FIBERROAD

Web-based Network Management User Manual

About This Manual

Introduction

This document chapter includes an introduction to the Fiberroad Industrial Ethernet products family,

Conventions

This document contains notices, figures, screen captures, and certain text conventions.

Figures and Screen Captures

This document provides figures and screen captures as example. These examples contain sample data. This data may vary from the actual data on an installed system.

Jan 01, 2022

CONTENTS

Revision History

Version	Date	Author	Reasons of Change	Section(s) Affected
1.0	2022/3/16		Initial Release	All

Chapter 1 System Configurations

This chapter describes the port configuration in detail, including but not limit to the following:

- System Information
- IP Setting
- User Account
- Port Setting

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1. About Web-GUI Management

There is an embedded HTML web site residing in flash memory on CPU board of the switch, which offers advanced management features and allows users to manage the switch from anywhere on the network through a standard browser such as Mozilla Firefox or Chrome. (Note: Window IE is not supported) The Web-Based Management supports Mozilla Firefox 54.X or later, or Chrome 59.X or later. The Web browser is a program that can read hypertext.

1.1 Preparing for Web Management

Before using the web management, install the industrial switch on the network and make sure that any one of the PCs on the network can connect with the industrial switch through the web browser.
The industrial switch default value of IP, subnet mask, username and password are listed as below:

- IP Address: 192.168.1.6
- HTTP service: Enable
- User Name: admin
- Password: admin

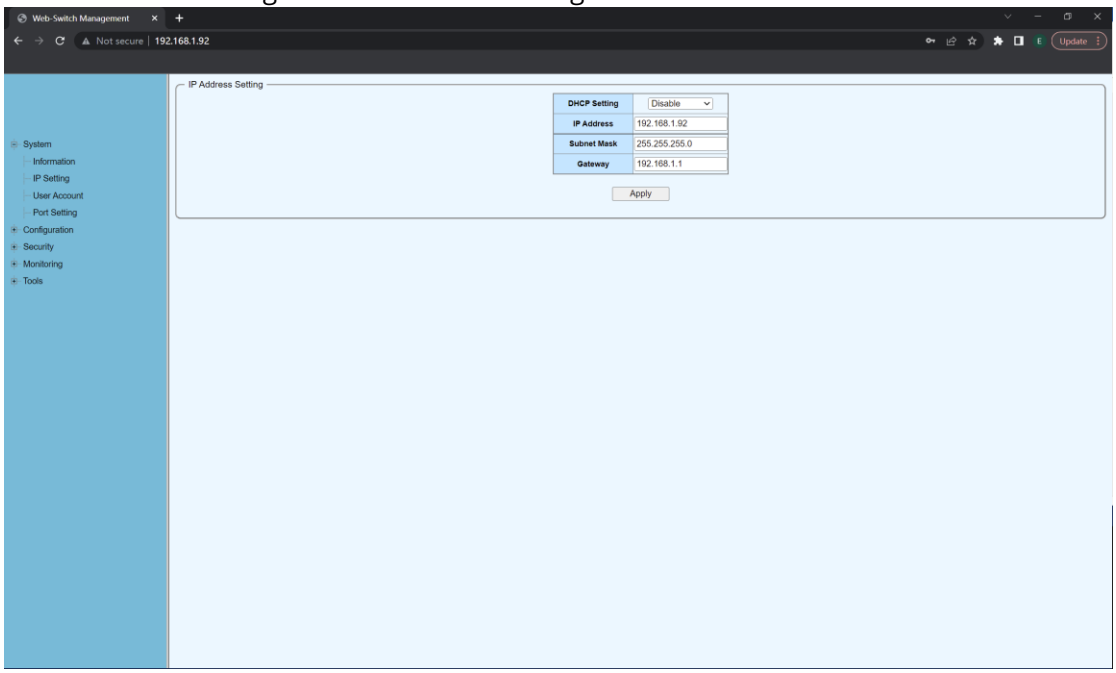
1.2 System

1.2.1 System Information

Overview the device information and port status.

1.2.2 System-IP Setting

The IP address setting surface is used to configure IP.

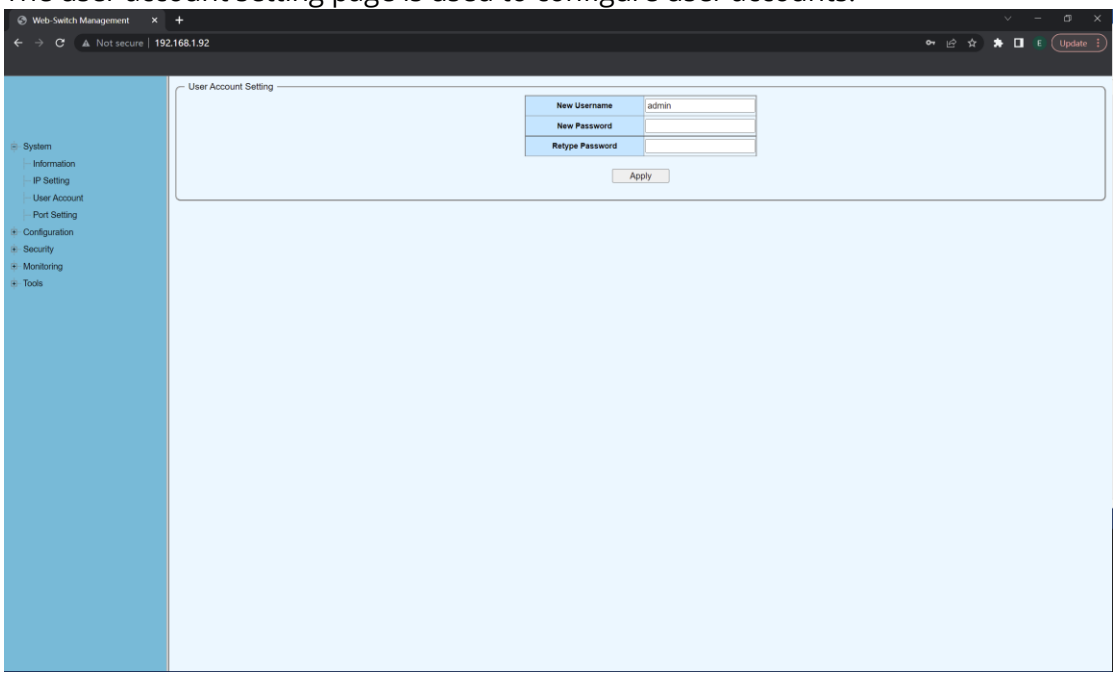


Item	Description	Notes
DHCP	Enable/Disable	When enabled, enable the DHC client to obtain the dynamic IP address. When disabled, use the configured static IP address.

IP Address	Default:192.168.1.6	Static IP Address
Subnet Mask	Default:255.255.255.0	Static IP subnet mask
Gateway	Default:192.168.1.1	Gateway Adress

1.2.3 System – User Account

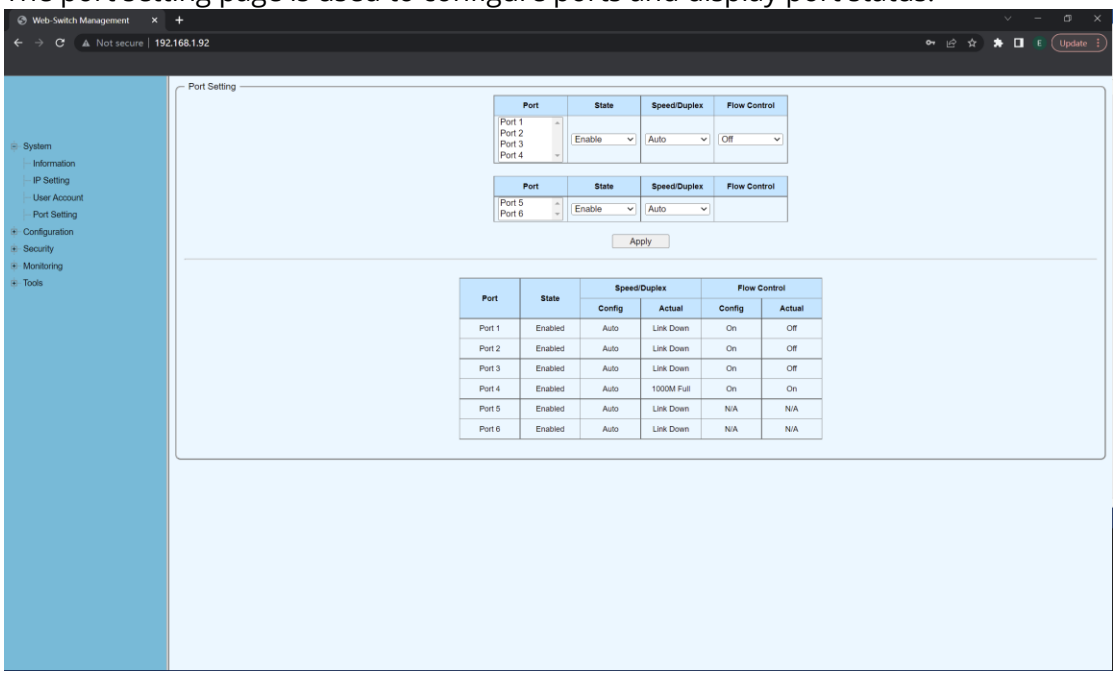
The user account setting page is used to configure user accounts.



Item	Description	Notes
New user name	Add a new user name	
New Password	Add a new user name	
Retype Password	Confirm the password of the new user	

1.2.4 System-Port Setting

The port setting page is used to configure ports and display port status.



Item	Description	Notes
Port 1-4	Lan (RJ45) Port	
Port 5-6	Optical Fiber Port	
State	Port state in enable/disable	
Speed/Duplex	**Port Speed or Mode** Speed/Duplex: Auto (Auto, 10M/Half, 10M/Full, 100M/Half, 100M/Full)	
Flow Control	On/Off	

Chapter 2 Network Configurations

This chapter describes the port configuration in detail, including but not limit to the following:

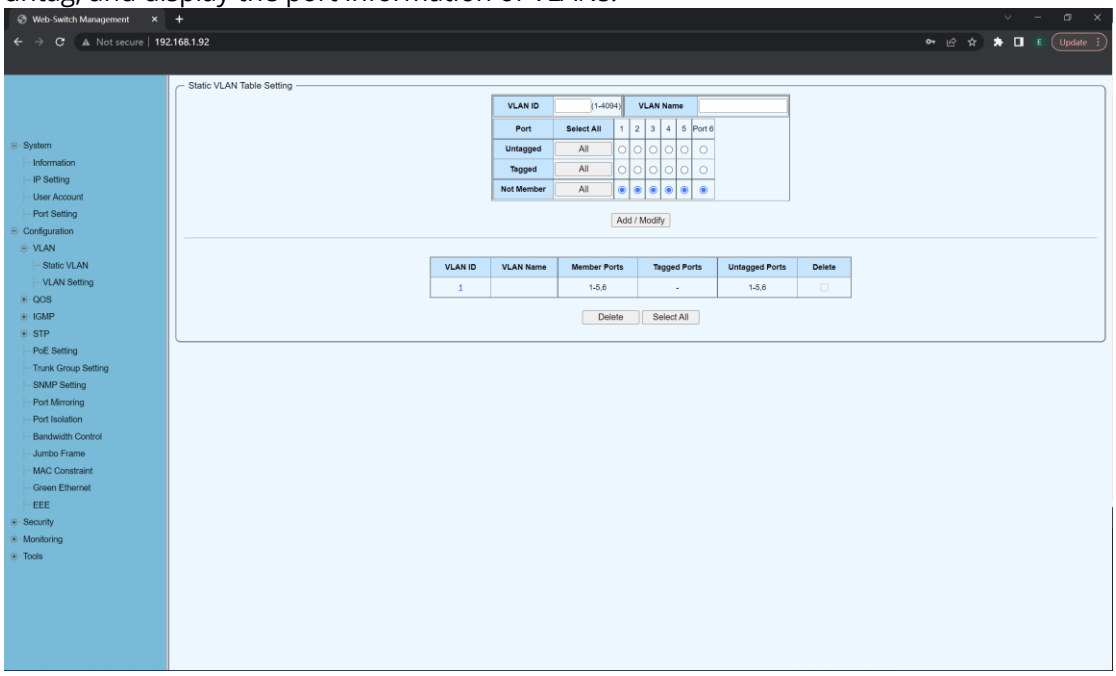
- VLAN
- QoS
- EEE
- Security

2. Configuration

2.1 Configuration-VLAN

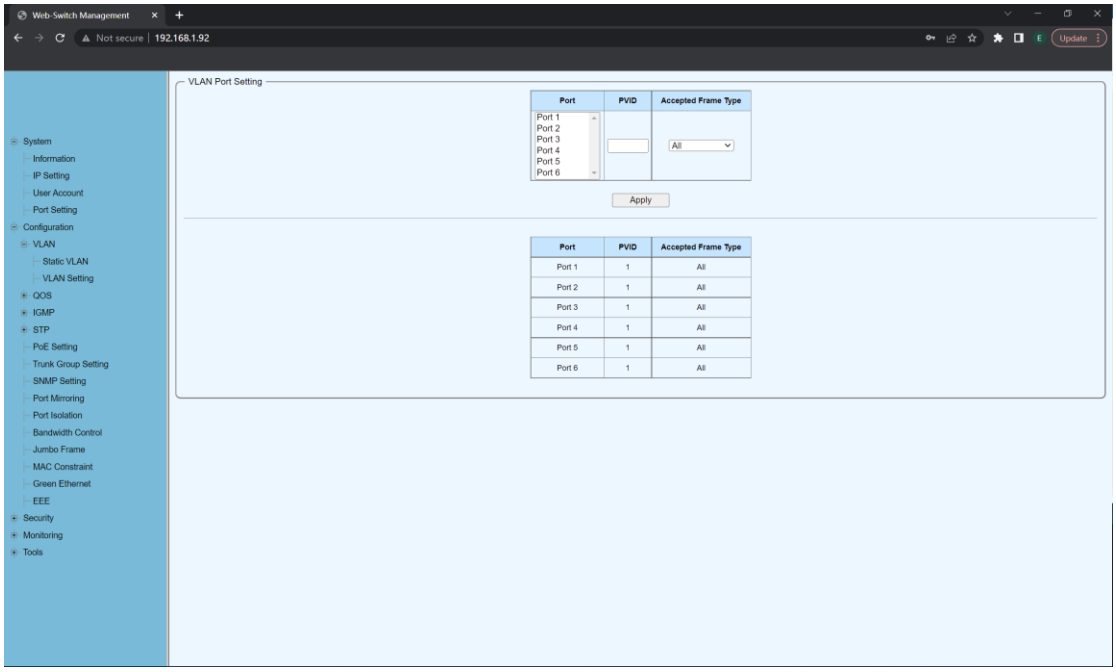
2.1.1 Configuyration-VLAN-Static VLAN

The static VLAN table setting page is used to add or delete VLANs in the form of tag or untag, and display the port information of VLANs.



2.1.2 Configuration-VLAN-VLAN Setting

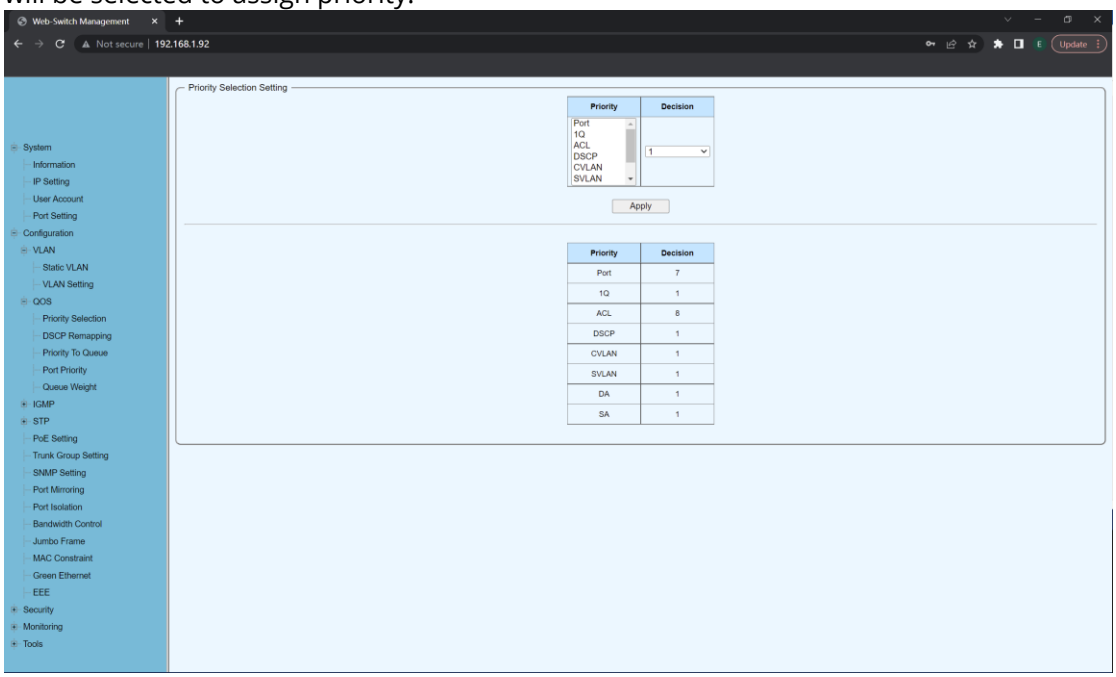
The VLAN side setting page is used to configure the PVID of the port and the type of received frame.



2.2 Configuration-QoS

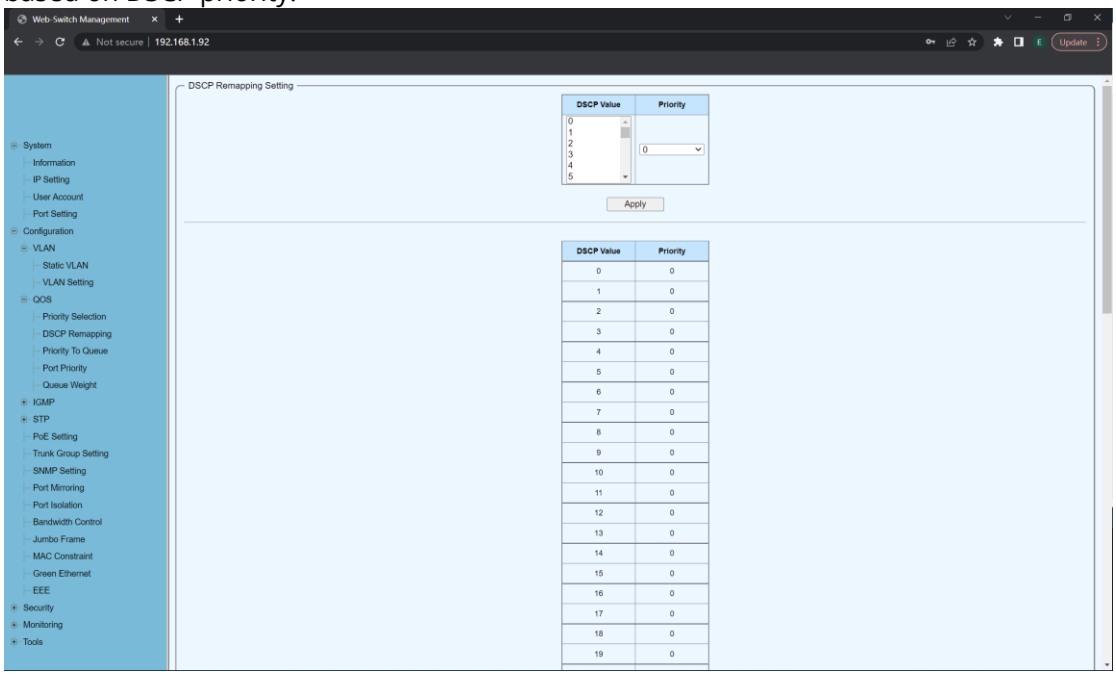
2.2.1 Configutation-QoS-Priority Selection

The priority selection setting page is used to configure the priority source weight. When the received packet is paired with multiple sources, the source with the highest weight will be selected to assign priority.



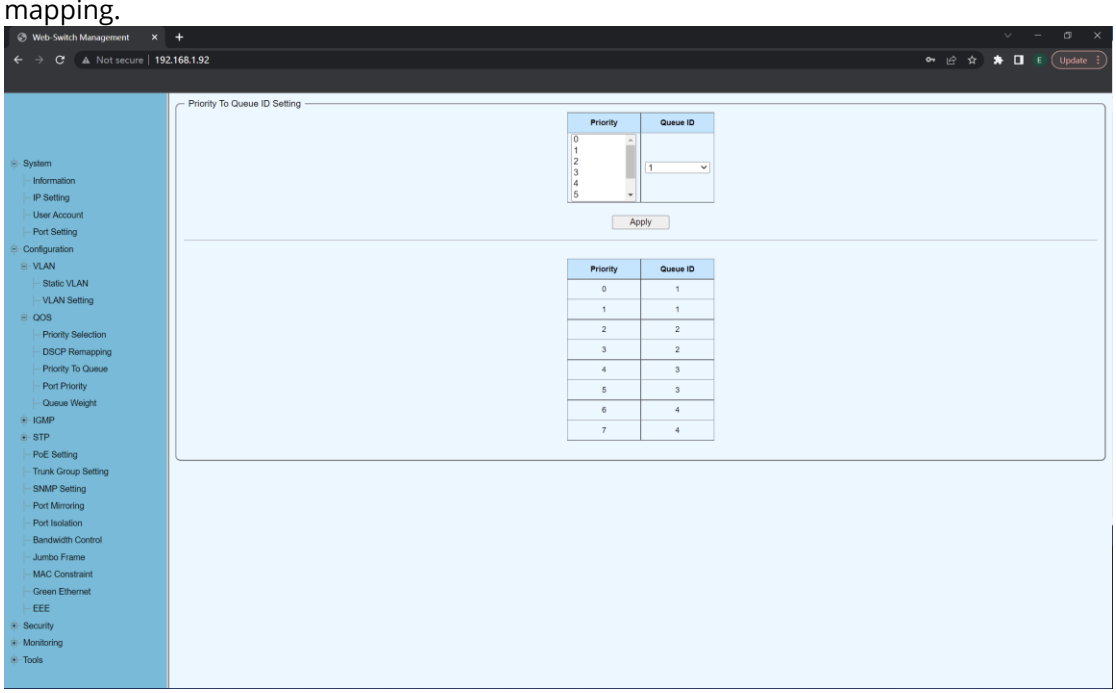
2.2.2 Configutation-QoS-DSCP Remapping

The DSCP remapping settings page is used to configure the internal priority mapping based on DSCP priority.



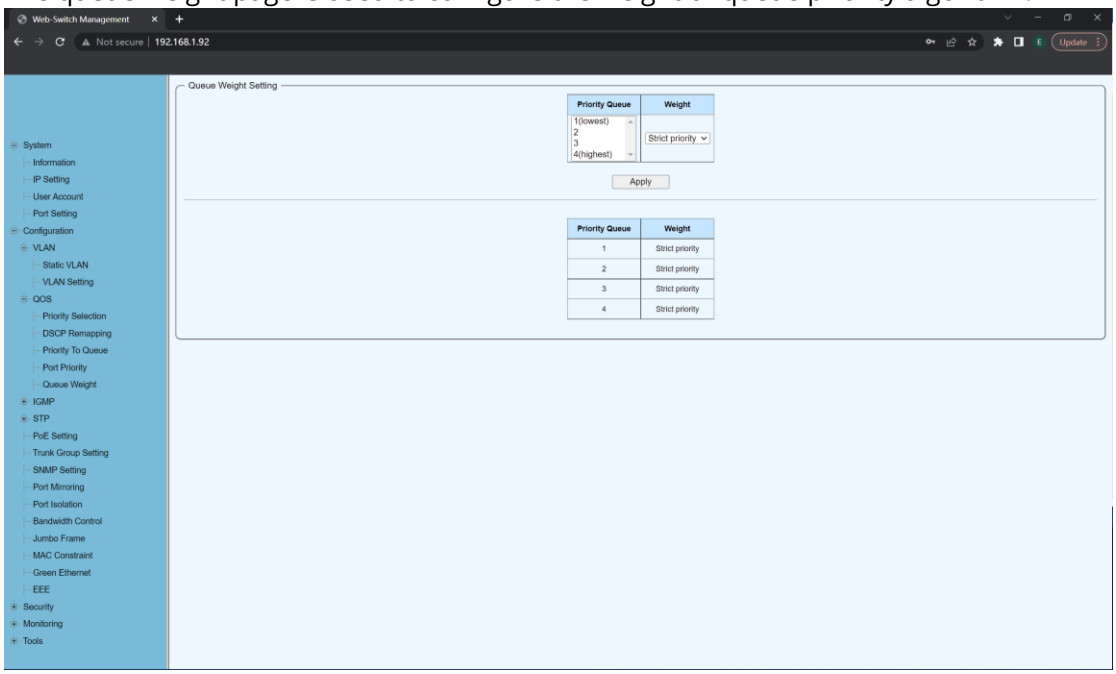
2.2.3 Configuration-QoS-Priority To Queue

The priority queue ID setting page is used to configure the internal priority to queue mapping.



2.2.4 Configuration-QoS-Queue Weight

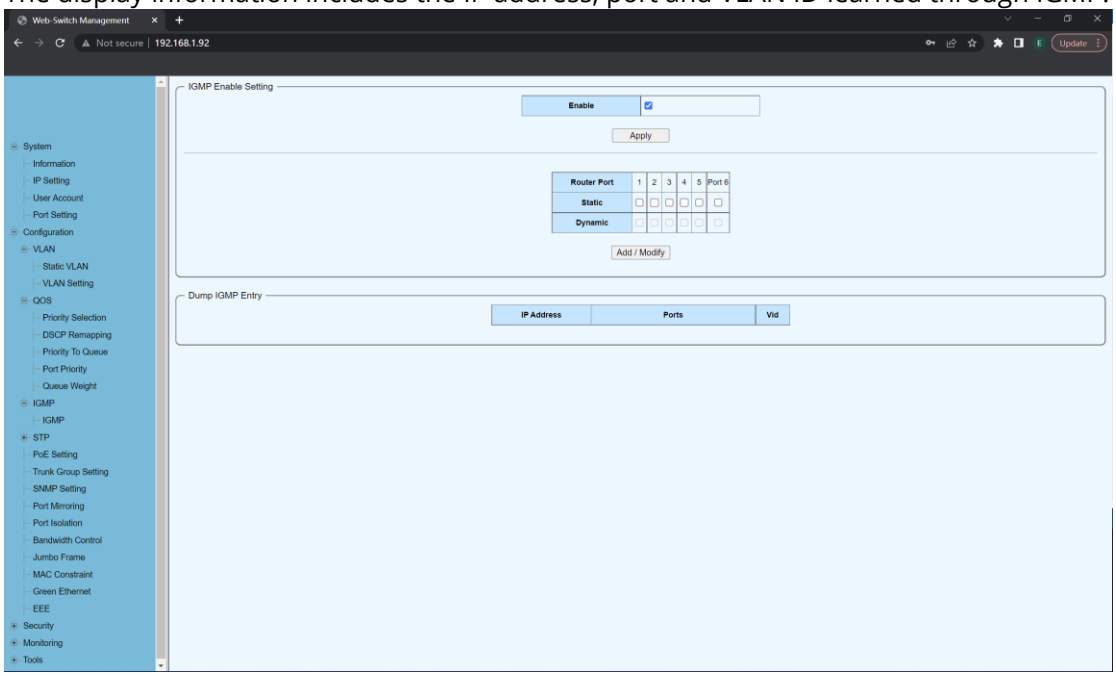
The queue weight page is used to configure the weight of queue priority algorithm.



2.3 IGMP

2.3.1 IGMP-IGMP

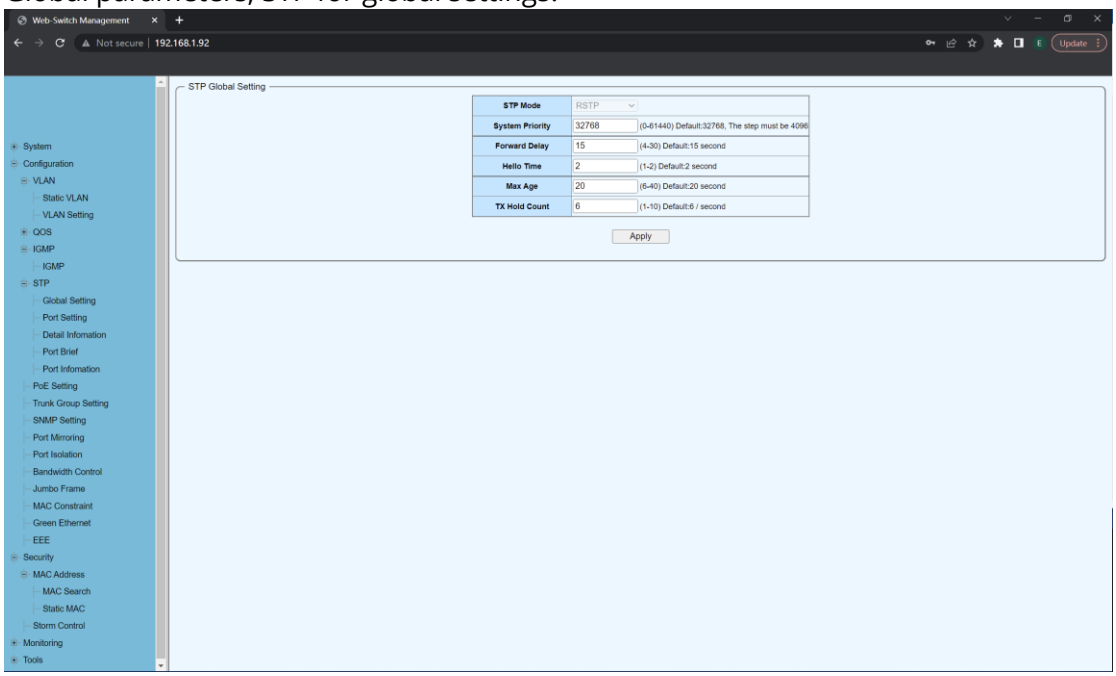
IGMP page, used to configure IGMP enabled or disabled and display IGMP list items
After checking enable, the group broadcast text learned through IGMP protocol is allowed to pass.
The display information includes the IP address, port and VLAN ID learned through IGMP.



2.4 STP

2.4.1 STP-Global Setting

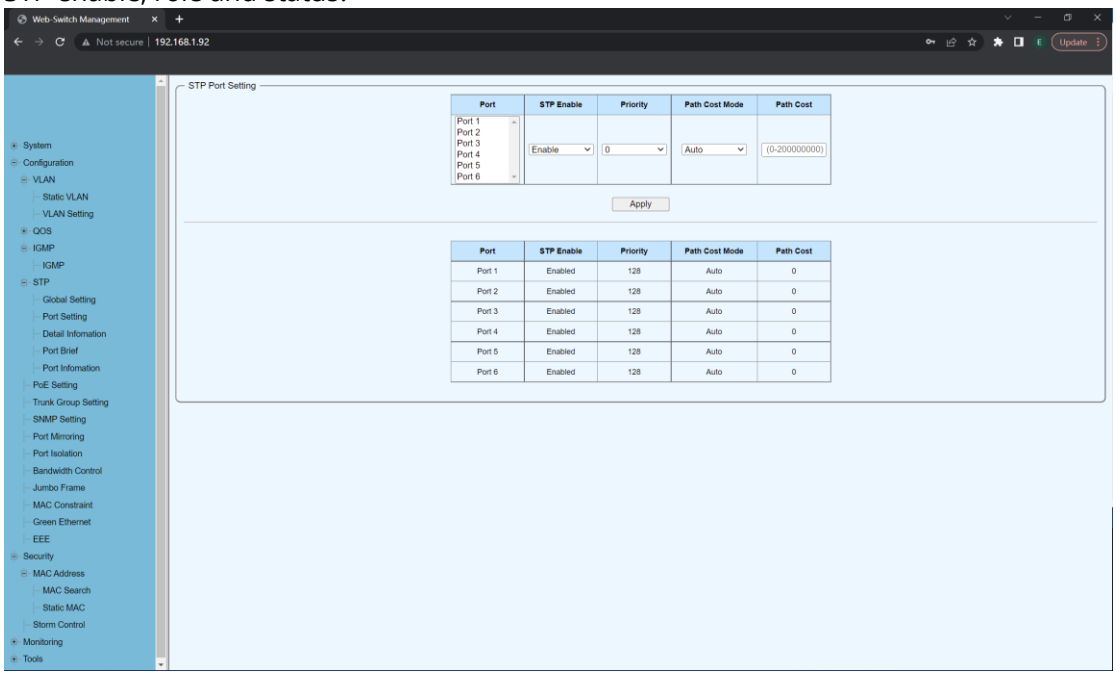
Global parameters, STP for global settings.



Item	Description	Notes
STP Mode	RSTP Only	
System Priority	0-61140, The Step must be 4096 Default:32768	
Forward Delay	4-30 Default:15 second	
Hello Time	1-2 Default:2second	
Max Age	6-40 Default: 20 second	
Tx Hold Count	1-10 Default: 6 second	

2.4.2 STP-Port Setting

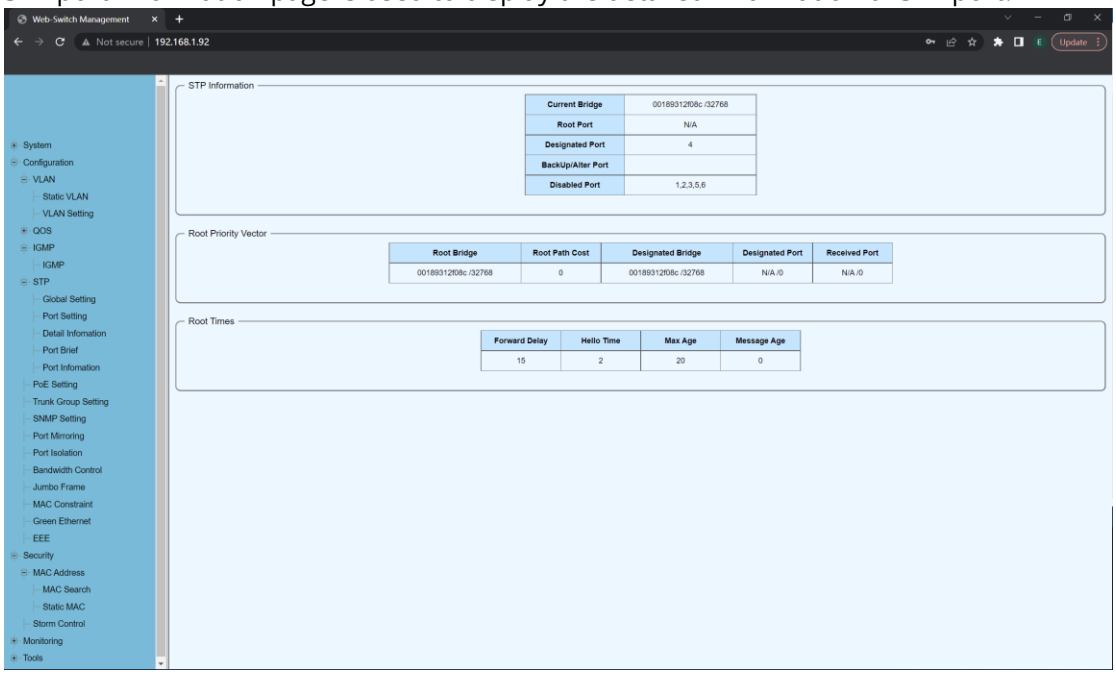
STP port summary page is used to display port STP summary information, including port, STP enable, role and status.



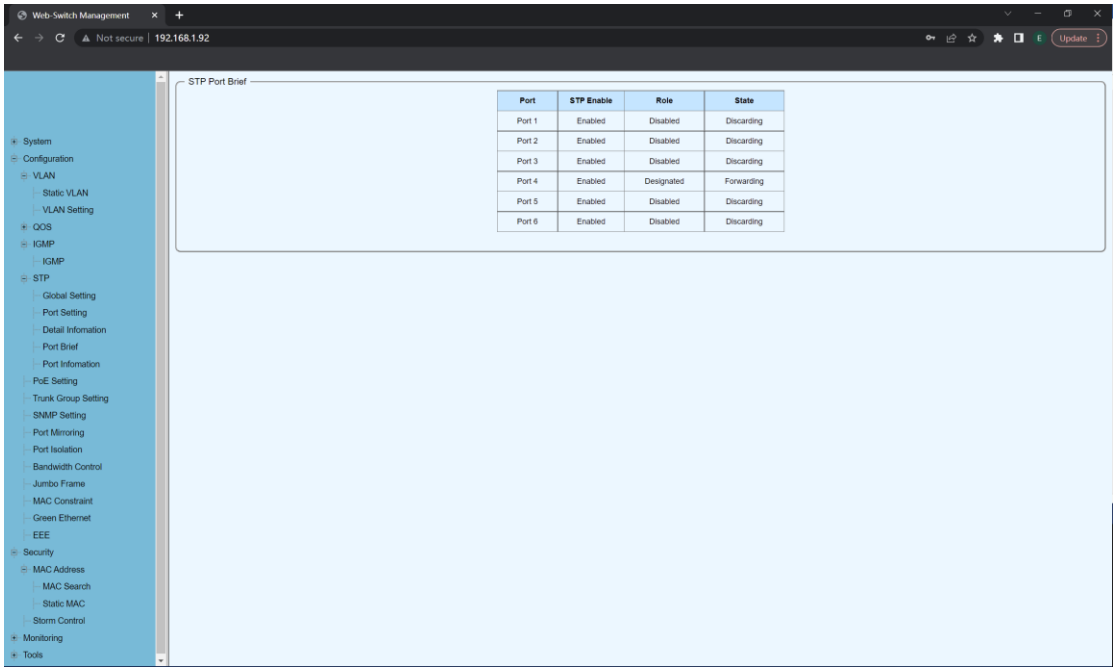
Item	Description	Notes
Port	Port 1-6	
STP Enable	Enable/Disable	
Priority	0-240	
Path Cost Mode	Auto/Admin	
Path Cost	0-200000000	

2.4.3 STP-Detail Information

STP port information page is used to display the detailed information of STP port.



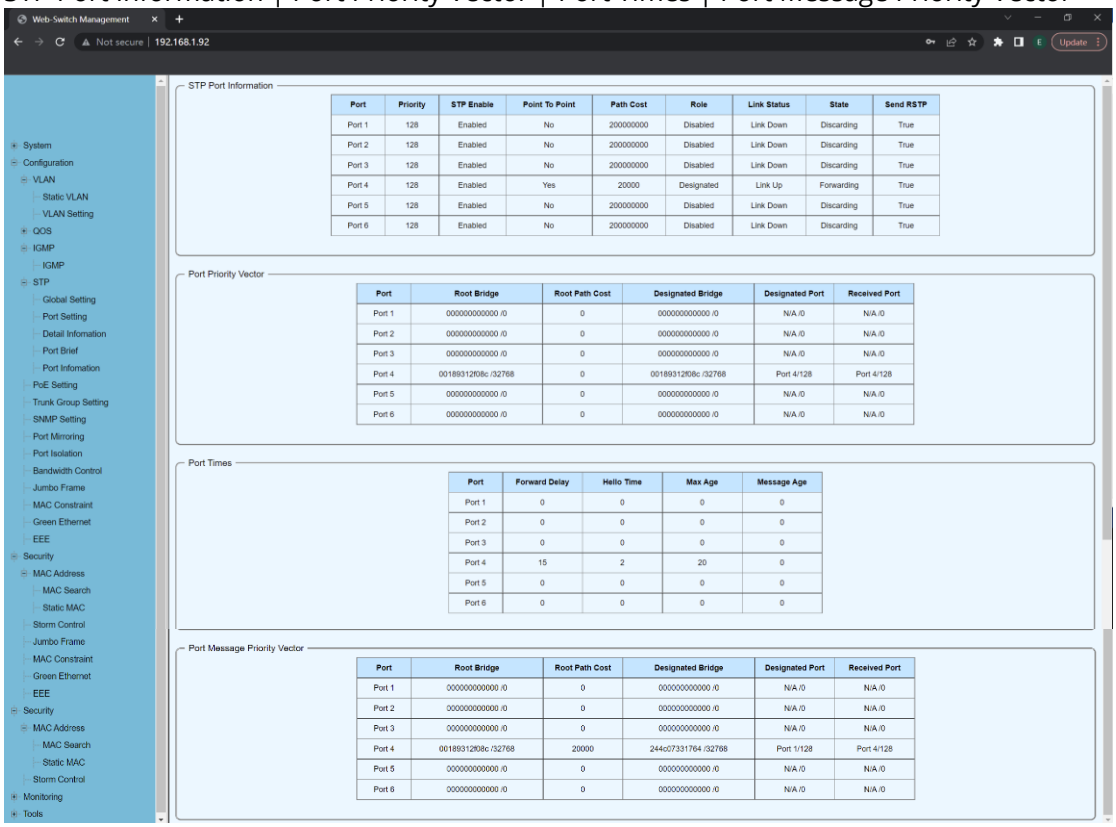
2.4.4 STP-Port Brief



2.4.5 STP-Port Information

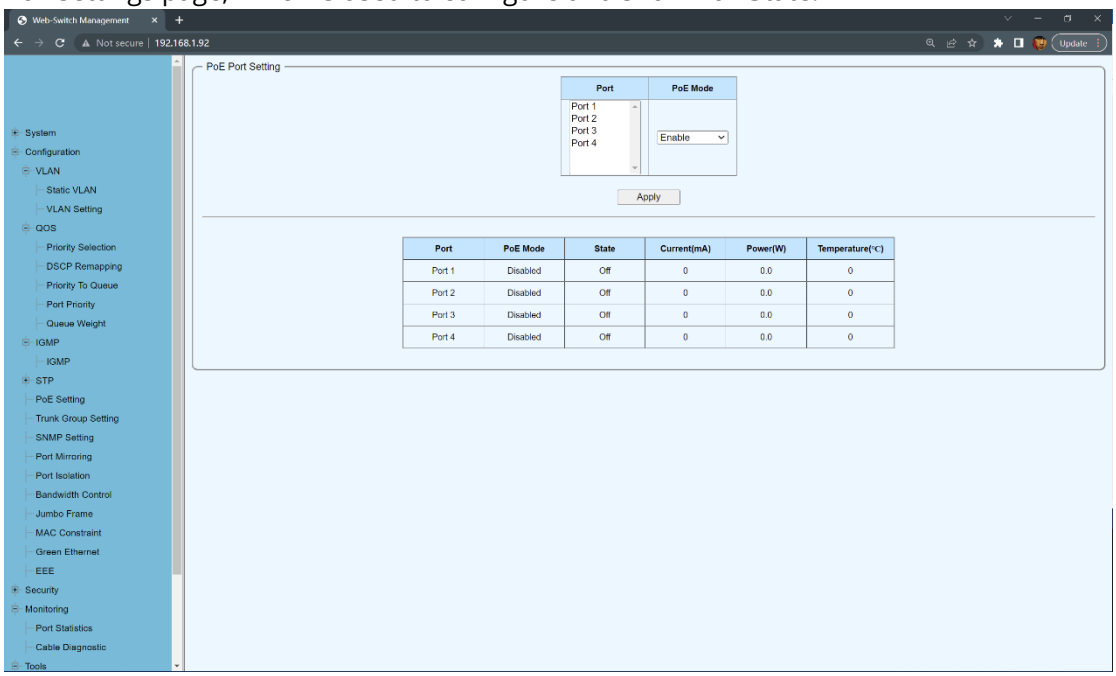
STP details page, used to display STP details

STP Port Information | Port Priority Vector | Port Times | Port Message Priority Vector



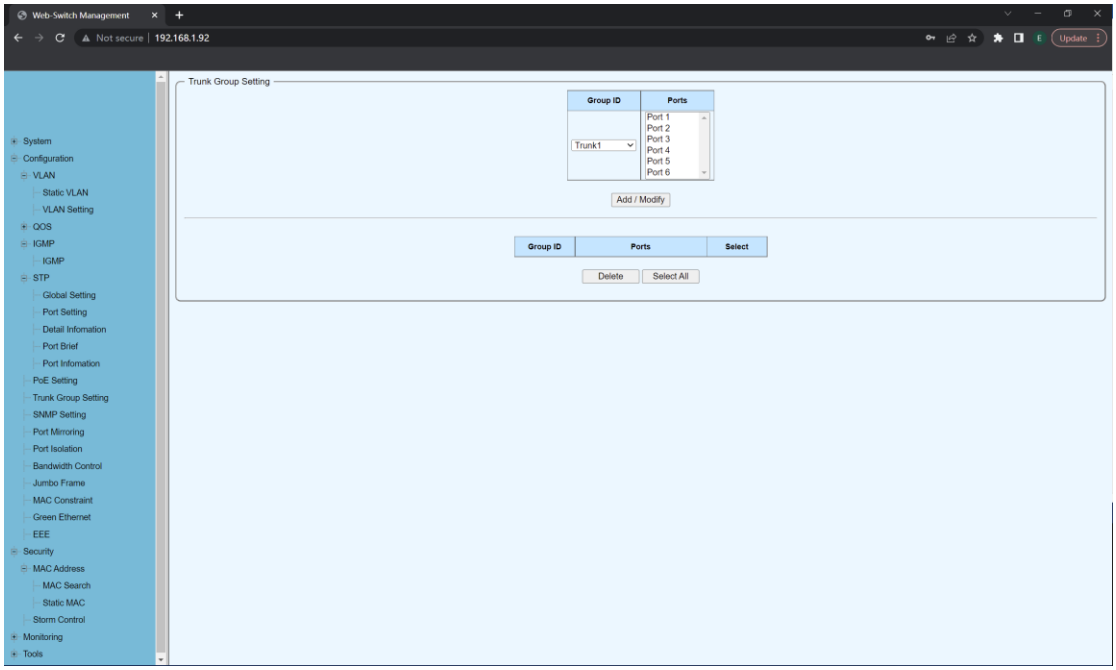
2.5 PoE Setting

PoE settings page, which is used to configure and show PoE State.

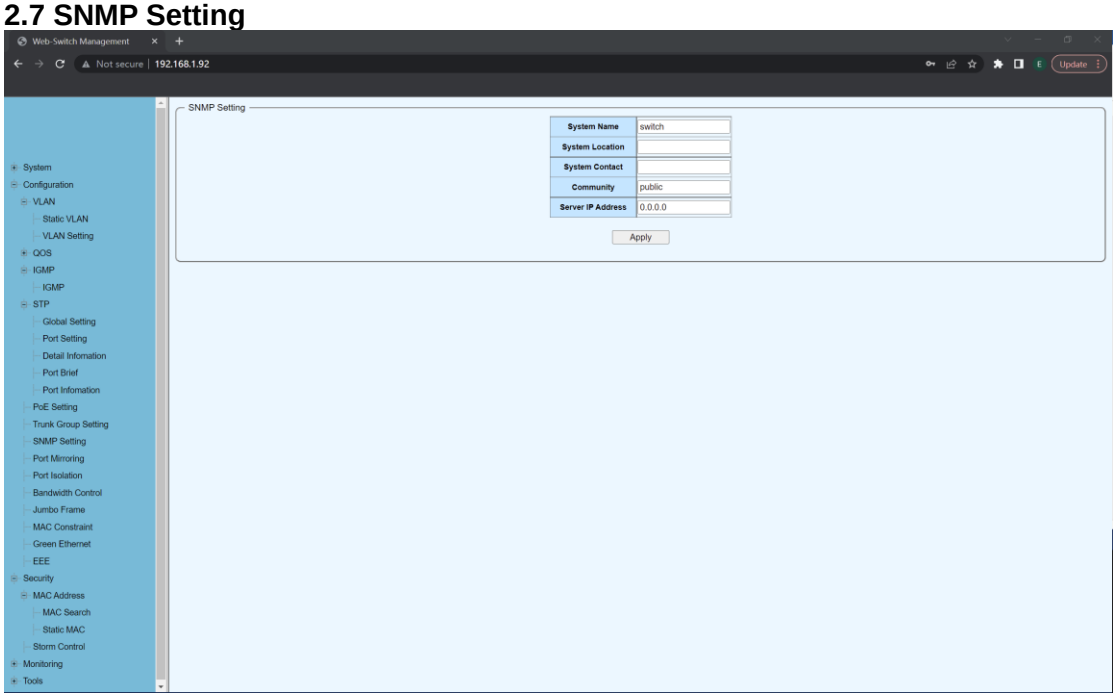


2.6 Trunk Group Setting

Trunk group settings page, which is used to configure and show port aggregation.

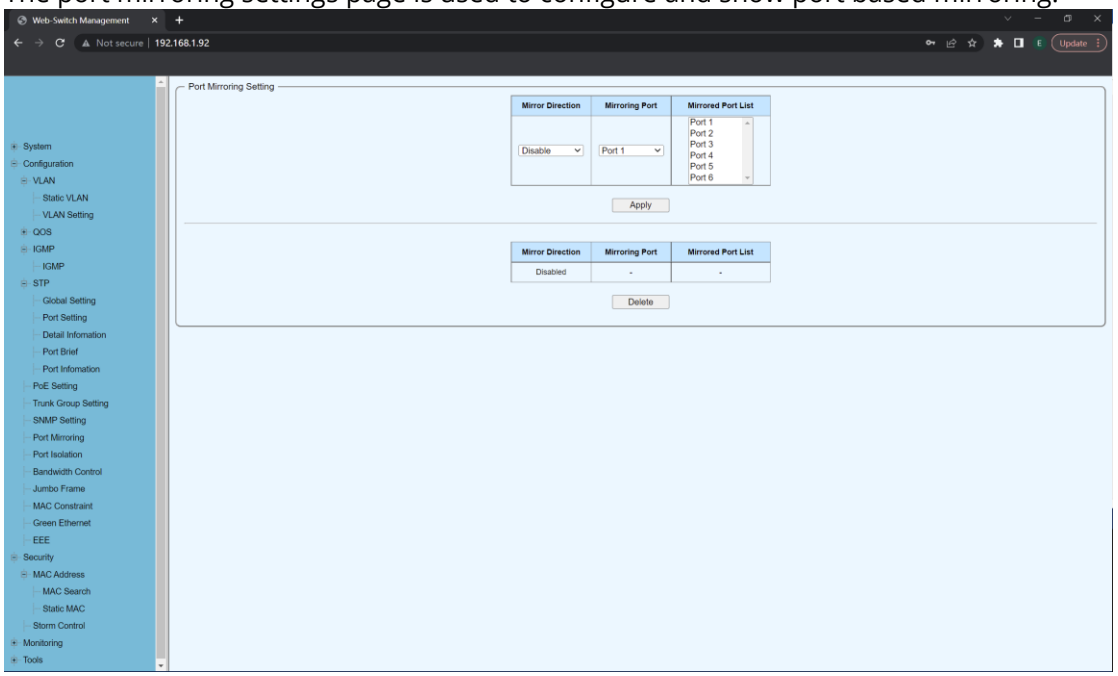


2.7 SNMP Setting



2.8 Port Mirroring

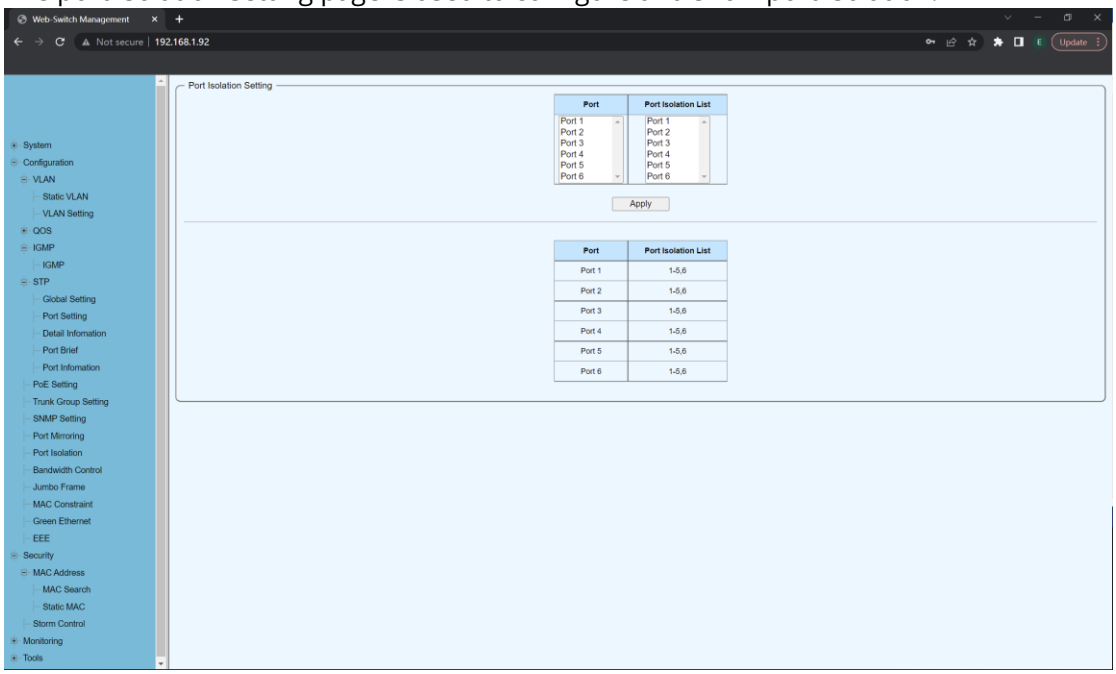
The port mirroring settings page is used to configure and show port based mirroring.



Item	Description	Notes
Mirrow Direction	Disable/Rx/Tx/Both	
Mirroring Port	Port 1 - 6	
Mirrored Port List	Port 1 - 6	

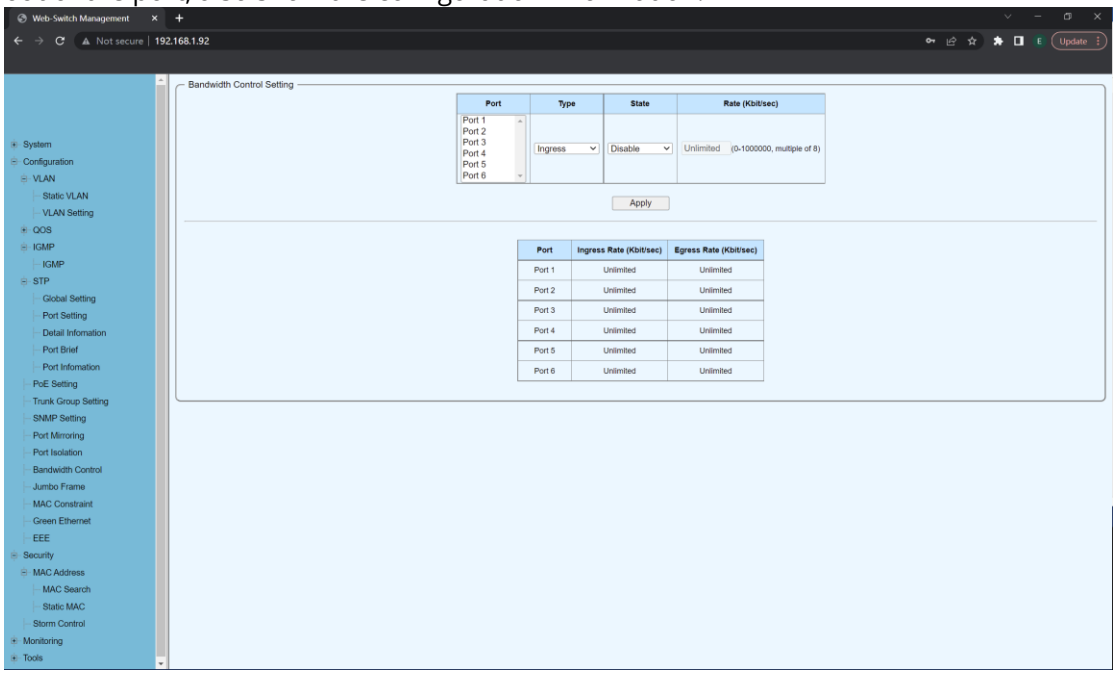
2.9 Port Isolation

The port isolation setting page is used to configure and show port isolation.



2.10 Bandwidth Control

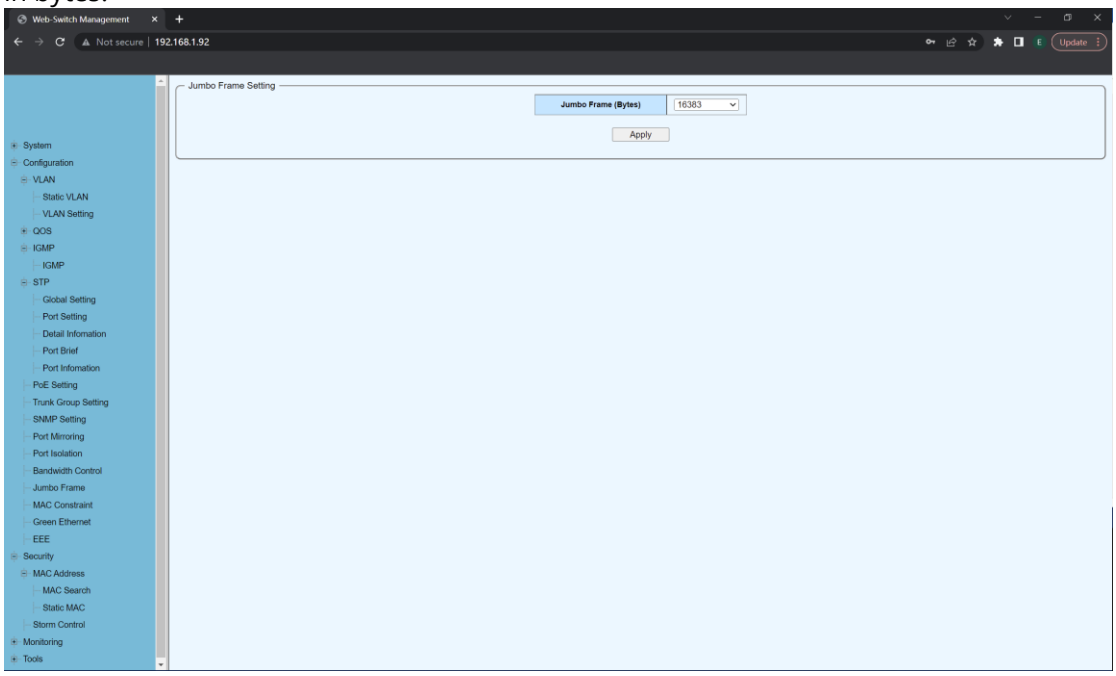
The bandwidth control setting page is used to configure the message bandwidth in and out of the port, also show the configuration information.



Item	Description	Notes
Port	Port 1 - 6	
Type	Ingress/Egress	
State	Enable/Disable	Default:Disable
Rate	Configuration when state in enable 0-100000Kbit/sec	Multiple of 8

2.11 Jumbo Frame

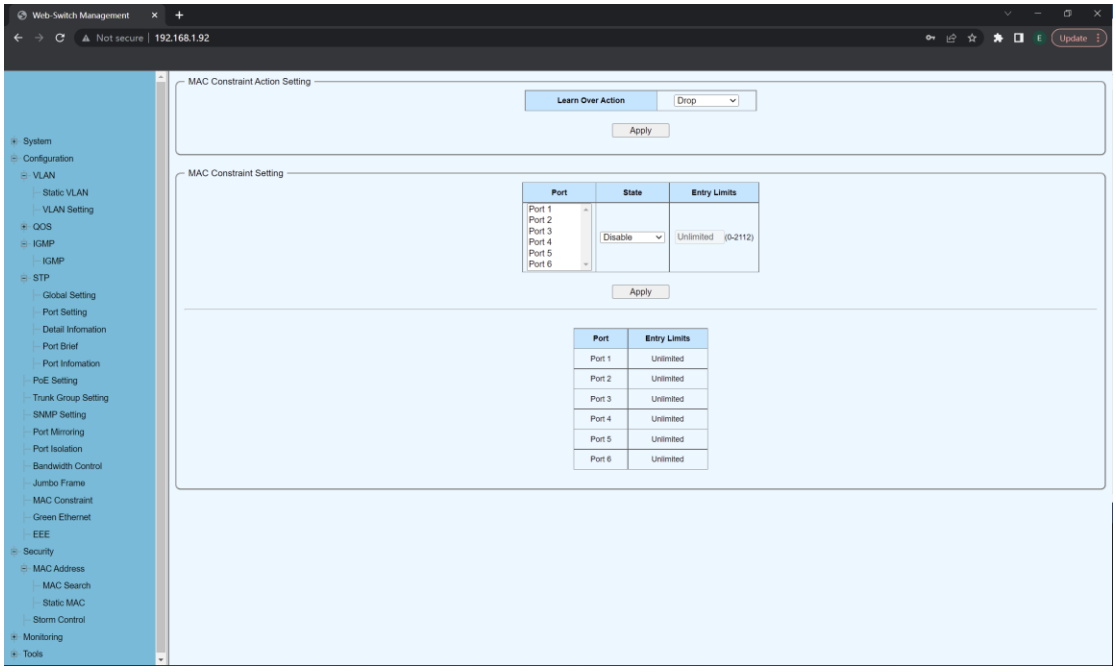
Giant frame setting page, which is used to configure the maximum frame length allowed, in bytes.



Item	Description	Notes
Jumbo Frame (Bytes)	1522/1536/1552/16383	Unit:Bytes

2.12 Mac Constraint

The MAC constraint behavior page is used to configure the number of MAC allowed to be learned by the port and the processing behavior of the MAC address learned by the port.



Mac Constraint Action Setting

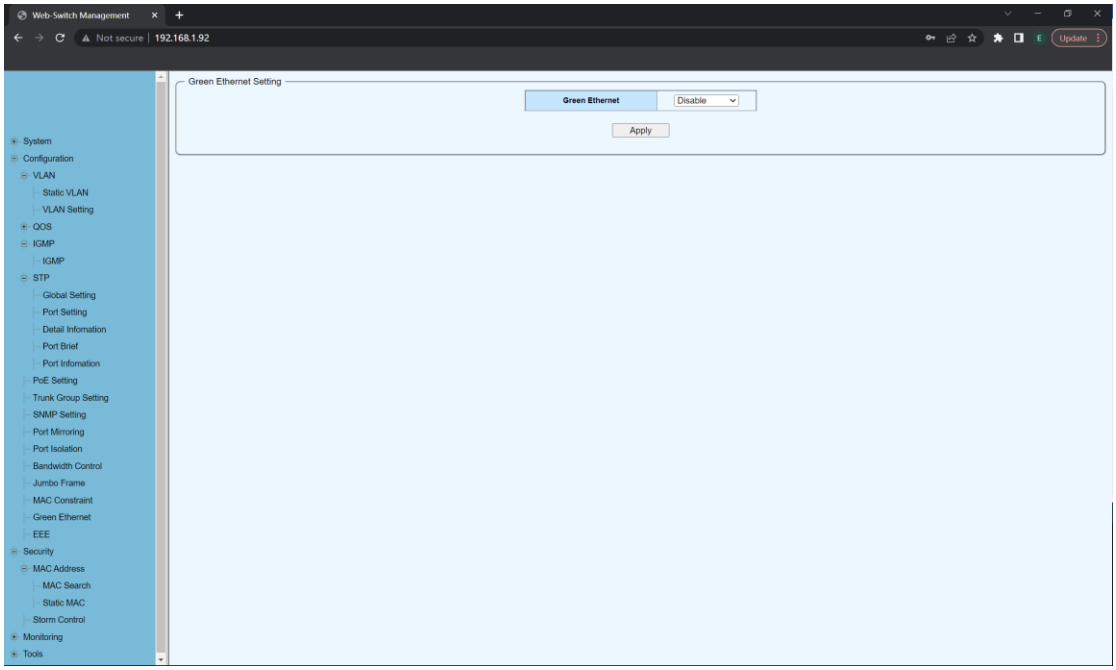
Item	Description	Notes
Learn Over Action	Drop / Flooding	

Mac Constraint Setting

Item	Description	Notes
Port	Port 1 - 6	
State	Enable/Disable	
Entry Limits	0-2112	Default:Unlimited

2.13 Greent Ethernet Setting

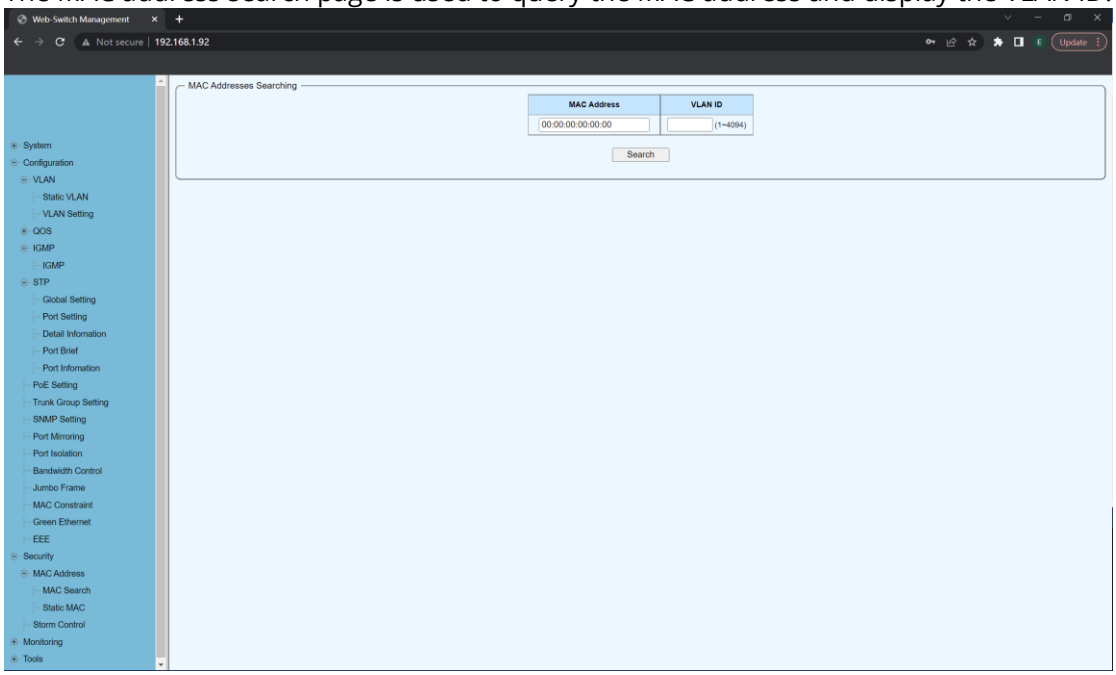
The green Ethernet setting page is used to enable or disable the green Ethernet function. Reduce energy consumption by setting green Ethernet function. When the Green function is enabled, the system will automatically detect the cable length and select different power modes to obtain the best performance and minimum power consumption. If the connection is disconnected, the port will enter the power saving mode within 0 seconds.



2.14 Security

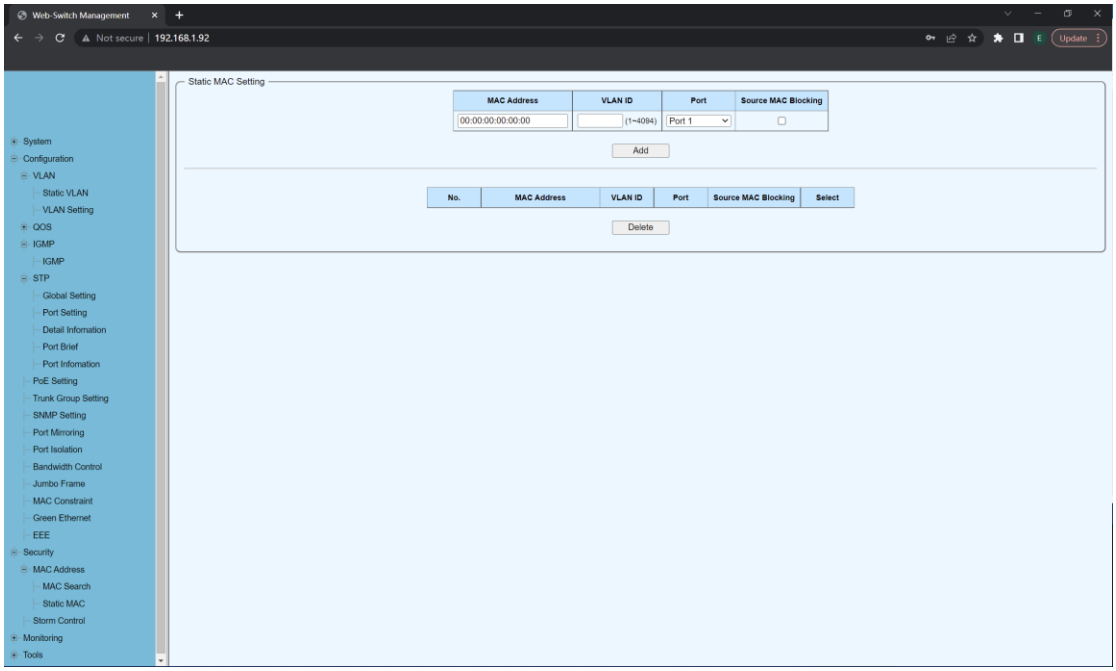
2.14.1 Security MAC Address – Mac Search

The MAC address search page is used to query the MAC address and display the VLAN ID.



2.14.2 Security MAC Address – Static Mac

The static MAC page is used to add, display and delete the static MAC address of the port.

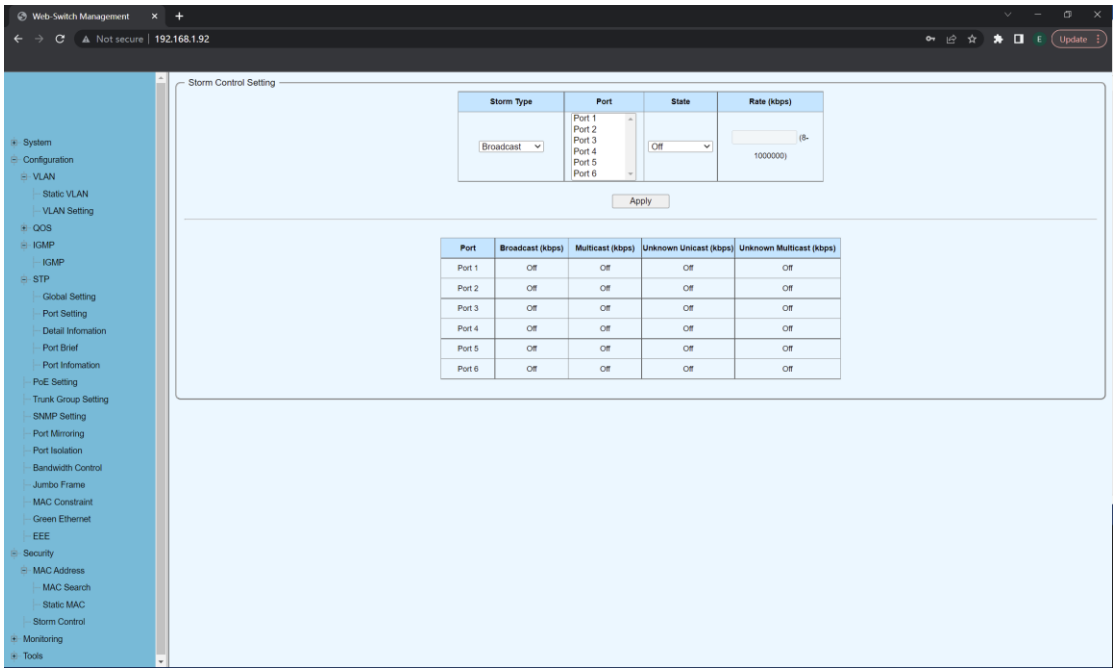


Item	Description	Notes
MAC Address	Added Static Mac Address	
VLAN ID	The VLAN to which the added static MAC belongs	

Port	The port to which the added static MAC belongs
Source Mac Blocking	If this option is checked, the message carrying this MAC is not allowed to pass

2.15 Storm Control

The storm suppression page is used to suppress the flood message.

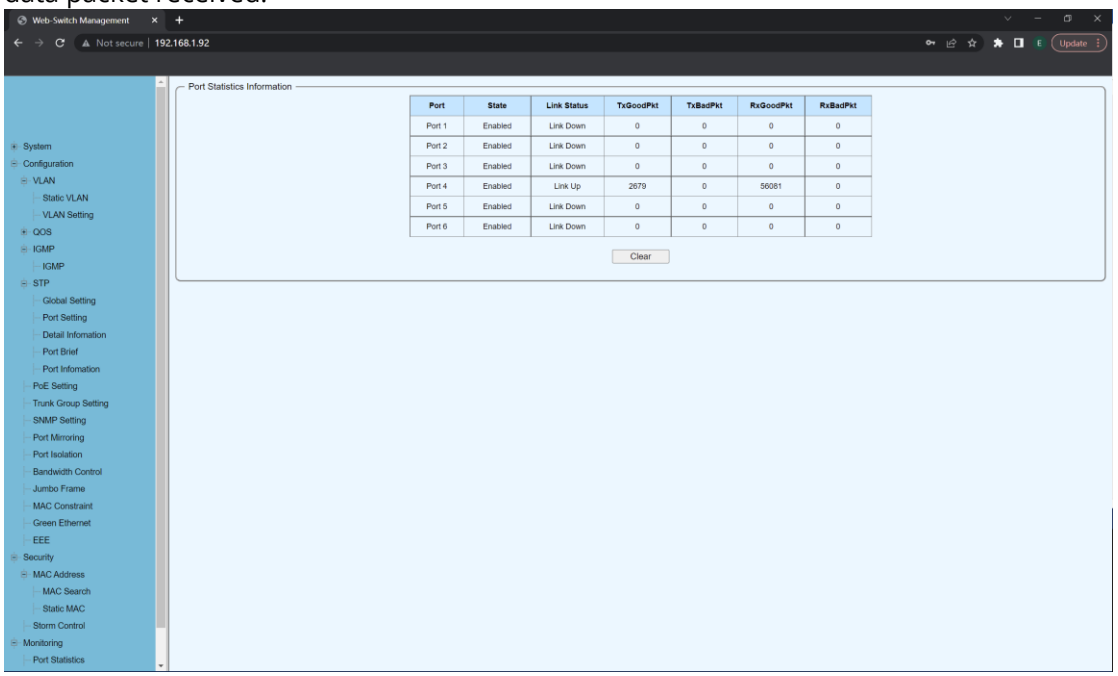


Item	Description	Notes
Storm Type	Broadcast, Multicast, Unknown Unicast and Unknown multicast	
Port	Configure the port where storm suppression takes effect.	
State	Off/On	
Rate	8-1000000 kbps	

2.16 Monitoring

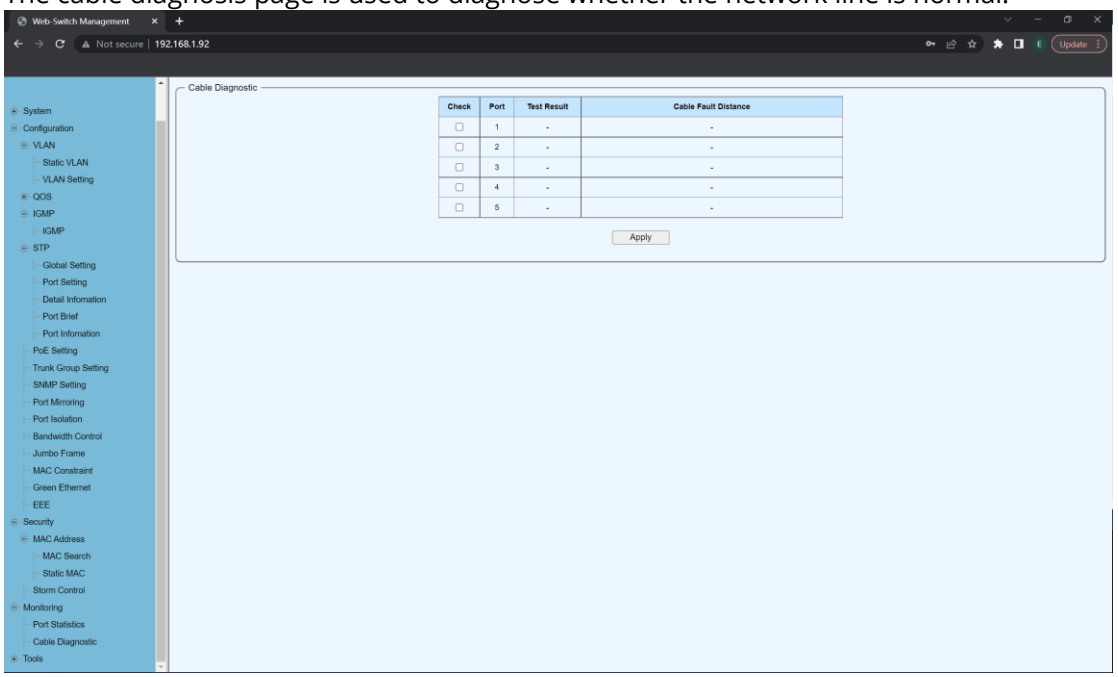
2.16.1 Monitoring-Port Statistics

The display letter includes the status of the port, the connection status, the correct data packet sent, the wrong data packet sent, the correct data packet received and the wrong data packet received.



2.16.2 Monitoring-Cable Diagnostic

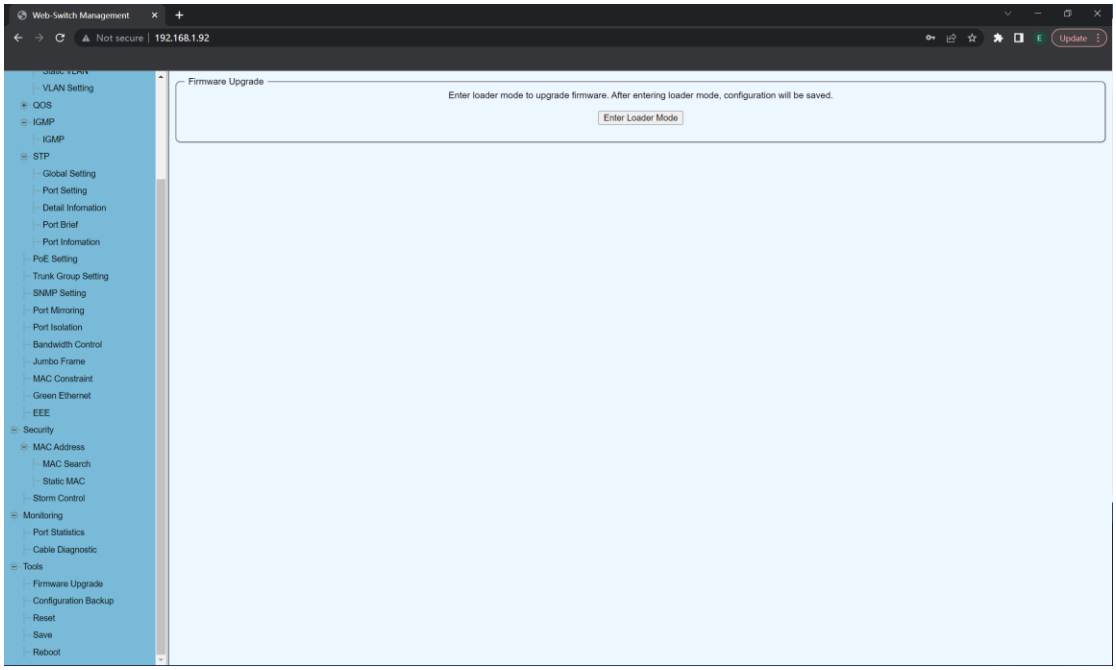
The cable diagnosis page is used to diagnose whether the network line is normal.



2.17 Tools

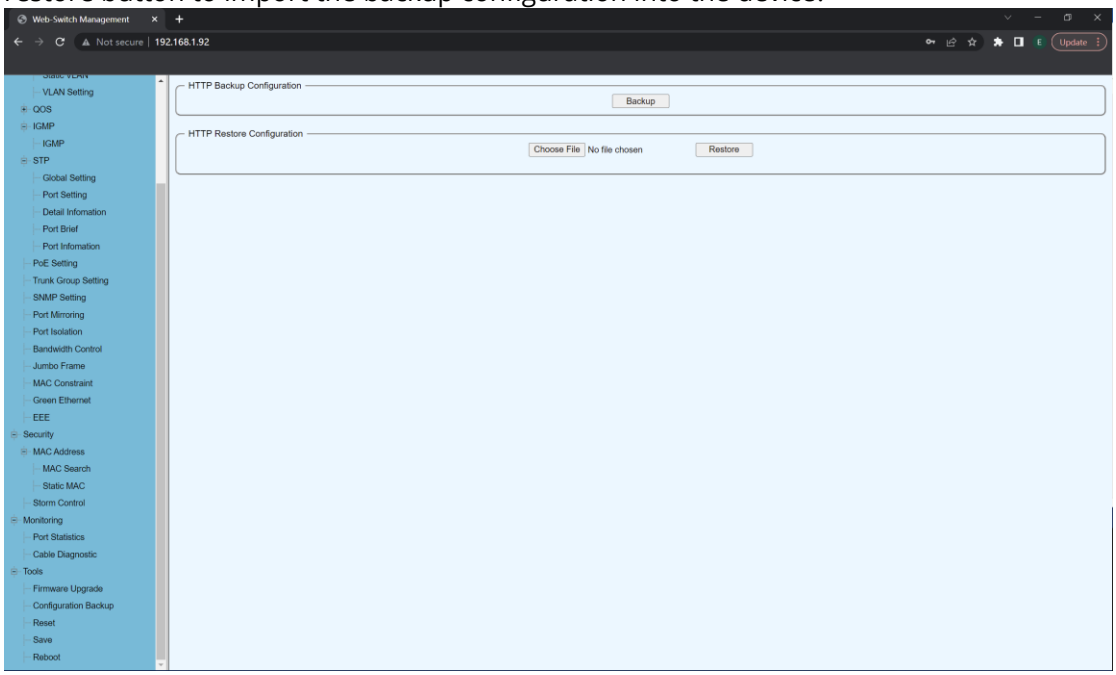
2.17.1 Tools-Firmware Upgrage

The firmware upgrade page is used to enter the loading mode and upgrade in the loading mode.



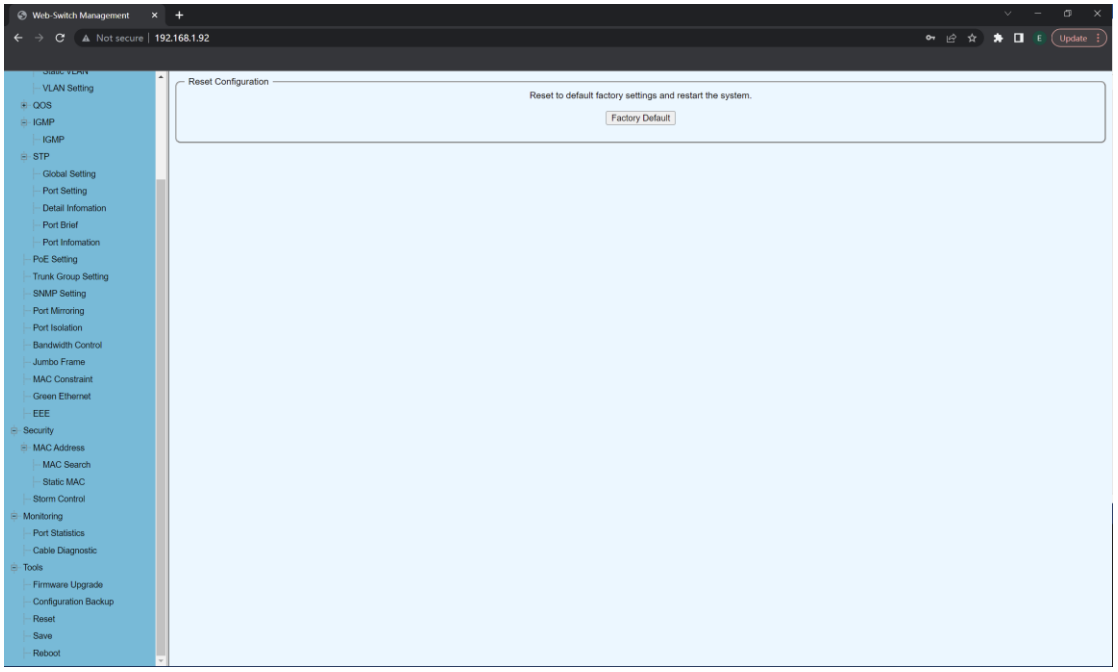
2.17.2 Tools-Configuraion Backup

The configuration backup page is used for configuration import and export. Click the Backup button to export the configuration to PC backup. Click the select File button to restore the configuration, select the configuration of PC backup, and then click the restore button to import the backup configuration into the device.



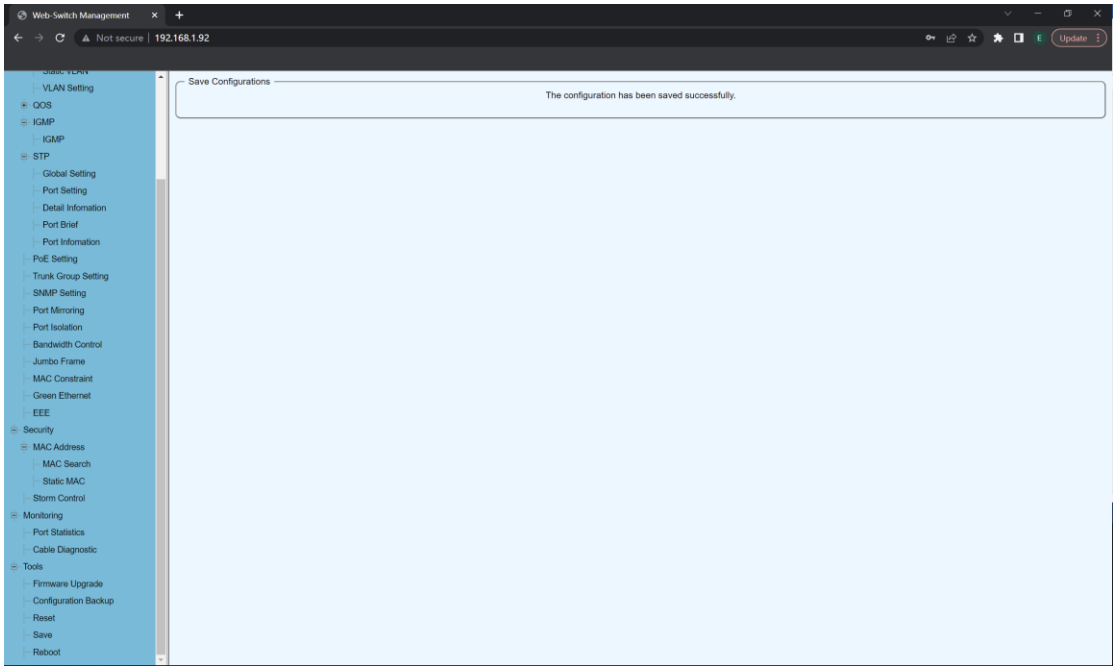
2.17.3 Tools-Reset

The restore configuration page is used to restore the factory settings. Enter the reset page and click the restore factory default button. The system will restart and restore to the factory default configuration at the same time.



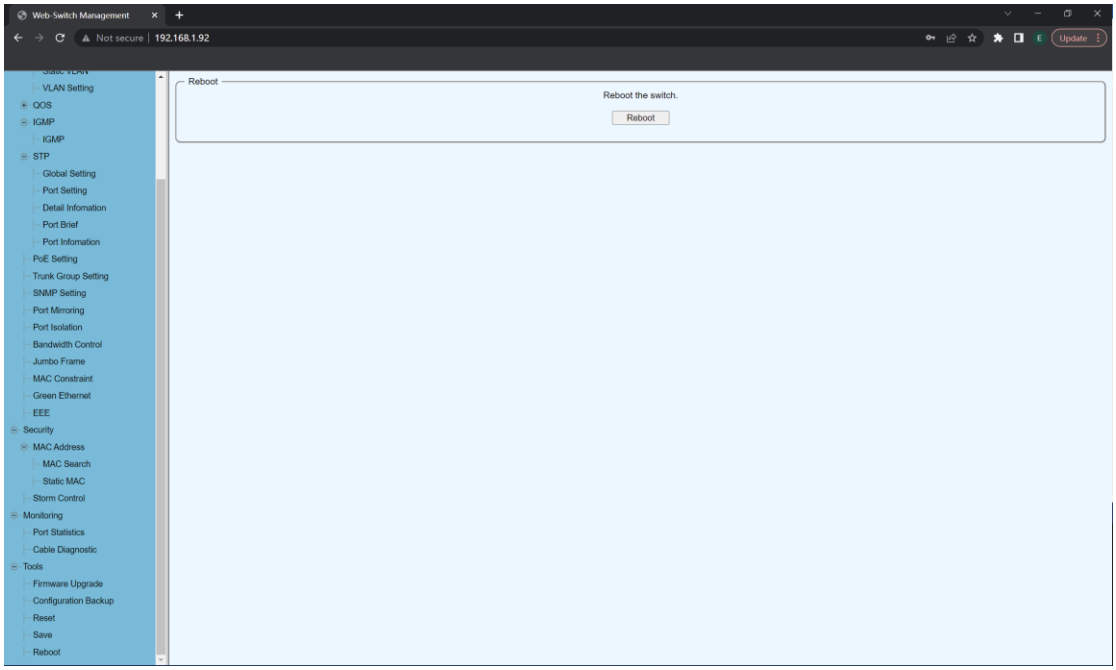
2.17.4 Tools-Save

The save page is used to save the configuration. After clicking the save page, the system configuration will be saved immediately, and the configuration saving page will show that the configuration has been saved successfully.



2.17.5 Tools-Reboot

Reboot paged used to reboot the device.



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