



ALL8089WPoE

8 Port Web Smart Switch

User's Manual

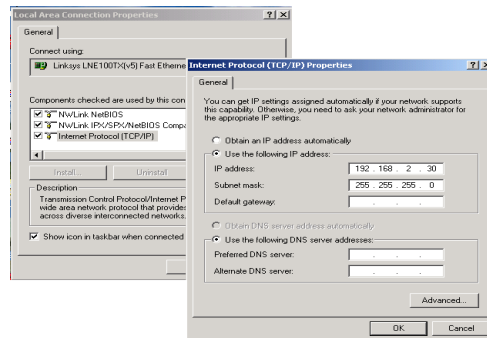
Ver:1.3.3

Web Smart Switch Configure

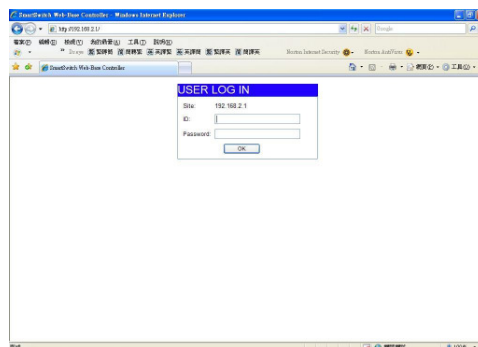
Please follow the steps to configure this Web Smart switch.

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.



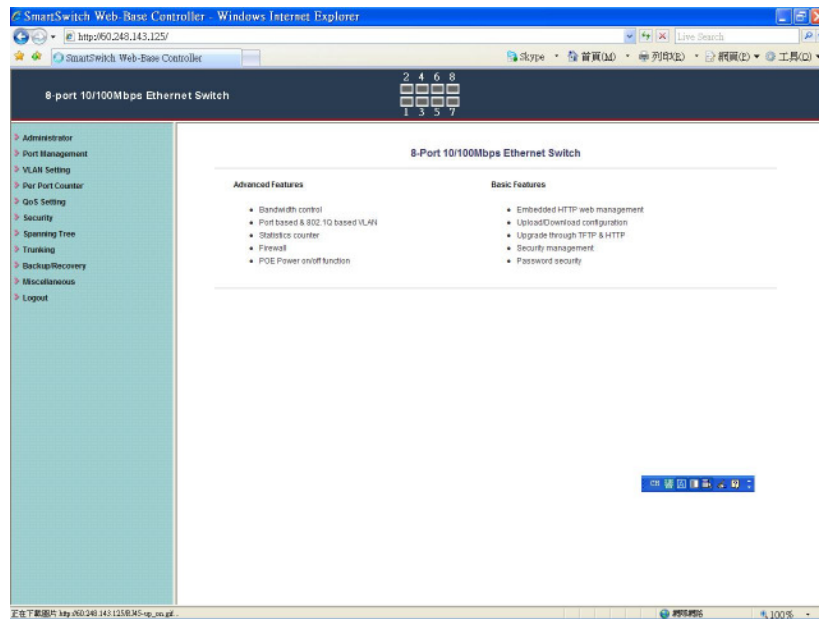
Step 3: Open the web browser (like IE...), and go to 192.168.2.1 Then you will see the login screen.



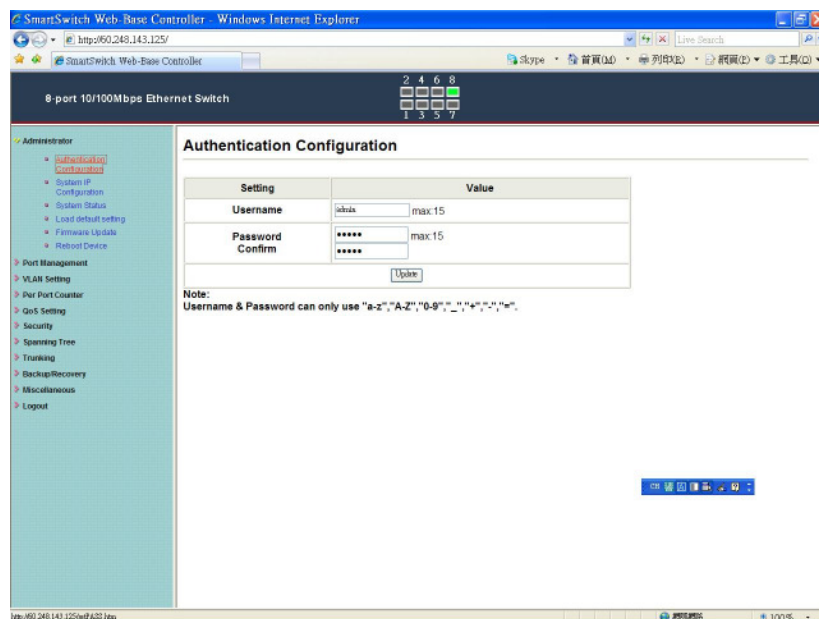
ID and the password: admin

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
- QoS Setting
- Security
- Spanning Tree
- Trunking
- Backup/Recovery
- Miscellaneous
- Logout



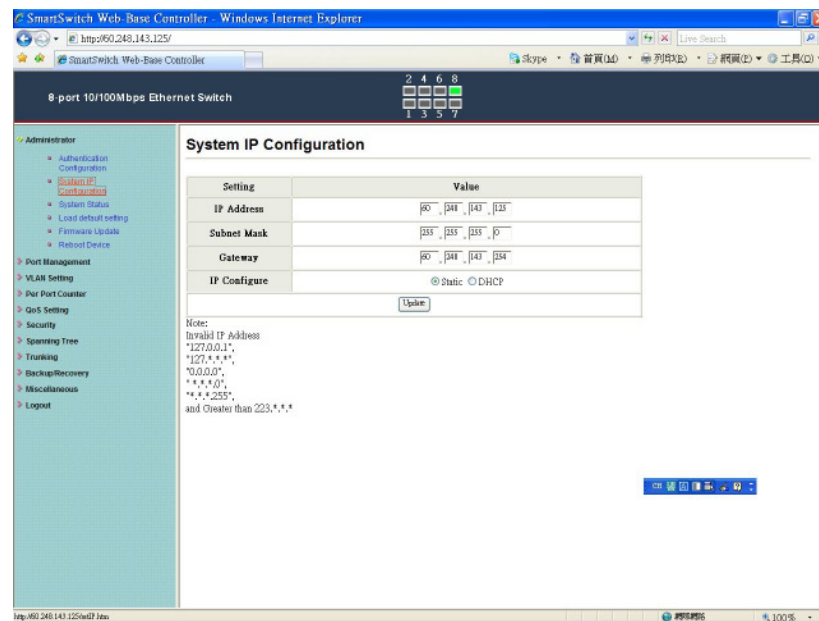
Administrator: Authentication Configuration



1. Change the user name and the password.
2. Click “Update” to confirm the new change.

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

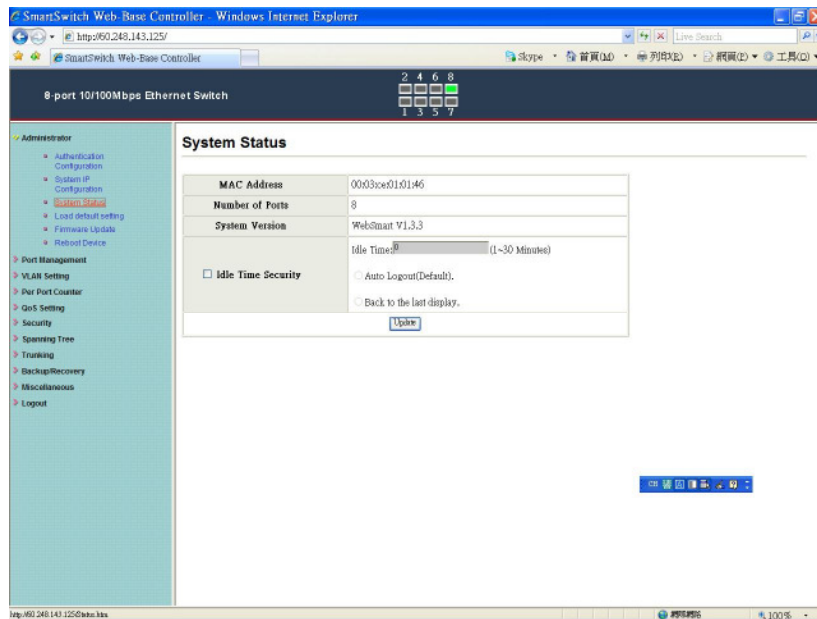
Administrator: System IP Configuration



1. Change the IP address: type the new IP address or select DHCP IP configuration.
2. Click "Update" to confirm the new change.
"Update Successfully!!" will be shown on the screen.
3. Click "Reboot" to use new setting to login

Now, the setting of "System IP Configuration" is finished.

Administrator: System Status

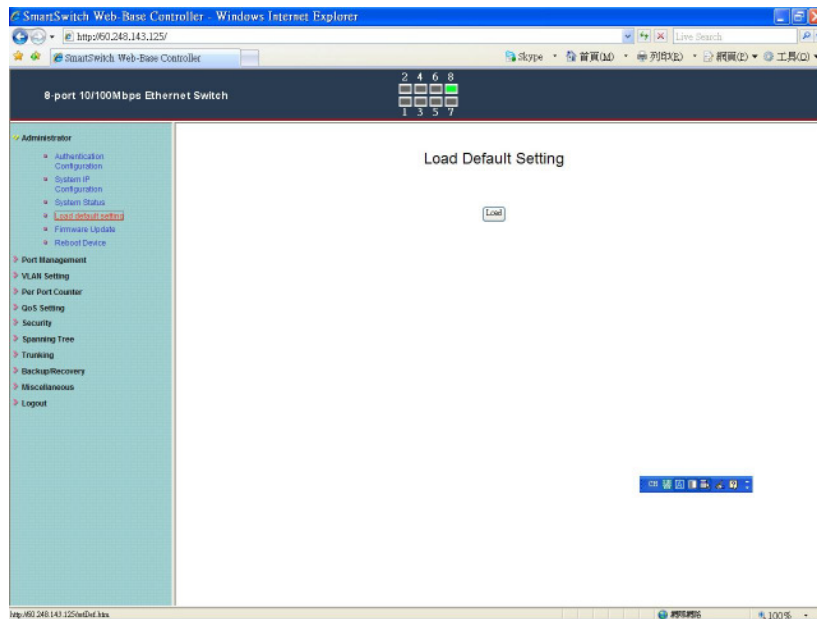


MAC address and system version will be shown on the screen.

1. Change the new comment of this switch by typing the new comment.
2. Click "Update" to confirm the new change.
"Update Successfully!!" will be shown on the screen.
3. Click "Reboot" to use new setting to login

Now, the setting of "System Status" is finished.

Administrator: Load Default Setting

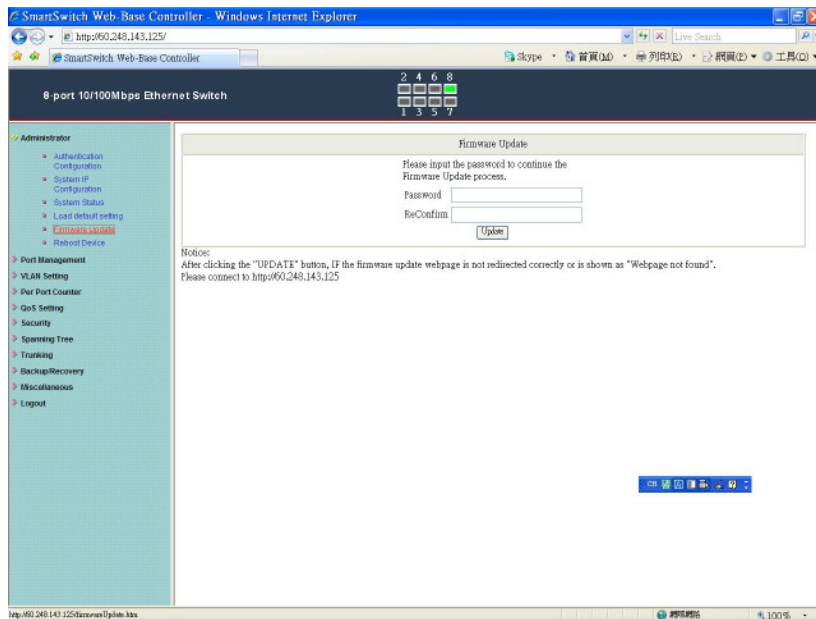


1. Click “Load” to back to the factory default setting.

****Note:** Recover switch default setting excluding the IP address, User name and Password.

Now, the default is loaded.

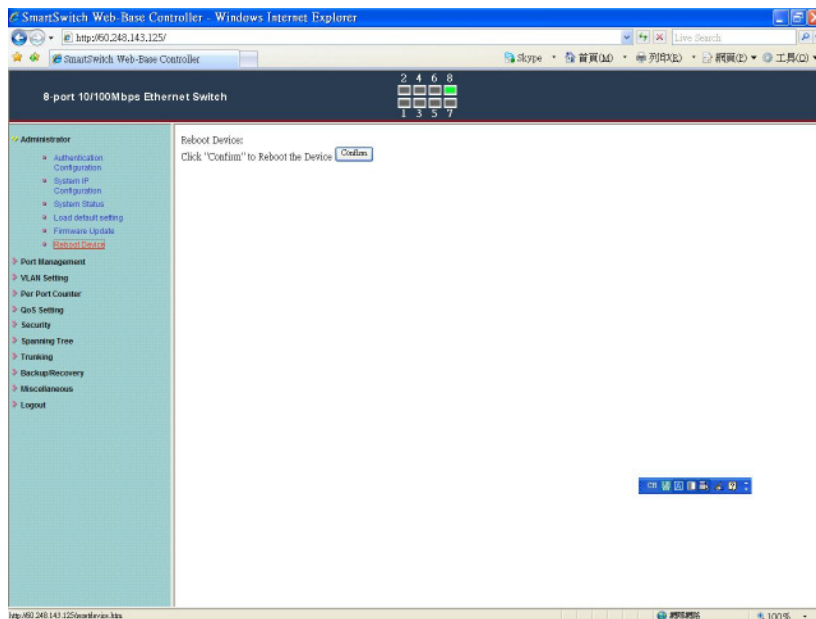
Administrator: Firmware Update



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

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

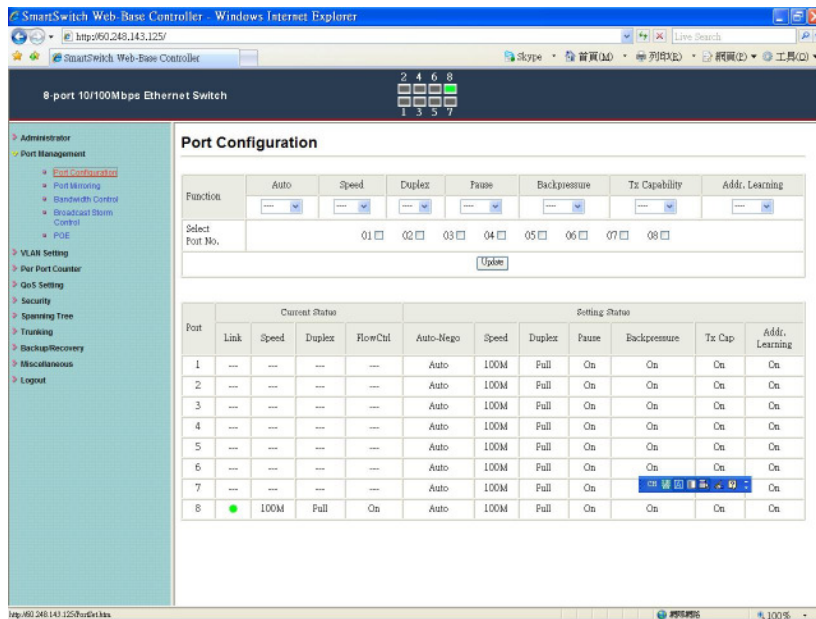
Administrator: Reboot Device



1. Click "Confirm" to reboot the device.

Now, the setting of "Reboot Device" is finished.

Port Management: Port Configuration

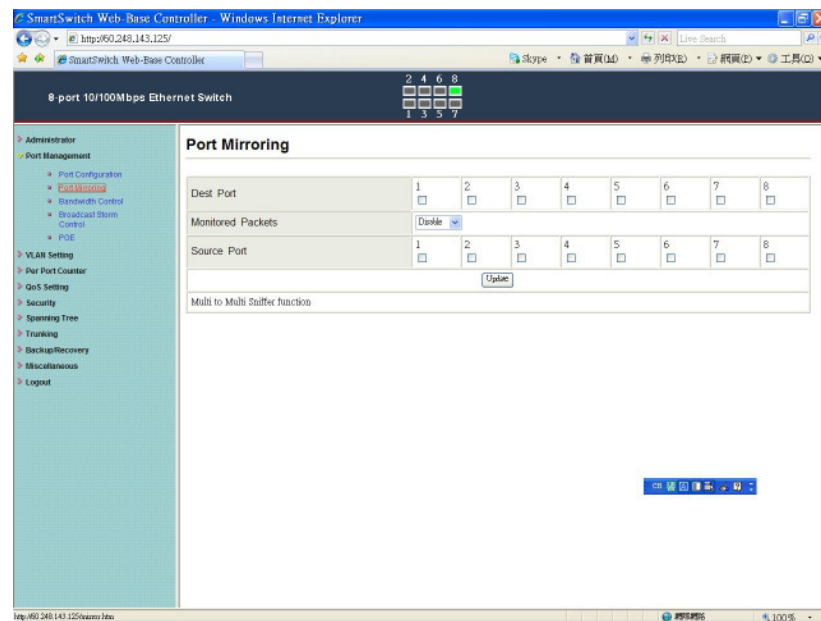


Select the "Port No." - configure the mode below:

1. "Auto" - enable/disable Auto-Negotiation.
2. "Speed" - 10M or 100M mode for the selected port.
2. "Duplex" - Full or Half-Duplex mode for the selected port.
4. "Pause" - enable/disable for the selected port.
5. "Backpressure" - enable/disable for the selected port.
6. "Tx Capability (Cap)" - enable/disable for the selected port.
7. "Addr. Learning" - enable/disable for the selected port.

Now, the setting of "Port Configuration" is finished.

Port Management: Port Mirroring

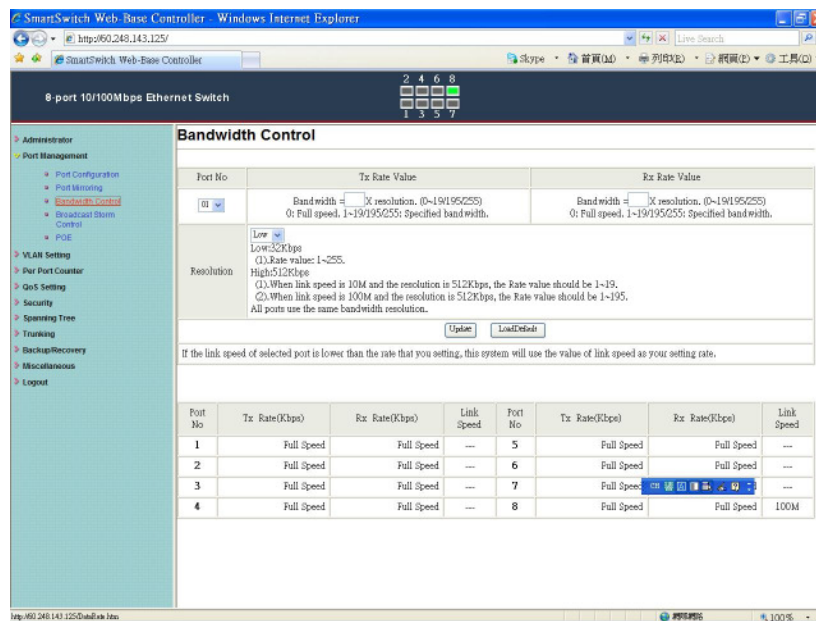


Port Mirroring is used to mirror traffic, RX, TX or TX&RX, from Source port to Destination port for analysis.

1. Select the Destination port: you can choose port 1 to port 8
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.

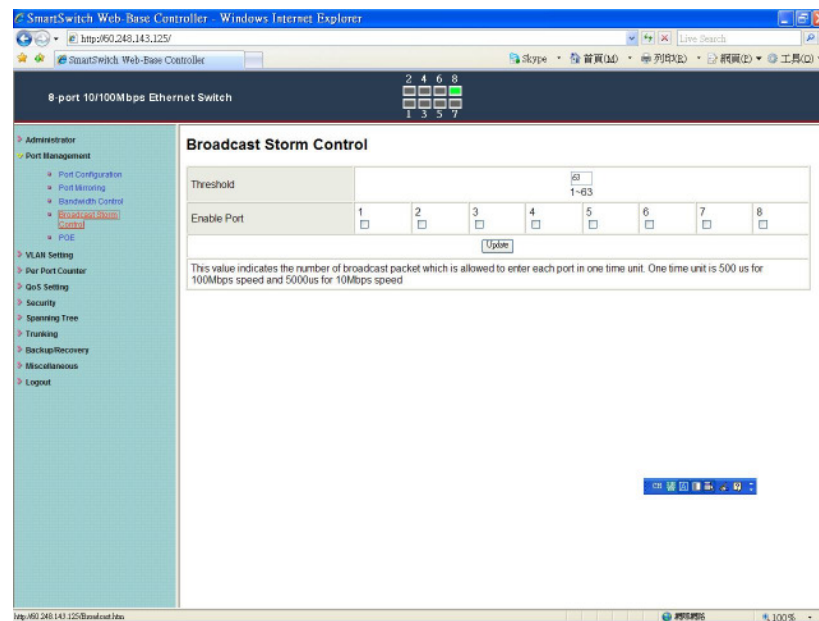
Port Management: Bandwidth Control



1. Select the “Port No.”: you can choose port 1 to port 8
2. “TX Rate Value”: set the transmission rate of the selected port. (0:Full speed; 1~255:Specified bandwidth.)
3. “RX Rate Value”: set the receiving rate of the selected port. (0: Full speed; 1~255: Specified bandwidth.)
4. “Resolution” : Low: 32 kbps / High: 512 kbps
5. Click “Update” to confirm the setting or “LoadDefault”.

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

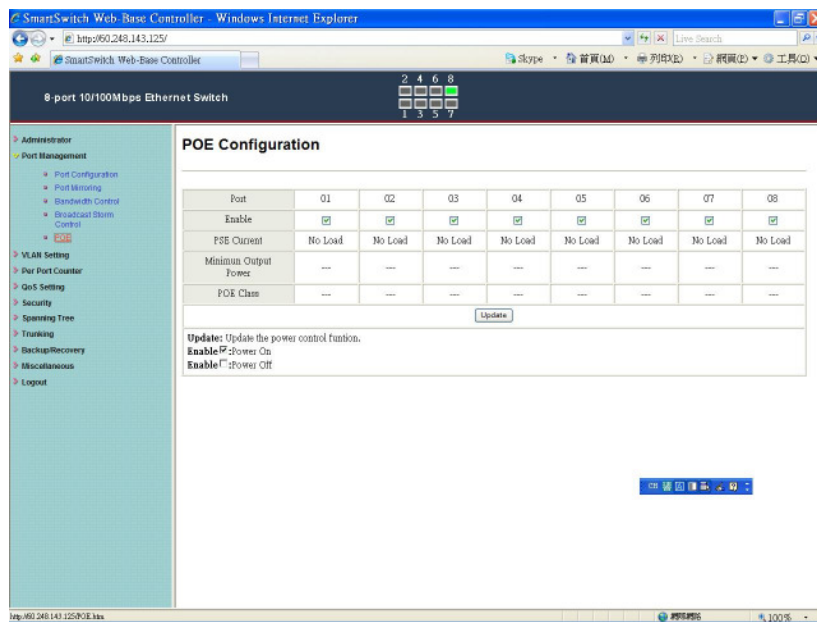
Port Management: Broadcast Storm Control



1. “Threshold” - Set the threshold from 1~63.
2. “Enable Port” - per port to define the status of broadcast packets.
3. Click “Update” to confirm the setting.

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

Port Management: PoE Configuration

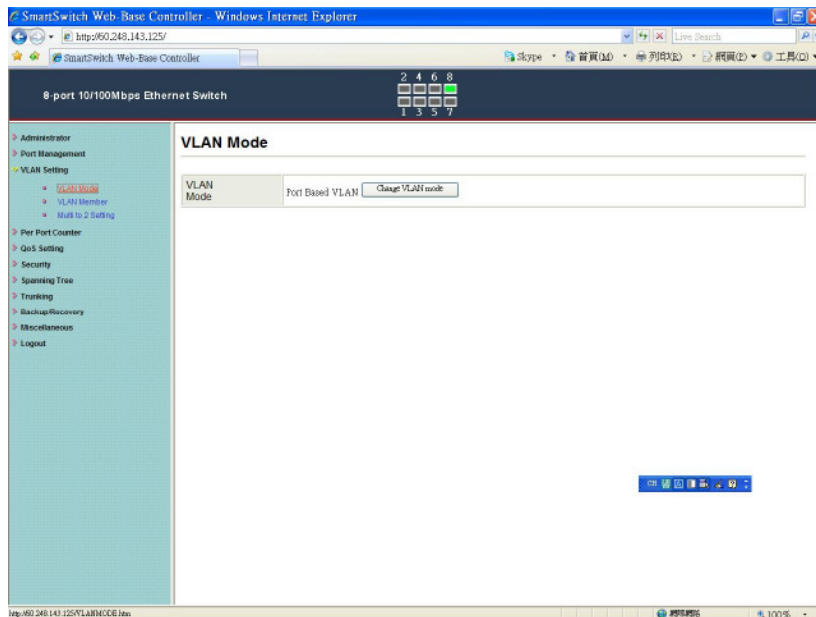


Remote access and monitor the attached PD (Powered Device) status by using Enable/Disable function.

1. **Enable:** POE of the port is able to supply power to the attached PD (Powered Device)
2. **PSE Current & Minimum Output Power:** The status of the port current and minimum output power.
3. **POE class:** each POE port will detect the class of the attached PD (Powered Device)
4. Click “Update” to confirm and finish the setting.

Now, the setting of “PoE Configuration” is finished.

VLAN Setting: VLAN Mode



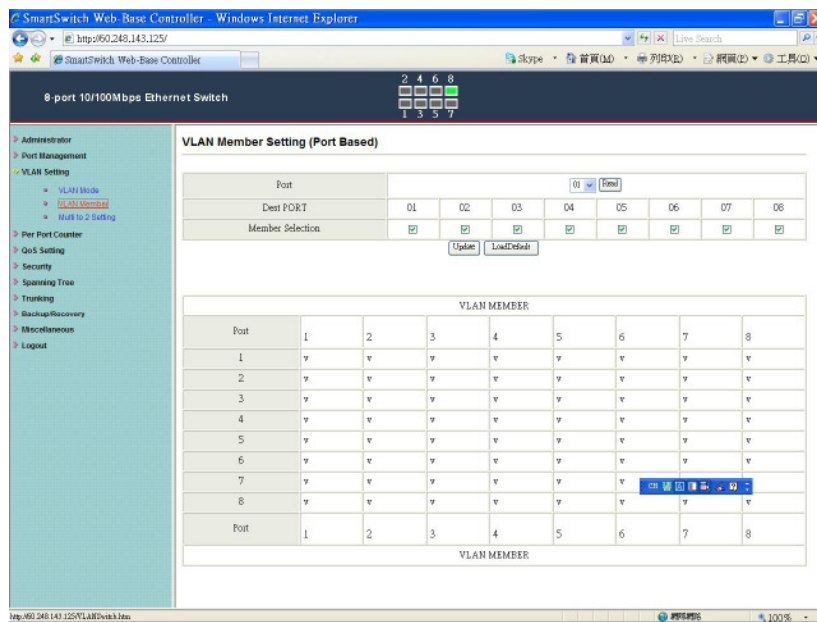
There are two VLAN modes : Port Based VLAN and Tagged VLAN.

Click “Change VLAN mode” to select the mode.

****If the Port Based VLAN function is enabled, Multi to 2 setting and tag Based VLAN will be disabled automatically.**

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

VLAN Setting: VLAN Member Setting (Port Based)

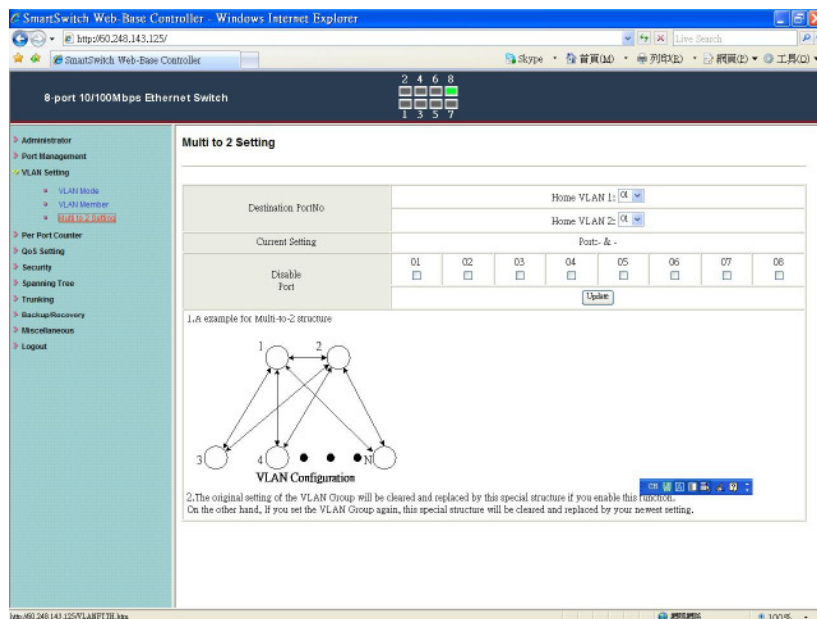


You can select a port group.

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. “Disable Port” – choose the port which you don't want to use
4. Click “Update” to confirm and finish the setting.

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

Per Port Counter: Counter Category

SmartSwitch Web Base Controller - Windows Internet Explorer

http://60.248.143.125/

SmartSwitch Web-Base Controller

8 port 10/100Mbps Ethernet Switch

Counter Category

Counter Mode Selection: Receive Packet & Transmit Packet

Port	Receive Packet	Transmit Packet
01	0	0
02	0	0
03	0	0
04	0	0
05	0	0
06	0	0
07	0	0
08	2747	3077

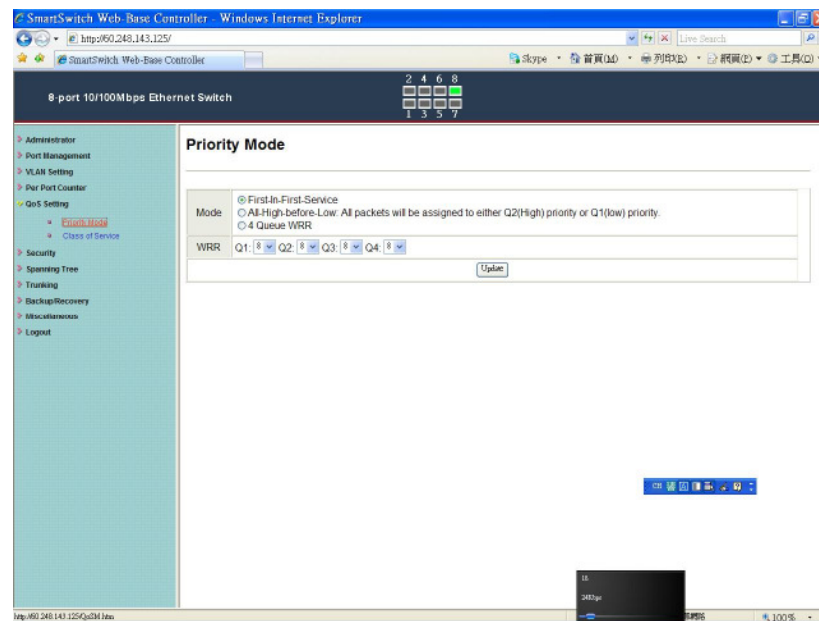
Refresh

Note:
If Counter Mode is switched from the old one to a new one, the counter value of the old one will be discarded. And the counter value of the new one will be counted from zero.

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

Click “Refresh” or “Clear” the data.

QoS Setting: Priority Mode



There are three Priority Modes to select.

1. “First-in-First-Service” - the first receiving packet will be firstly transmitted.
2. “All-High-before-Low” – All packets will be assigned to either high priority queue or low priority queue.
3. “4 Queue WRR (Weight-Round-Robin)” - set the ratio of the transmitting packet.
4. Click “Update” to confirm and finish the setting.

QoS Setting: Class of Service

Class of Service

The switch treats TCP/UDP, IP TOS/DS, 802.1p and physical port CoS scheme in the following priority.
TCP/UDP > IP TOS/DS > 802.1p > Physical port.
This means TCP/UDP CoS will override all other settings.

(1) TCP/UDP port

Note:
(1) Q1 ~ Q4 options are effective for the selected physical port only.
(2) "Drop" option is the global setting for all physical ports.

Protocol	Q1	Q2	Q3	Q4	Drop
FTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SSH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TELNET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SMTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DNS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TFTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HTTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POP3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NEWS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SNTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NetBIOS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IMAP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SNMP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HTTPS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MSN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
XRD_RDP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
QQ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ICQ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yahoo	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BOOTP/DHCP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User-defined A TCP/UDP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User-defined B TCP/UDP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User-defined C TCP/UDP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: These user-defined TCP/UDP port are the same as that used in TCP/UDP filter.

User-defined Port range (85535-1) User-defined A Port: User-defined B Port: User-defined C Port: User-defined D Port:

The TCP/UDP port will be checked on the following physical port

Port	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

(2) IP TOS/DS

IP TOS/DS Priority Setting 01 02 03 04 05 06 07 08

IP TOS/DS Port Setting 01 02 03 04 05 06 07 08

(3) 802.1p

For 802.1p priority field, the switch utilizes the following priority mapping table:
6 and 7 are mapped to the "Q4" priority queue.
4 and 5 are mapped to the "Q3" priority queue.
0 and 3 are mapped to the "Q2" priority queue.
1 and 2 are mapped to the "Q1" priority queue.

Port No/Mode	802.1p	Port No/Mode	802.1p
1	<input type="checkbox"/>	5	<input type="checkbox"/>
2	<input type="checkbox"/>	6	<input type="checkbox"/>
3	<input type="checkbox"/>	7	<input type="checkbox"/>
4	<input type="checkbox"/>	8	<input type="checkbox"/>

(4) Physical port

Port	Q1	Q2	Q3	Q4
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

TCP/UDP > TP TPS/DS > 802.1P > Physical port

1. "TCP/UDP Port" – Q1 ~ Q4 options are effective for the selected physical port only. "Drop" option is the global setting for all physical ports.

The packet queue will be transferred based on the number of "4 Queue WRR" on **QoS Setting: Priority Mode.**

**WRR – Q1/Q2/Q3/Q4

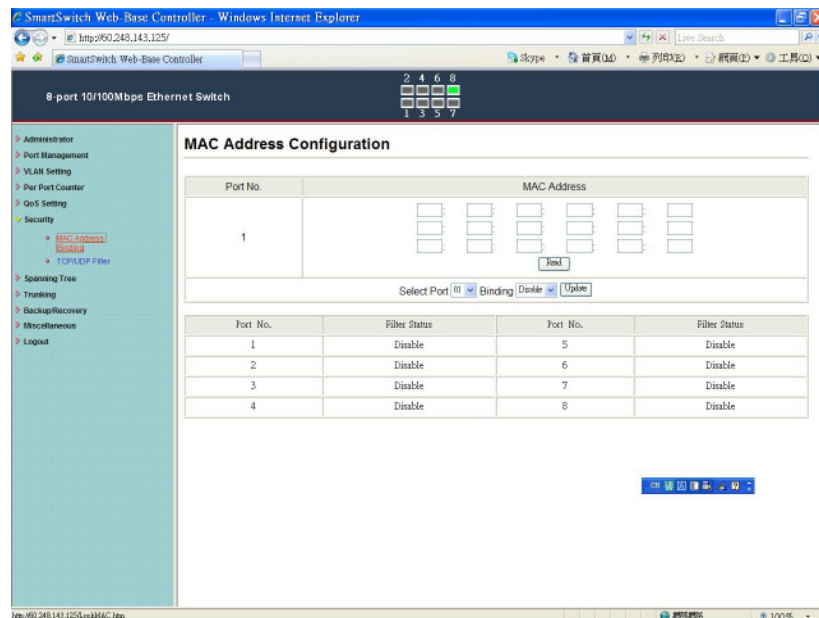
**"Drop" - packets will be dropped.

2. "IP TOS/DS" – "Priority Setting": Q1 ~ Q4; "IP TOS/DS Port Setting" - It means the packets with special IP will be firstly transmitted.
3. "802.1p" – Priority mapping table as the screen shown.

4. “Physical port” - you can select the port which you want to configure as Q1~Q4 priority.
5. Click “Update” to confirm and finish the setting.

Now, the setting of “Class of Service” is finished.

Security: MAC Address Configuration

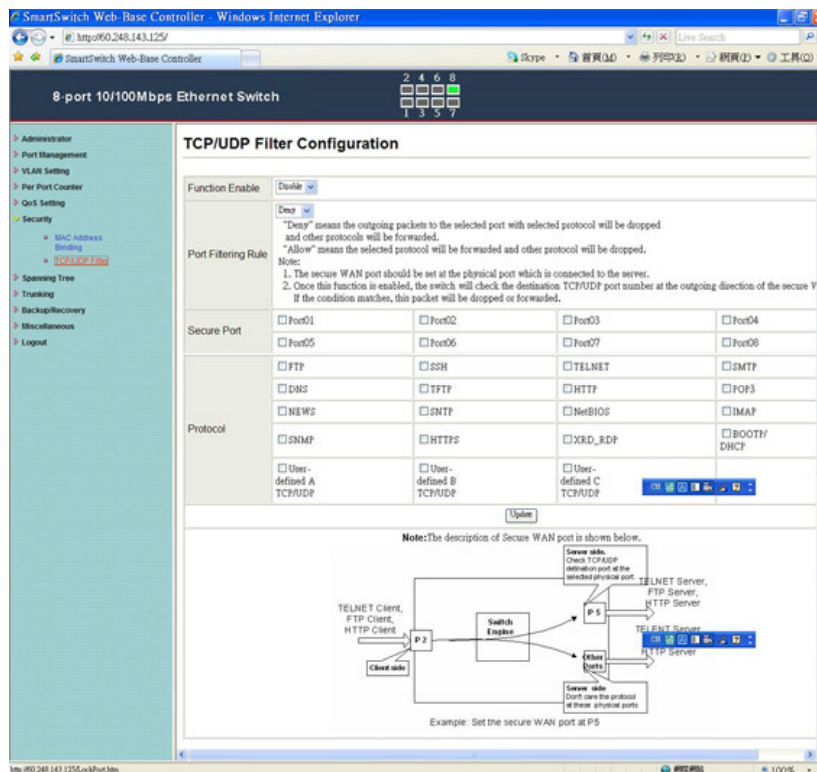


Set special MAC address to activate on the selected port

1. Choose “Select Port” – port 1~8
2. “Binding” – “Enable”: allow the packet with the specified source MAC address to enter this port.
3. Click “Update” to confirm and finish the setting.

Now, the setting of “MAC Address Filter” is finished.

Security: TCP_UDP Filter Configuration



You can enable or disable this function of per port.

If the “Function Enable” is “Enable”, please kindly check the following setting:

1. “Port Filtering Rule” –
 “Deny”: the outgoing packets to the selected port with selected protocol will be dropped and other protocols will be forwarded.
 “Allow”: the selected protocol will be forwarded and other protocol will be dropped.
2. “Secure Port” – choose secure ports which you want.

****Note 1:**

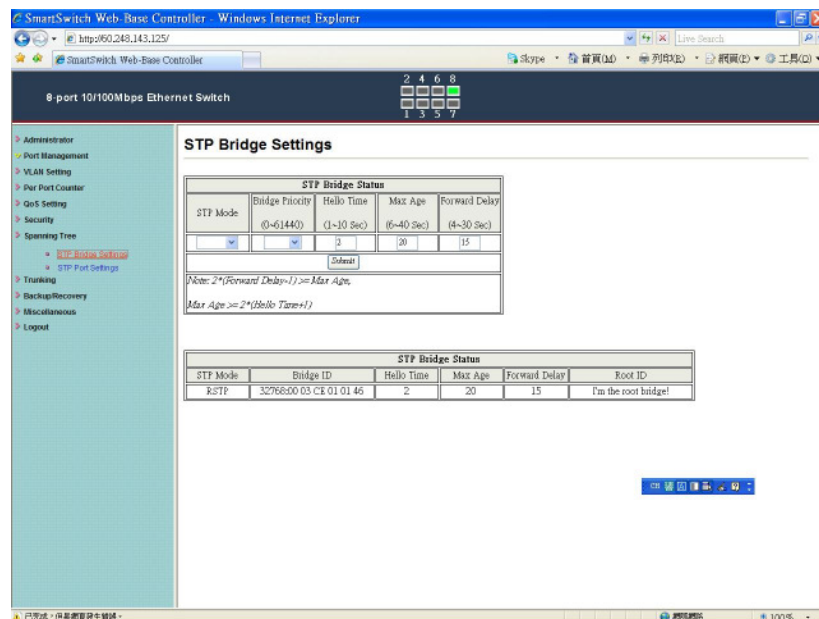
- a. The secure WAN port should be set at the physical port which is connected to the server.
- b. Once this function is enabled, the switch will check the destination TCP/UTP port number at the outgoing direction of the secure WAN port.
 If the condition matches, this packet will be dropped or forwarded.

****Note 2:** The description of Secure WAN port is shown on the bottom of this screen.

3. “Protocol” – choose protocols which you want.
4. Click “Update” to confirm and finish the setting.

Now, the setting of “TCP/UDP Filter Configuration” is finished.

Spanning Tree: STP Bridge Settings

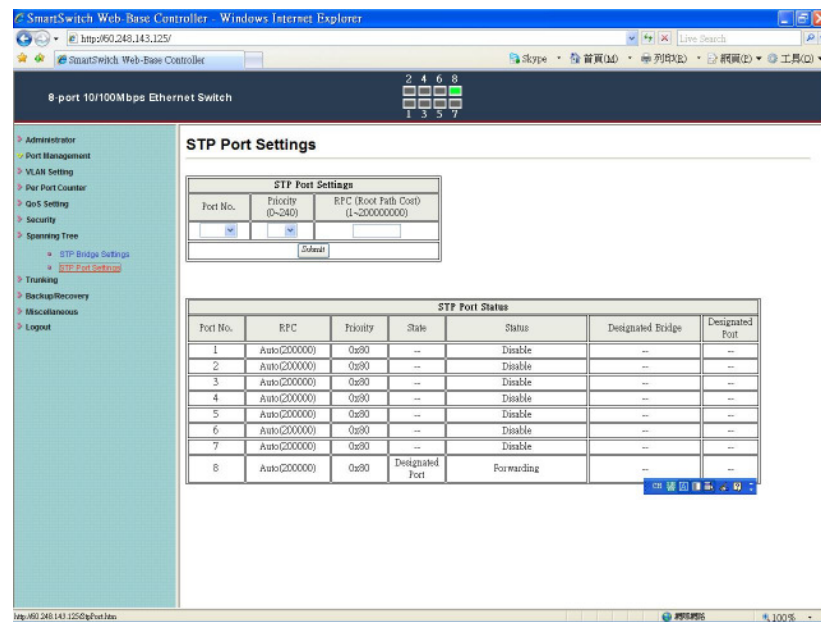


This setting is to avoid the loop network.

1. Select the "STP Mode"- choose "Disable", "STP" or "RSTP"
2. Set the "Bridge Priority" – Set the priority of the Bridge
3. Set the period of "Hello Time" packet – Provides the time period between root bridge configuration messages.
4. Set the "Max Age" – Indicates when the current configuration message should be deleted.
5. Set the "Forward Delay" time – Provides the length of time that bridges should wait before transitioning to a new state after a topology change. (If a bridge transitions too soon, not all network links might be ready to change their state, and loops can result.)
6. Click "Update" to confirm and finish the setting.

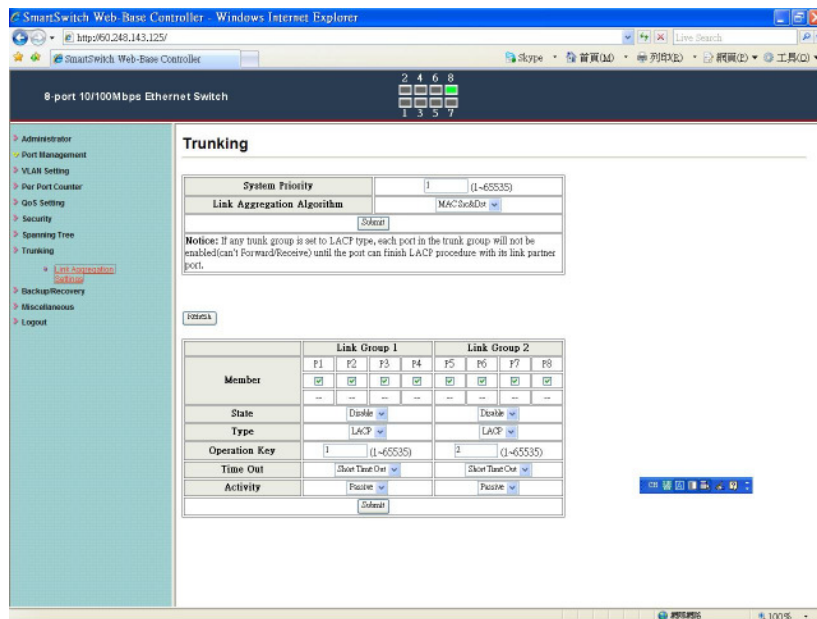
Now, the setting of "STP Bridge Settings" is finished.

Spanning Tree: STP Port Settings



1. Choose "Port No.": Port 1 ~ Port 8
2. Choose "Priority": 0~ 240
3. "RPC" = Root Path Cost: 0 = AUTO. When the loop is found, the STP/RSTP will calculate the cost of its path.

Trunking: Link Aggregation Settings



There are two groups to choose and max. for each group is 4 ports.

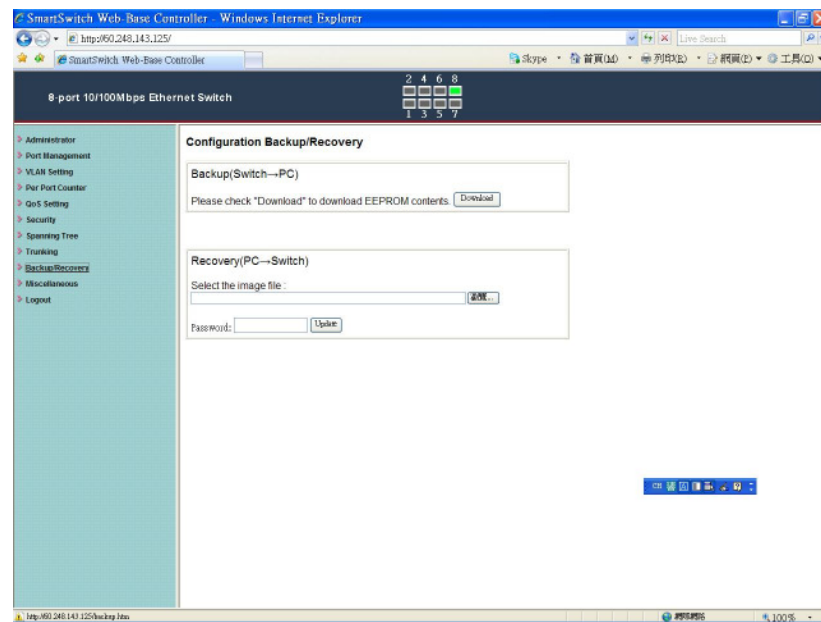
Click “Submit” to confirm and finish the setting.

“State” – Enable / Disable

“Type” – LACP/ Static

“Activity” – Active/Passive: **Both switches use “LACP” to configure the Trunk, at least one of them should be “Active”**

Backup/Recovery

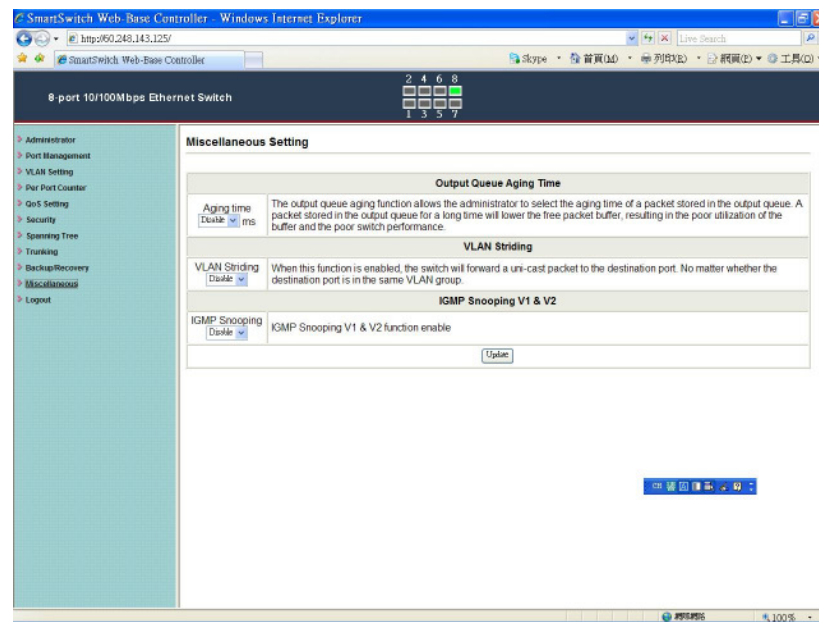


Follow the instruction on the screen to update the original setting.

“Backup” - Click “Download” to confirm the setting.

“Recovery” – select a file and key in the password → Click “Update” to confirm the setting.

Miscellaneous: Miscellaneous Setting



1. “Output Queue 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 V1 & V2” – You can enable/disable this function.
4. Click “Update” to confirm and finish the setting.

Logout: You can click “Logout” to logout.



10.03.2010

EC – Declaration of conformity

For the following product

ALL8089WPoE 8 Port 10/100TX Desktop Web managed

CE This device complies with the essential requirements of the EMC Directive 2004/108/EC as amended by Directives 92/31 EEC and 93/68/EEC with CE marking requirement. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the EMC Directive 2004/108/EC as amended by Directives 92/31 EEC and 93/68/EEC.

This equipment meets the following conformance standards:

EN: 55022:2006: Class B

61000-3-2: 2006

61000-3-3: 2005

EN: 55024:2003:

61000-4-2:2001

61000-4-3:2006

61000-4-4:2004

61000-4-5:2005

61000-4-6:2001

61000-4-11:2004

This equipment is intended to be operated in all countries.

This declaration is made by

ALLNET Computersysteme GmbH

Maistraße 2

82110 Germering

Germany

and can be downloaded from <http://www.allnet.de/ce-certificates/>

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