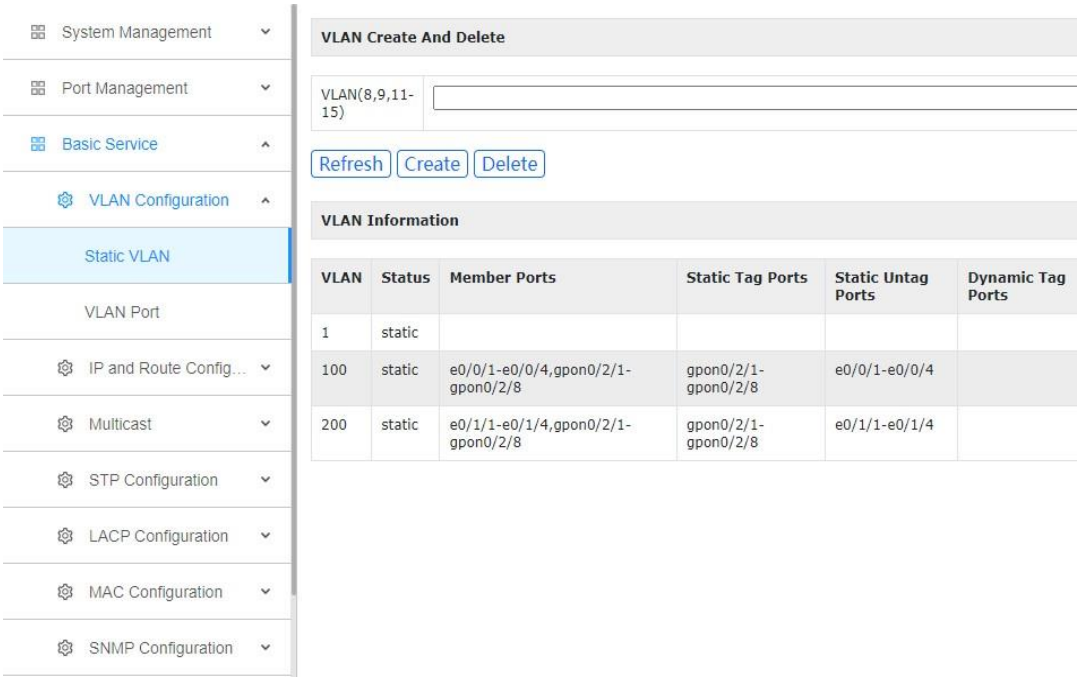

Figure 4-1

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.

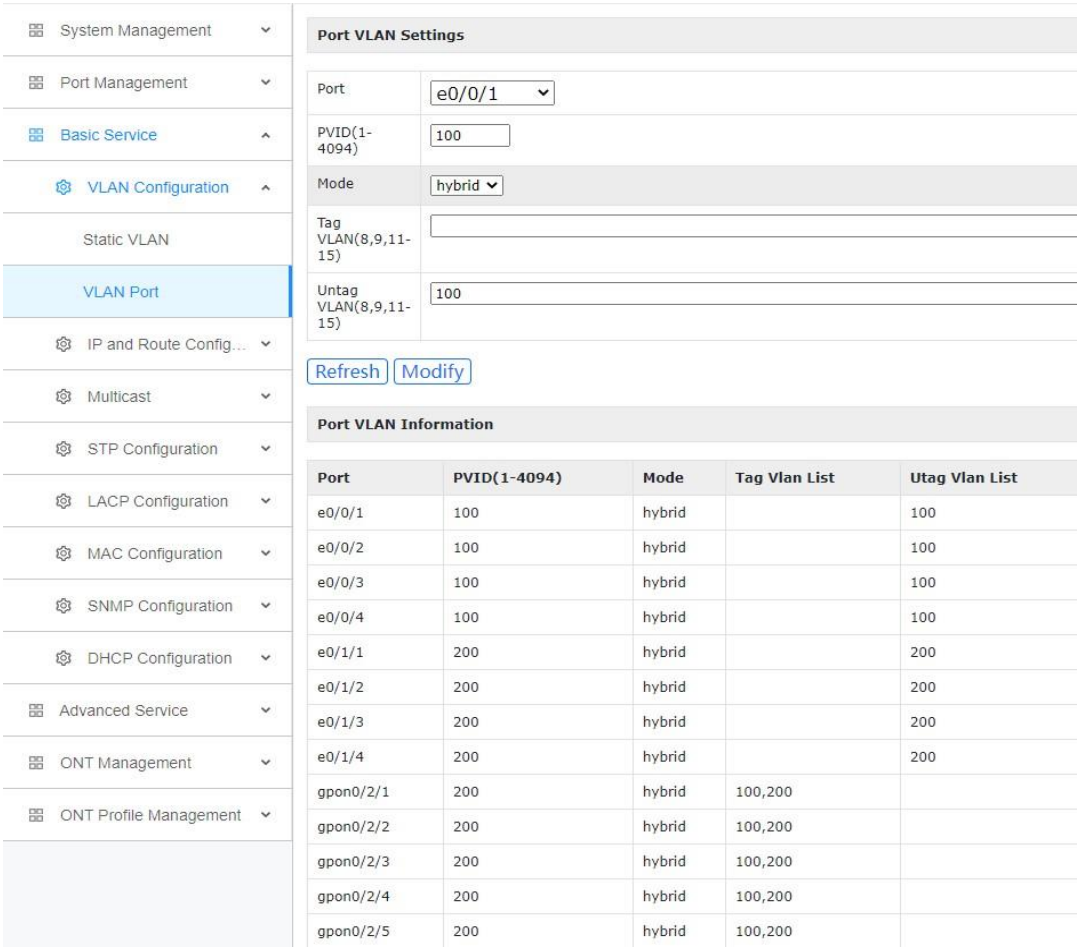

Figure 4-2

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.

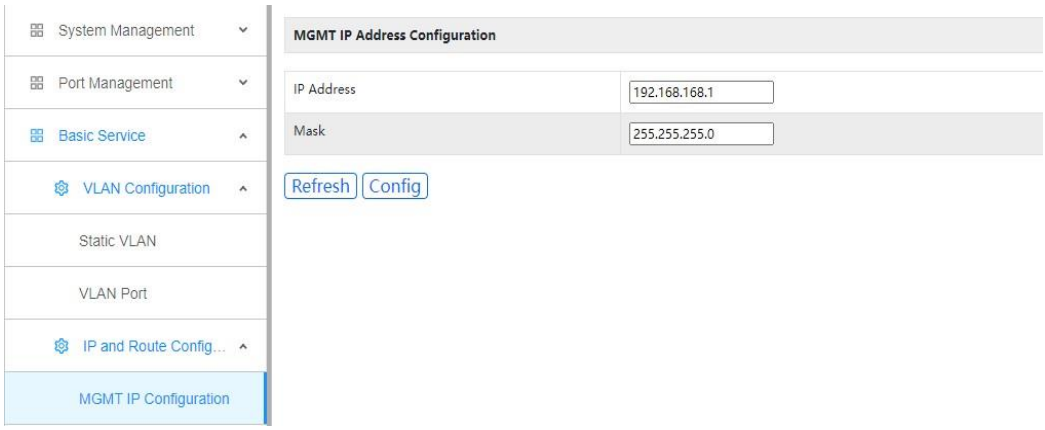

Figure 4-3

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.

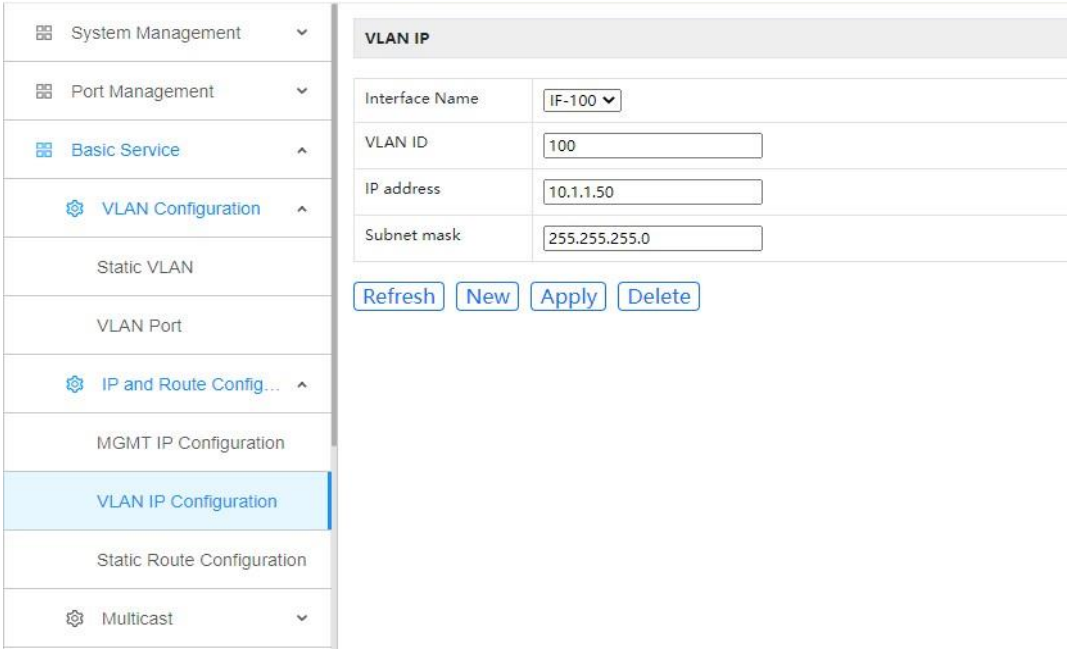

Figure 4-4

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.

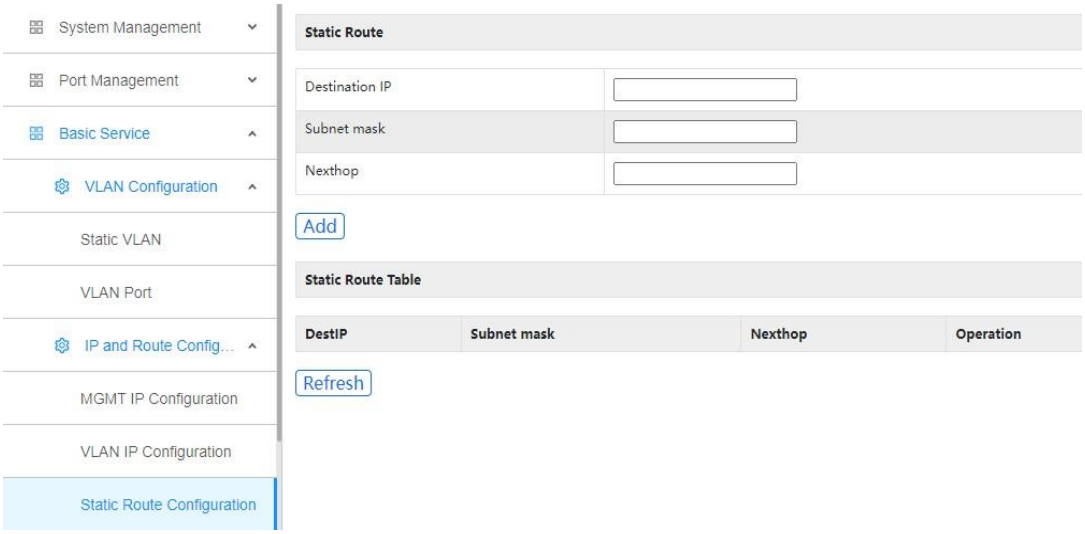

Figure 4-5

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.

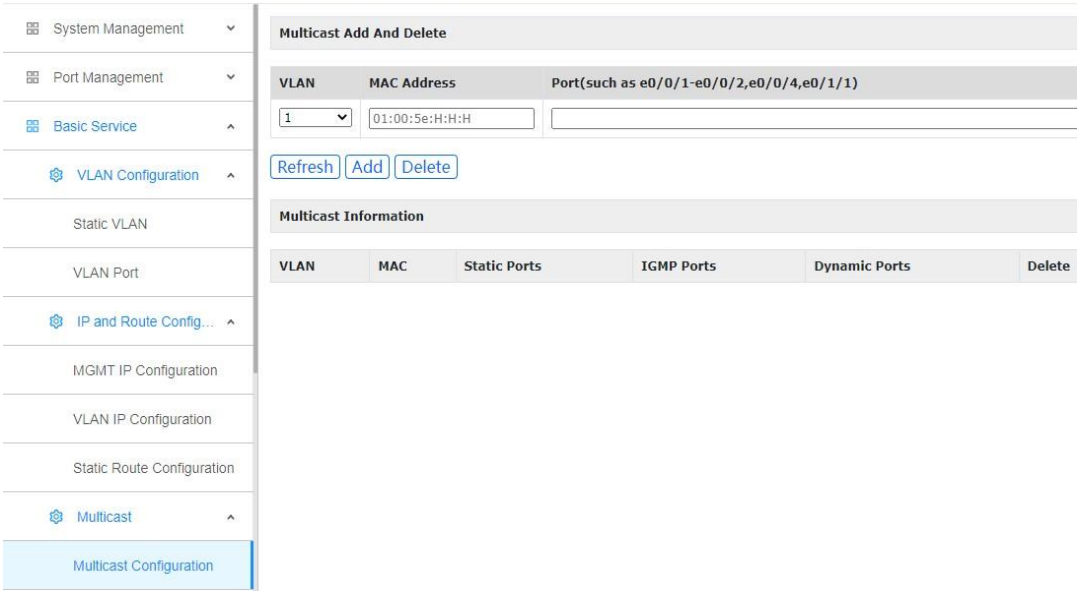

Figure 4-6

4.3.2 IGMP Configuration

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

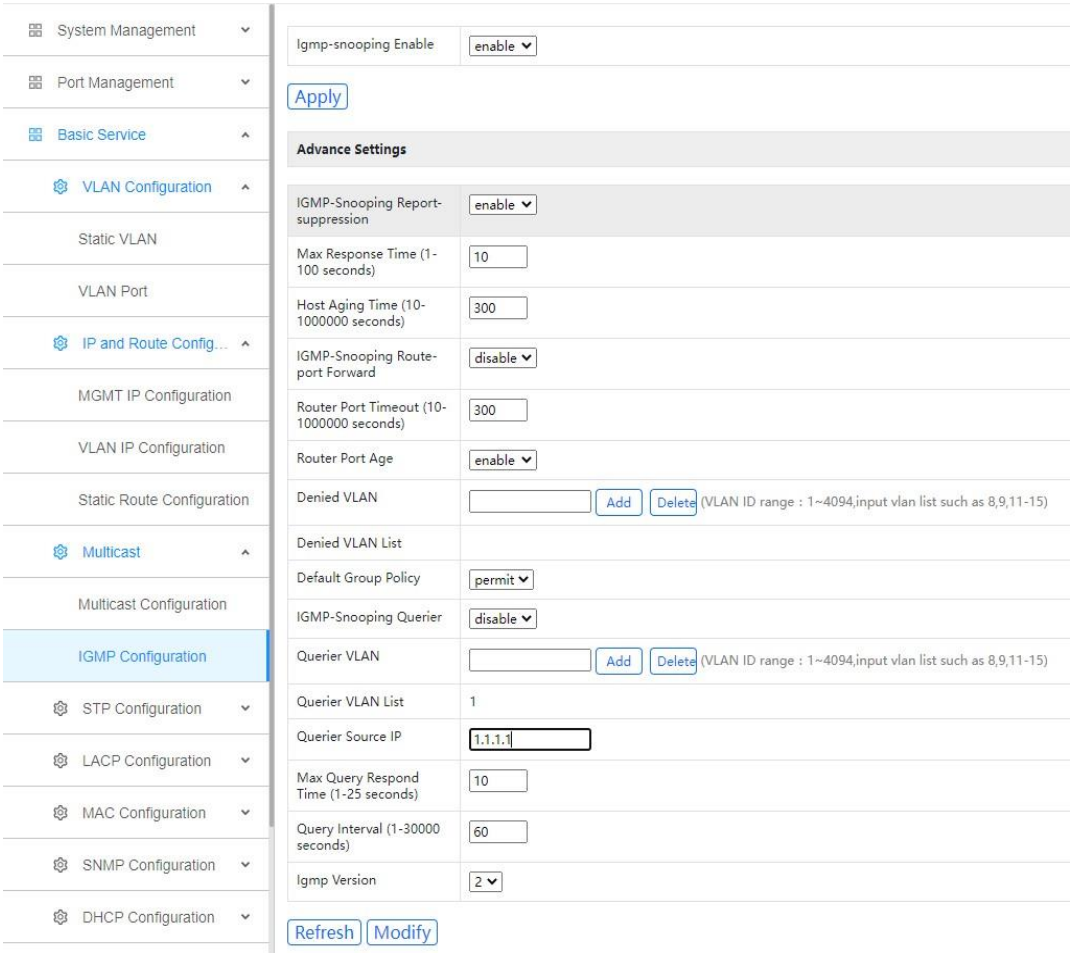

Figure 4-7

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.

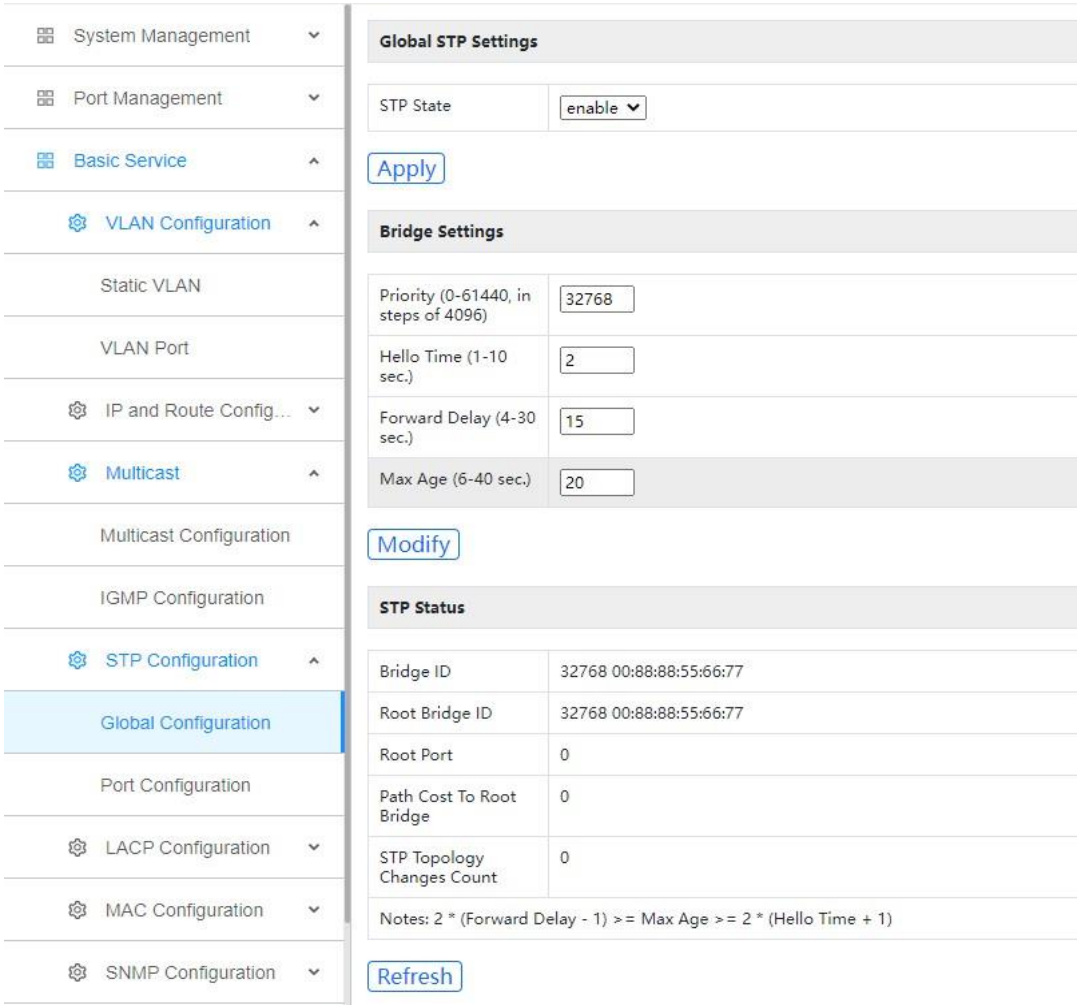

Figure 4-8

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.

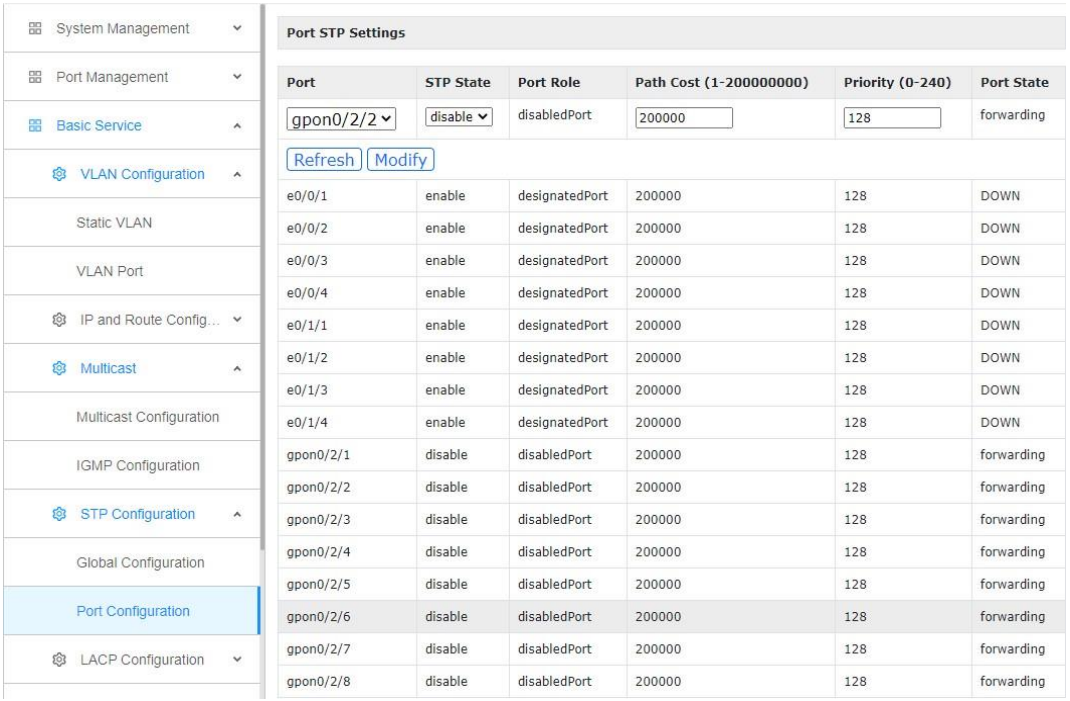

Figure 4-9

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.

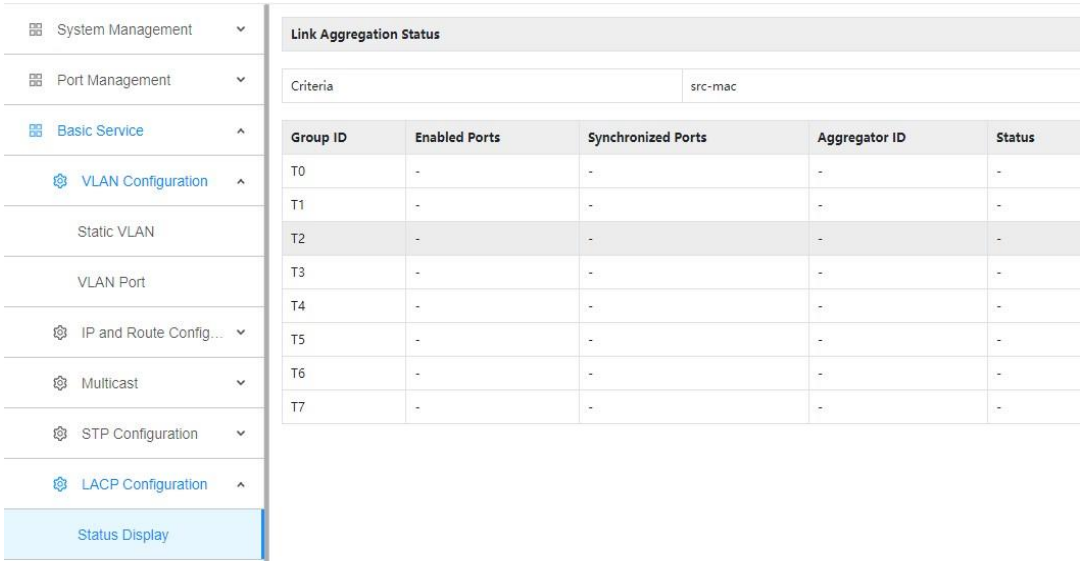

Figure 4-10

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.

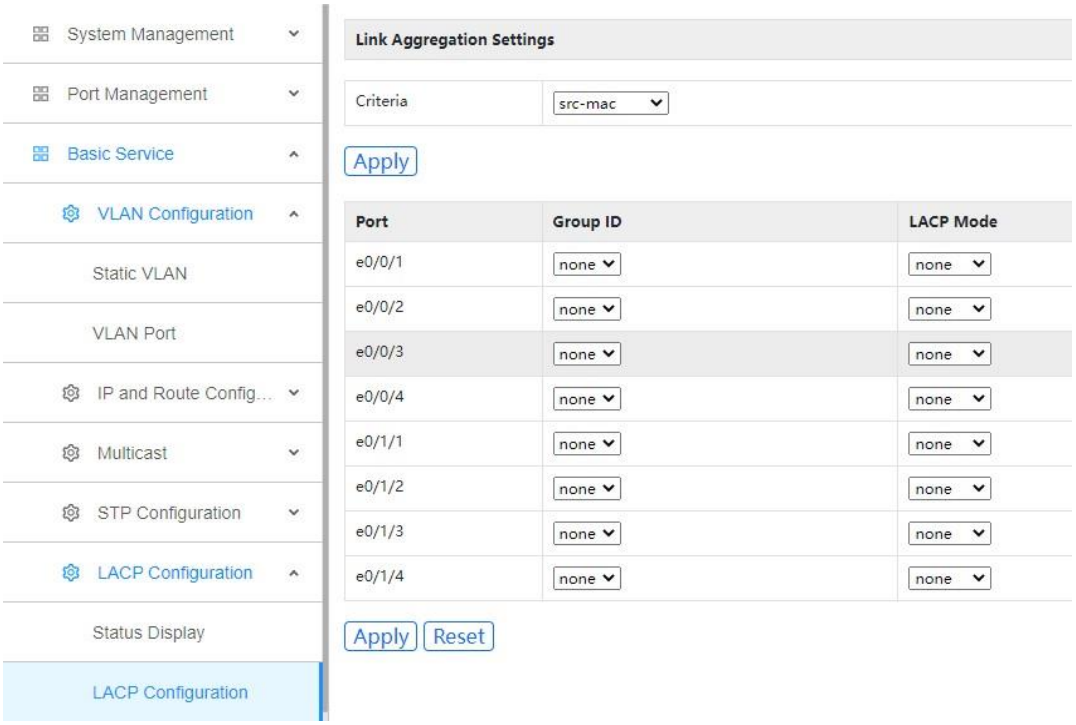

Figure 4-11

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.

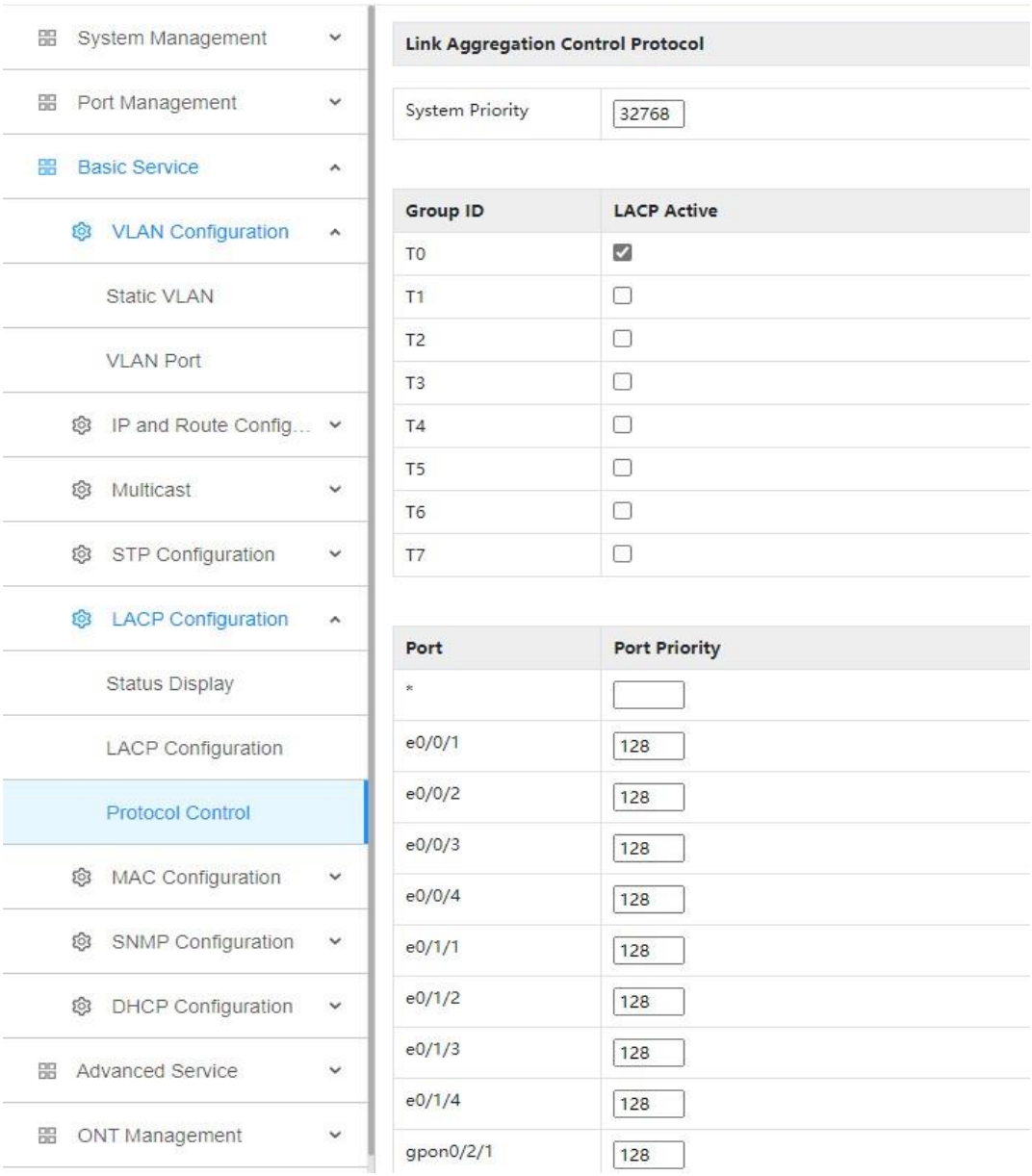

Figure 4-12

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 Display.
2. This page displays port-MAC binding status information.

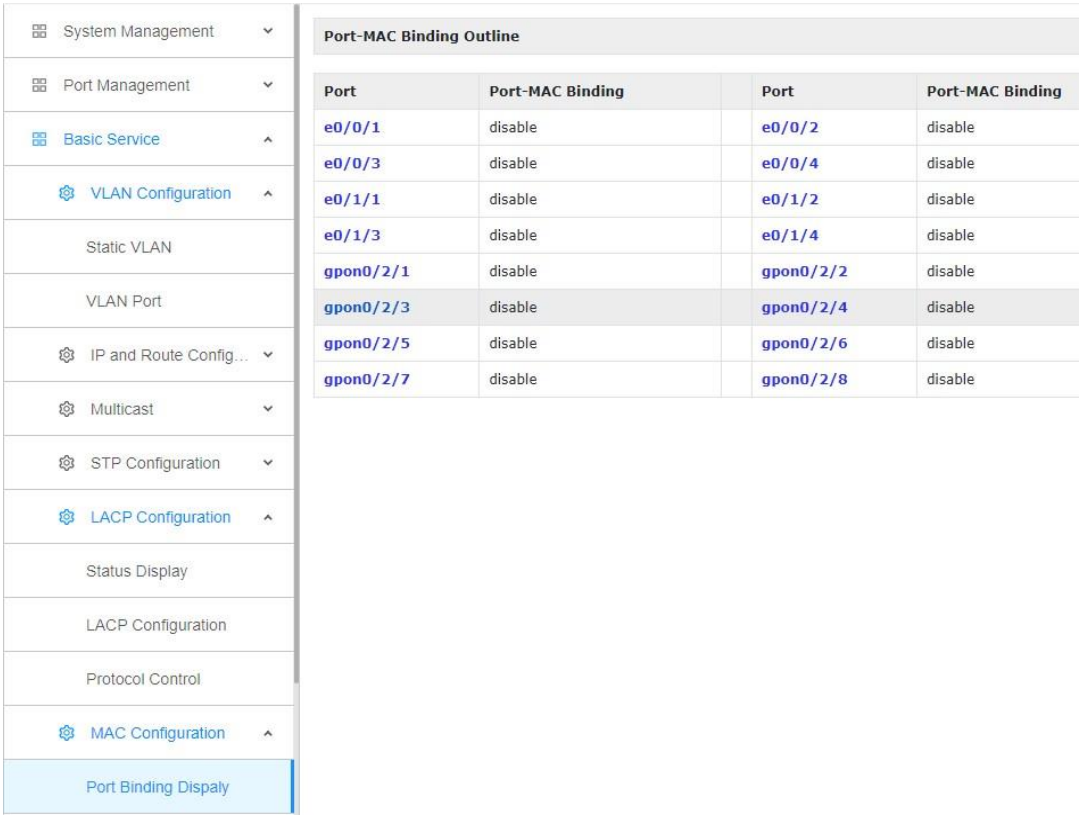

Figure 4-13

4.6.2 Port Binding Configuration

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

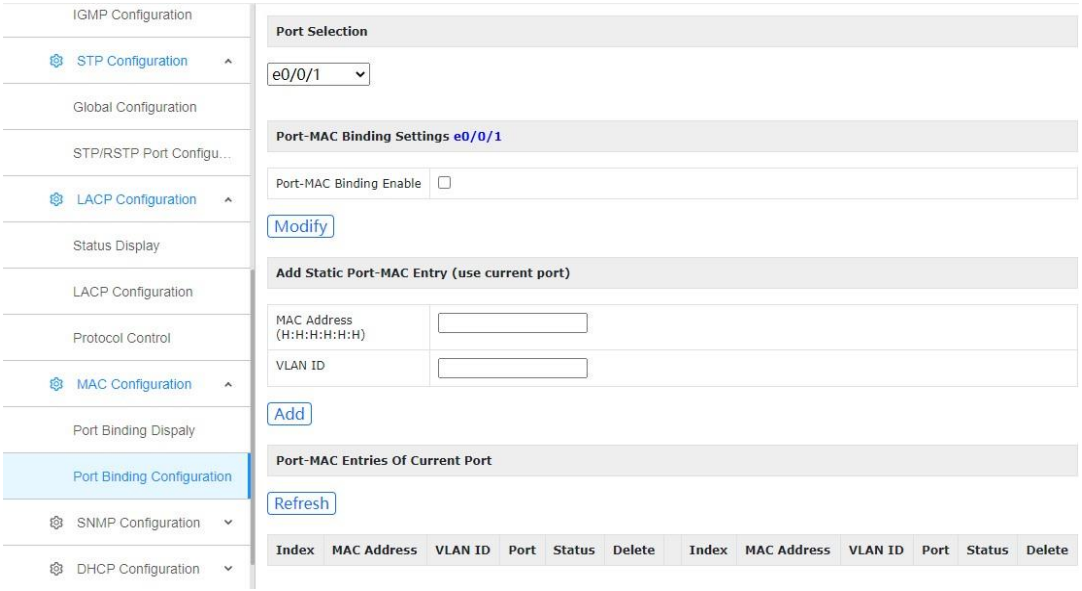

Figure 4-14

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 Community Configuration

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

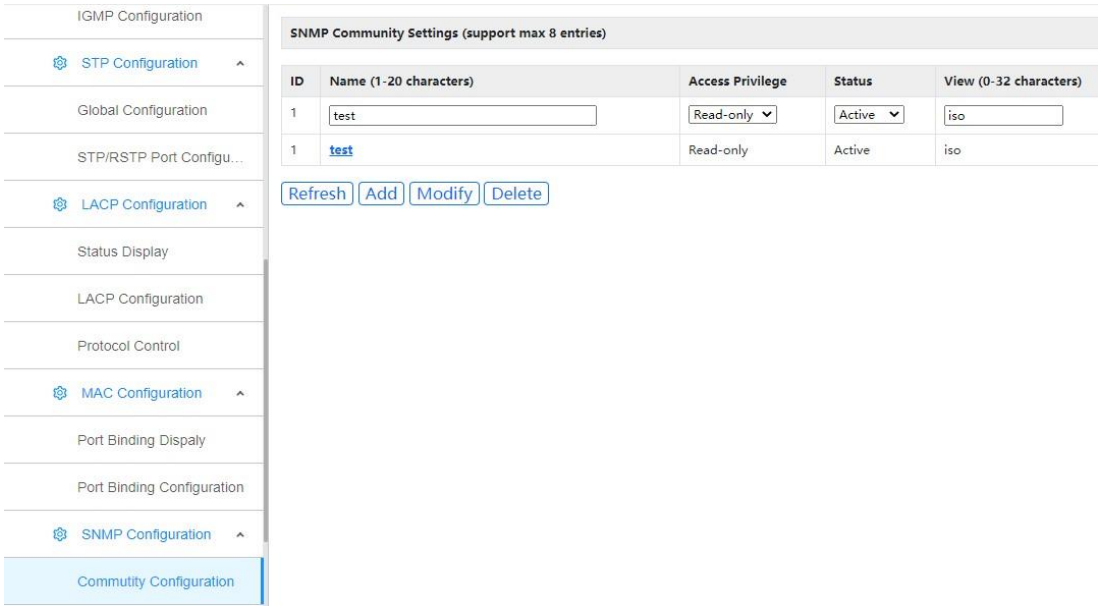

Figure 4-15

4.7.2 Trap Configuration

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

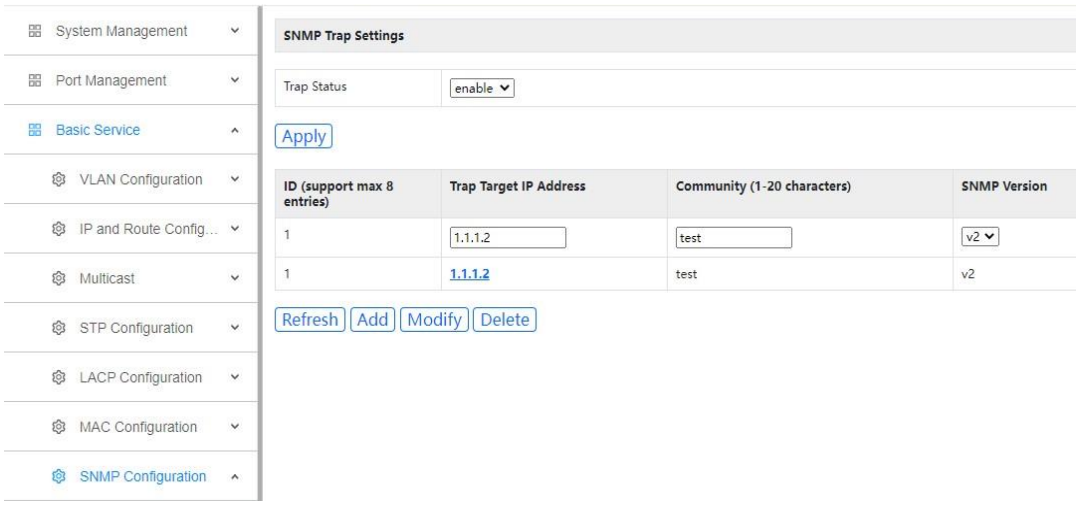

Figure 4-16

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.

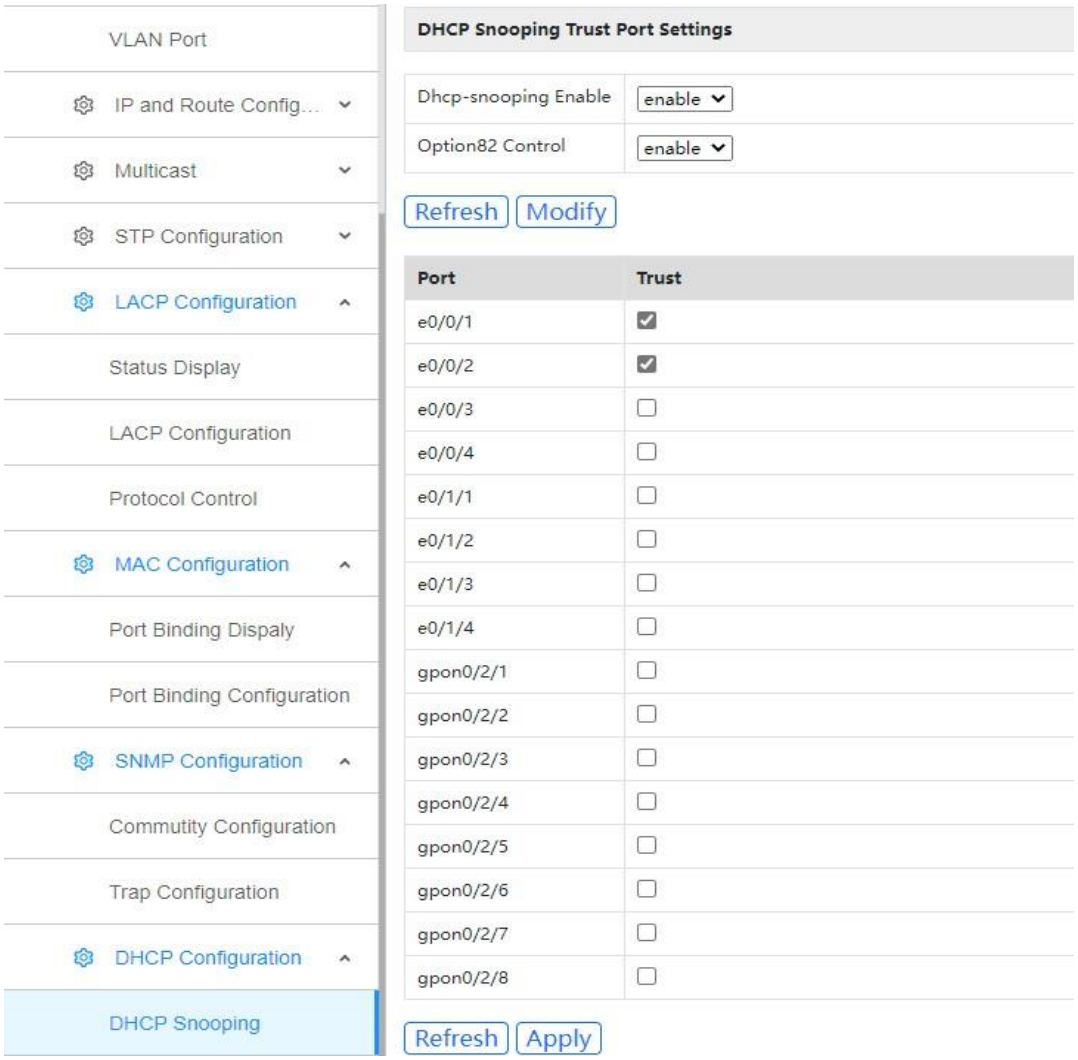

Figure 4-17

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.

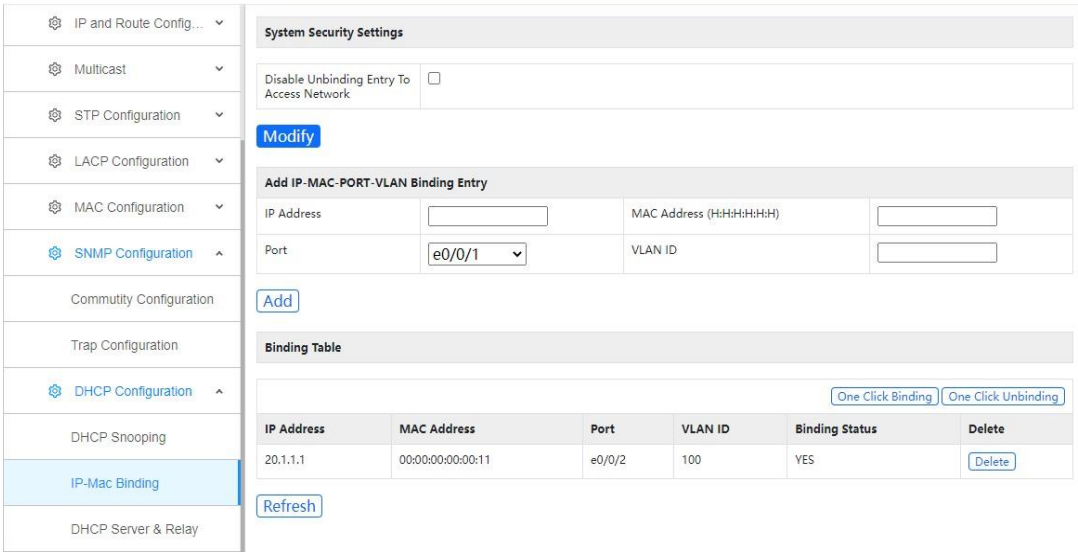

Figure 4-18

4.8.3 DHCP Server & Relay

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

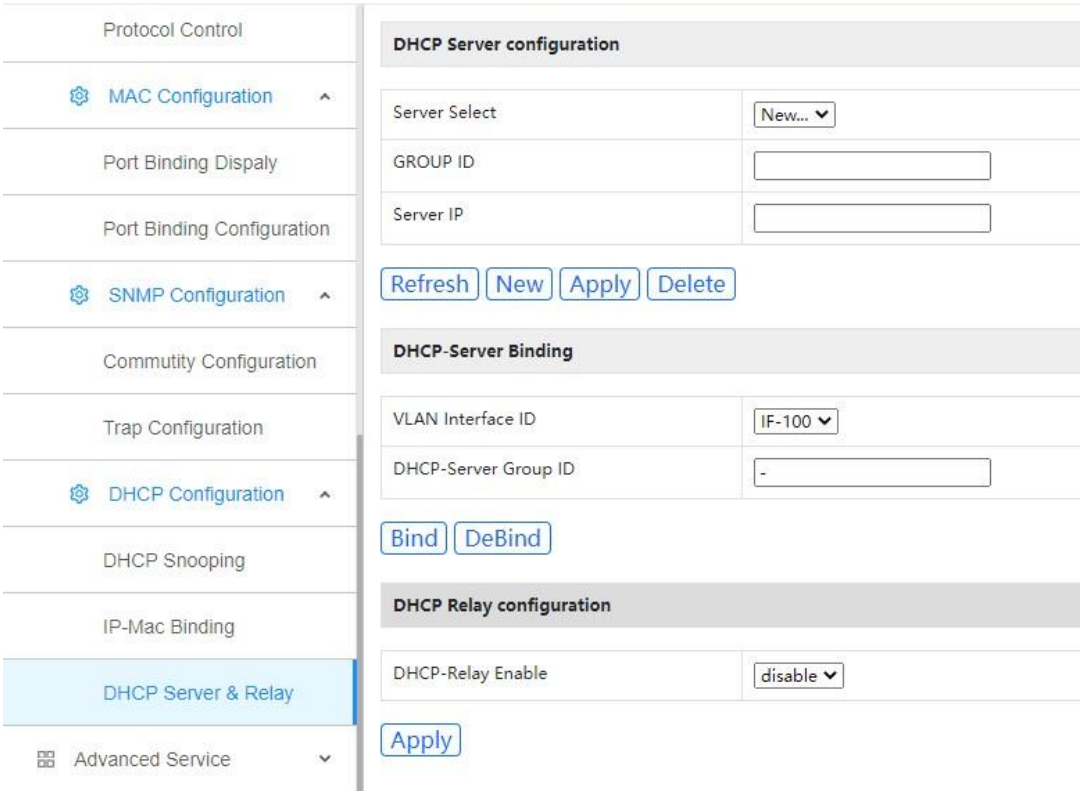

Figure 4-19