

16 Port Nway Fast Ethernet PoE Web Smart Switch

User's Manual

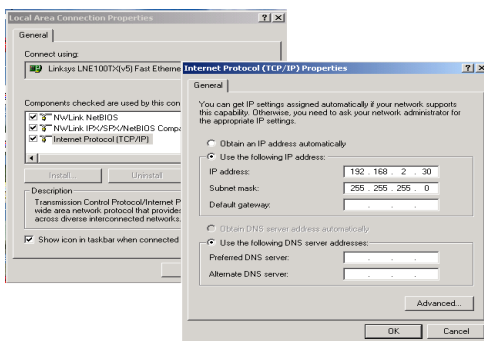
Ver:1.3.3

Web Smart Switch Configure

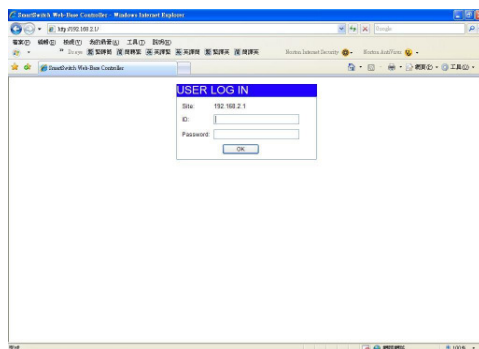
Please follow the steps to configure this Web Smart switch.

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.



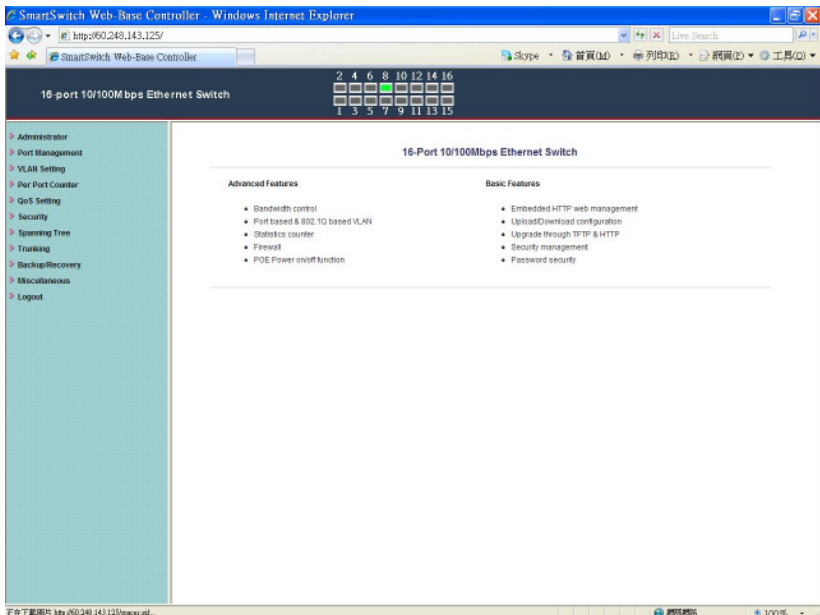
Step 3: Open the web browser (like IE...), and go to 192.168.2.1
Then you will see the login screen.



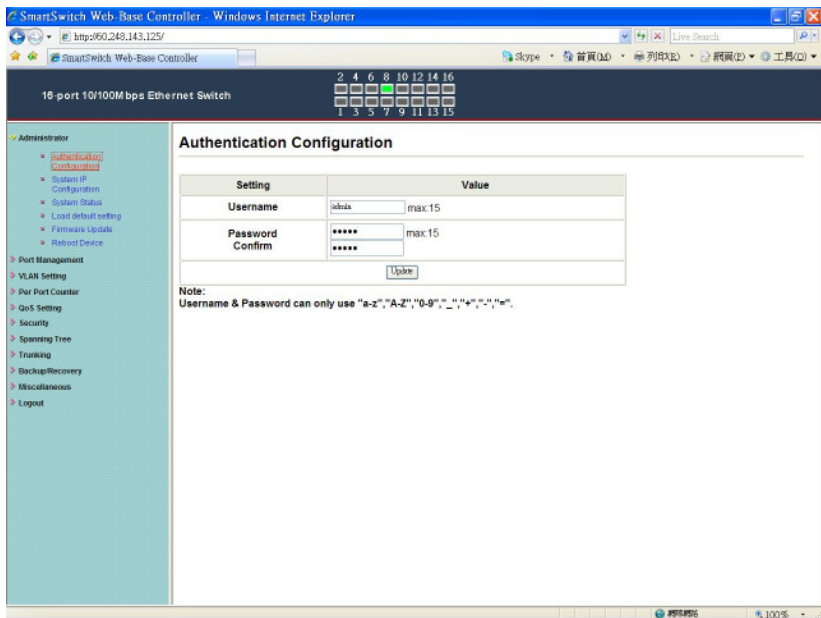
ID and the password: admin

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



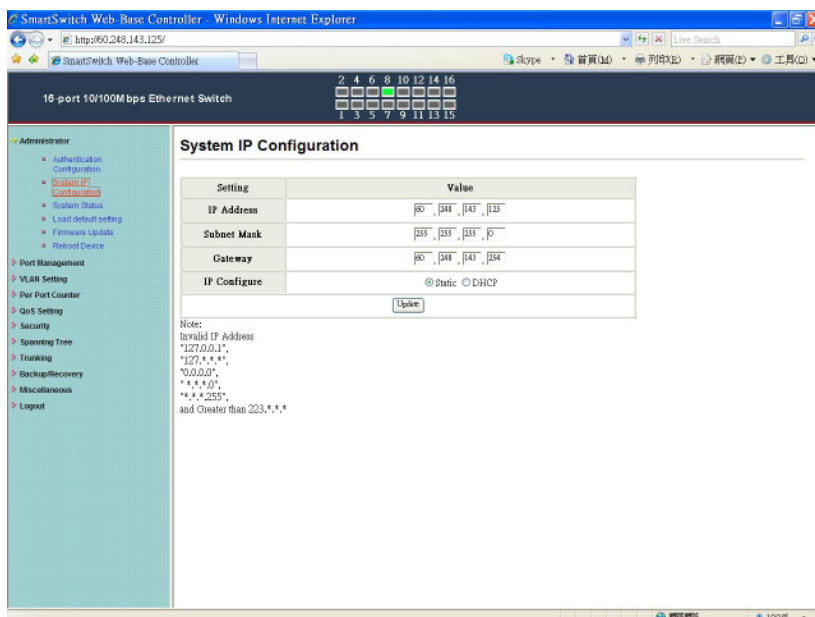
Administrator: Authentication Configuration



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.

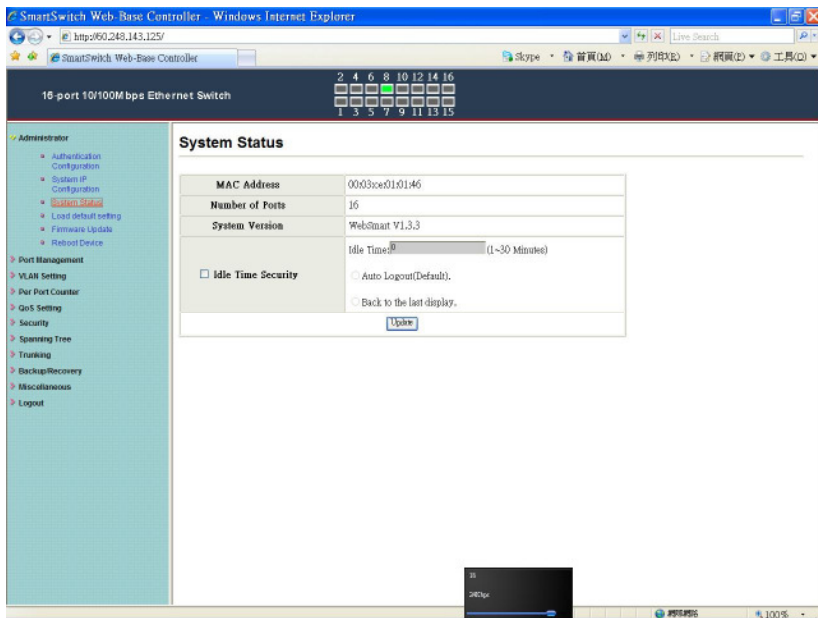
Administrator: System IP Configuration



1. Change the IP address: type the new IP address or select DHCP IP configuration.
2. Click “Update” to confirm the new change.
“Setting Process OK!!” will be shown on the screen.

Now, the setting of “System IP Configuration” is finished.

Administrator: System Status

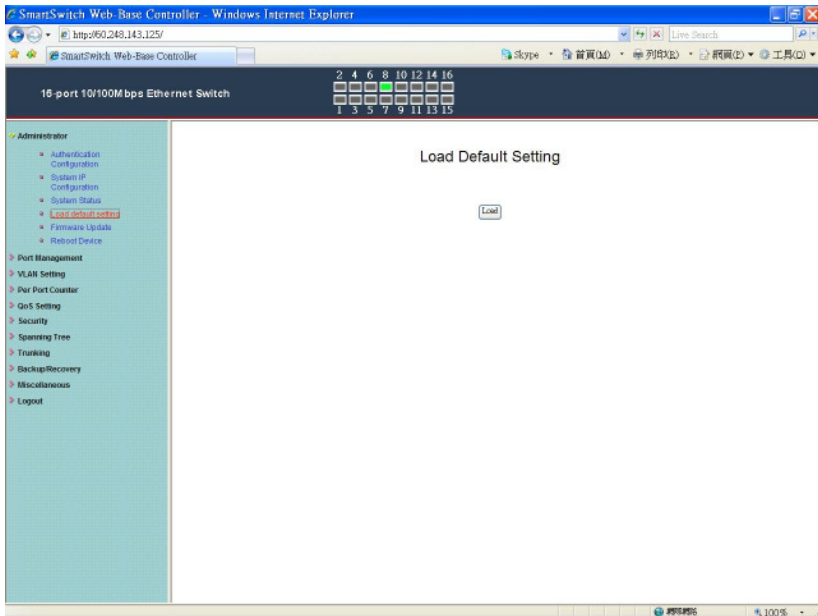


MAC address and system version will be shown on the screen.

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

Now, the setting of “System Status” is finished.

Administrator: Load Default Setting

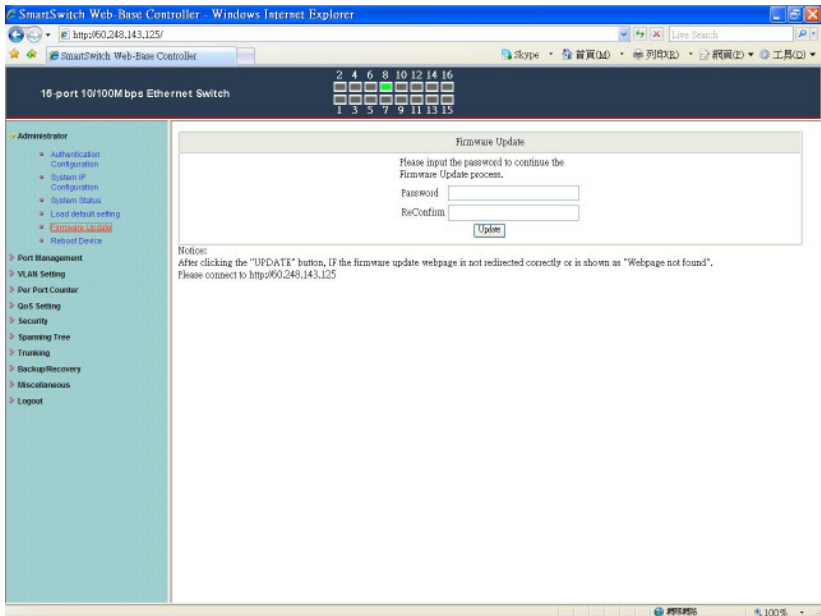


1. Click “Load” to back to the factory default setting.

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

Now, the default is loaded.

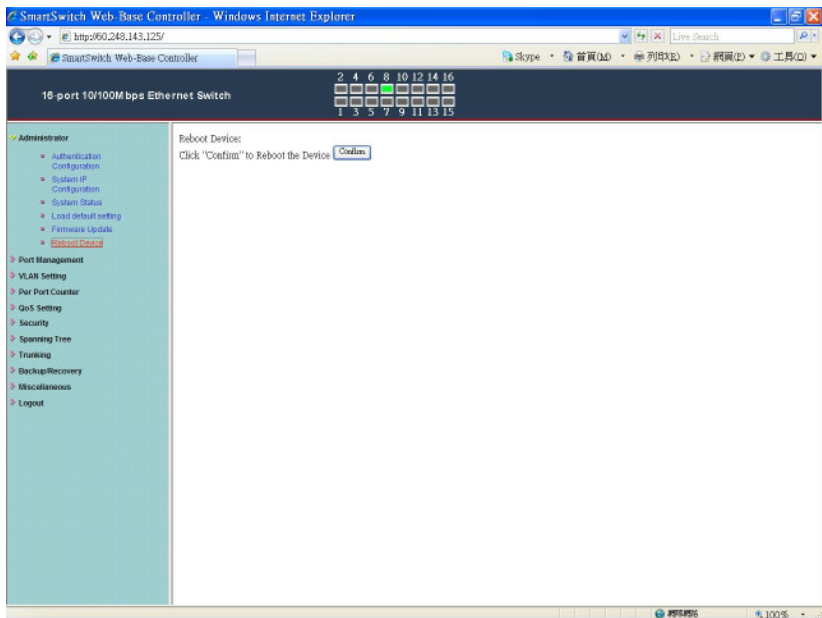
Administrator: Firmware Update



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

16-port 10/100Mbps Ethernet Switch

Port Configuration

Function	Auto	Speed	Duplex	Pause	Backpressure	Tx Capability	Addr. Learning
Select Port No.	01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/>						

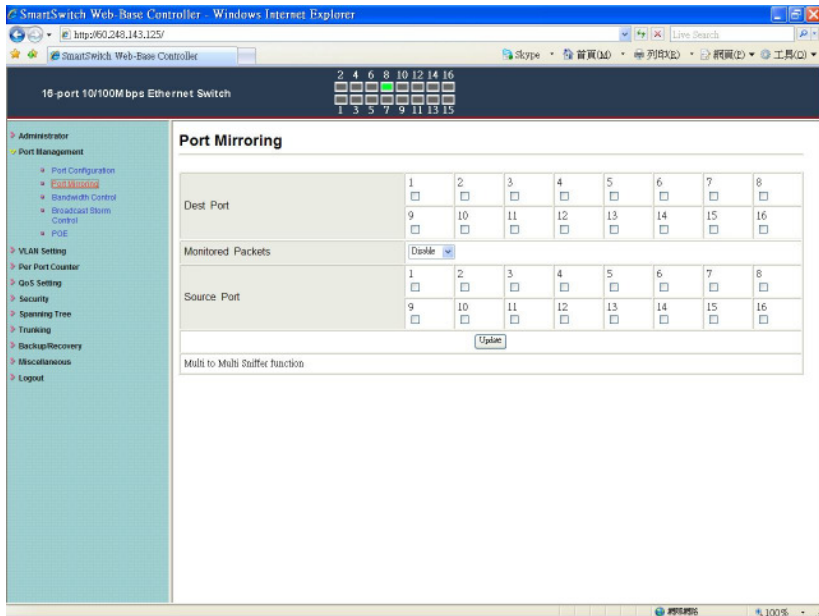
Port	Current Status				Setting Status						
	Link	Speed	Duplex	FlowCtrl	Auto-Nego	Speed	Duplex	Pause	Backpressure	Tx Cap	Addr. Learning
1	---	---	---	---	Auto	100M	Full	On	On	On	On
2	---	---	---	---	Auto	100M	Full	On	On	On	On
3	---	---	---	---	Auto	100M	Full	On	On	On	On
4	---	---	---	---	Auto	100M	Full	On	On	On	On
5	---	---	---	---	Auto	100M	Full	On	On	On	On
6	---	---	---	---	Auto	100M	Full	On	On	On	On
7	---	---	---	---	Auto	100M	Full	On	On	On	On
8	●	100M	Full	On	Auto	100M	Full	On	On	On	On
9	---	---	---	---	Auto	100M	Full	On	On	On	On
10	---	---	---	---	Auto	100M	Full	On	On	On	On
11	---	---	---	---	Auto	100M	Full	On	On	On	On
12	---	---	---	---	Auto	100M	Full	On	On	On	On
13	---	---	---	---	Auto	100M	Full	On	On	On	On
14	---	---	---	---	Auto	100M	Full	On	On	On	On
15	---	---	---	---	Auto	100M	Full	On	On	On	On
16	---	---	---	---	Auto	100M	Full	On	On	On	On

Select the “Port No.” - configure the mode 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 Cap (Capability)” - 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 16
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

SmartSwitch Web-Base Controller - Windows Internet Explorer

16 port 10/100Mbps Ethernet Switch

Bandwidth Control

Port No: Tx Rate Value: Rx Rate Value:

Resolution: (1:Rate value: 1~255, High:512Kbps)

If the link speed of selected port is lower than the rate that you setting, this system will use the value of link speed as your setting rate.

Port No	Tx Rate(Kbps)	Rx Rate(Kbps)	Link Speed	Port No	Tx Rate(Kbps)	Rx Rate(Kbps)	Link Speed
1	Full Speed	Full Speed	---	9	Full Speed	Full Speed	---
2	Full Speed	Full Speed	---	10	Full Speed	Full Speed	---
3	Full Speed	Full Speed	---	11	Full Speed	Full Speed	---
4	Full Speed	Full Speed	---	12	Full Speed	Full Speed	---
5	Full Speed	Full Speed	---	13	Full Speed	Full Speed	---
6	Full Speed	Full Speed	---	14	Full Speed	Full Speed	---
7	Full Speed	Full Speed	---	15	Full Speed	Full Speed	---
8	Full Speed	Full Speed	100M	16	Full Speed	Full Speed	---

1. Select the “Port No.”: you can choose 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 “Update” to confirm the setting or “LoadDefault”.

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

Port Management: Broadcast Storm Control

SmartSwitch Web-Base Controller - Windows Internet Explorer

http://60.248.143.125/

SmartSwitch Web-Base Controller

16-port 10/100Mbps Ethernet Switch

2 4 6 8 10 12 14 16
1 3 5 7 9 11 13 15

Broadcast Storm Control

Threshold 1~63

	1	2	3	4	5	6	7	8
Enable Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9	10	11	12	13	14	15	16
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This value indicates the number of broadcast packet which is allowed to enter each port in one time unit. One time unit is 500 us for 100Mbps speed and 5000us for 10Mbps speed

Administrator

Port Management

- Port Configuration
- Port Mirroring
- Bandwidth Control
- Broadcast Storm Control**
- POE

VLAN Setting

Per Port Counter

QoS Setting

Security

Spanning Tree

Trunking

Backup/Recovery

Miscellaneous

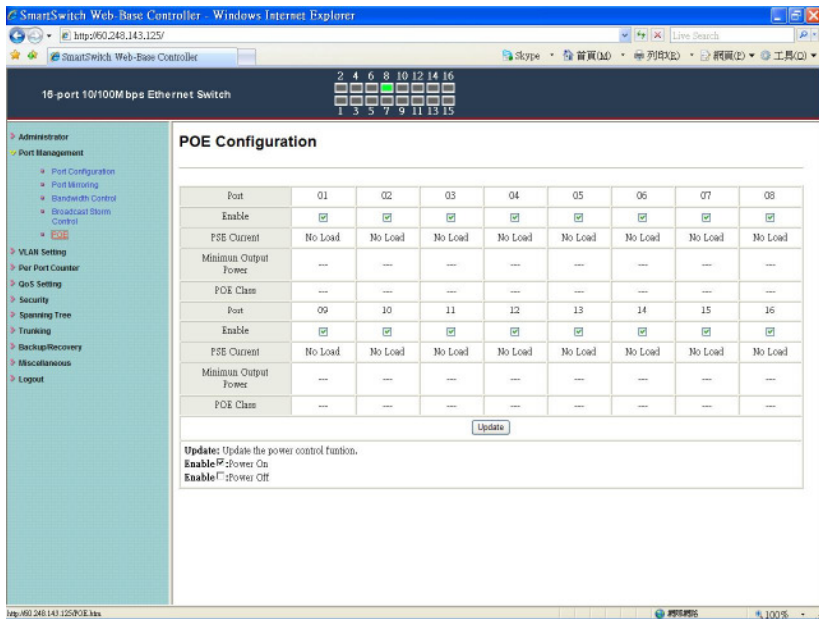
Logout

100%

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

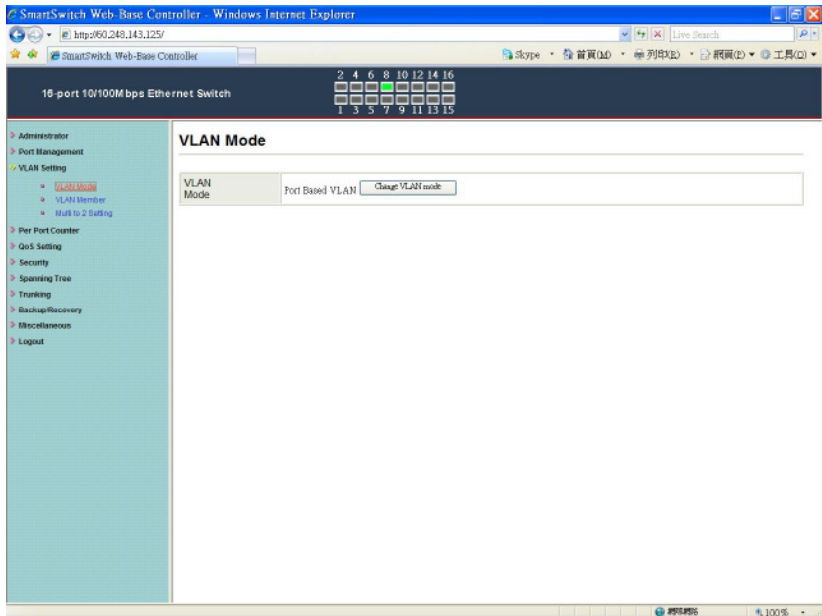


Remote access and monitor the attached PD (Powered Device) status by using Enable/Disable function.

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)

The screenshot shows the 'VLAN Member Setting (Port Based)' configuration page. The top section has a 'Port' dropdown set to '01' and a 'Port' button. Below it is a table for selecting ports:

Port	Dest PORT	01	02	03	04	05	06	07	08
Member Selection		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dest PORT		09	10	11	12	13	14	15	16
Member Selection		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

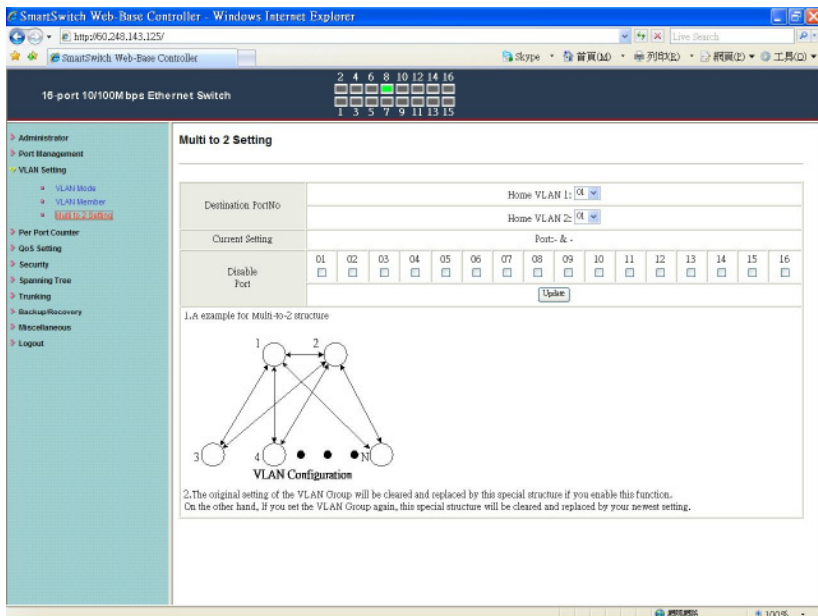
Below this table are 'Update' and 'LoadDefault' buttons. The bottom section is a large grid titled 'VLAN MEMBER' with columns for Port (1-16) and rows for VLAN (1-16). Each cell contains a checkmark, indicating that all ports are assigned to all VLANs.

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

16-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	2257	2632
09	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0

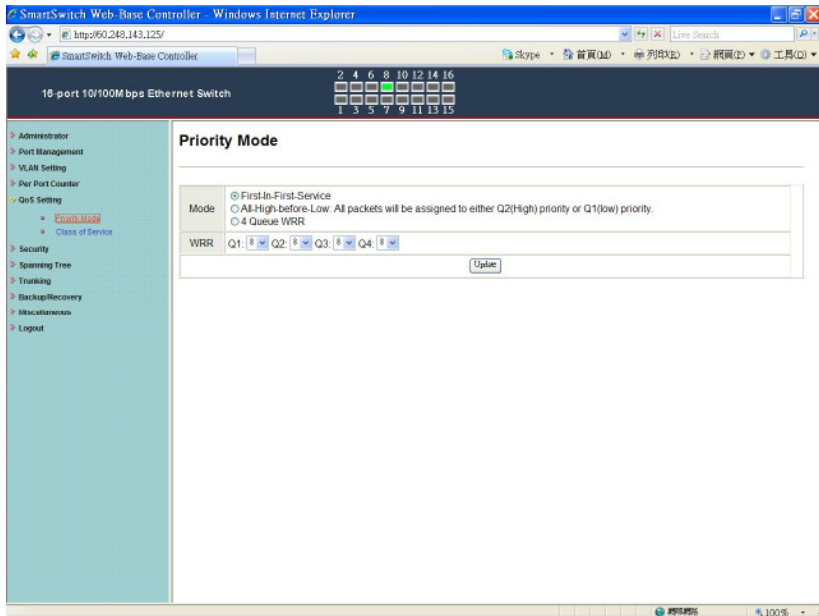
Refresh

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-Out” - the first receiving packet will be firstly transmitted.
2. “All-High-before-Low” – All packets will be assigned to either Q2(high) priority queue or Q1(low) priority queue.
3. “4 Queue WRR (Weight-Round-Robin)” - 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

SmartSwitch Web Base Controller - Windows Internet Explorer

http://192.168.1.1:8080

SmartSwitch Web Base Controller

16 port 10/100Mbps Ethernet Switch

2 4 6 8 10 12 14 16
1 3 5 7 9 11 13 15

Administration
Port Management
VLAN Setting
Port Port Counter
QoS Setting
Priority Queue
Class of Service

Security
Spanning Tree
Trunking
Backup/Recovery
Microsegment
Logical

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
FTP	<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"/>
TELNET	<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"/>
CNS	<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"/>
HTTP	<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"/>
NEWS	<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"/>
NetBIOS	<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"/>
SNMP	<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"/>
MSN	<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"/>
QQ	<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"/>
Yahoo	<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"/>
User-defined A TCP/UDP	<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"/>
User-defined C TCP/UDP	<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 (95535-1)	User-defined A Port	User-defined B Port	User-defined C Port

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

01	02	03	04	05	06	07	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"/>
09	10	11	12	13	14	15	16
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Update

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

0x001010	0x001010	0x001010	0x001010	0x001010	0x001010	0x001010	0x001010
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0x001110	0x001110	0x001110	0x001110	0x001110	0x001110	0x001110	0x001110
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Values Q1

IP TOS/DS Port Setting

01	02	03	04	05	06	07	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"/>
09	10	11	12	13	14	15	16
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Update

(3) 802.1p

For 802.1p priority field, the switch utilizes the following priority mapping table.
0 and 2 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"/>	9	<input type="checkbox"/>
2	<input type="checkbox"/>	10	<input type="checkbox"/>
3	<input type="checkbox"/>	11	<input type="checkbox"/>
4	<input type="checkbox"/>	12	<input type="checkbox"/>
5	<input type="checkbox"/>	13	<input type="checkbox"/>
6	<input type="checkbox"/>	14	<input type="checkbox"/>
7	<input type="checkbox"/>	15	<input type="checkbox"/>
8	<input type="checkbox"/>	16	<input type="checkbox"/>

Update

(4) Physical port

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	10	11	12	13	14	15	16								
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Update

My 402.248.143.122@100%

100%

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

TCP/UDP > TP TOS/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**.

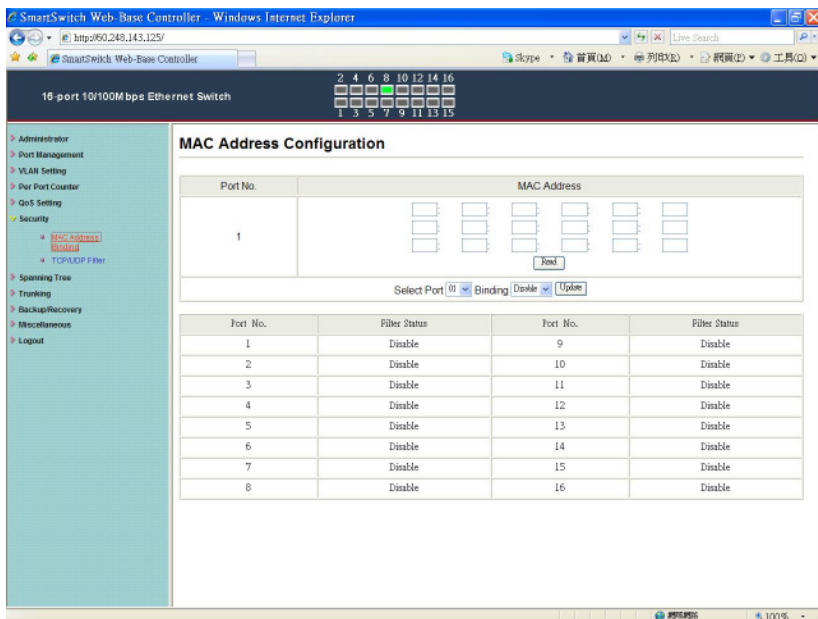
****WRR –Q1/Q2/Q3/Q4**

****“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 Filter



Set special MAC address to activate on the selected port

1. Choose “Select Port” – port 1~16
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

TCP/UDP Filter Configuration

Function Enable: **Disable**

Port Filtering Rule

Deny means the outgoing packets to the selected port with selected protocol will be dropped and other protocols will be forwarded.
 Allow means the selected protocol will be forwarded and other protocol will be dropped.

Note:
 1. The secure WAN port should be set at the physical port which is connected to the server.
 2. Once this function is enabled, the switch will check the destination TCP/UDP port numbers at the outgoing direction of the secure WAN port. If the condition matches, this packet will be dropped or forwarded.

Secure Port

<input type="checkbox"/> Port01	<input type="checkbox"/> Port02	<input type="checkbox"/> Port03	<input type="checkbox"/> Port04
<input type="checkbox"/> Port05	<input type="checkbox"/> Port06	<input type="checkbox"/> Port07	<input type="checkbox"/> Port08
<input type="checkbox"/> Port09	<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

Protocol

<input type="checkbox"/> FTP	<input type="checkbox"/> SSH	<input type="checkbox"/> TELNET	<input type="checkbox"/> SMTP
<input type="checkbox"/> DNS	<input type="checkbox"/> TFTP	<input type="checkbox"/> HTTP	<input type="checkbox"/> POP3
<input type="checkbox"/> NEWS	<input type="checkbox"/> SMTP	<input type="checkbox"/> NetBIOS	<input type="checkbox"/> IMAP
<input type="checkbox"/> SNMP	<input type="checkbox"/> HTTPS	<input type="checkbox"/> XRD_RDP	<input type="checkbox"/> BOOTP/DHCP
<input type="checkbox"/> User-defined A TCP/UDP	<input type="checkbox"/> User-defined B TCP/UDP	<input type="checkbox"/> User-defined C TCP/UDP	

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

Example: Set the secure WAN port at P5

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.

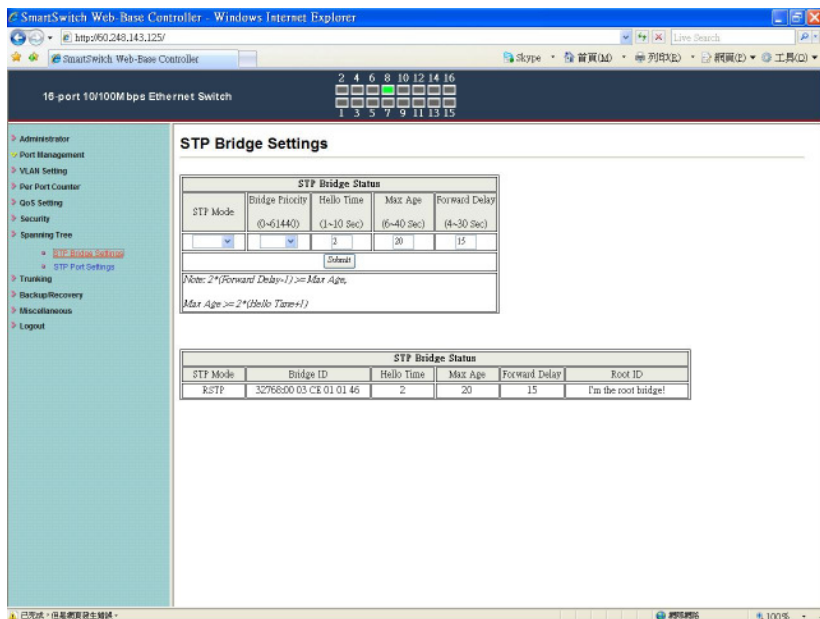
If the condition matches, this packet will be dropped or forwarded.

****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

The screenshot shows the SmartSwitch Web Base Controller interface in a Windows Internet Explorer browser. The address bar shows <http://60.248.143.125/>. The page title is "SmartSwitch Web-Base Controller". The main content area is titled "STP Port Settings".

On the left, there is a navigation menu with the following items:

- Administrator
- Port Management
- VLAN Setting
- Port Port Counter
- QoS Setting
- Security
- Spanning Tree
 - STP Bridge Settings
 - STP Port Settings**
- Trunking
- Backup/Recovery
- Miscellaneous
- Logout

The main content area contains two tables:

STP Port Settings

Port No.	Priority (0~240)	RPC (Root Path Cost) (1~200000000)
1	0	1
2	0	1
3	0	1
4	0	1
5	0	1
6	0	1
7	0	1
8	0	1
9	0	1
10	0	1
11	0	1
12	0	1
13	0	1
14	0	1
15	0	1
16	0	1

STP Port Status

Port No.	RPC	Priority	State	Status	Designated Bridge	Designated Port
1	Auto(2000000)	0x00	--	Disable	--	--
2	Auto(2000000)	0x00	--	Disable	--	--
3	Auto(2000000)	0x00	--	Disable	--	--
4	Auto(2000000)	0x00	--	Disable	--	--
5	Auto(2000000)	0x00	--	Disable	--	--
6	Auto(2000000)	0x00	--	Disable	--	--
7	1	0x00	--	Disable	--	--
8	15	0x00	Designated Port	Forwarding	--	--
9	10	0x00	--	Disable	--	--
10	2	0x00	--	Disable	--	--
11	Auto(2000000)	0x00	--	Disable	--	--
12	Auto(2000000)	0x00	--	Disable	--	--
13	Auto(2000000)	0x00	--	Disable	--	--
14	Auto(2000000)	0x00	--	Disable	--	--
15	Auto(2000000)	0x00	--	Disable	--	--
16	Auto(2000000)	0x00	--	Disable	--	--

1. Choose "Port No." : Port 1 ~ Port 16
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

SmartSwitch Web-Base Controller - Windows Internet Explorer

http://60.248.143.125/

SmartSwitch Web-Base Controller

16-port 10/100Mbps Ethernet Switch

2 4 6 8 10 12 14 16
1 3 5 7 9 11 13 15

Administrator
Port Management
VLAN Setting
Per Port Counter
QoS Setting
Security
Spanning Tree
Trunking
Link Aggregation
Backup/Recovery
Miscellaneous
Logout

Trunking

System Priority	0 (1-65535)
Link Aggregation Algorithm	MAC Source
Submit	

Notice: If any trunk group is set to LACP type, each port in the trunk group will not be enabled(can't forward/Receive) until the port can finish LACP procedure with its link partner port.

Submit

Member	Link Group 1				Link Group 2			
	P1	P2	P3	P4	P5	P6	P7	P8
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State	Disable				Disable			
Type	Static				Static			
Operation Key	(1-65535)				(1-65535)			
Time Out	Long Time Out				Long Time Out			
Activity	Passive				Passive			
Submit								

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

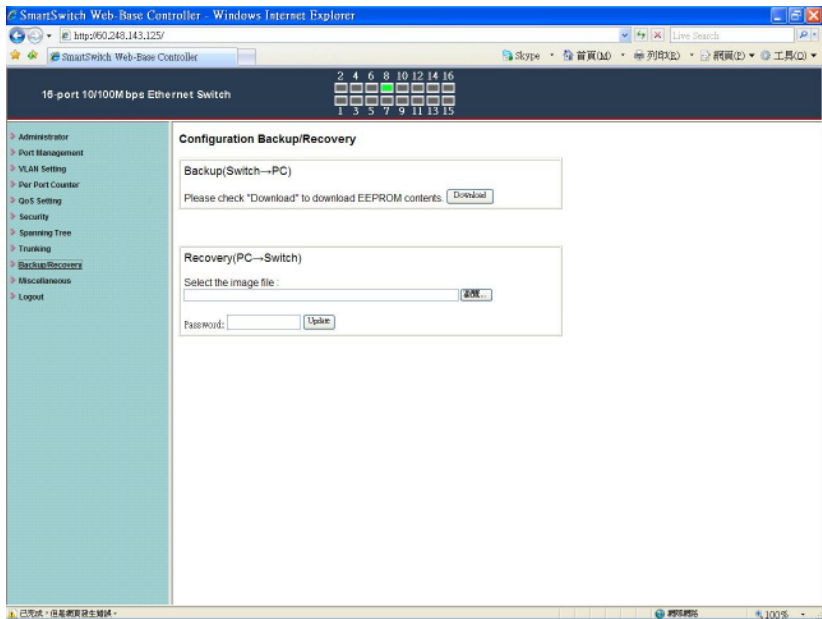
Click “Submit” to confirm and finish the setting.

“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

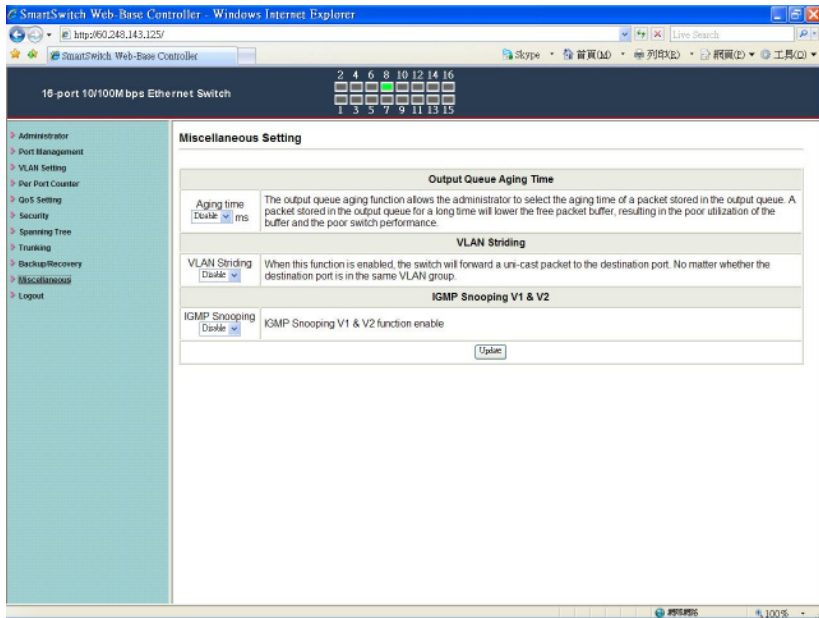


Follow the instruction on the screen to update the original setting.

“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. “VLAN Uplink Setting” – Set “uplink1 or uplink2” or “Clear uplink1” or “Clear uplink2”
5. Click “Update” to confirm and finish the setting.
- 6.

Logout: You can click “Logout” to logout.

