WS16POE Switch

User Manual

Version: 01/01/2011

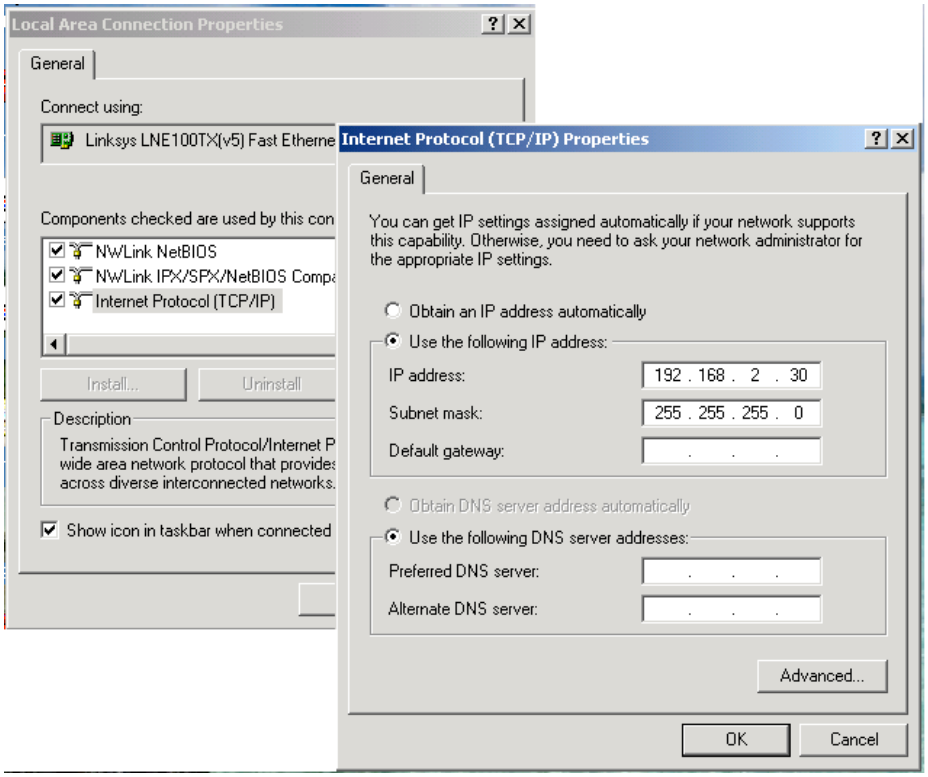
Wildix

Web Smart Switch Configure

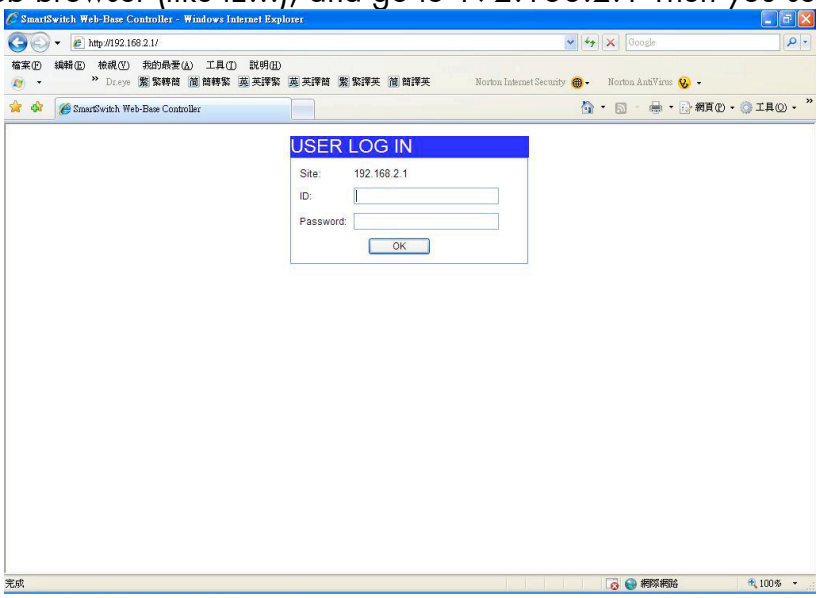
Please follow the steps to configure this Web Smart switch.

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 see the login screen.

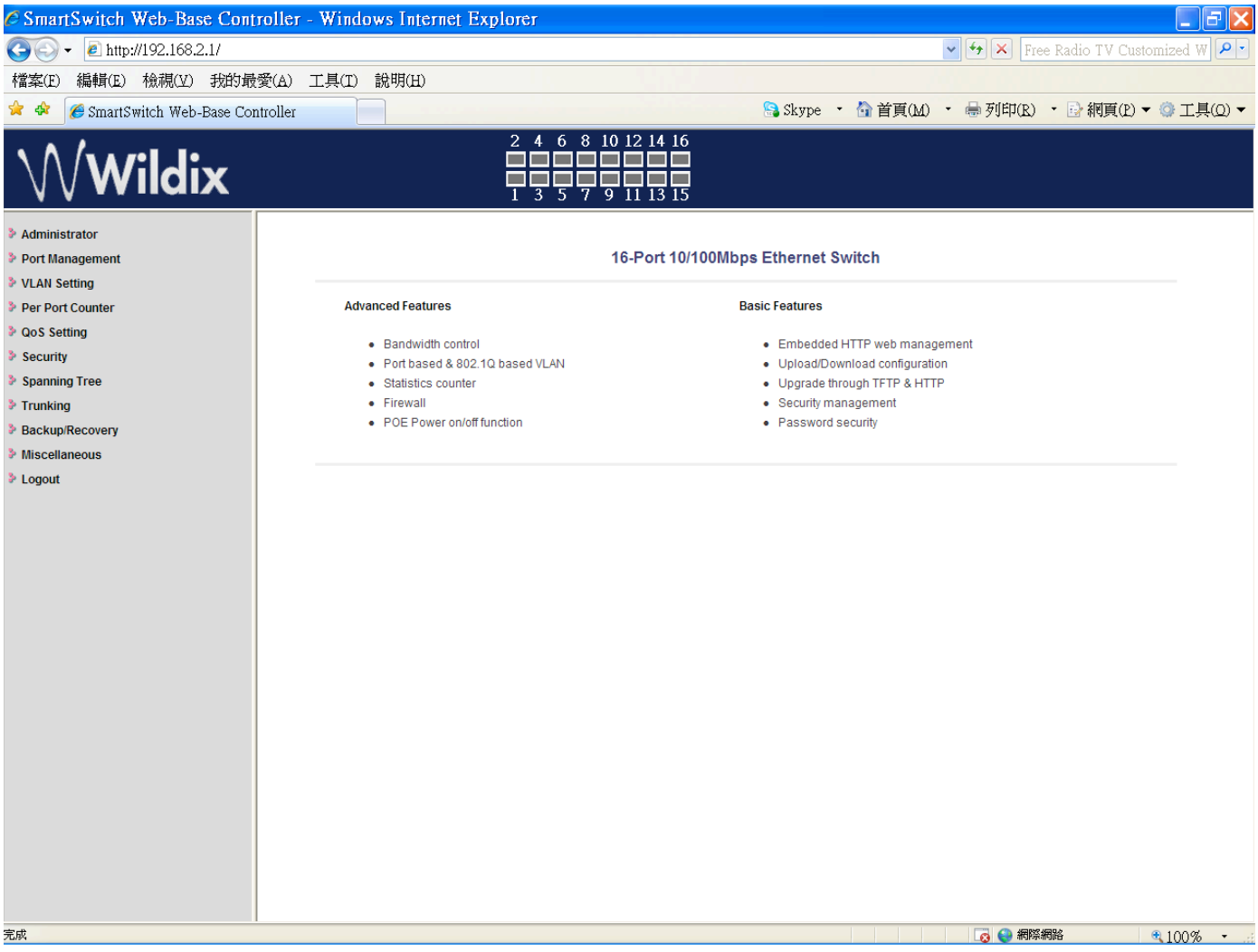


ID and the password: admin

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



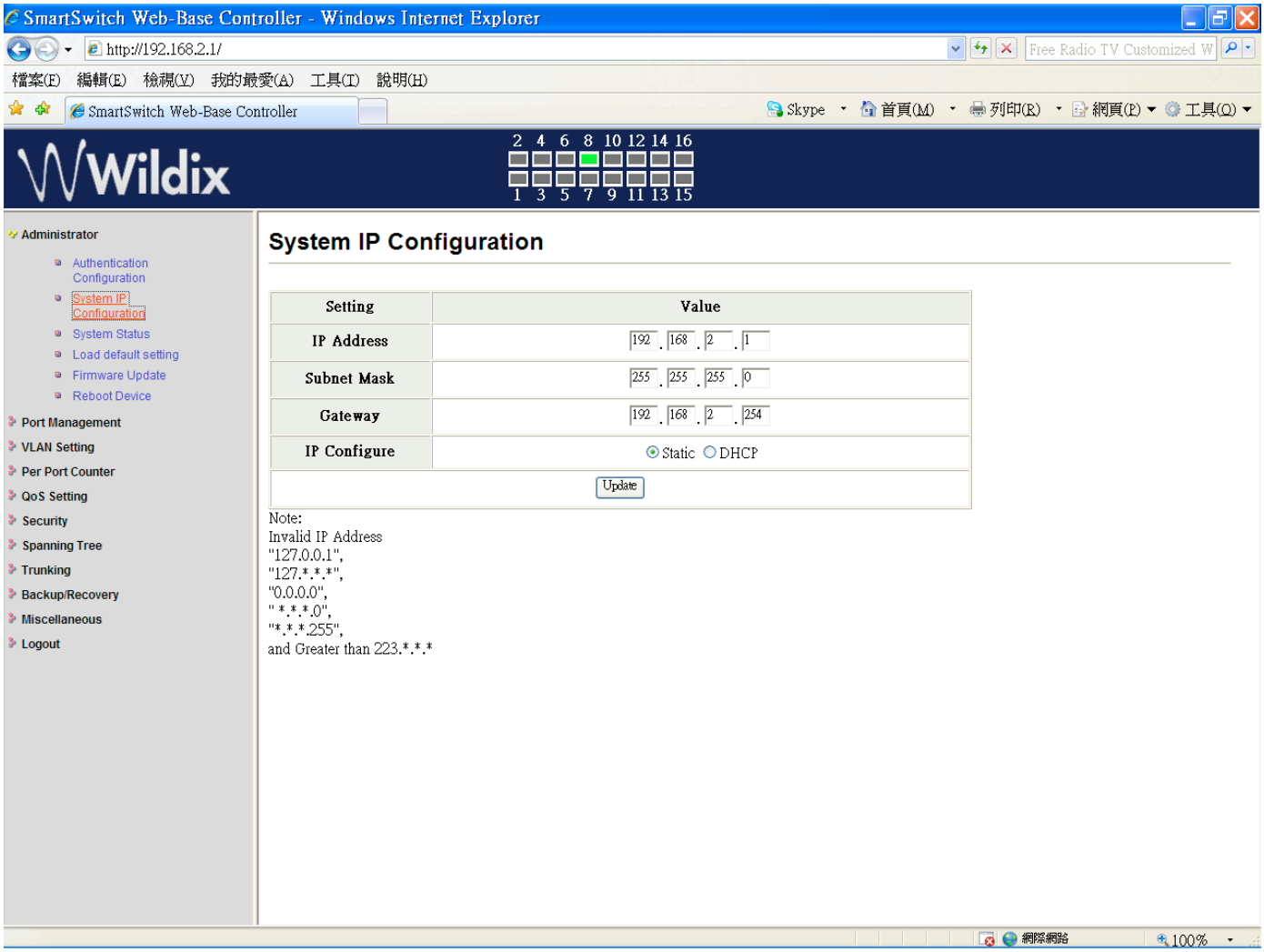
Administrator: Authentication Configuration

1. Change the user name and the password.

2. Click on “Update” to confirm the change.

You can use the new user name and password.

Administrator: System IP Configuration



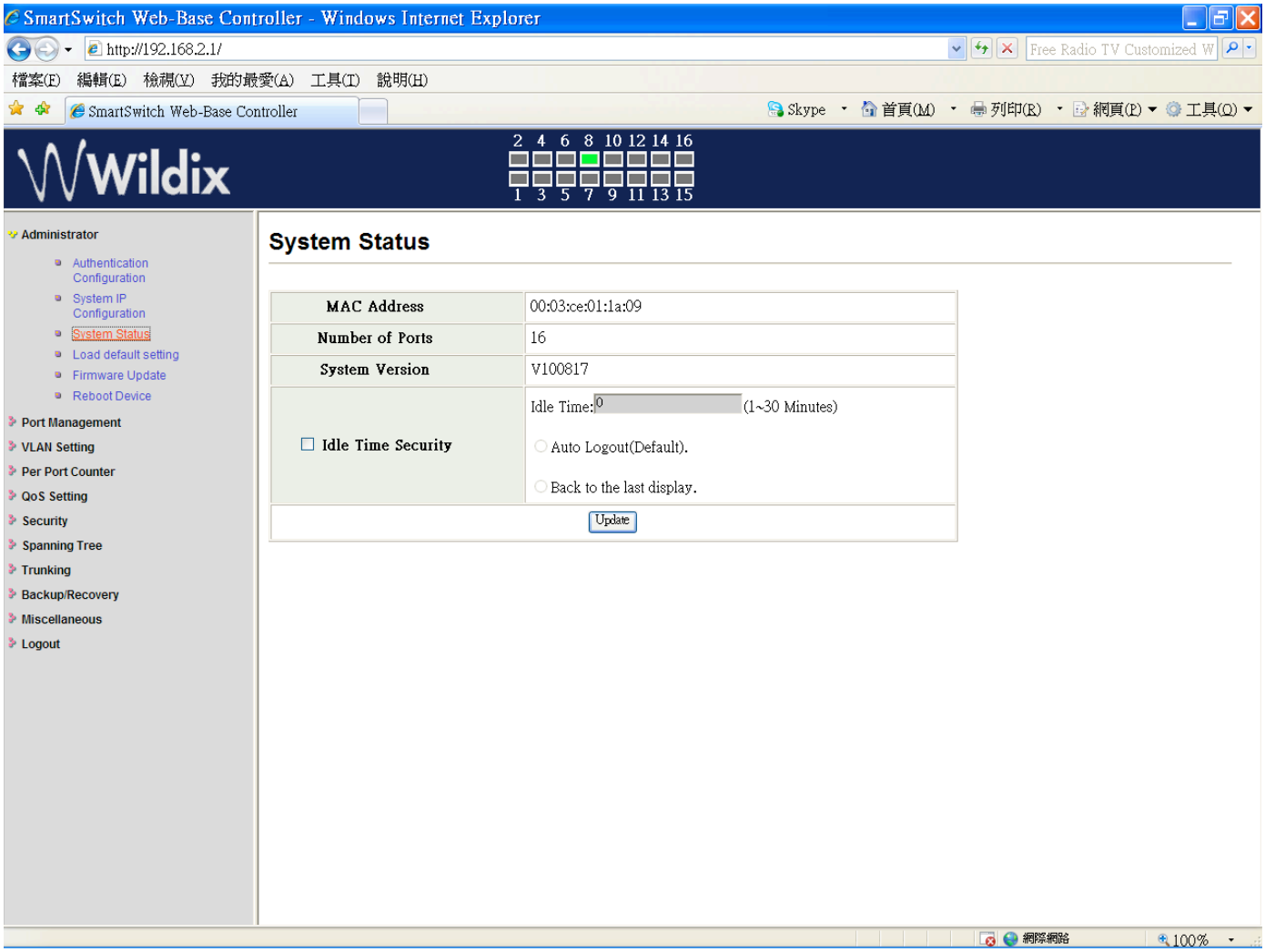
1. Change the IP address: type the new IP address or select DHCP IP configuration.

2. Click on “Update” to confirm the change.
   “Setting Process OK!!” is shown on the screen.

3. Click on "Reboot" to use new setting

The setting of “System IP Configuration” is finished.

Administrator: System Status



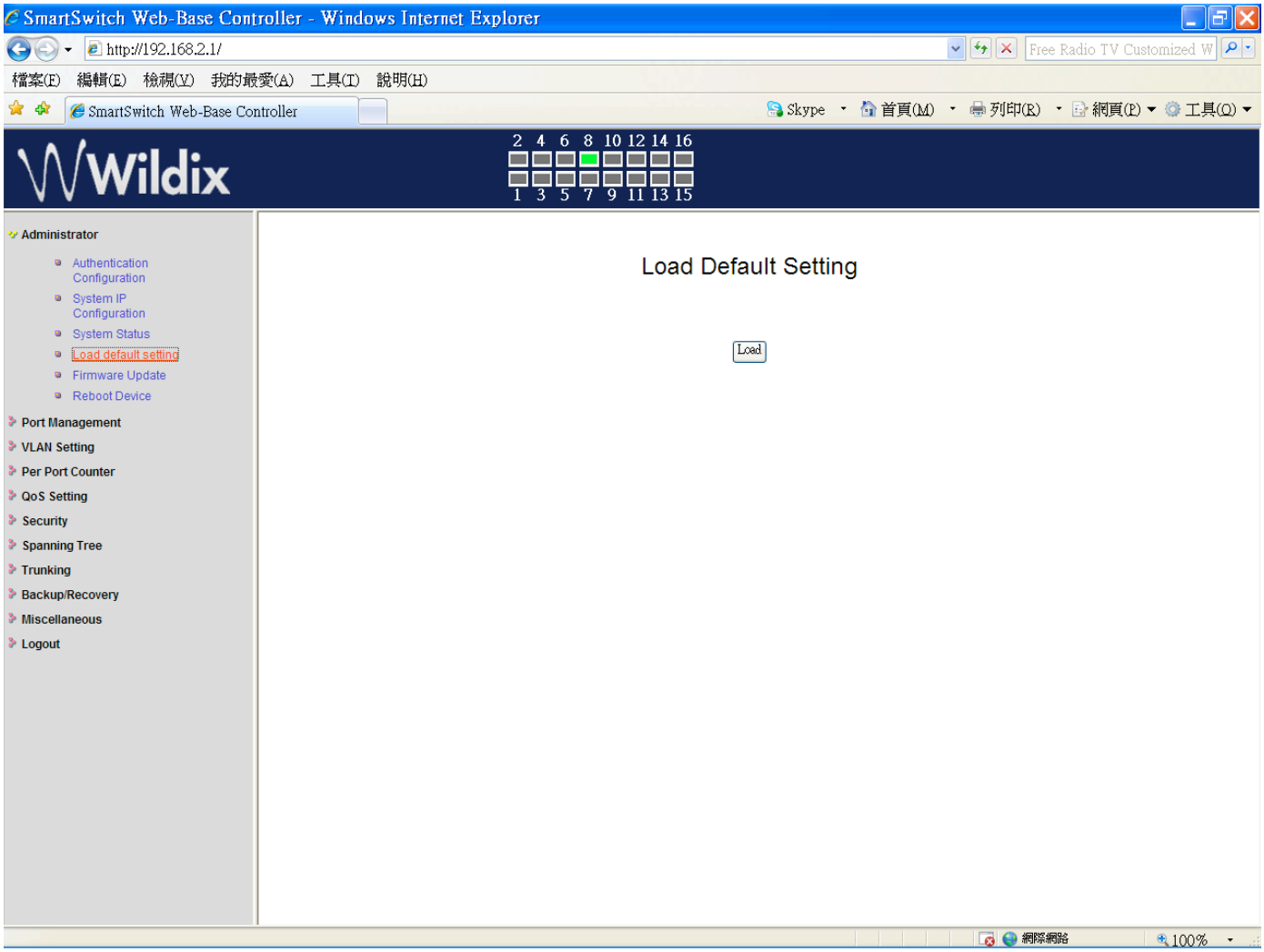
MAC address and system version are shown on the screen.

1. You can enter a new comment for this switch.

2. Click on “Update” to confirm the change.

The setting of “System Status” is finished.

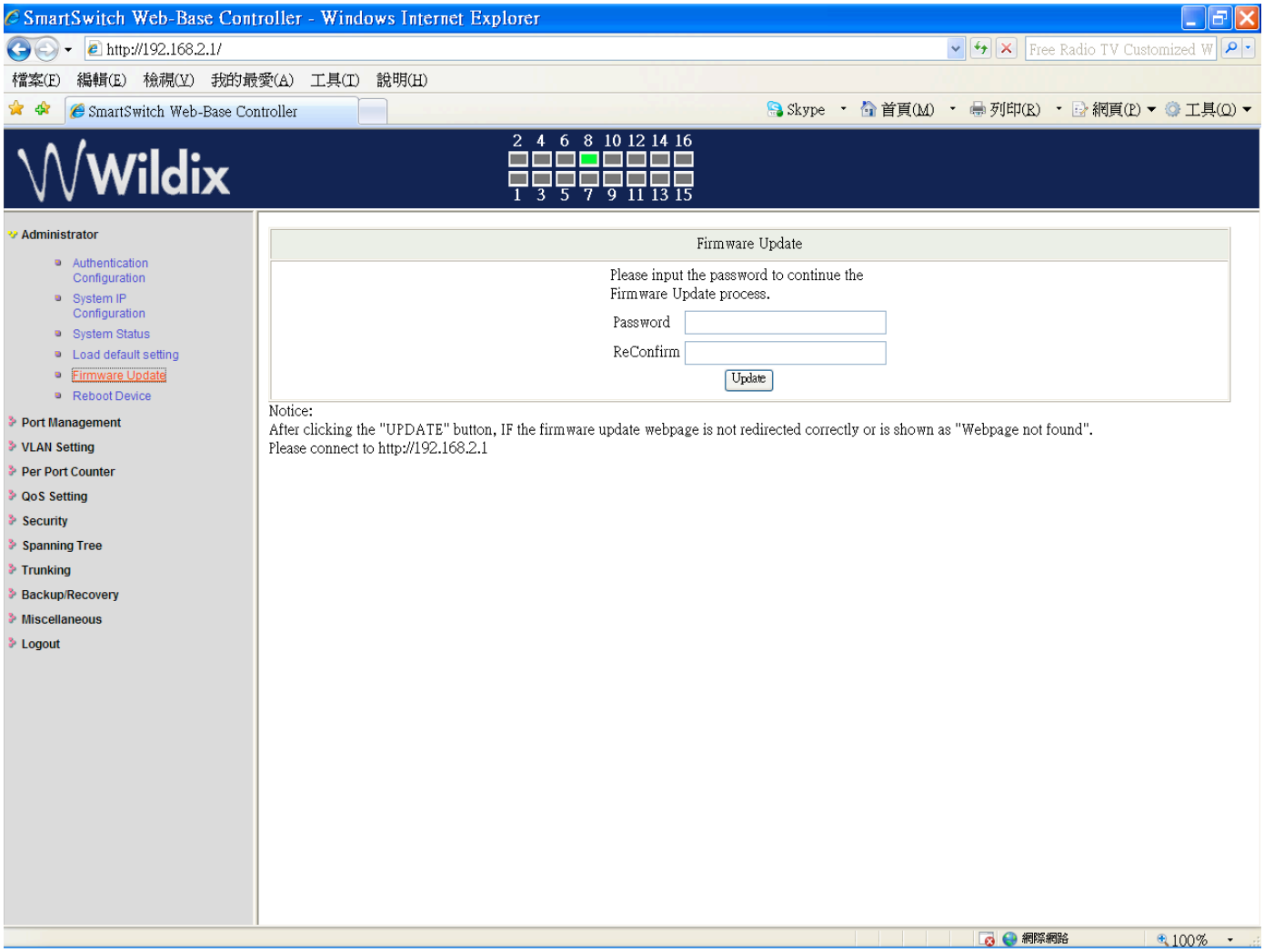
Administrator: Load Default Setting



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

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

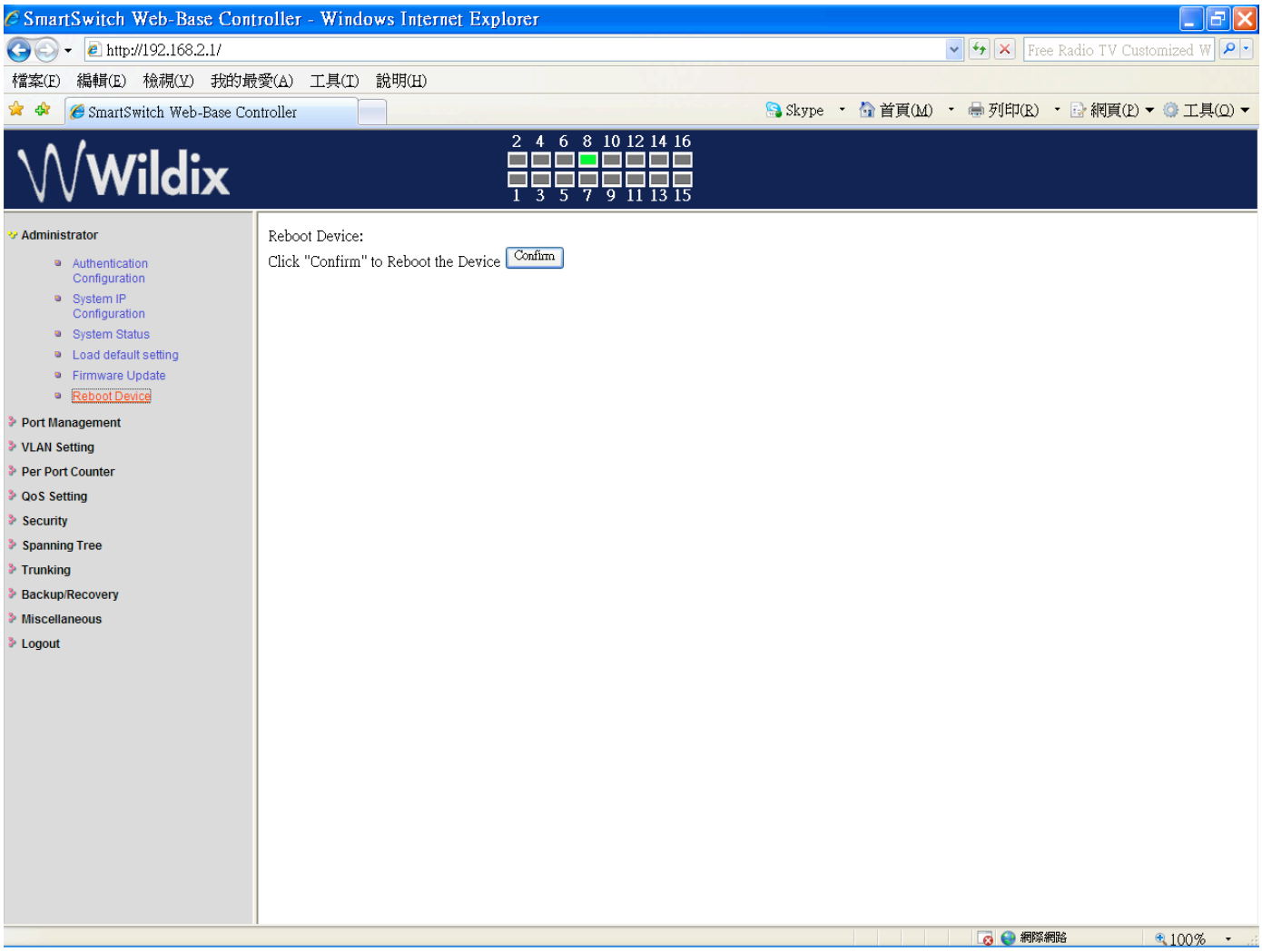
Administrator: Firmware Update



Follow the instruction on the screen to update the firmware.

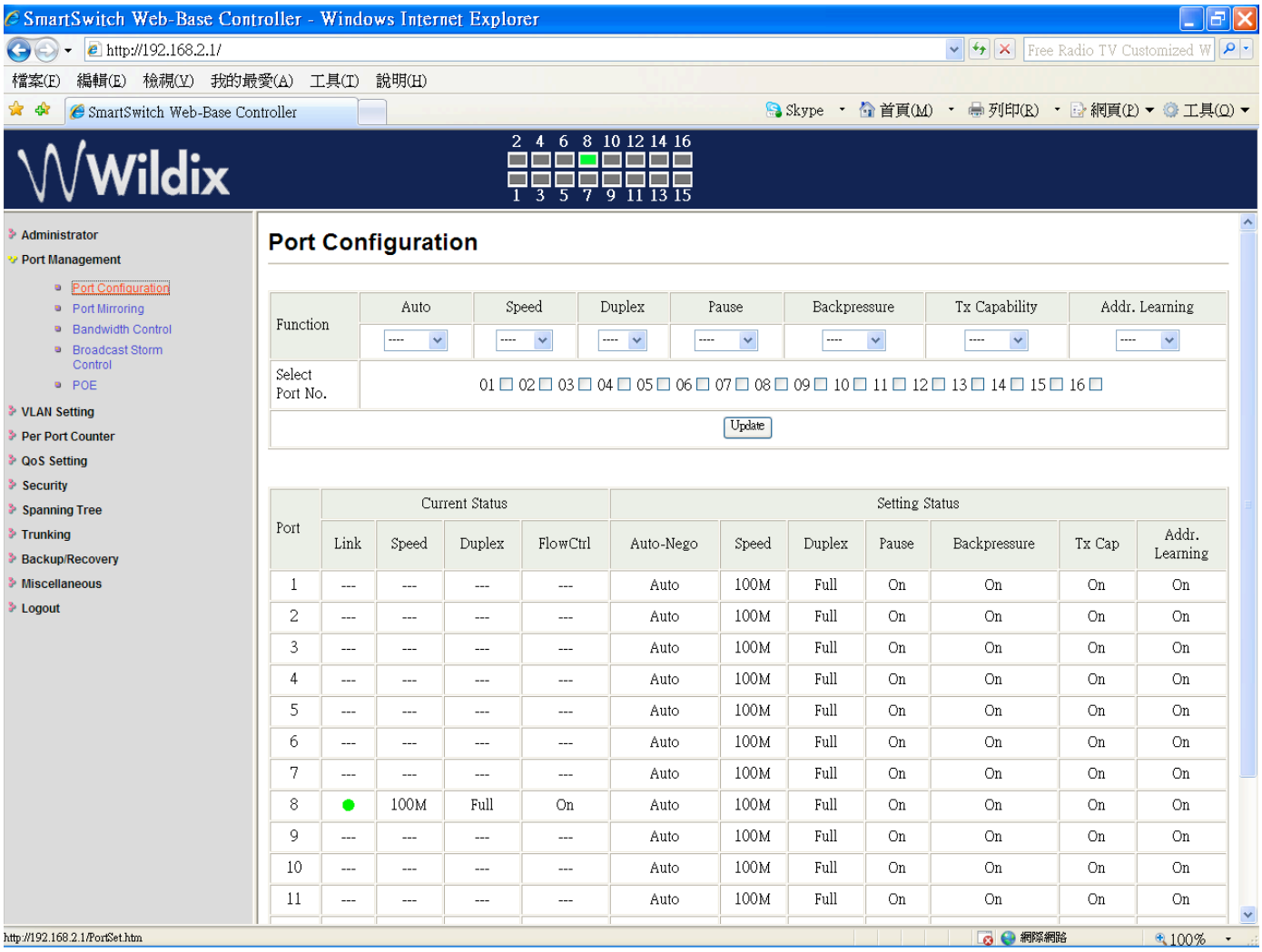
Please contact your sales agents to get the latest firmware information.

Administrator: Reboot Device



1. Click on “Confirm” to reboot the device.

Port Management: Port Configuration

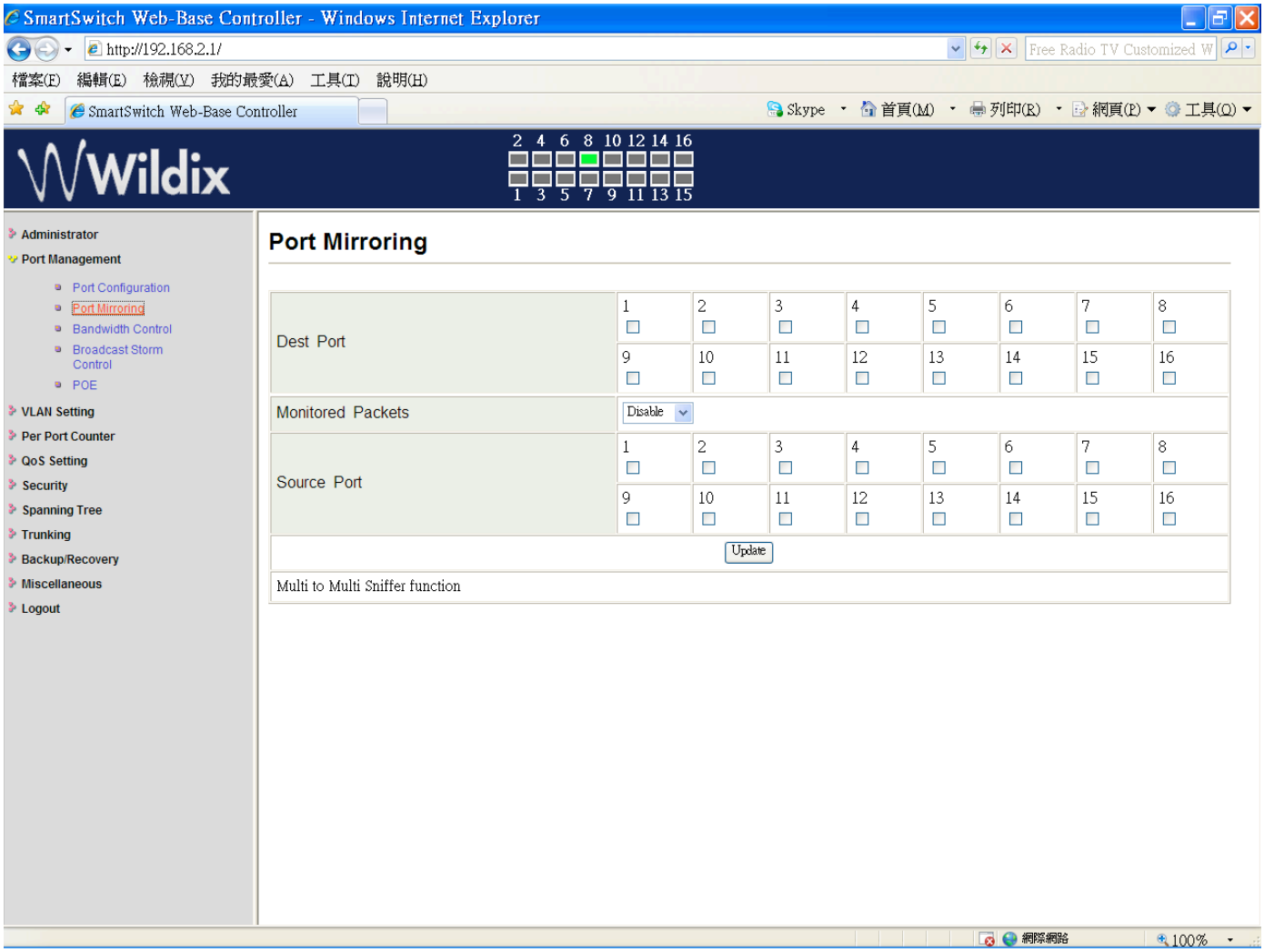


Select the "Port No." to configure the modes below:

1. "Auto-Nego" - enable/disable Auto-Negotiation.
2. "Speed" - 10M or 100M mode for the selected port.
3. "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 (Capability) " - enable/disable for the selected port.
7. "Addr. Learning" - enable/disable for the selected port.

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.

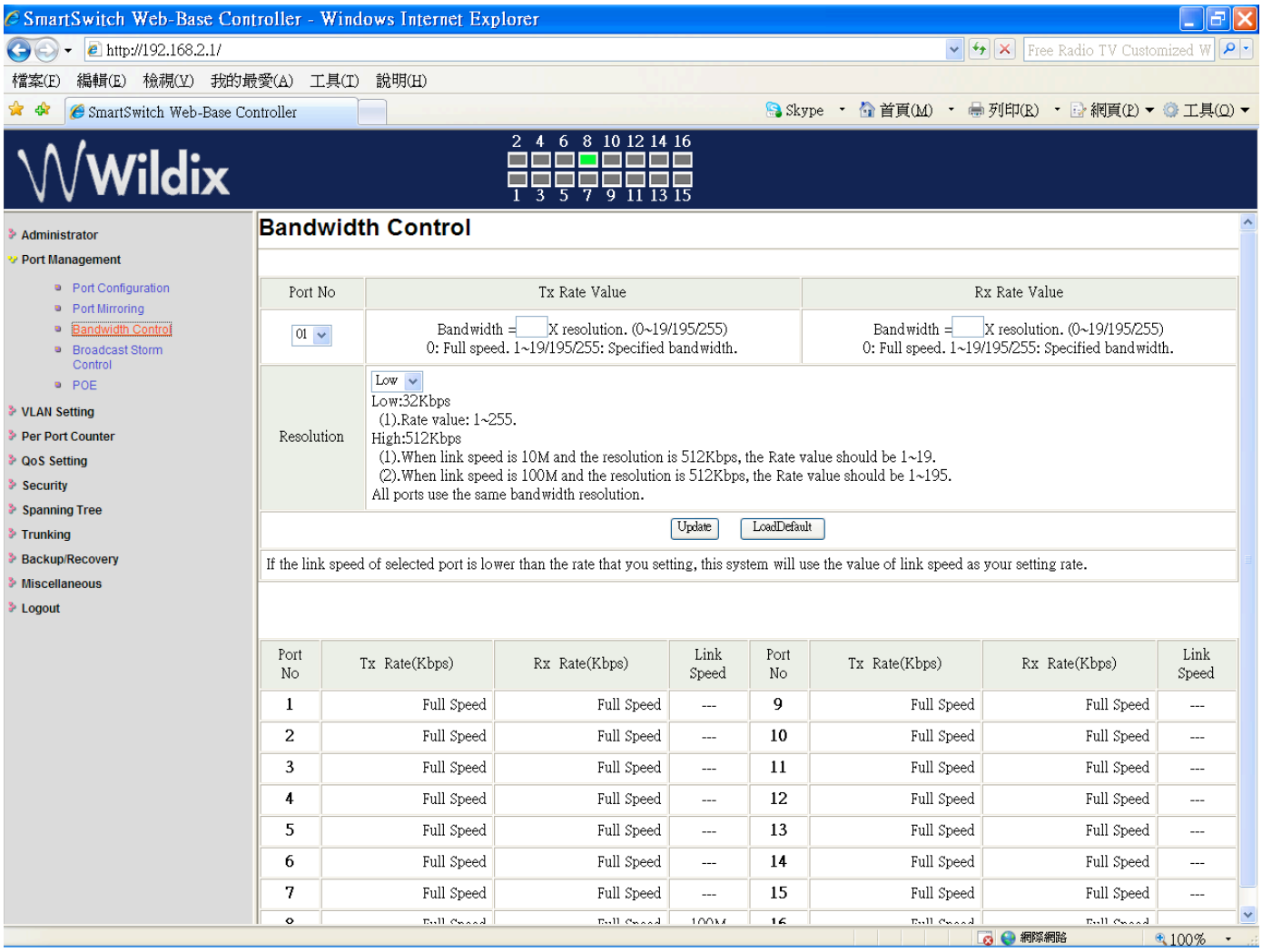
1. Select the Destination port: you can select port 1 to port 16

2. Select the Source port: click on the check box of the port.

3. Click on "Update" to save the setting.

The setting of "Port Mirroring" is finished.

Port Management: Bandwidth Control



1. Select the "Port No.": port 1 to port 16

2. "TX Rate Value": set the transmission rate of the selected port. (0: Full speed; 1~255: Specified bandwidth.)

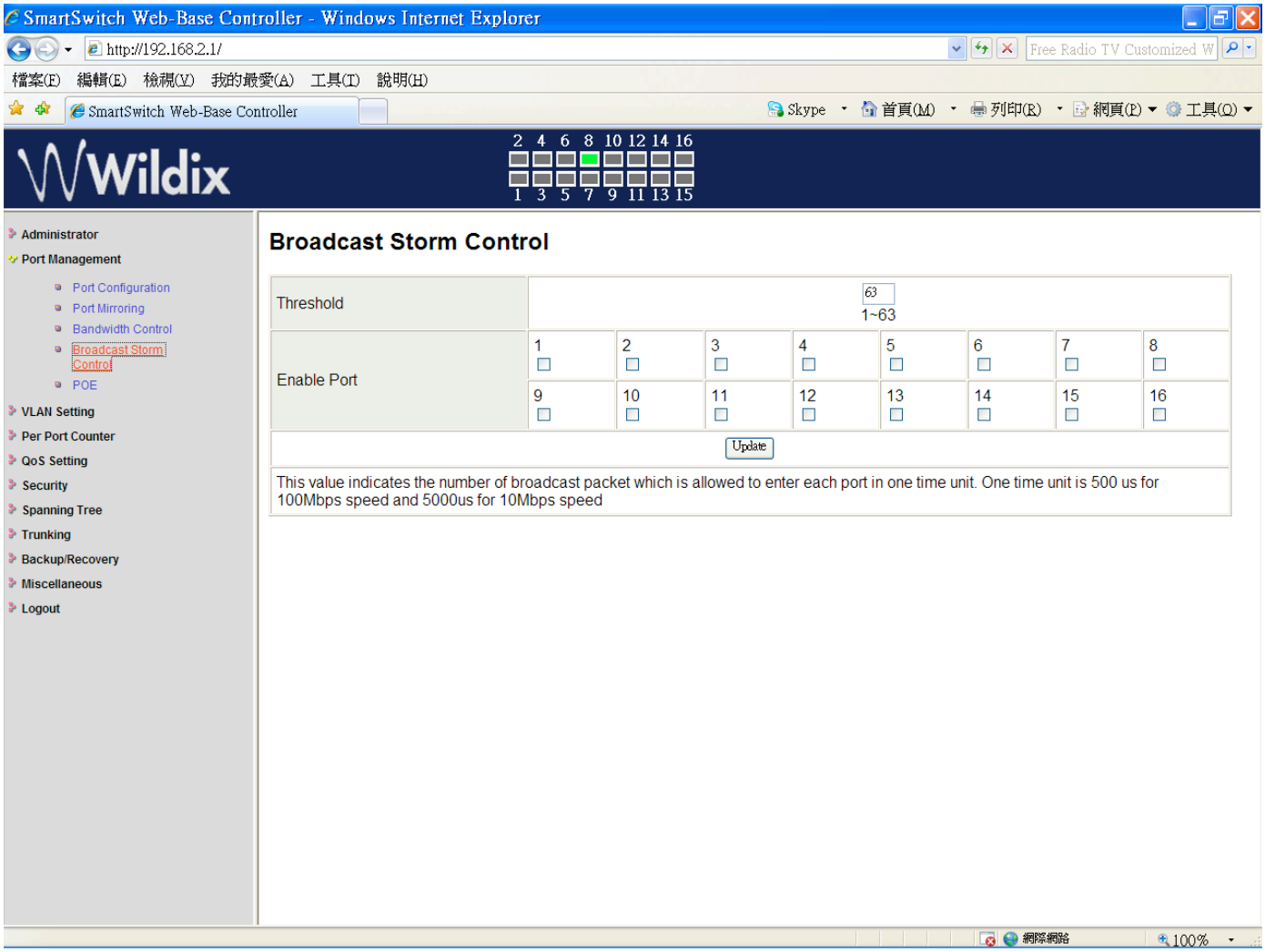
3. "RX Rate Value": set the receiving rate of the selected port. (0: Full speed; 1~255: Specified bandwidth.)

4. "Resolution": Low: 32 kbps / High: 512 kbps

5. Click on "Update" to confirm the setting or "LoadDefault".

The setting of "Bandwidth Control" is finished.

Port Management: Broadcast Storm Control



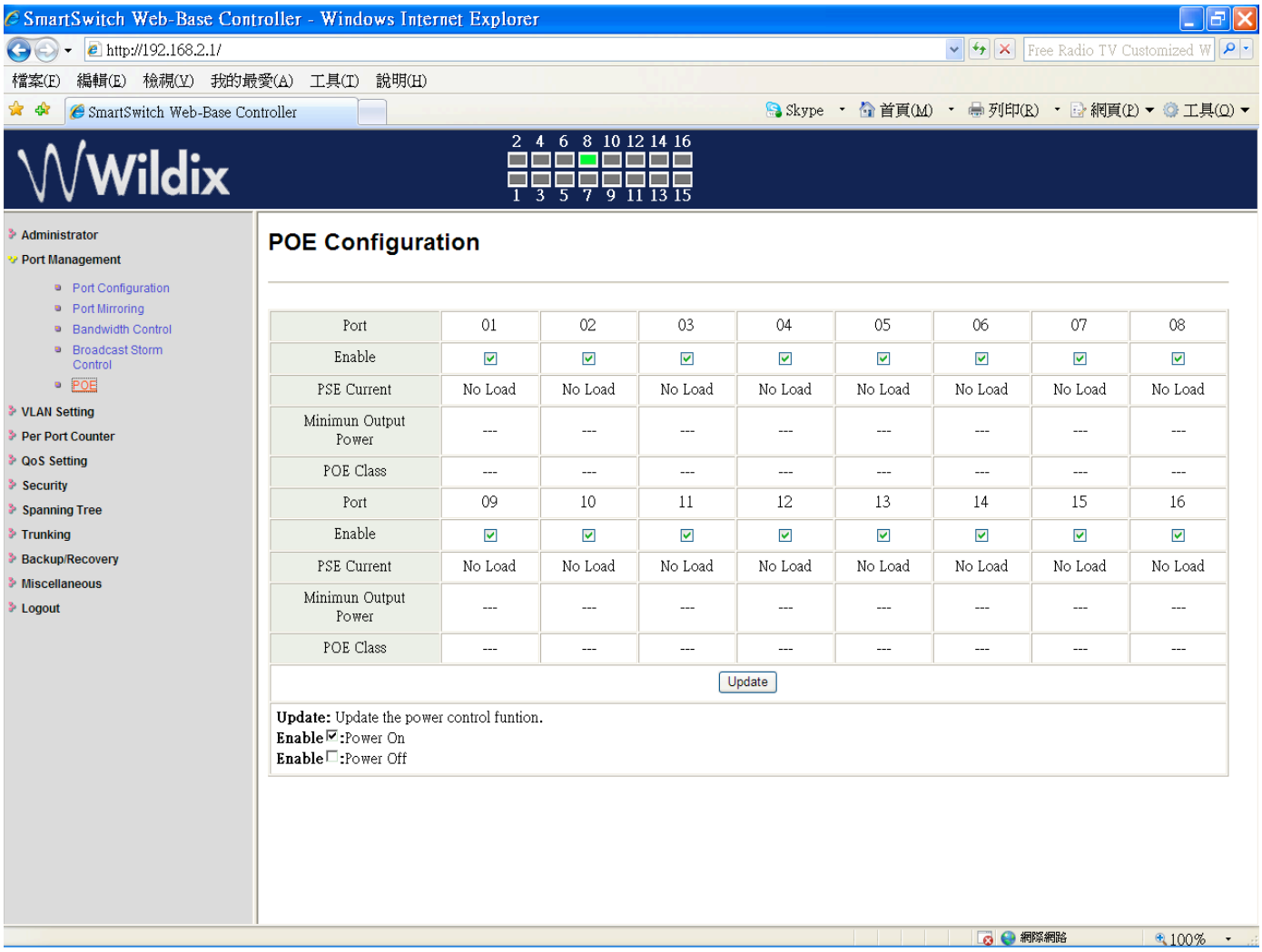
1. "Threshold" - Set the threshold from 1~63.

2. "Enable Port" - per port to define the status of broadcast packets.

3. Click on "Update" to confirm the setting.

The setting of "Broadcast Storm Control" is finished.

Port Management: PoE Configuration



Port	01	02	03	04	05	06	07	08
Enable	☑	☑	☑	☑	☑	☑	☑	☑
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimun Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---
Port	09	10	11	12	13	14	15	16
Enable	☑	☑	☑	☑	☑	☑	☑	☑
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimun Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---

Update

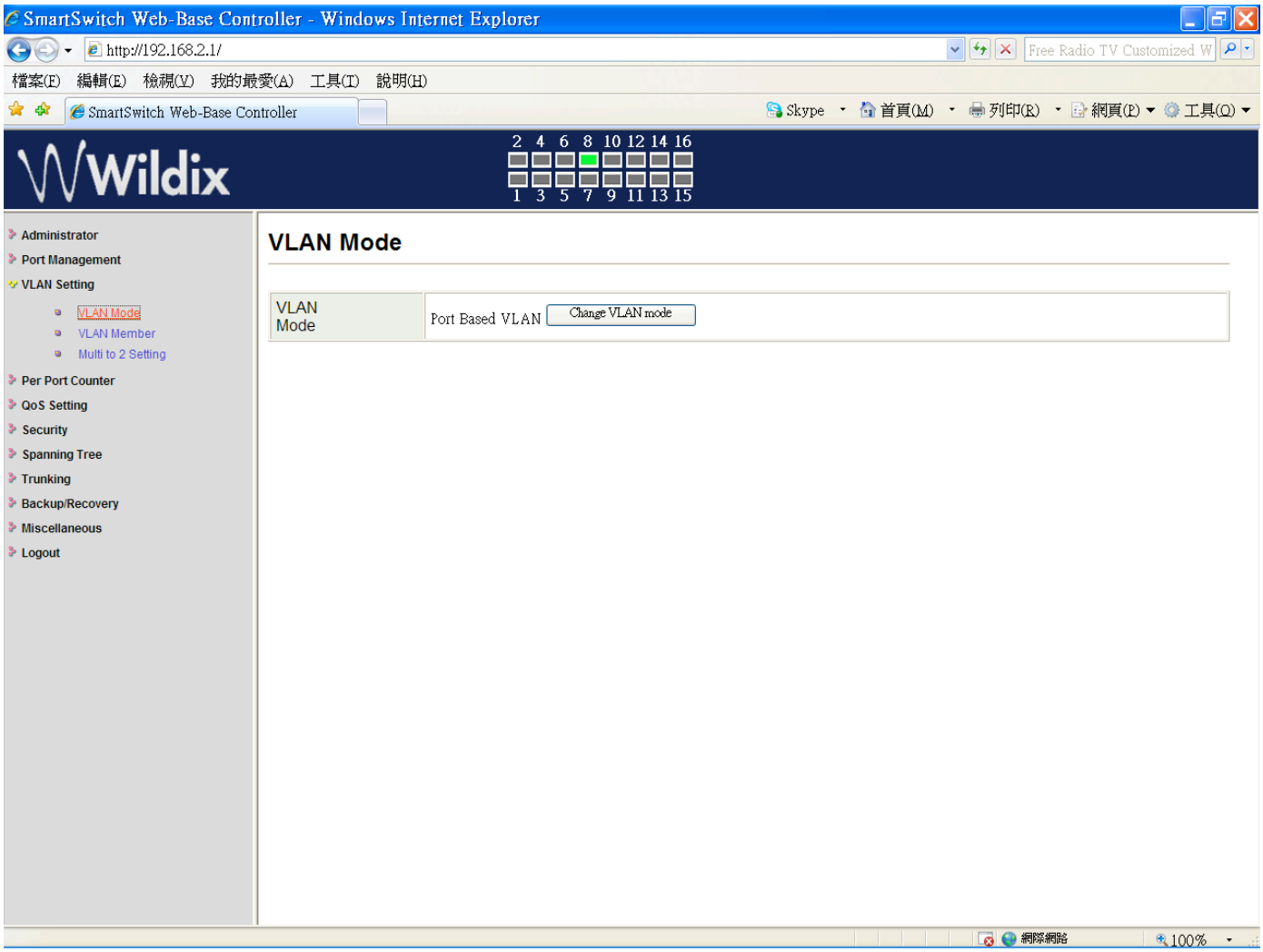
Update: Update the power control funtion.
Enable ☑ :Power On
Enable ☐ :Power Off

Remote access and monitor the attached PD (Powered Device) status by using Enable/Disable function. ** 16-port shares 123.2W

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 on “Update” to confirm and finish the setting.

The setting of “PoE Configuration” is finished.

VLAN Setting: VLAN Mode



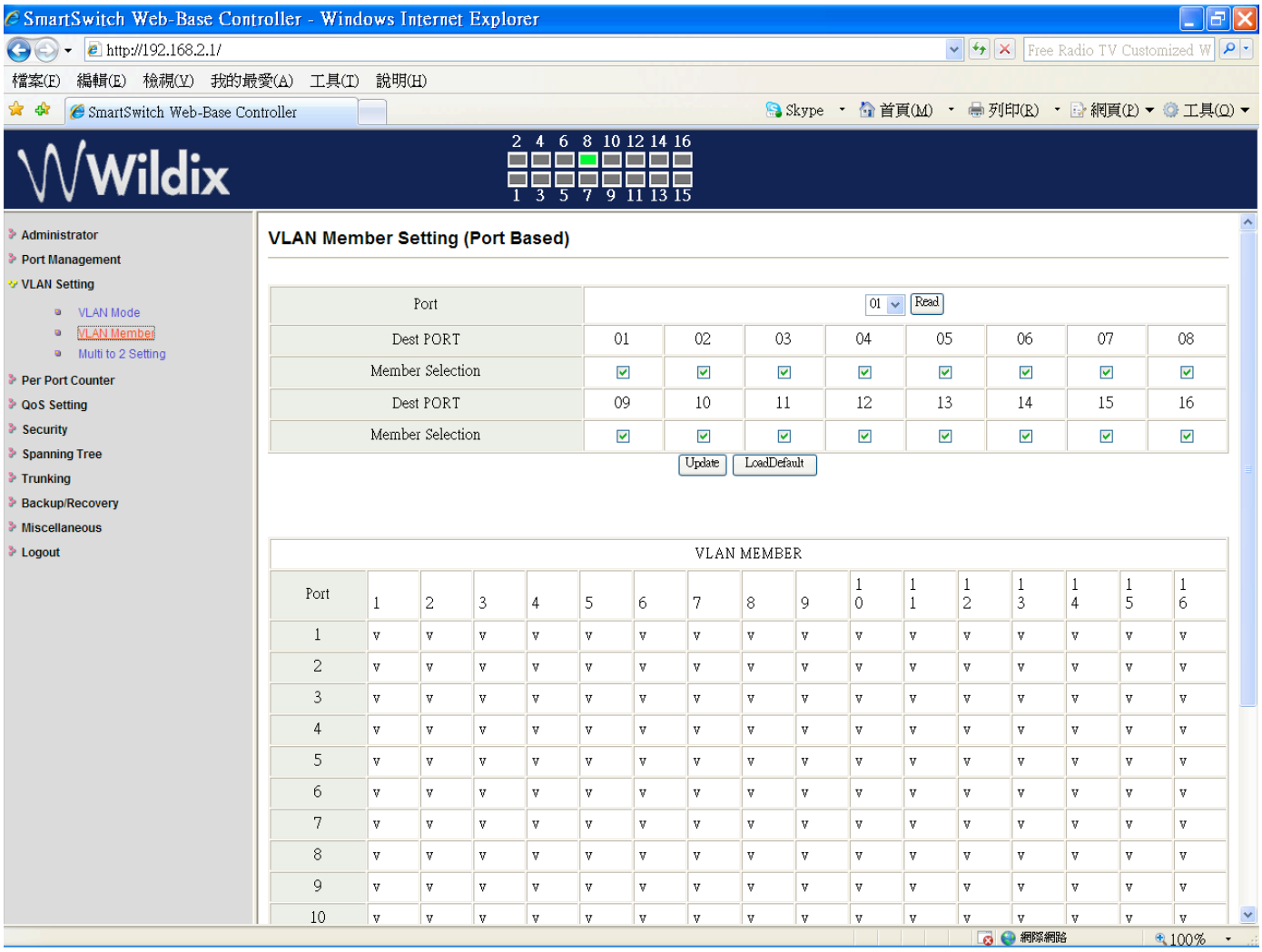
There are two VLAN modes : Port Based VLAN and Tagged VLAN.

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

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

The setting of “VLAN Mode” is finished.

VLAN Setting: VLAN Member Setting (Port Based)



You can select a port group.

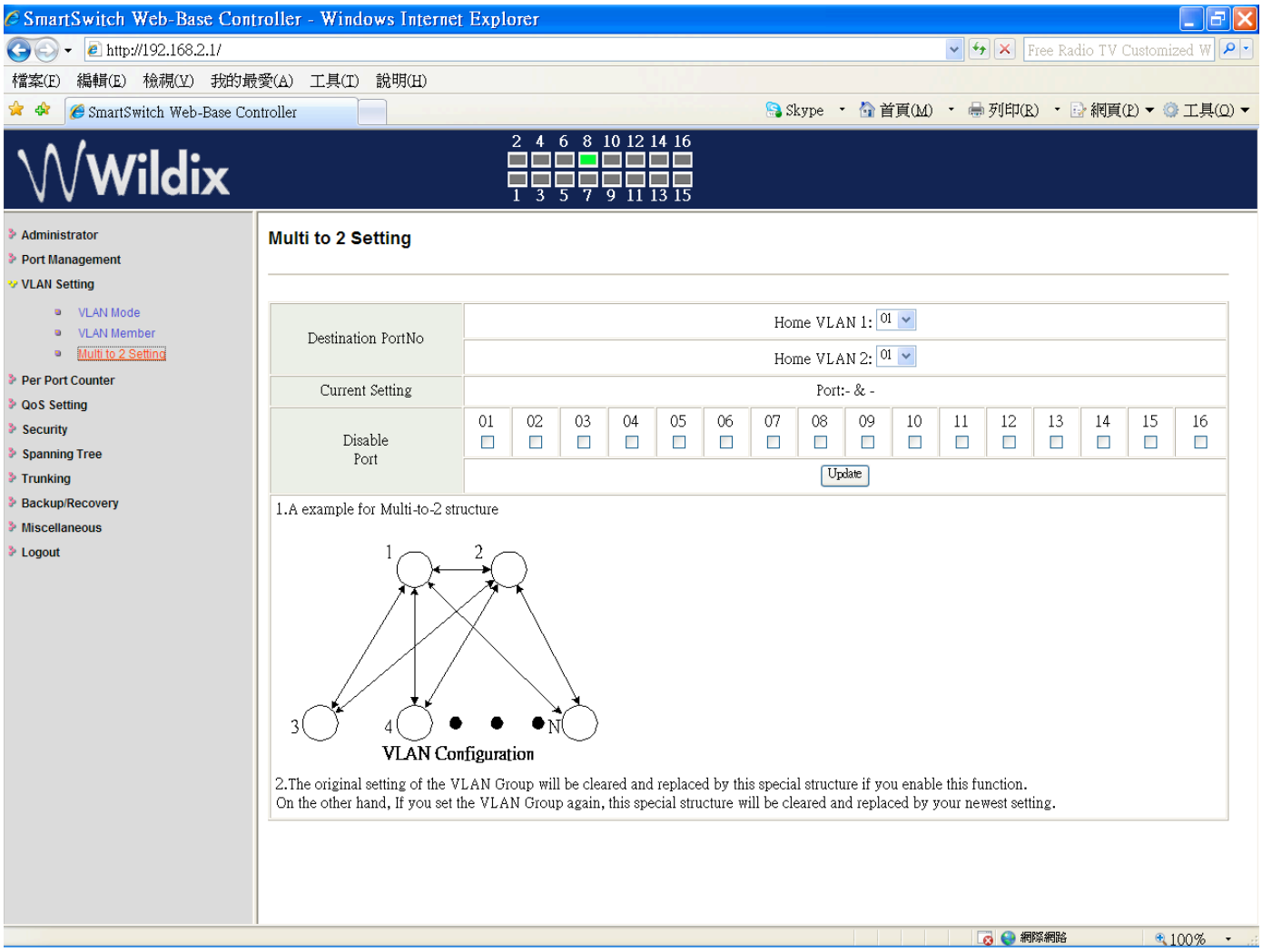
1. Click on the port numbers that you want to put into the selected VLAN group.

2. Click on “Update” to confirm and finish the setting.

3. Click on “LoadDefualt” to go back to the original factory setting.

The setting of “VLAN Mode” is finished.

VLAN Setting: Multi to 2 Setting

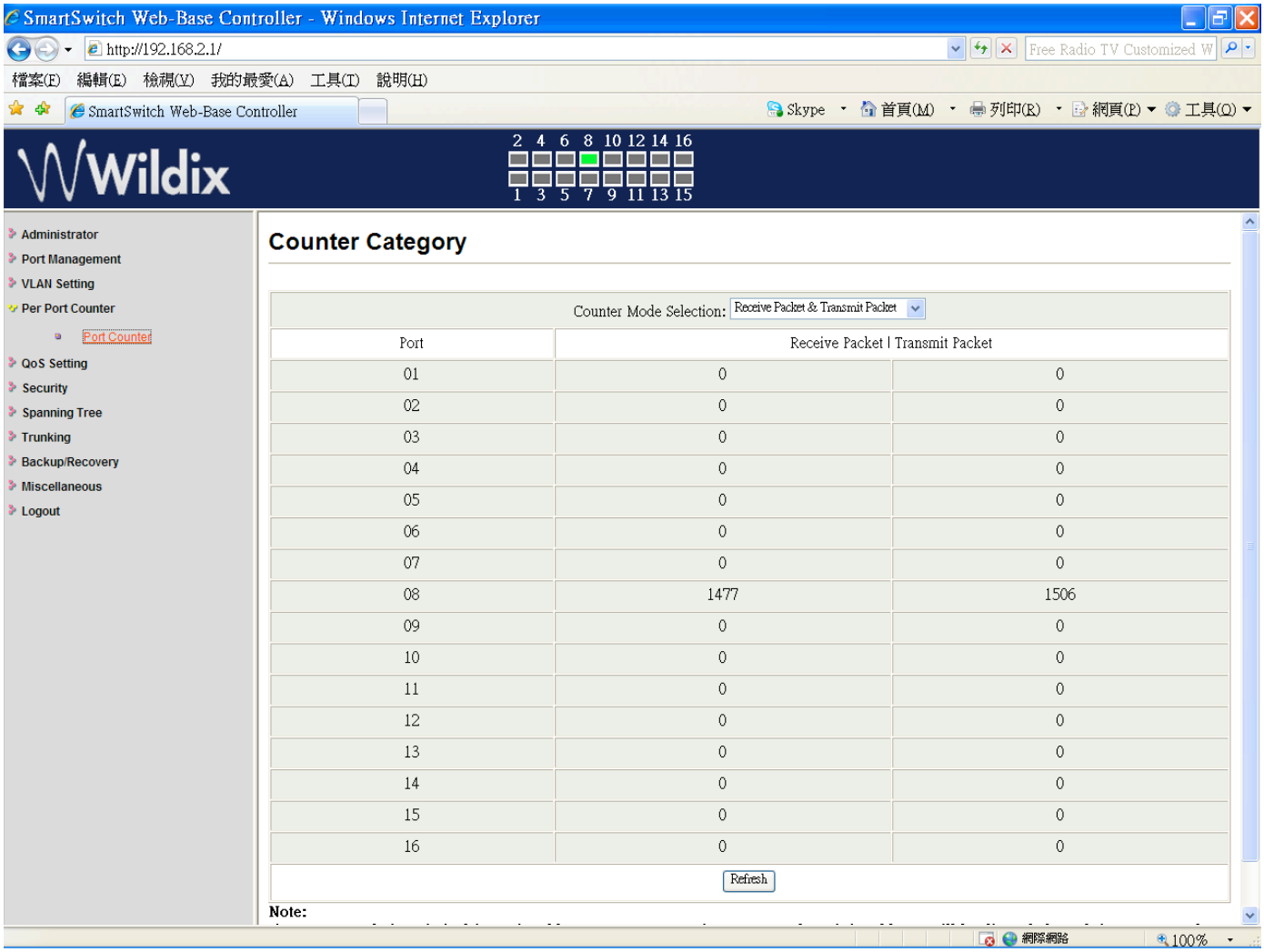


This is a special design for setting the switch VLAN into “VLAN Per Port”.

1. Select “Destination Port No”.
2. Select “Disable Port”
3. “Disable Port” – select the port that you don’t want to use
4. Click on “Update” to confirm and finish the setting.

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

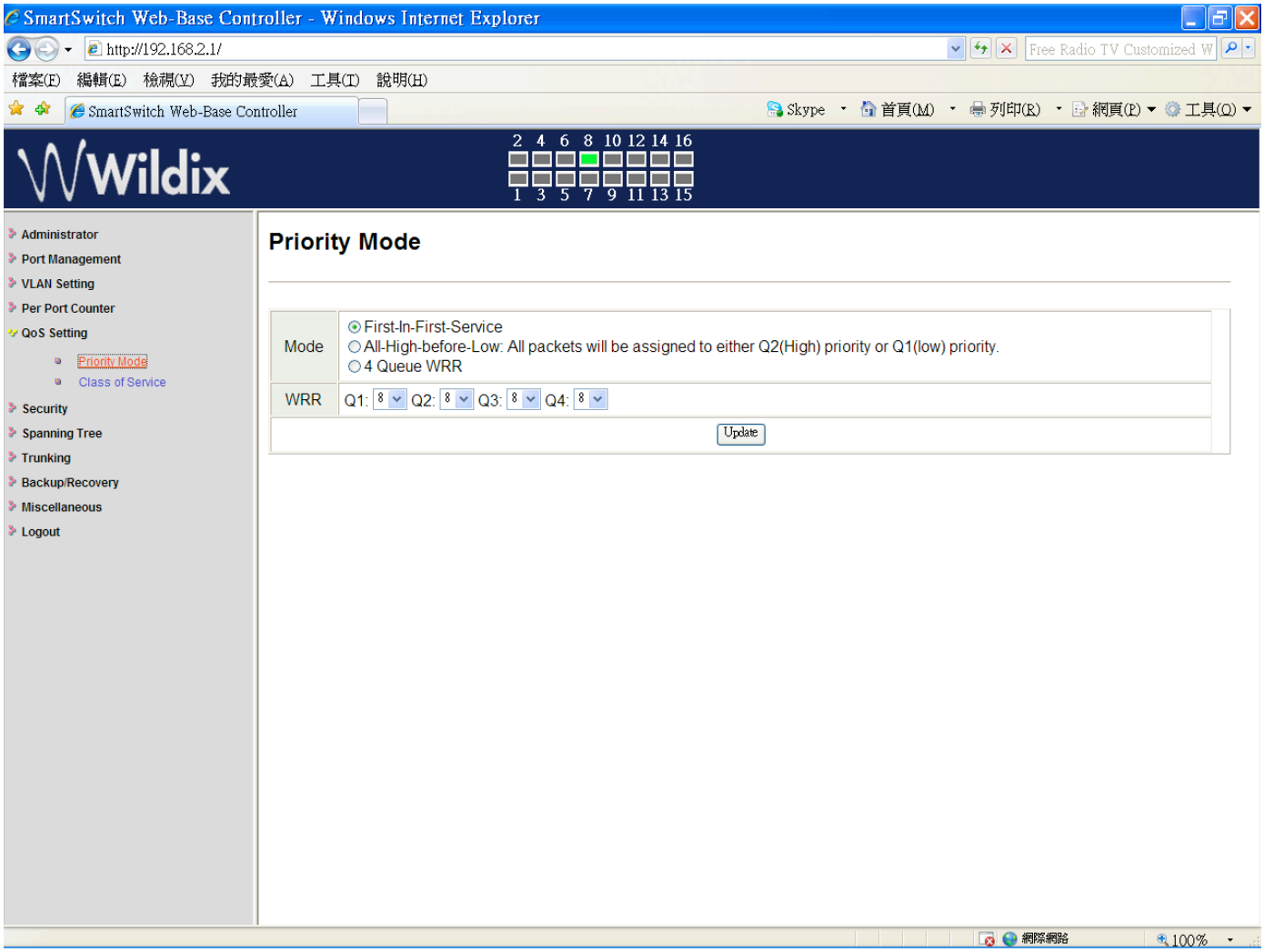
Per Port Counter: Counter Category



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

Click on “Refresh” or “Clear” the data.

QoS Setting: Priority Mode



There are three Priority Modes to select.

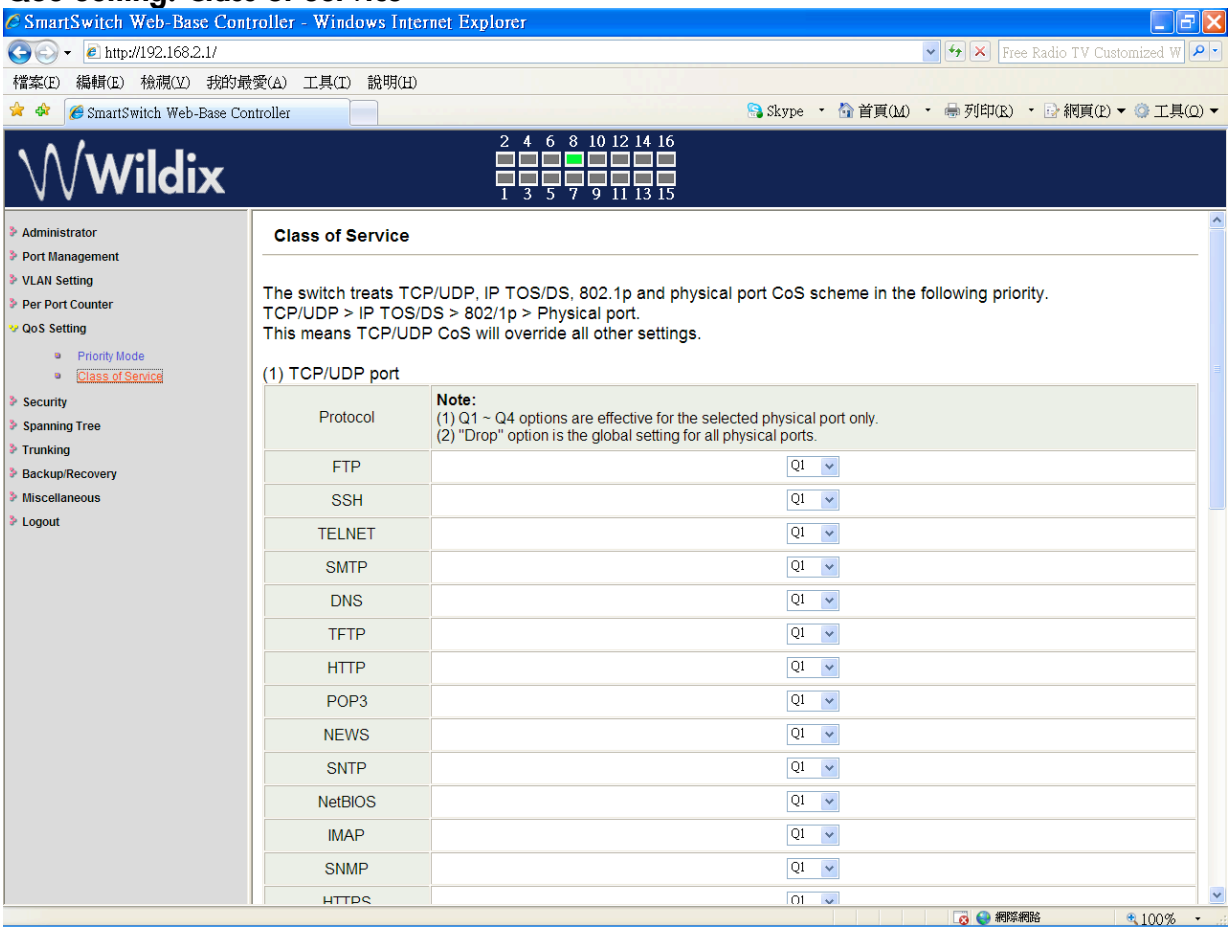
1. "First-in-First-Service" - the first receiving packet is firstly transmitted.

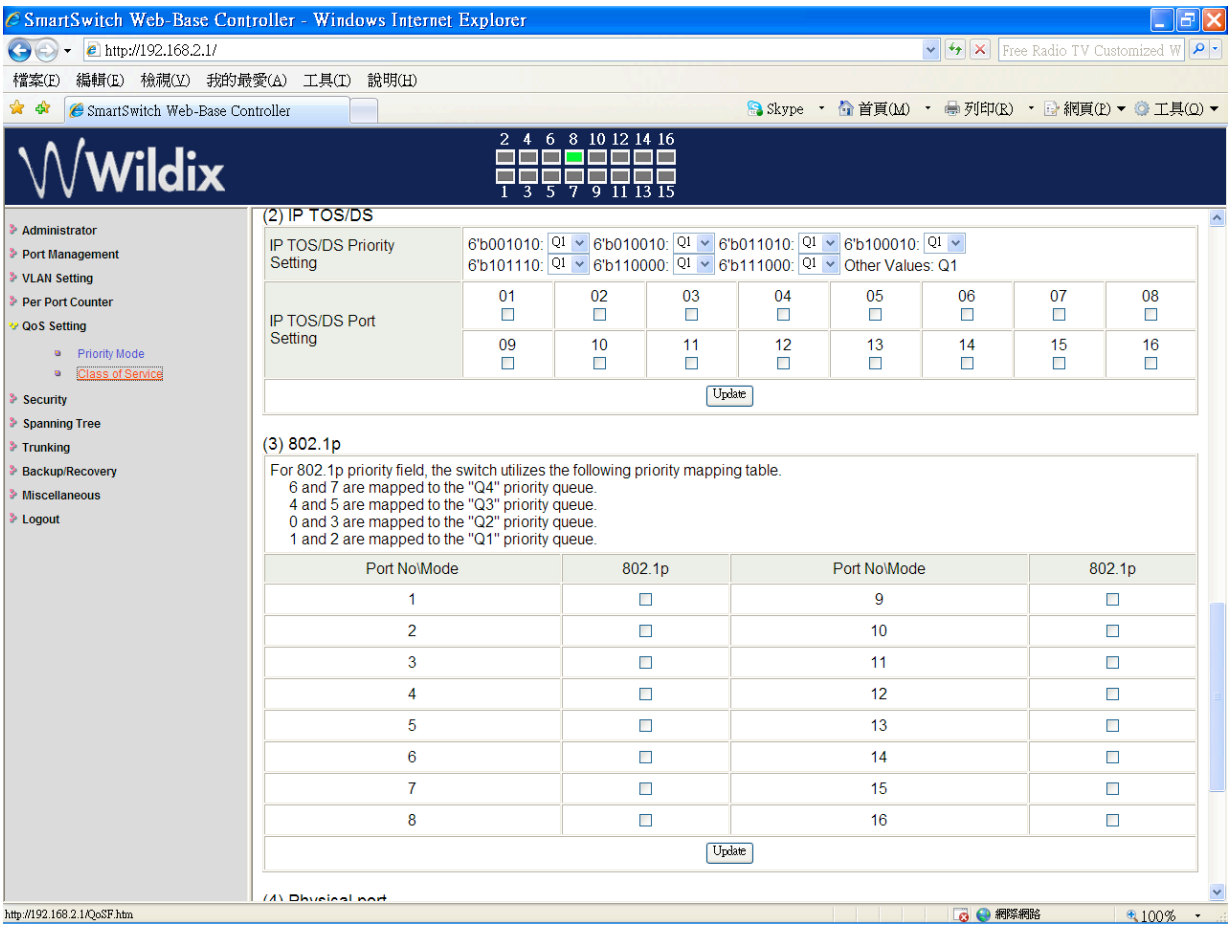
2. "All-High-before-Low" – All packets are assigned to either high priority queue or low priority queue.

3. "4 Queue WRR (Weight-Round-Robin)" - set the ratio of the transmitting packet.

4. Click on "Update" to confirm and finish the setting.

QoS Setting: Class of Service





You can set QoS mode of port.

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 is transferred based on the number of "4 Queue WRR" on **QoS Setting: Priority Mode.**

**WRR –Q1/Q2/Q3/Q4
**"Drop" - packets are dropped.

2. "IP TOS/DS" – "Priority Setting": Q1 ~ Q4; "IP TOS/DS Port Setting" - It means the packets with special IP are firstly transmitted.

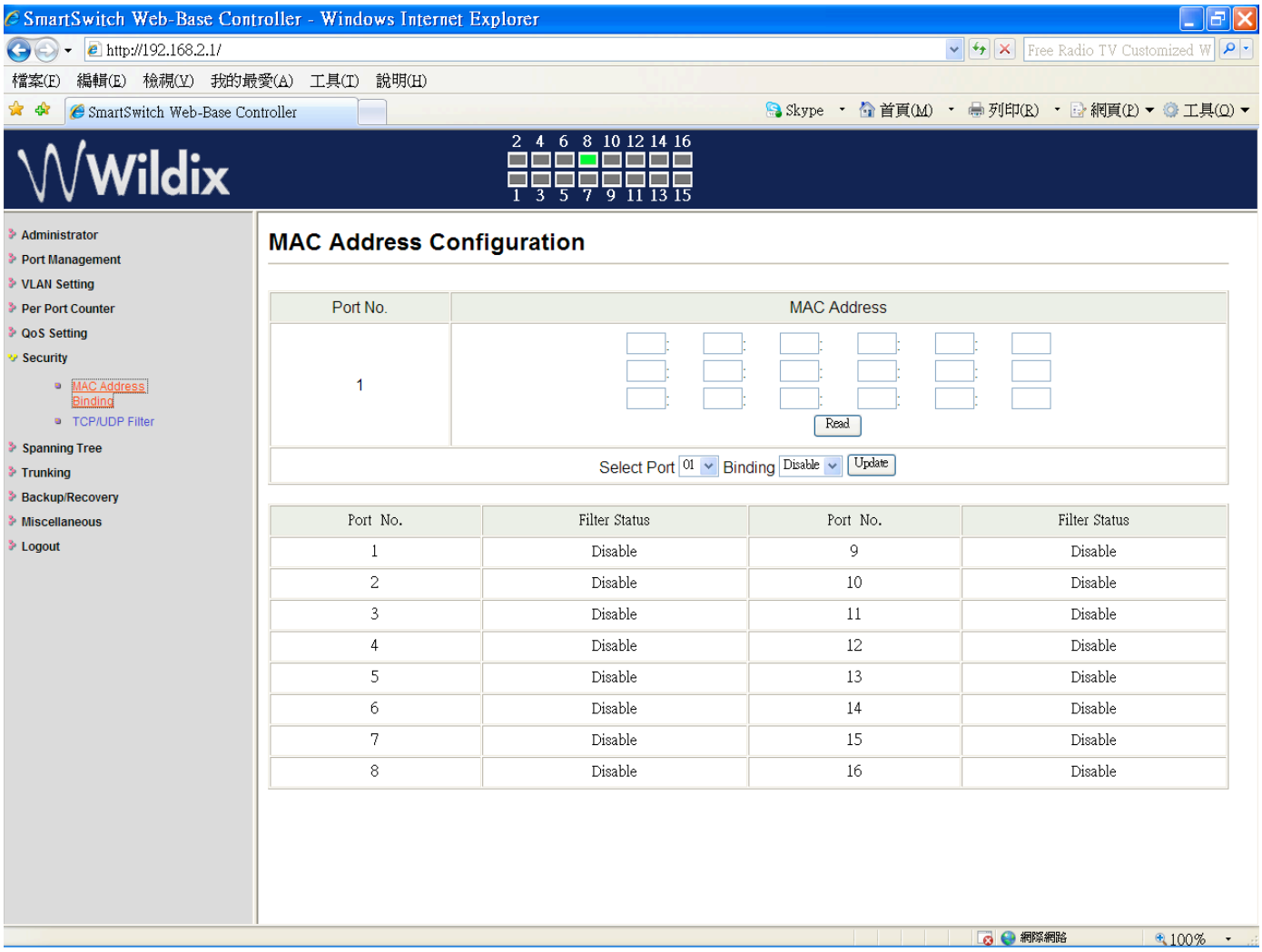
3. "802.1p" – Priority mapping table as the screen shows.

4. "Physical port" - you can select the port you want to configure as Q1~Q4 priority.

5. Click on "Update" to confirm and finish the setting.

The setting of "Class of Service" is finished.

Security: MAC Address Configuration

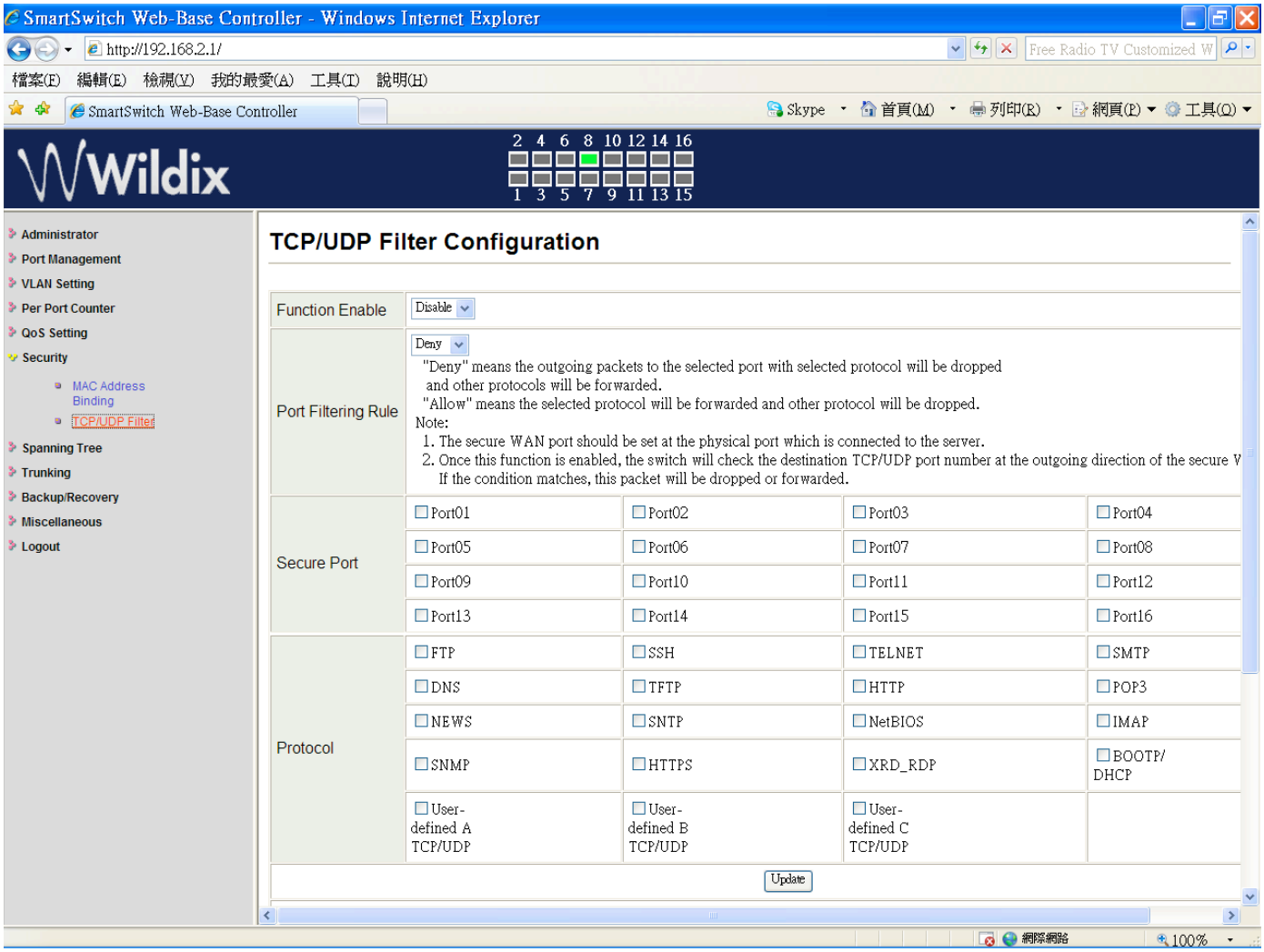


Set special MAC address to activate on the selected port

1. "Select Port" – port 1~16
2. "Binding" – "Enable": allow the packet with the specified source MAC address to enter this port.
3. Click on "Update" to confirm and finish the setting.

The setting of "MAC Address Filter" is finished.

Security: TCP_UDP Filter Configuration



You can enable or disable this function per port.

If the "Function Enable" is "Enabled", please check the following setting:

1. "Port Filtering Rule" –
   "Deny": outgoing packets to the selected port with selected protocol are dropped and other protocols are forwarded.
   "Allow": selected protocols are forwarded and other protocols are dropped.

2. "Secure Port" – select secure ports.

**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 checks the destination TCP/UDP port number at the outgoing direction of the secure WAN port.
If the condition matches, this packet is dropped or forwarded.

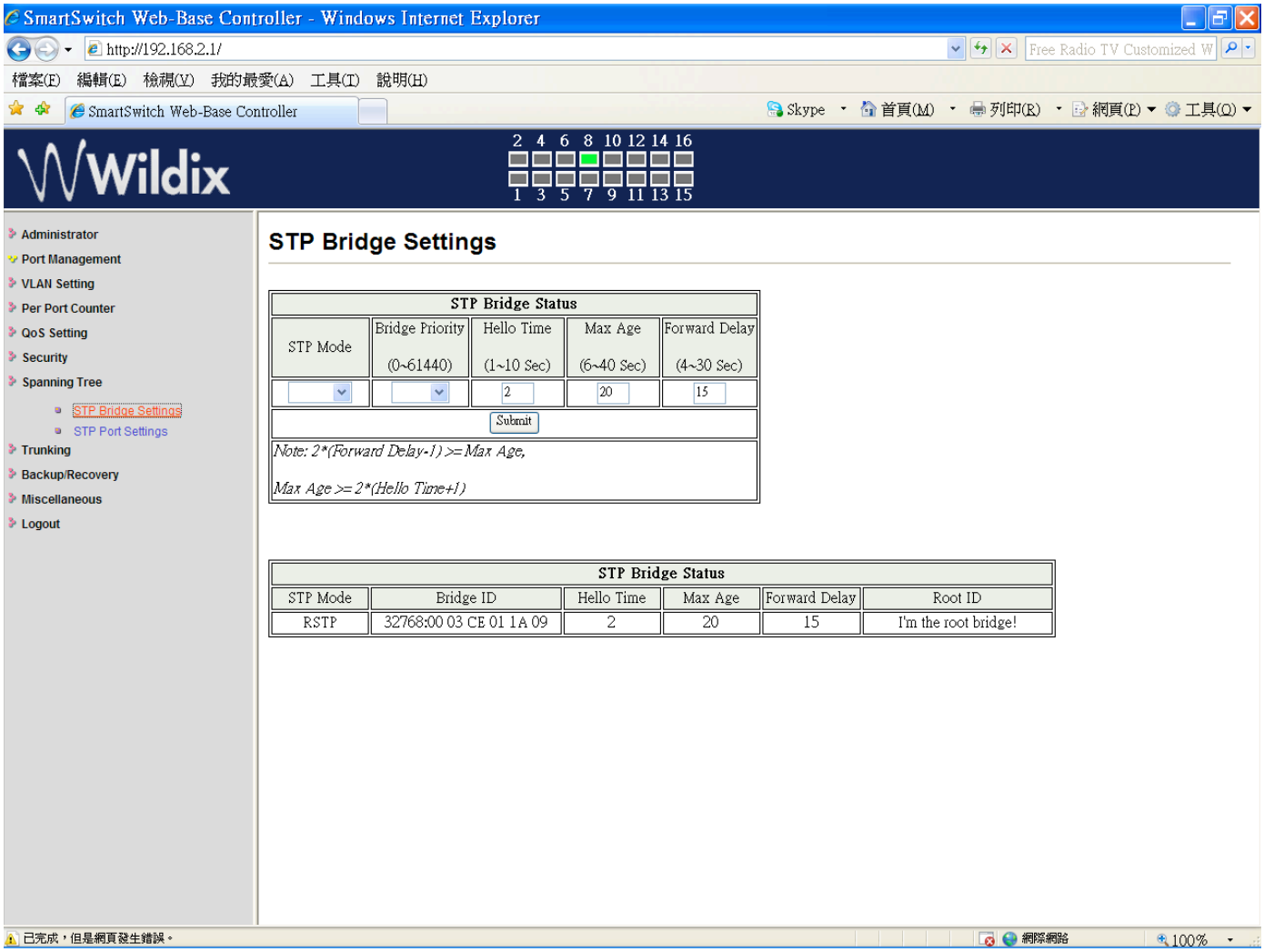
**Note 2: The description of Secure WAN port is shown in the bottom of this screen.

3. “Protocol” – select protocols.

4. Click on “Update” to confirm and finish the setting.

The setting of “TCP/UDP Filter Configuration” is finished.

Spanning Tree: STP Bridge Settings

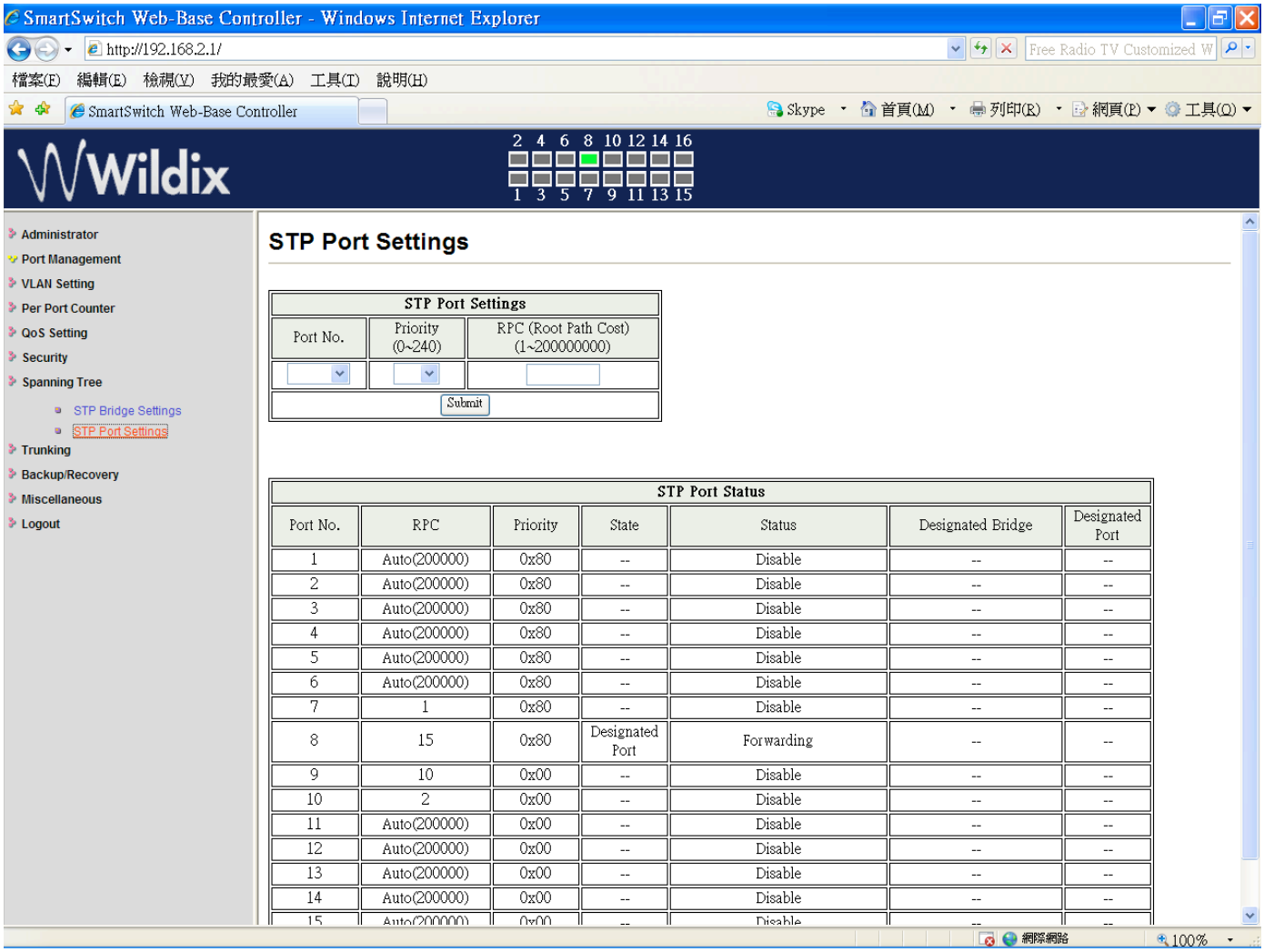


This setting is brought to avoid the loop network.

1. Select the "STP Mode"- select "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. After topology is changed, bridges should wait before transitioning to a new state (If a bridge transition is very fast, some network links might not be ready to change their states and loops might occur.)
6. Click on "Update" to confirm and finish the setting.

The setting of "STP Bridge Settings" is finished.

Spanning Tree: STP Port Settings

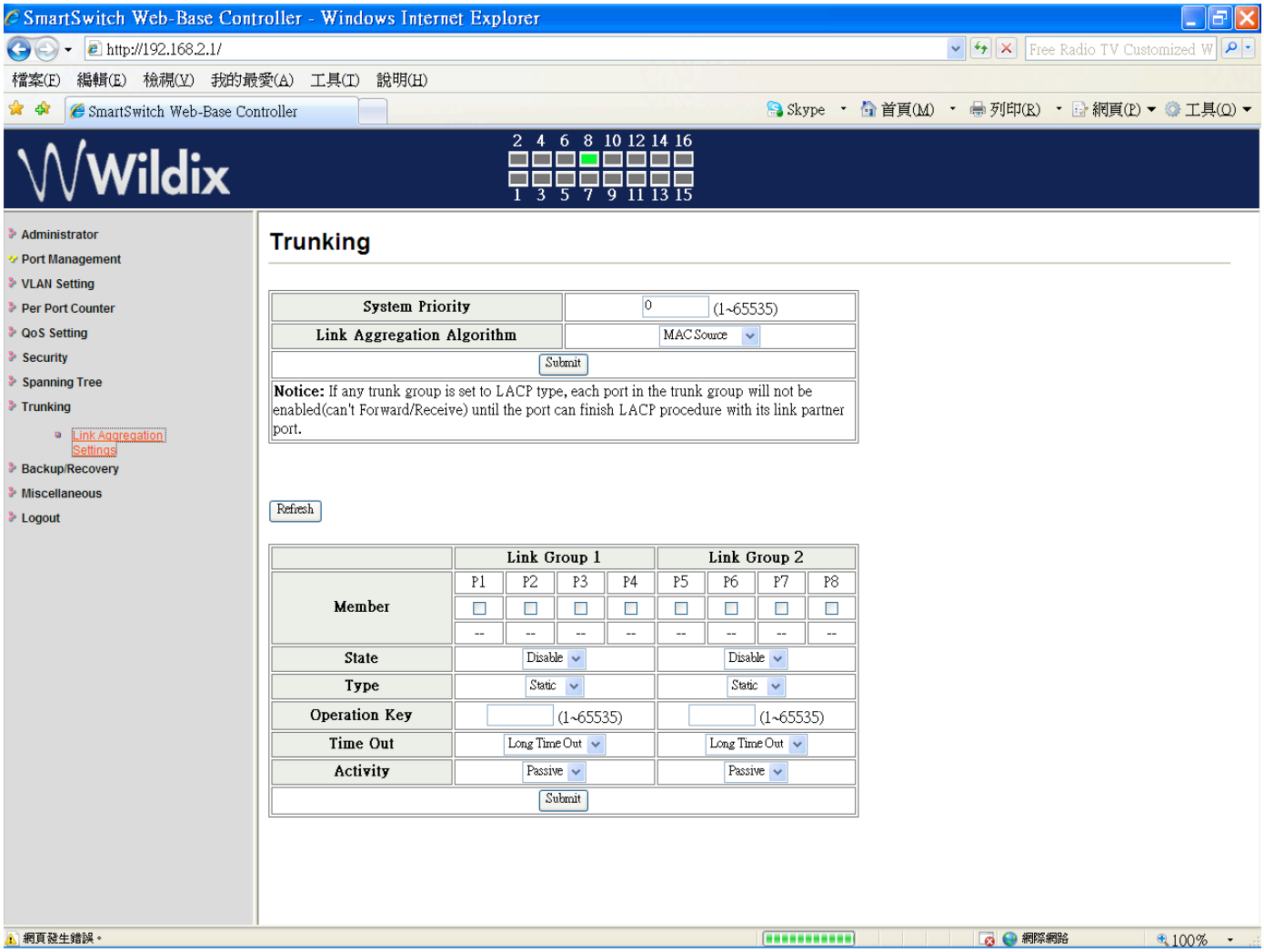


1. Select “Port No.” : Port 1 ~ Port 16

2. Select “Priority”: 0~ 240

3. “RPC” = Root Path Cost: 0 = AUTO. When the loop is found, the STP/RSTP calculates the cost of its path.

Trunking: Link Aggregation Settings



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

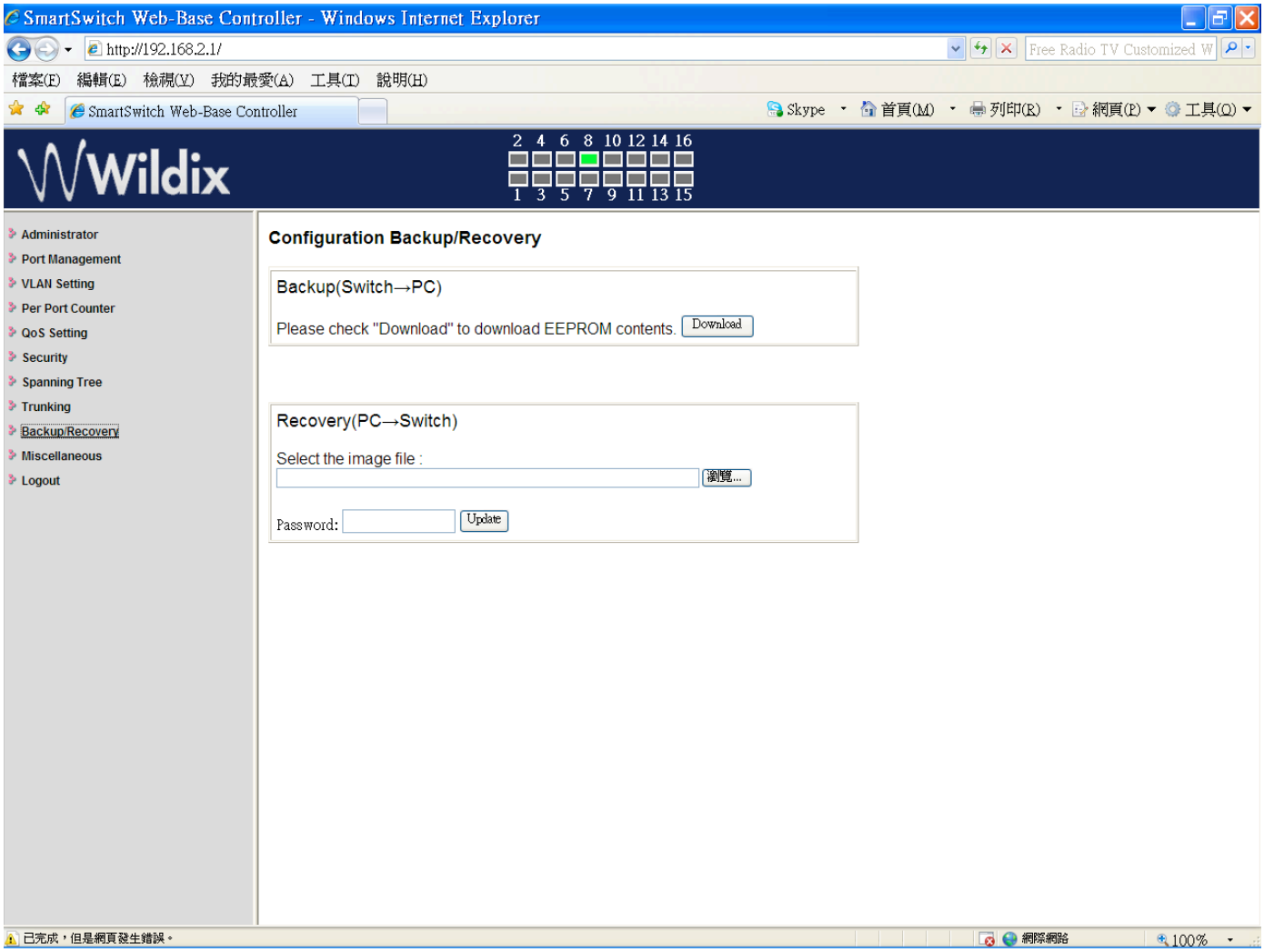
Click on “Submit” to confirm and finish the setting.

“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

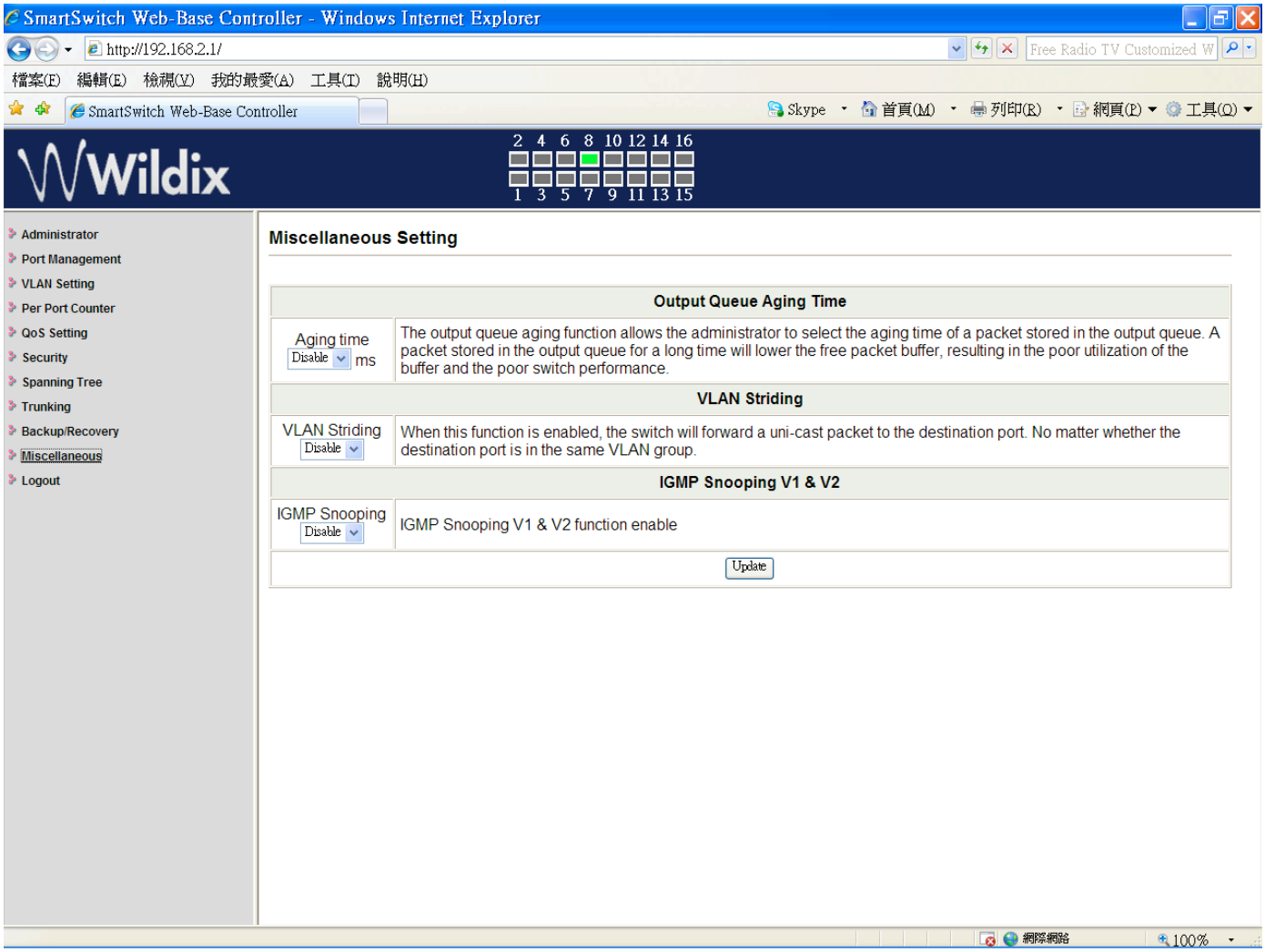


Follow the instruction on the screen to update the original setting.

"Backup" - Click on "Download" to confirm the setting.

"Recovery" – select a file and enter 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.

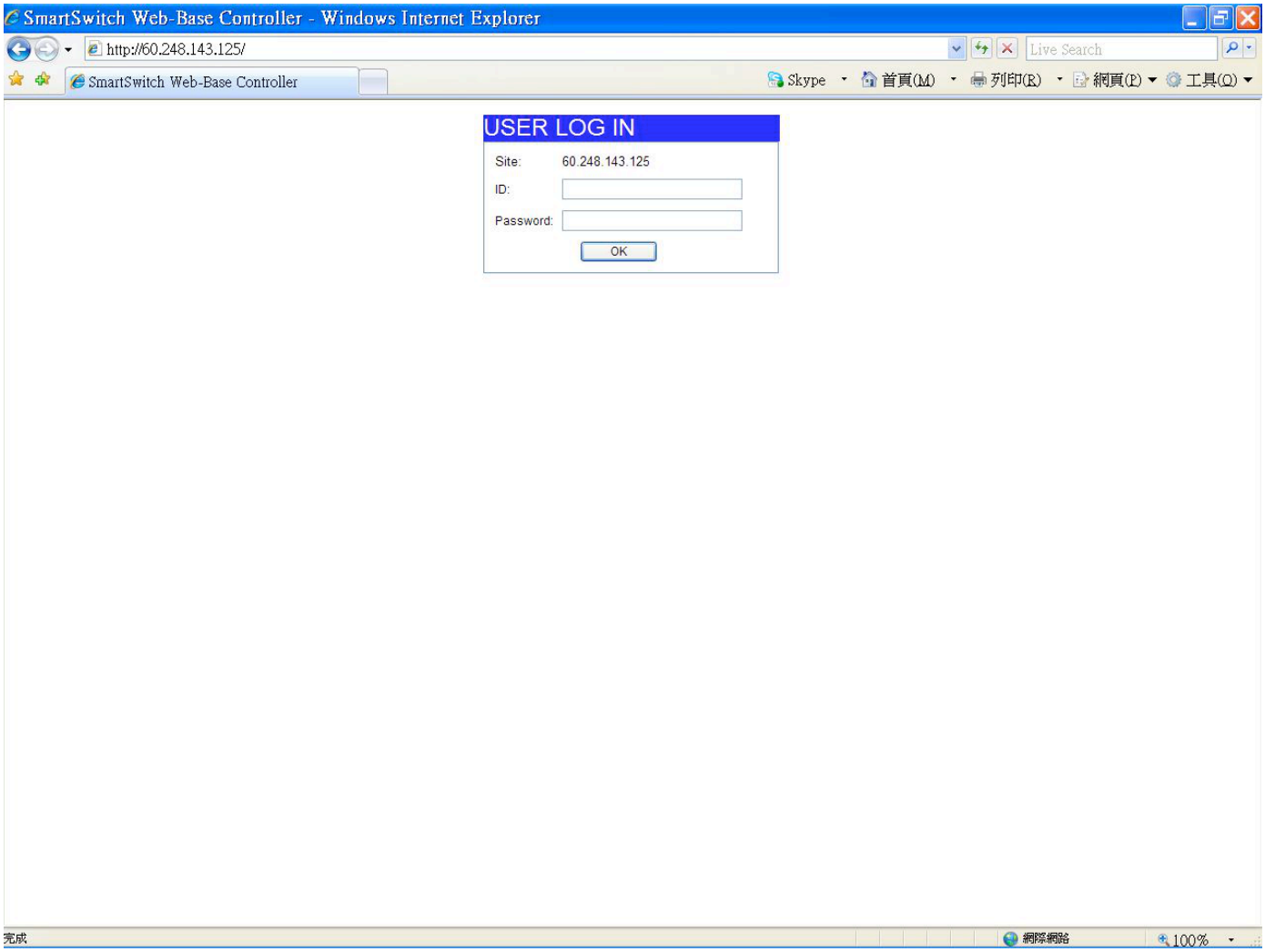
2. "VLAN Striding" – Enable/disable this function.

3. "IGMP Snooping V1 & V2" – Enable/disable this function.

4. "VLAN Uplink Setting" - Set "uplink1 or uplink2" or "Clear uplink1" or "Clear uplink2"

5. Click on "Update" to confirm and finish the setting.

Logout: You can click "Logout" to logout.



Contacts

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