

MultiCo EW-7242iW

**24 Port 10/100
+ 2 Combo Gigabit UTP/SFP
Web Smart Switch**

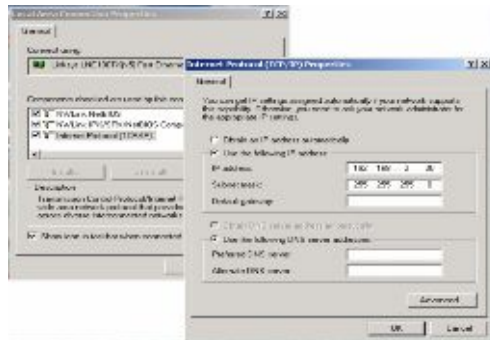
User's Manual

Web Smart Switch Configure

Please follow the steps to configure this Web Smart switch.

Step 1: Use a twisted pair cable to connect this switch to your PC.

Step 2: Set your PC's IP to 192.168.2.xx.



Step 3: Open the web browser (like IE...), and go to 192.168.2.1
Then you will see the login screen.



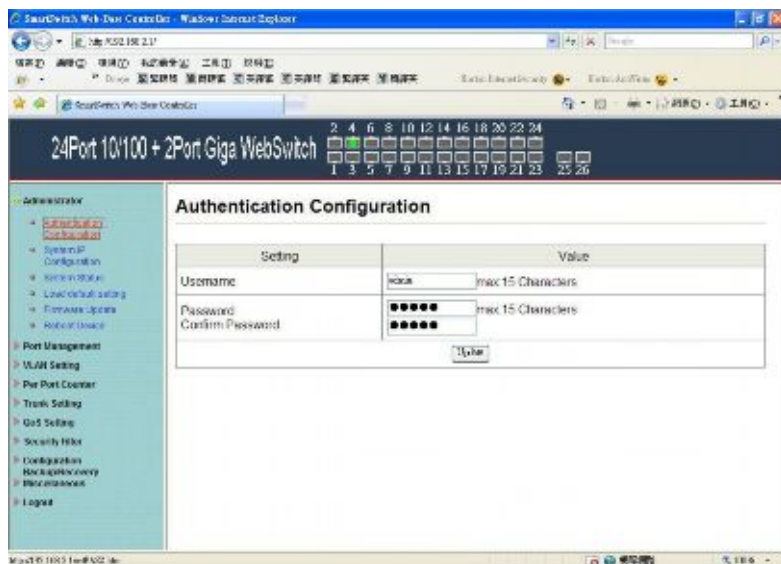
ID and the password: admin

Step 4: After the authentication procedure, the home page shows up.
Select one of the configurations by clicking the icon.

- Administrator
- Port Management
- VLAN Setting
- Per Port Counter
- Trunk Setting
- QoS Setting
- Security Filter
- Configuration Backup/Recovery
- Miscellaneous
- Logout



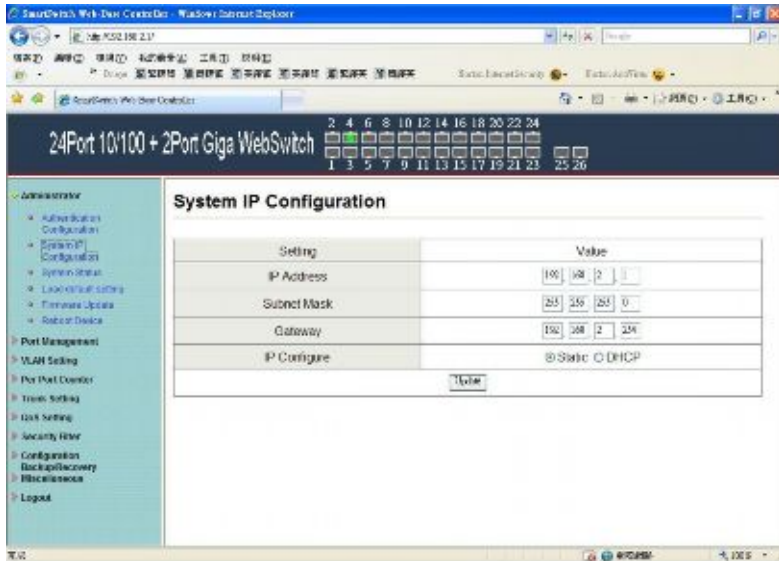
Administrator: Authentication Configuration



1. Change the user name and the password.
2. Click “Update” to confirm the new change.
3. Turn off the power and reset this switch.
4. After resetting, turn on the switch for the new change.

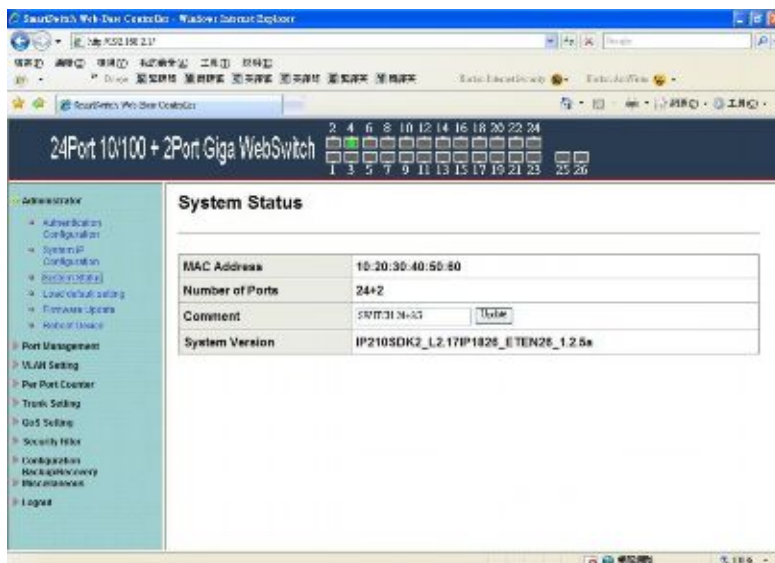
Now, you can use the new user name and the password.

Administrator: System IP Configuration



1. Change the IP address: type the new IP address or select DHCP IP configuration.
 2. Click “Update” to confirm the new change.
“Setting Process OK!!” will be shown on the screen.
 3. Turn off the power and reset this switch.
 4. After resetting, turn on the switch for the new change.
- Now, the setting of “System IP Configuration” is finished.

Administrator: System Status



The screenshot shows the Ruijie Web-Dev Controller interface. The top navigation bar includes the Ruijie logo, the text "Ruijie Web-Dev Controller - WebDev-System-Explorer", and a search bar. Below the navigation bar is a status bar displaying "24Port 10/100 + 2Port Giga WebSwitch" and a grid of port status indicators. The main content area is titled "System Status" and contains a table with the following information:

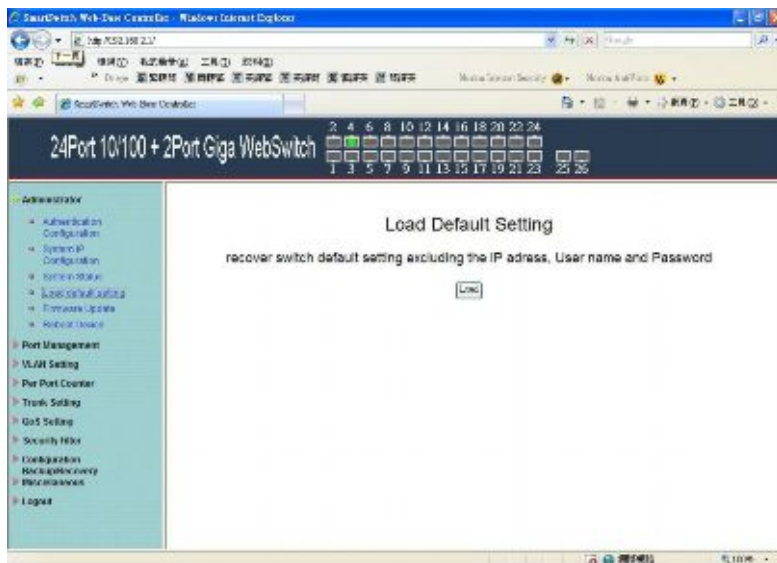
MAC Address	10-20-30-40-50-60
Number of Ports	24+2
Comment	SWITCH-03 <input type="button" value="Update"/>
System Version	IP210SDK2_L2.17P1826_E TEN26_1.2.5a

The left sidebar contains a navigation menu with the following items: Administrator, Subnet/Router Configuration, System IP Configuration, DHCP/STP Setting, Load Balancing Setting, Firmware Updates, Router Upgrade, Port Management, VLAN Setting, Port Port Counter, Trunk Setting, QoS Setting, Security Filter, Configuration Backup/Recovery, Maintenance, and Logout.

MAC address and system version will be shown on the screen.

1. Change the new comment of this switch by typing the new comment.
2. Click “Update” to confirm the new change.

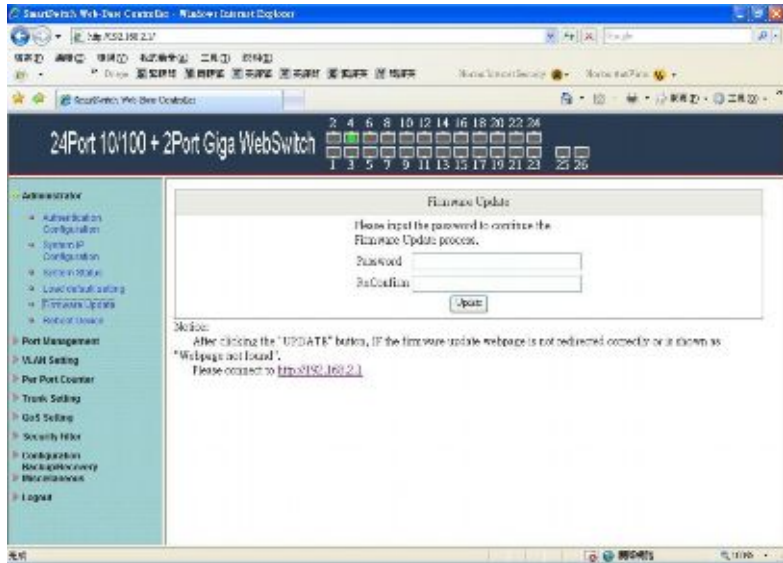
Administrator: Load Default Setting



1. Click “Load” to back to the factory default setting.
2. Turn off the power and reset this switch.
3. After resetting, turn on the switch for the new change.

Now, the default is loaded.

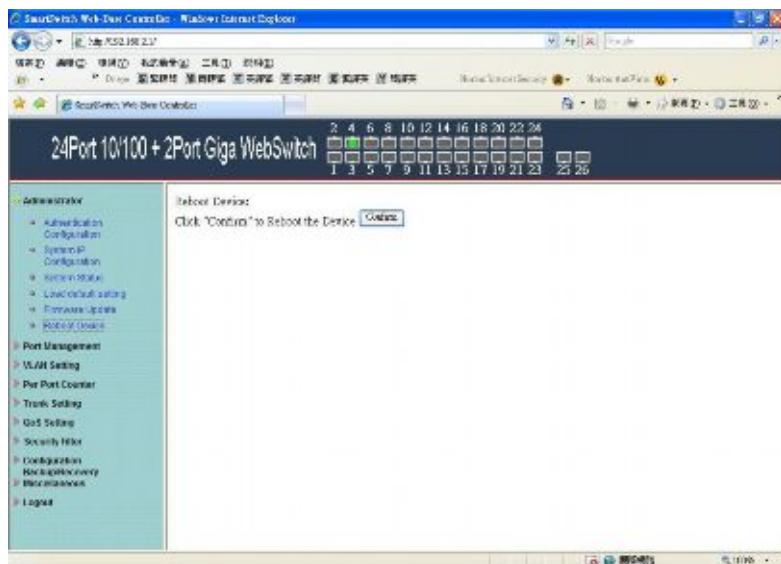
Administrator: Firmware Update



Follow the instruction on the screen to update the new firmware.

Please contact with your sales agents to get the latest firmware information.

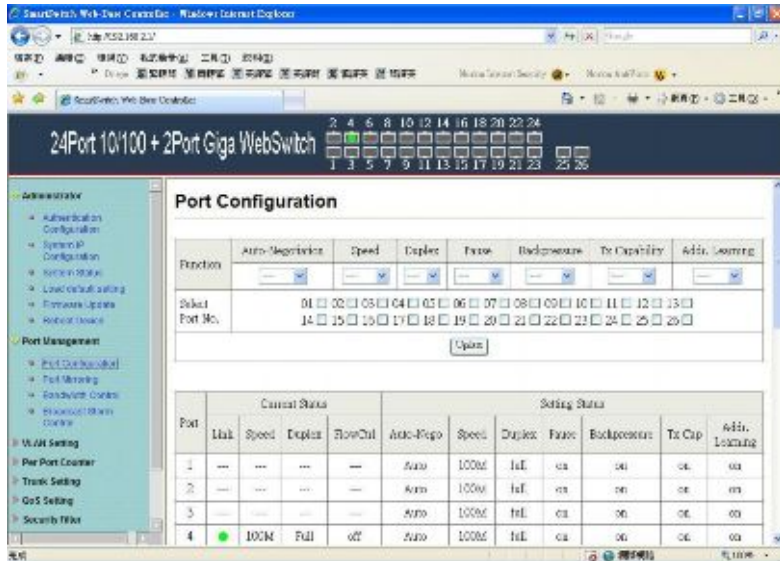
Administrator: Reboot Device



1. Click “Confirm” to reboot the device.

Now, the setting of “Reboot Device” is confirmed.

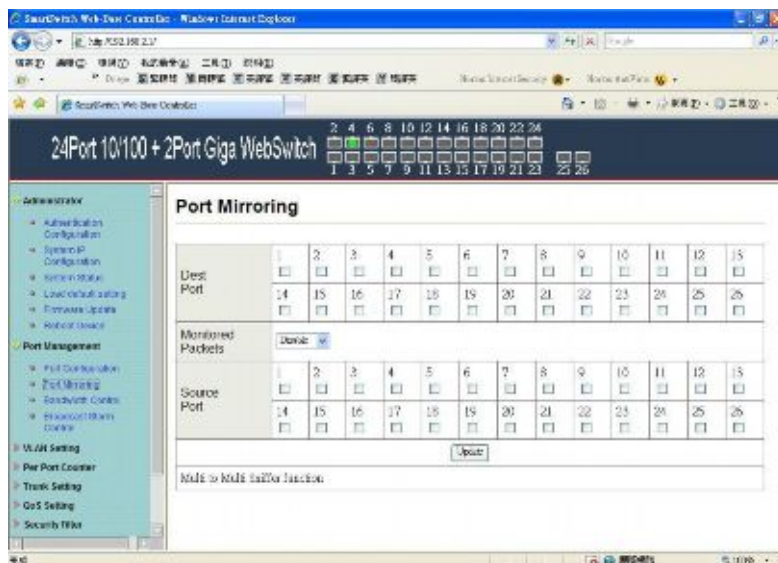
Port Management: Port Configuration



Select the “Port No.” - configure the mode below:

1. “Auto-Negotiation” - enable/disable this function of the port.
2. “Speed” - select the 10M or 100M mode of the port.
3. “Duplex” - select the port is full or half-duplex mode.
4. “Pause” - enable/disable the port.
5. “Backpressure” - enable/disable the backpressure of the port.
6. “Tx Capability” - enable/disable TX capability of the port.
7. “Addr. Learning” - enable/disable this function of the port.

Port Management: Port Mirroring



Port Mirroring is used to mirror traffic, RX, TX or TX&RX, from Source port to Destination port for analysis.

1. Select the Destination port: you can choose port 1 to port 26
2. Select the Source port: by clicking the checking box of the port.
3. Click “Update” to save the setting.

Now, the setting of “Port Mirroring” is finished.

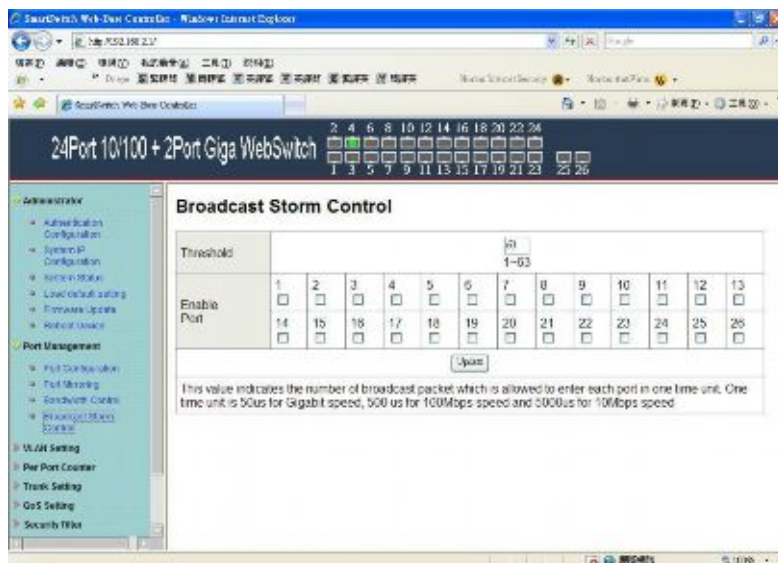
Port Management: Bandwidth Control



1. Select the “Port No.”: you can choose port 1 to port 26
2. “TX Rate”: set the different transmission rate of this selected port and choose the speed from 1~255 based on two speed levels.
3. “RX Rate”: set the different receiving rate of this selected port and choose the speed from 1~255 based on two speed levels.
4. Click “Update” to confirm the setting.

Now, the setting of “Bandwidth Control” is finished.

Port Management: Broadcast Storm Control



1. Set the threshold of per port to define the status of broadcast packets.
2. Click “Update” to confirm the setting.

Now, the setting of “Broadcast Storm Control” is finished.

VLAN Setting: VLAN Mode

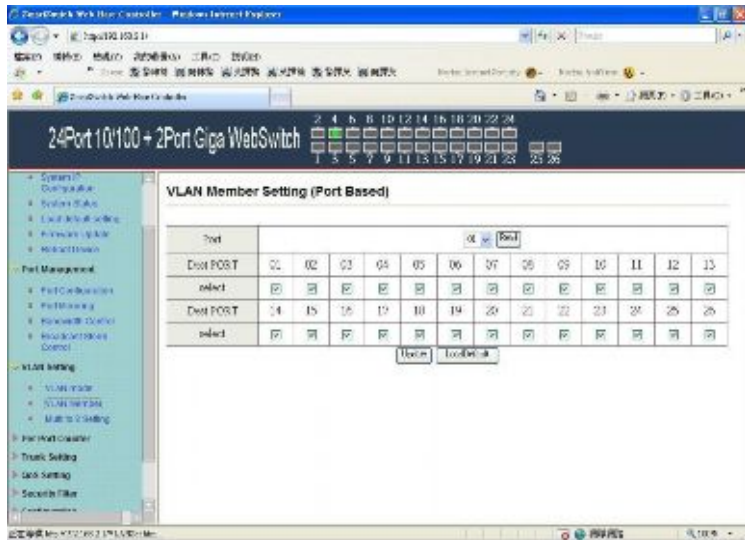


There are two VLAN modes : Port Based VLAN and Tagged VLAN.

1. Click “Change VLAN mode” to select the mode.

Now, the setting of “VLAN Mode” is finished.

VLAN Setting: VLAN Member Setting (Port Based)

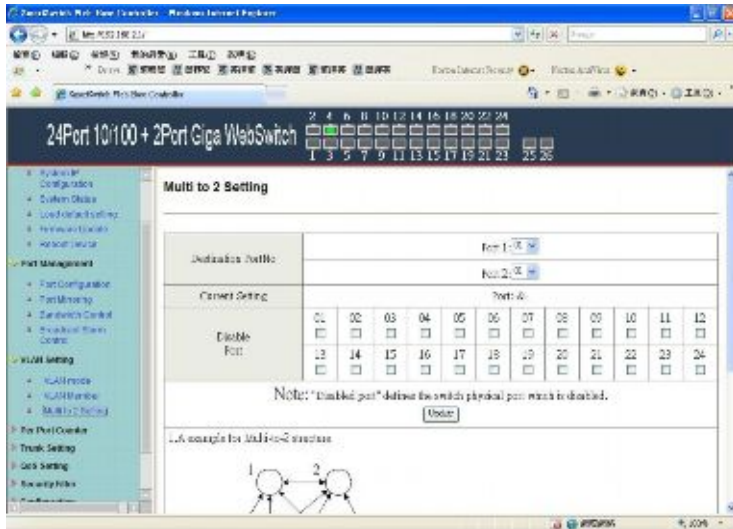


You can select a port group.

1. Click the port numbers: which you want to put them into the selected VLAN group.
2. Click “Update” to confirm and finish the setting.
3. Click “LoadDefault” to back to the original factory setting.

Now, the setting of “VLAN Mode” is finished.

VLAN Setting: Multi to 2 Setting



This is a special design for easily setting the switch VLAN into “VLAN Per Port”.

1. Choose “Destination Port No”.
2. Choose “Disable Port”
3. Click “Update” to confirm and finish the setting.

After this setting, all ports can only connect to the destination port.

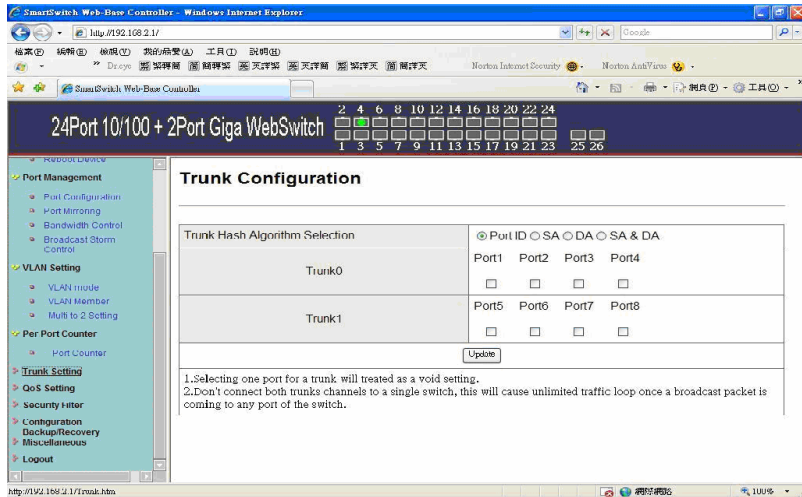
Per Port Counter: Counter Category

The screenshot shows the Ruijie Web-Dev Center interface. At the top, there is a navigation bar with the text "24Port 10/100 + 2Port Giga WebSwitch" and a grid of icons. Below this, the "Counter Category" page is displayed. The page has a "Counter Mode Selection" dropdown set to "Transmit Packet & Receive Packet" and a "Update" button. The main content is a table with the following data:

Port	Transmitted packet	Received packet
01	0	0
02	0	0
03	0	0
04	365	536
05	0	0
06	0	0
07	0	0
08	0	0
09	0	0
10	0	0
11	0	0

You can read the transmitting and receiving packet of the connecting port.

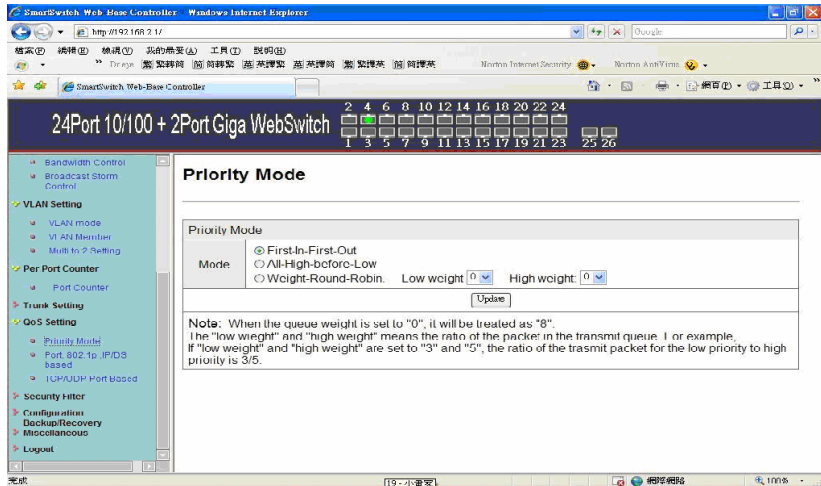
Trunk Setting: Trunk Configuration



There are two groups to choose and max. for each group is 4 ports. Set up port trunk group mode as below:

1. "Port ID" - you can select port number you want to include into the same group.
2. "SA" - you can select Source Address of the port you want to include into the same group.
3. "DA" - you can select Destination Address of the port you want to include into the same group.
4. "SA & DA" - you can select both Source Address and Destination Address of the port you want to include into the same group.
5. Click "Update" to confirm and finish the setting.

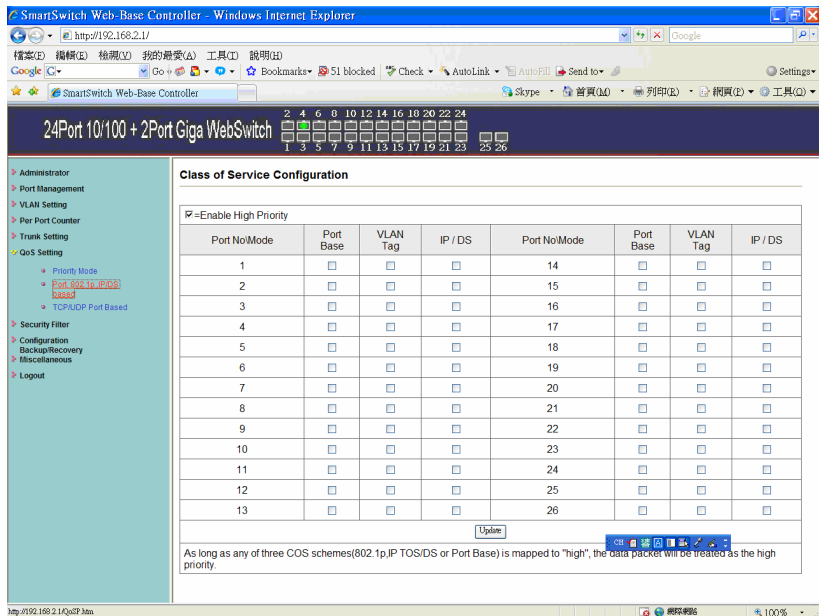
QoS Setting: Priority Mode



There are three Priority Modes to select.

1. “First-in-First-Out” - the first receiving packet will be firstly transmitted.
2. “All-High-before-Low” - packets set in high priority mode will be firstly transmitted before packets set in low priority mode.
3. “Weight-Round-Robin” – WRR, you can set the ratio of the transmitting packet for the low priority to high priority.
4. Click “Update” to confirm and finish the setting.

QoS Setting: Class of Service Configuration (Port, 802.1p, IP/DS based)



You can set QoS mode of per port by different bases.

1. “Port Base” - you can select the port which you want to configure as high priority. It means the packet of the port will be firstly transmitted.
2. “VLAN Tag” - you can select the port which you want to configure as packets. It means the packet with special Tag will be firstly transmitted.
3. “IP/DS” - you can select the port which you want to configure as packets. It means the packets with special IP will be firstly transmitted.
4. Click “Update” to confirm and finish the setting.

QoS Setting: TCP/UDP Port Based

Class of Service Configuration

Protocol	Option
FTP(20,21)	P1P0
SSH(22)	P1F0
TELNET(23)	P1F0
SMTP(25)	P4F0
DNRS(53)	P1F0
FTP(99)	P1F0
HTTP(80,8080)	P1F0
POP3(110)	P4F0
NEWS(119)	P4F0
SNTP(123)	P1F0
NetBIOS(137-139)	P1F0

User Define Port Based

User Define Port: P1F0

User Define Mask: P1F0

User Define Port Range: P1F0

Note:The mask defines which bit is ignored within the IP address bit 0 - bit 7.
For example, UDP/TCP port = 65535 and mask = 5
this means 65530, 65531, 65534 and 65535 are all taken into account.
UDP/TCP port = 65535 and mask = 0, this means only 65535 is taken into account.

TCP/UDP port QoS function No QoS

Note:When the "forward" item is selected, the Port Based Tag Based P1P0 Based, CoS listed above will be ignored.

The Class of Service for TCP/UDP port number allows the network administrator to assign the specific application to a priority queue.

F4-F0: The incoming packet will be forwarded in first-in-first-out scheme.

Discard: The incoming packet will be discarded at the source port.

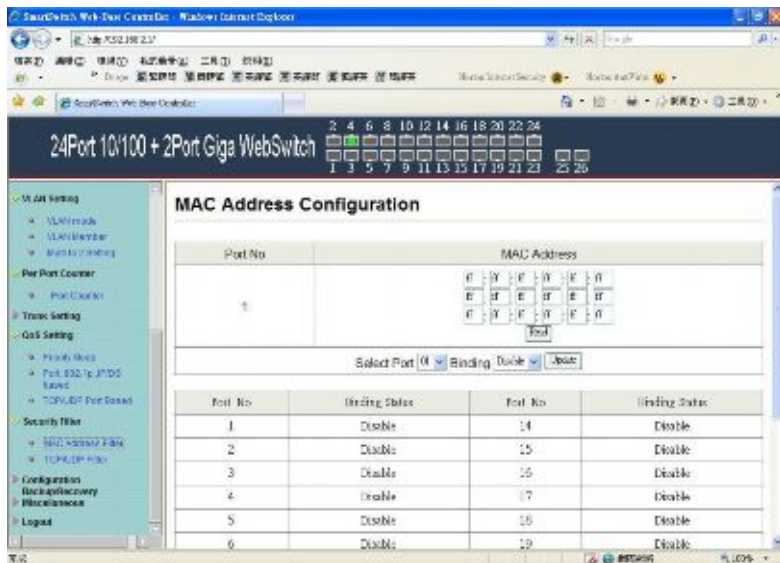
High: The incoming packet will be forwarded with the high priority.

Low: The incoming packet will be forwarded with the Low priority.

There are four modes of TCP/UDP priority to select.

1. “F-I-F-O”- First-in-First-Out, the first receiving packet will be firstly transmitted.
2. “Discard” - packets will be discarded.
3. “Low” - the packets of low priority will be transmitted after the packets of high priority.
4. “High” – the packets of high priority will be firstly transmitted.

Security Filter: MAC Address Filter



Set special MAC address to activate on the selected port

1. Enable: allow the packet which has this MAC address to activate on the port. The port will record the first receiving source MAC address as the security MAC address.
2. Click “Update” to confirm and finish the setting.

Security Filter: TCP_UDP Filter Configuration

TCP_UDP Filter Configuration

Function Enable: Enable

Port Filtering Mode: Deny

*"Negative" means the selected protocol will be dropped and other protocols will be forwarded.
 *"Positive" means the selected protocol will be forwarded and other protocol will be dropped.

Protocol	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)
<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)
<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> TELNET (23)

Secure WAN port

<input type="checkbox"/> Port1	<input type="checkbox"/> Port2	<input type="checkbox"/> Port3	<input type="checkbox"/> Port4	<input type="checkbox"/> Port5	<input type="checkbox"/> Port6	<input type="checkbox"/> Port7	<input type="checkbox"/> Port8	<input type="checkbox"/> Port9	<input type="checkbox"/> Port10
<input type="checkbox"/> Port11	<input type="checkbox"/> Port12	<input type="checkbox"/> Port13	<input type="checkbox"/> Port14	<input type="checkbox"/> Port15	<input type="checkbox"/> Port16	<input type="checkbox"/> Port17	<input type="checkbox"/> Port18	<input type="checkbox"/> Port19	<input type="checkbox"/> Port20
<input type="checkbox"/> Port21	<input type="checkbox"/> Port22	<input type="checkbox"/> Port23	<input type="checkbox"/> Port24	<input type="checkbox"/> Port25	<input type="checkbox"/> Port26	<input type="checkbox"/> Port27	<input type="checkbox"/> Port28	<input type="checkbox"/> Port29	<input type="checkbox"/> Port30

Notes: The description of Secure WAN port is shown below.

TCP_UDP Filter Configuration

Function Enable: Enable

Port Filtering Mode: Deny

Secure WAN port

<input type="checkbox"/> Port1	<input type="checkbox"/> Port2	<input type="checkbox"/> Port3	<input type="checkbox"/> Port4	<input type="checkbox"/> Port5	<input type="checkbox"/> Port6	<input type="checkbox"/> Port7	<input type="checkbox"/> Port8	<input type="checkbox"/> Port9	<input type="checkbox"/> Port10
<input type="checkbox"/> Port11	<input type="checkbox"/> Port12	<input type="checkbox"/> Port13	<input type="checkbox"/> Port14	<input type="checkbox"/> Port15	<input type="checkbox"/> Port16	<input type="checkbox"/> Port17	<input type="checkbox"/> Port18	<input type="checkbox"/> Port19	<input type="checkbox"/> Port20
<input type="checkbox"/> Port21	<input type="checkbox"/> Port22	<input type="checkbox"/> Port23	<input type="checkbox"/> Port24	<input type="checkbox"/> Port25	<input type="checkbox"/> Port26	<input type="checkbox"/> Port27	<input type="checkbox"/> Port28	<input type="checkbox"/> Port29	<input type="checkbox"/> Port30

Notes: The description of Secure WAN port is shown below.

The protocol will be either dropped or forwarded based on the Secure WAN port.

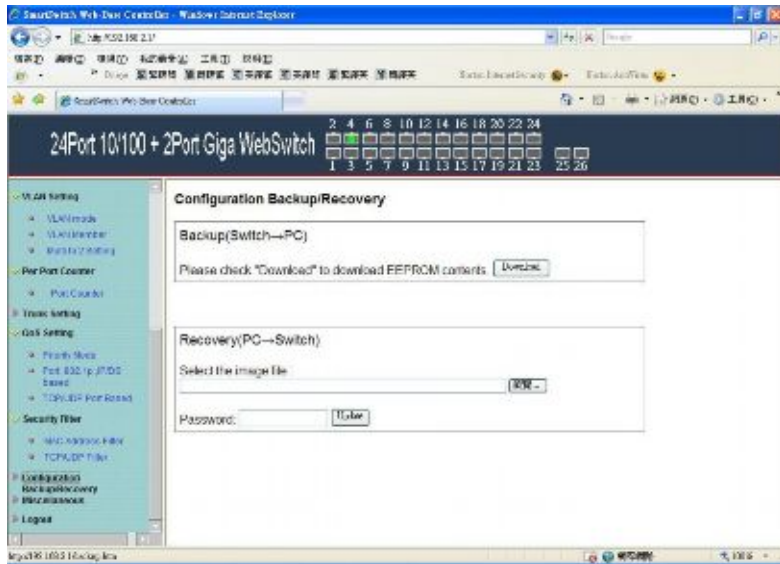
```

    graph LR
      A[Switch Port] --> B[Config TCP_UDP Filter]
      B --> C[Output Port]
  
```

You can enable or disable this function of per port.
If you enable this function, there are two modes as below,

1. “Negative Filter Mode” - packets compliant with protocol will be dropped.
2. “Positive Filter Mode” - packets compliant with protocol will be forwarded.
3. Click “Update” to confirm and finish the setting.

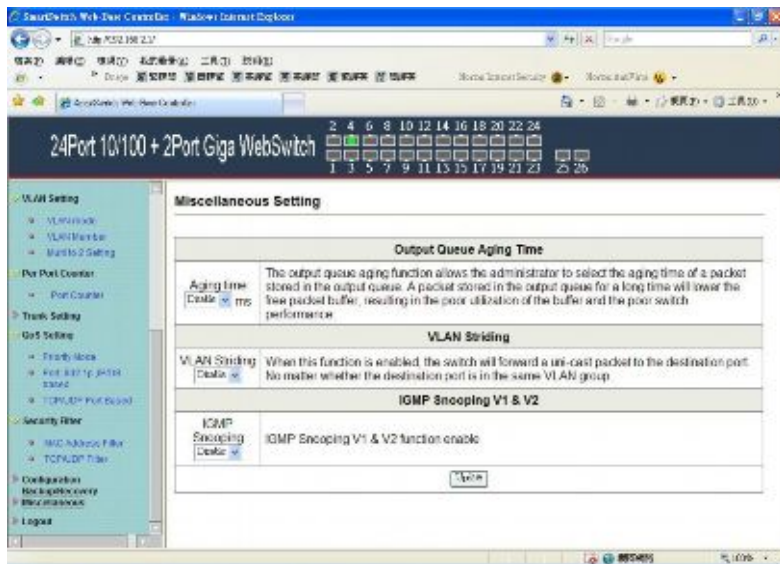
Configuration Backup/Recovery



Follow the instruction on the screen to update the original setting.

- “Backup” - Click “Download” to confirm the setting.
- “Recovery” – Click “Update” to confirm the setting.

Miscellaneous: Miscellaneous Setting



1. "Aging Time" - You can set queue aging time into different milliseconds or disable this function.
2. "VLAN Striding" – You can enable/disable this function.
3. "IGMP Snooping" – You can enable/disable this function.
4. Click "Update" to confirm and finish the setting.

Logout: You can click “Logout” to logout.

