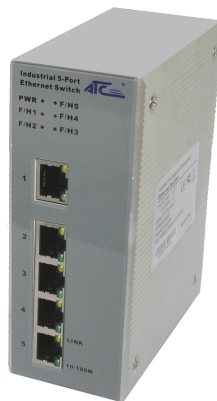


# 5-Port 10/100Mbps Fast Ethernet Switch

**ATC-405 Web management**

**Software User Manuals**



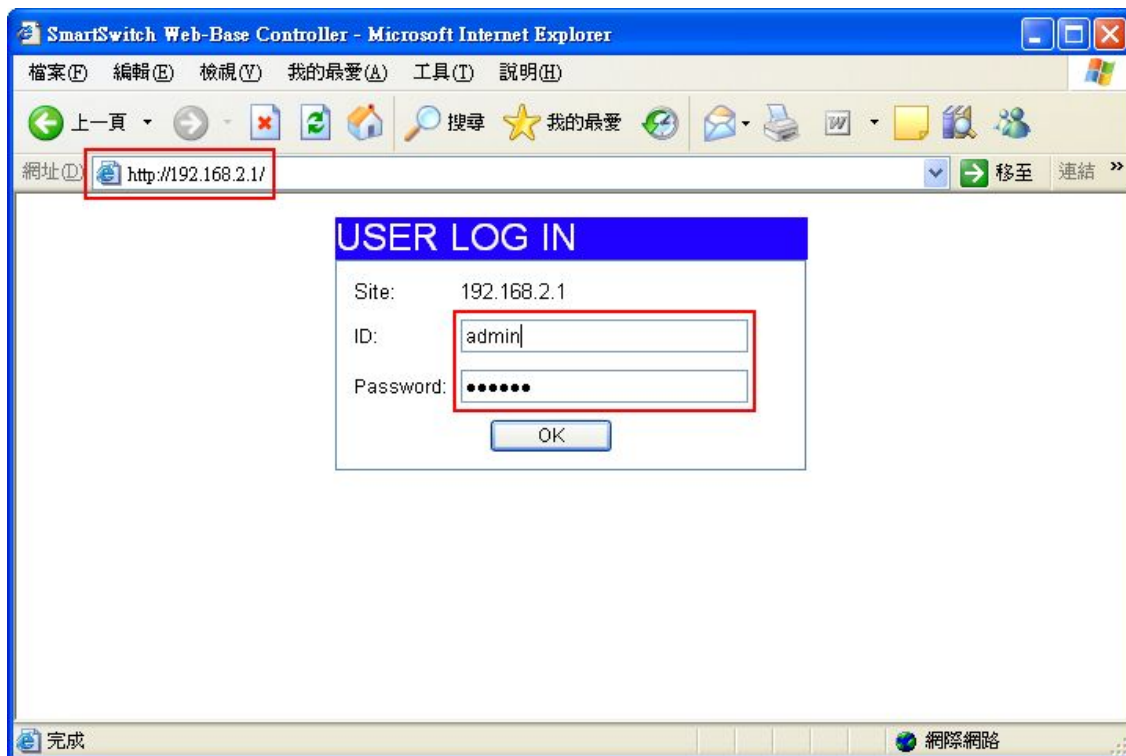
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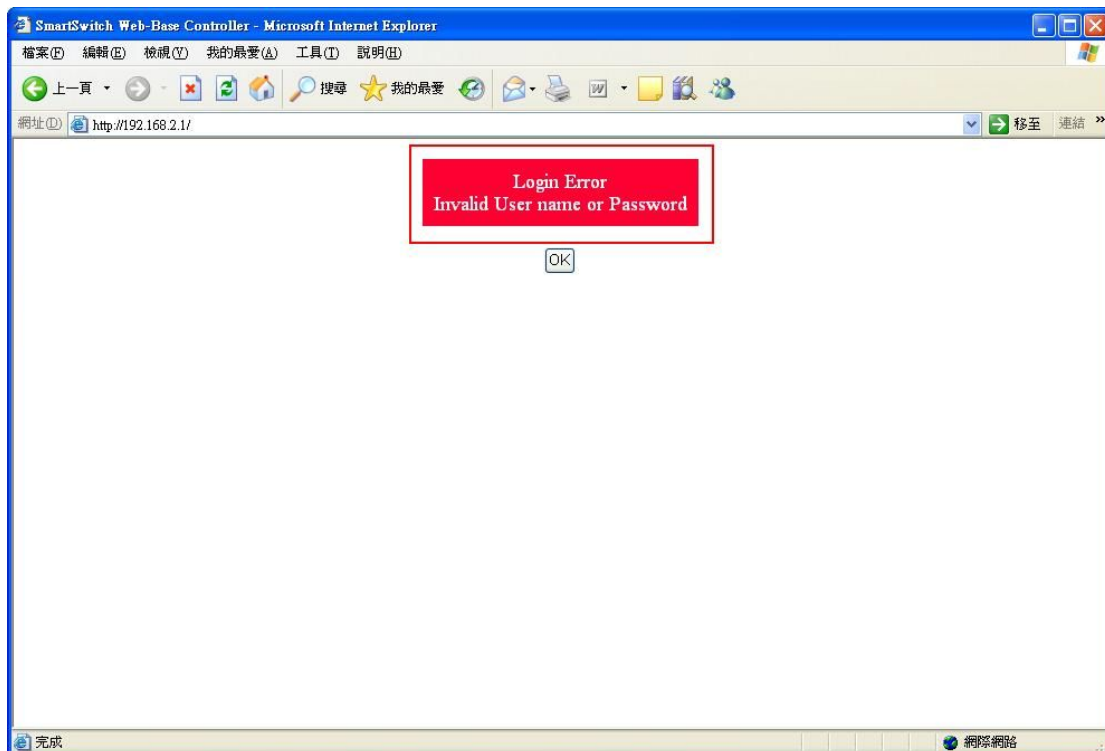
# 1 Administrator

## 1.1 Authentication configuration

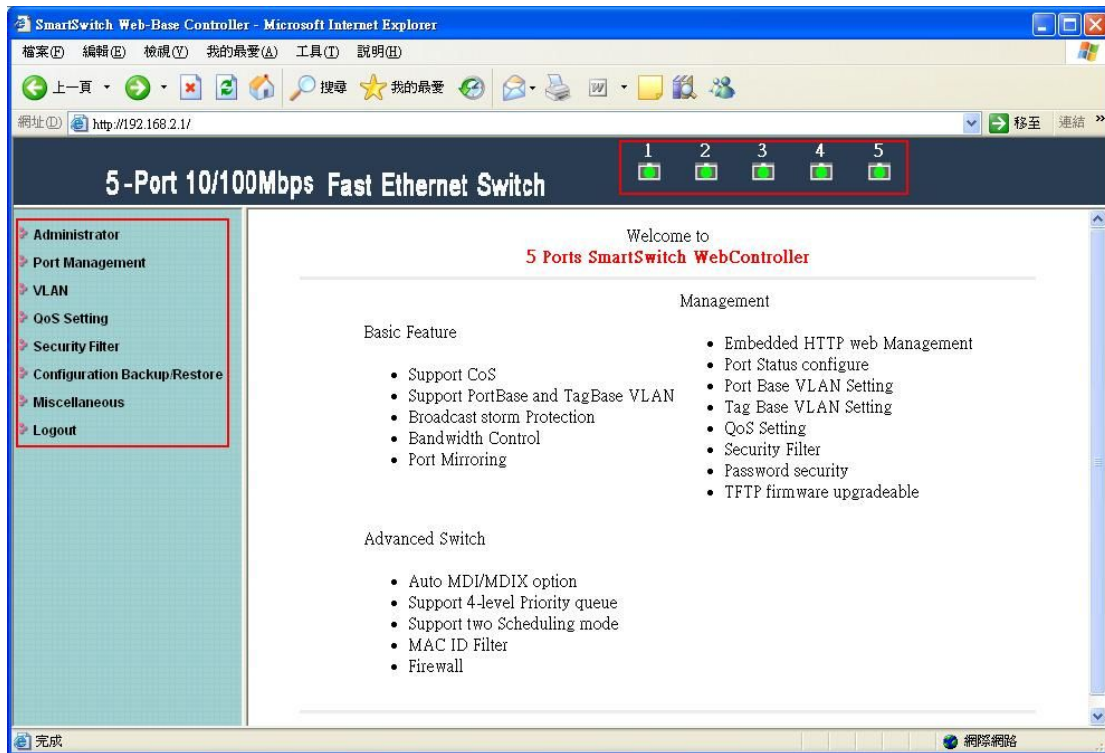
This page is used to change the user name and the password.



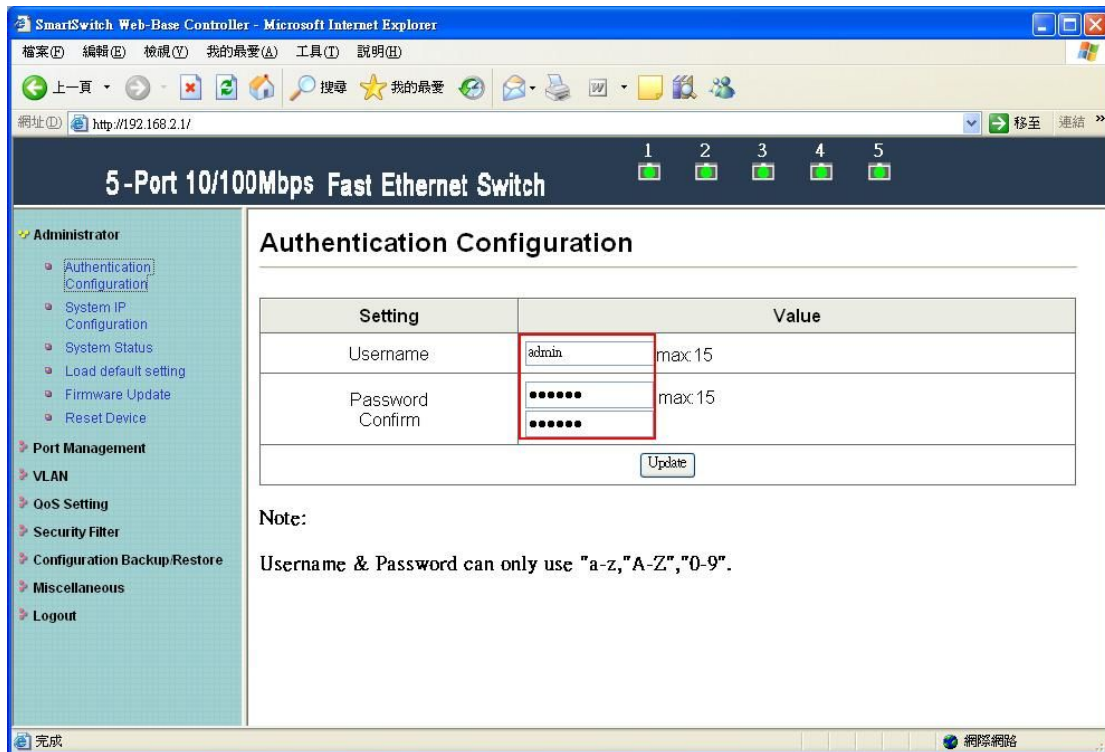
Enter IP=192.168.2.1 at web site field. USER LOG IN diagram box will appear, and then enter correct ID and Password (the default is admin and system) .



The warning message will appear if enter incorrect username and password.



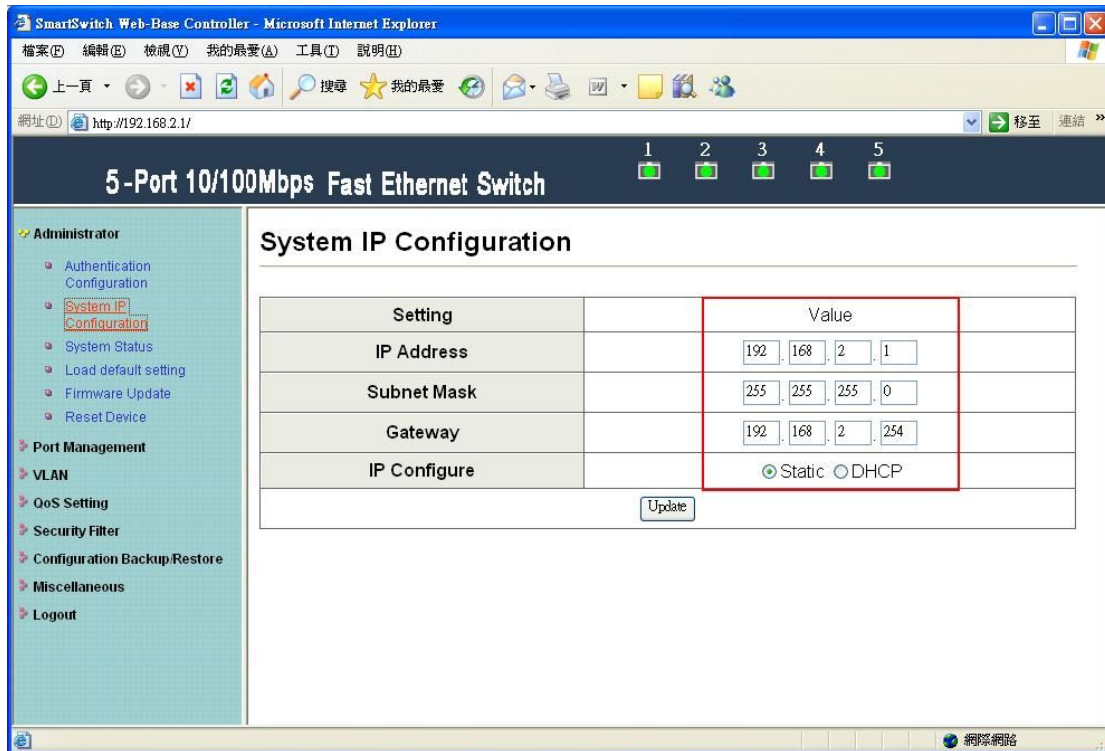
After login, the brief description of the main function will appear.



Authentication Configuration diagram box allows user to modify username and password, and then enter new username and password. After completing, press update button to take effect.

## 1.2 System IP Configuration

This page shows system configuration including the current IP address and sub-net mask, Gateway, and IP configure.

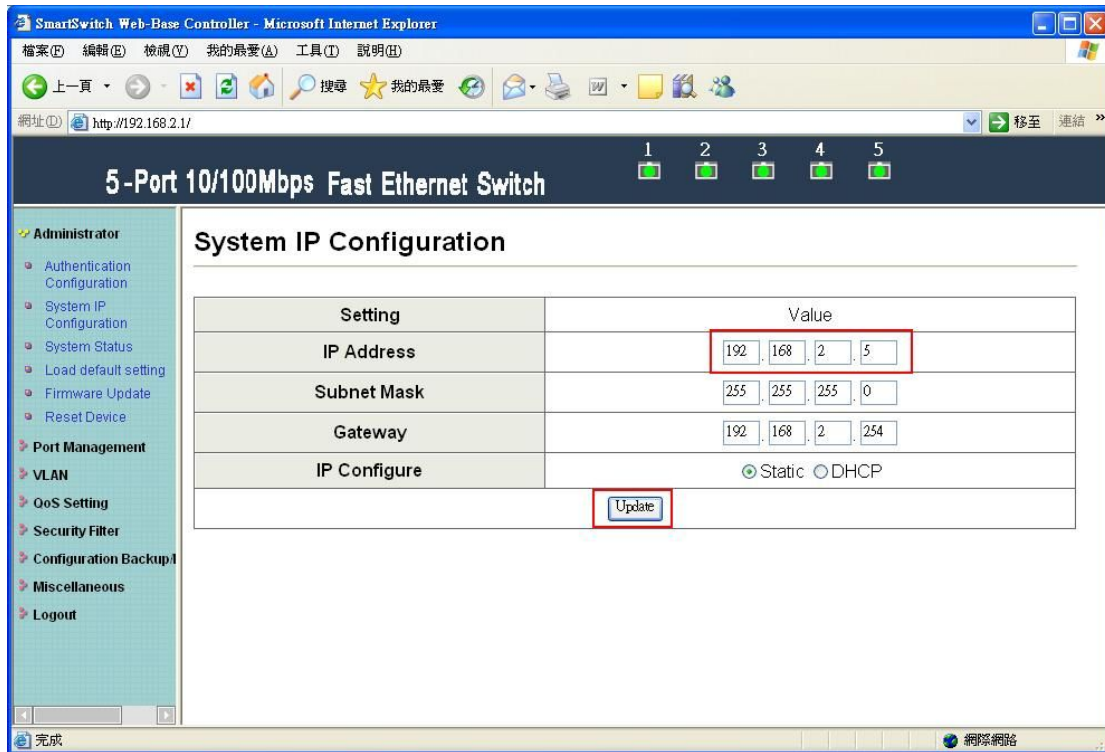


The screenshot displays the SmartSwitch Web-Base Controller interface in Microsoft Internet Explorer. The browser address bar shows <http://192.168.2.1/>. The page title is "5-Port 10/100Mbps Fast Ethernet Switch". The left sidebar contains a navigation menu with categories: Administrator, Port Management, VLAN, OoS Setting, Security Filter, Configuration Backup/Restore, Miscellaneous, and Logout. The main content area is titled "System IP Configuration" and contains a table with the following data:

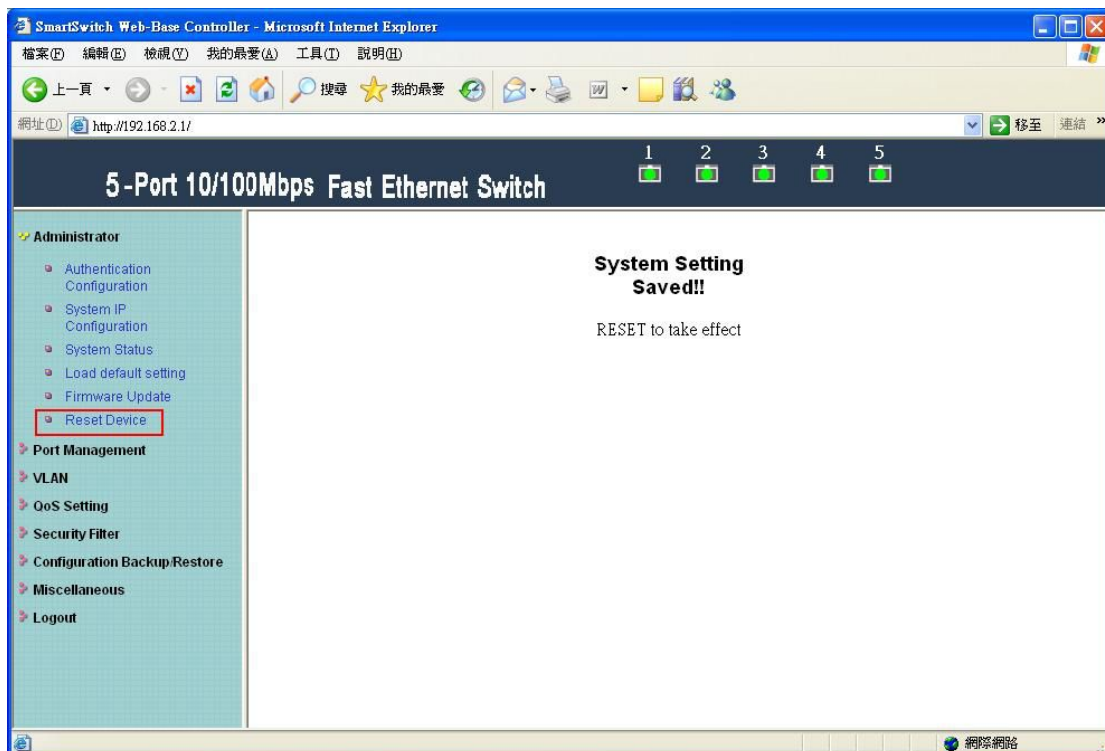
Setting	Value
IP Address	192 . 168 . 2 . 1
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 2 . 254
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP

Below the table is an "Update" button. The interface also shows five port status indicators (1-5) at the top right, all of which are green.

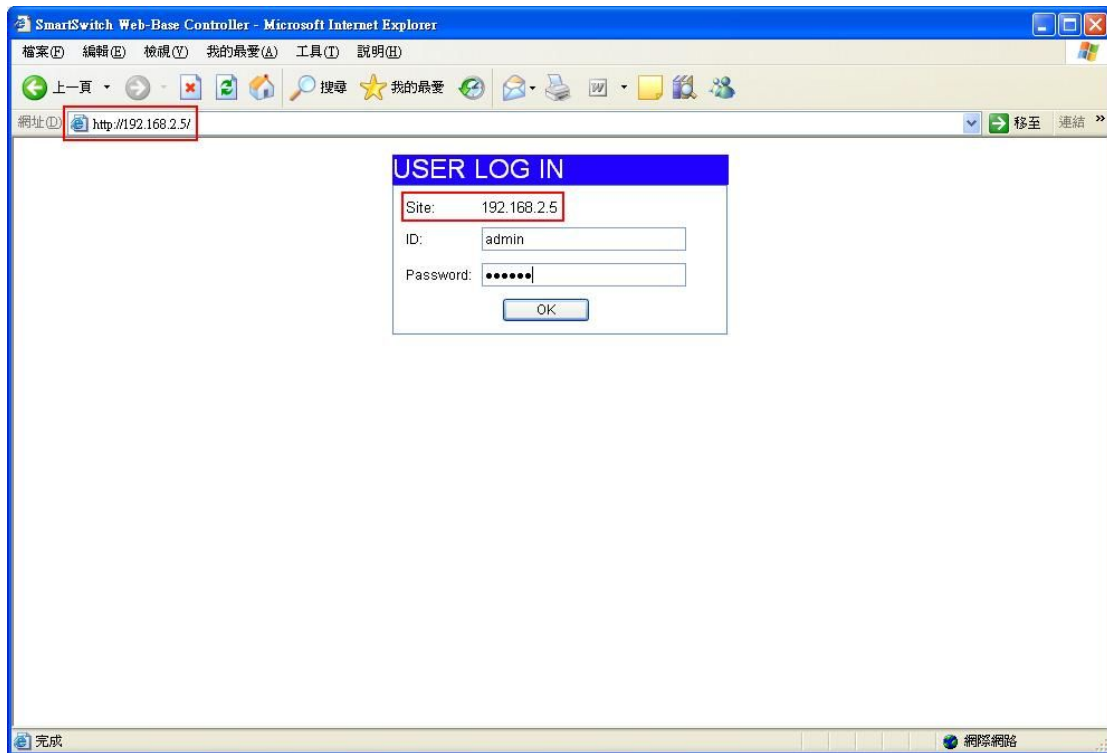
IP address, Subnet Mask, and Gateway at system IP Configuration diagram box can be configured by user. ATC-405 also supports DHCP methods to get IP address from DHCP server.



Change IP Address to 192.168.2.5 and press “Update” button.



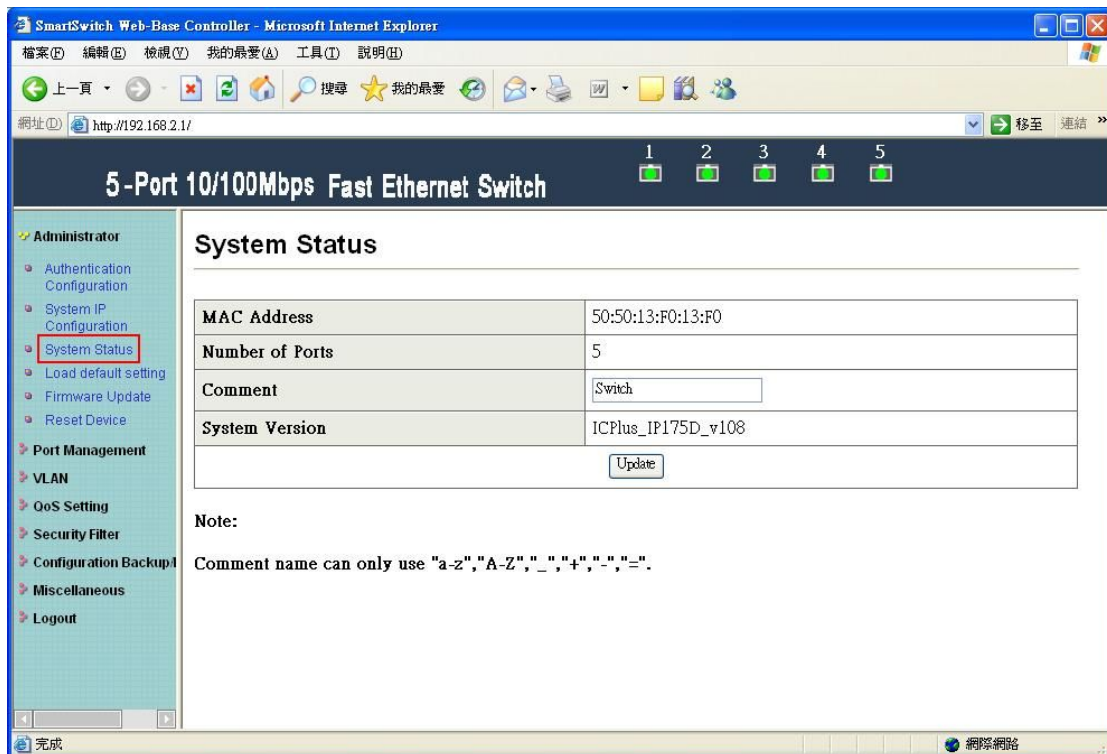
After Completing update process, the “System Setting Saved!!” will appear. Then click “Reset Device”.



After resetting Device, IP address has been modified to new one.

### 1.3 System status

This page is used to check the status of switch, including Switch MAC address and software version.

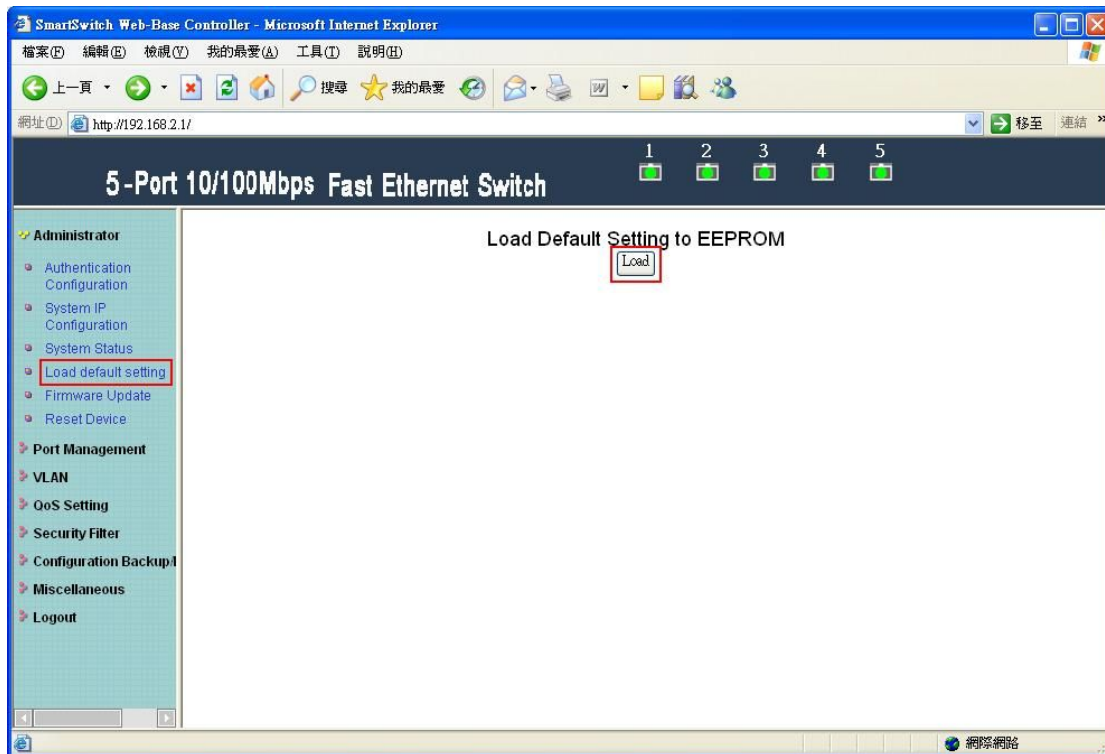


The MAC address and version of .ATC-405 will be shown at system status diagram box. Comment field can accept Aa~Zz, excluding special character.

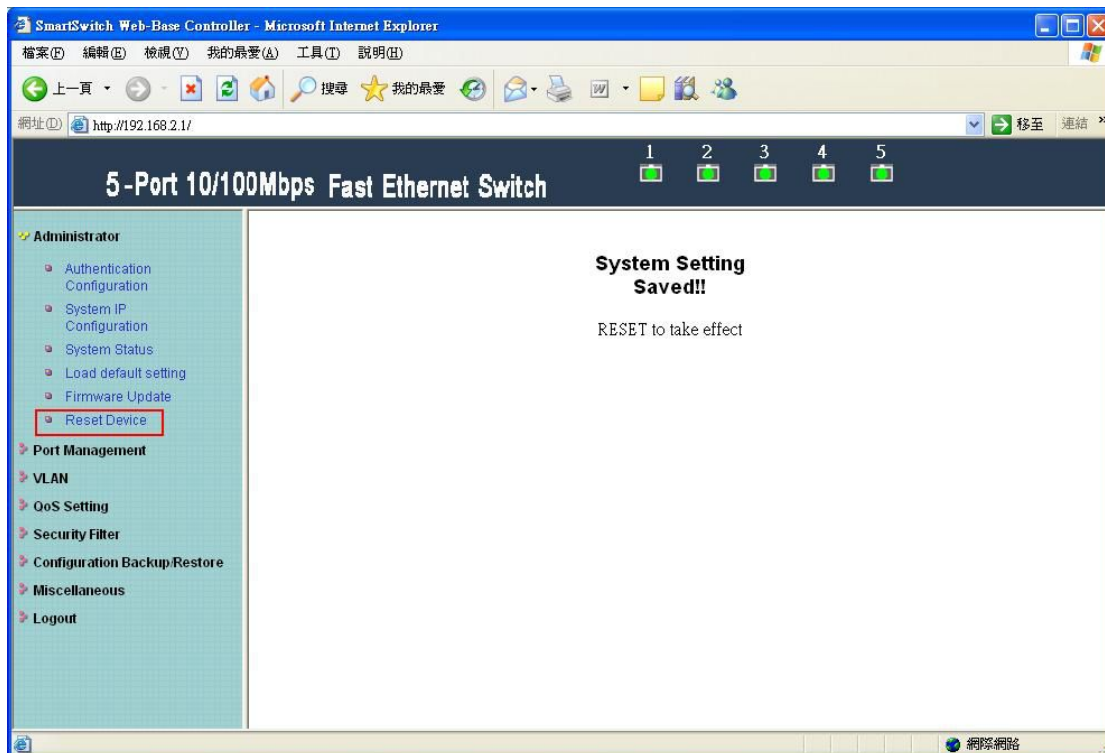


## 1.4 Load default setting

Clicking the “Load default setting” button will make the switch being set to the original configuration.



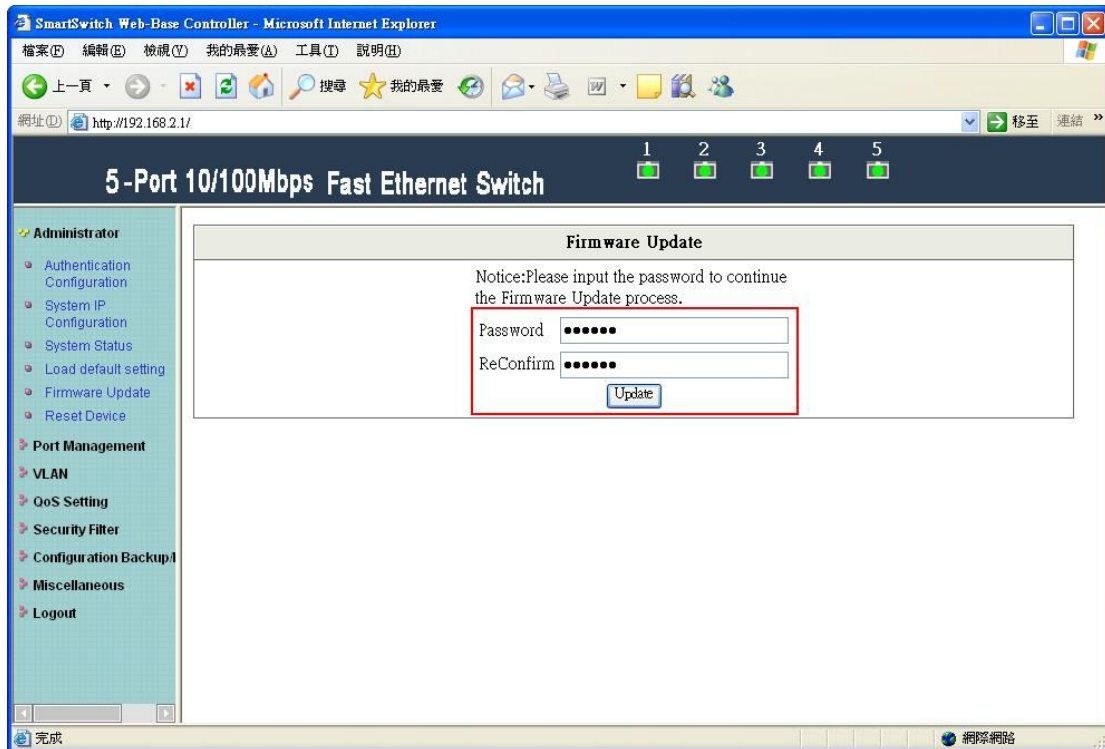
Note: this change only concerns the switch behavior, excluding the change for user name, password and IP configuration.



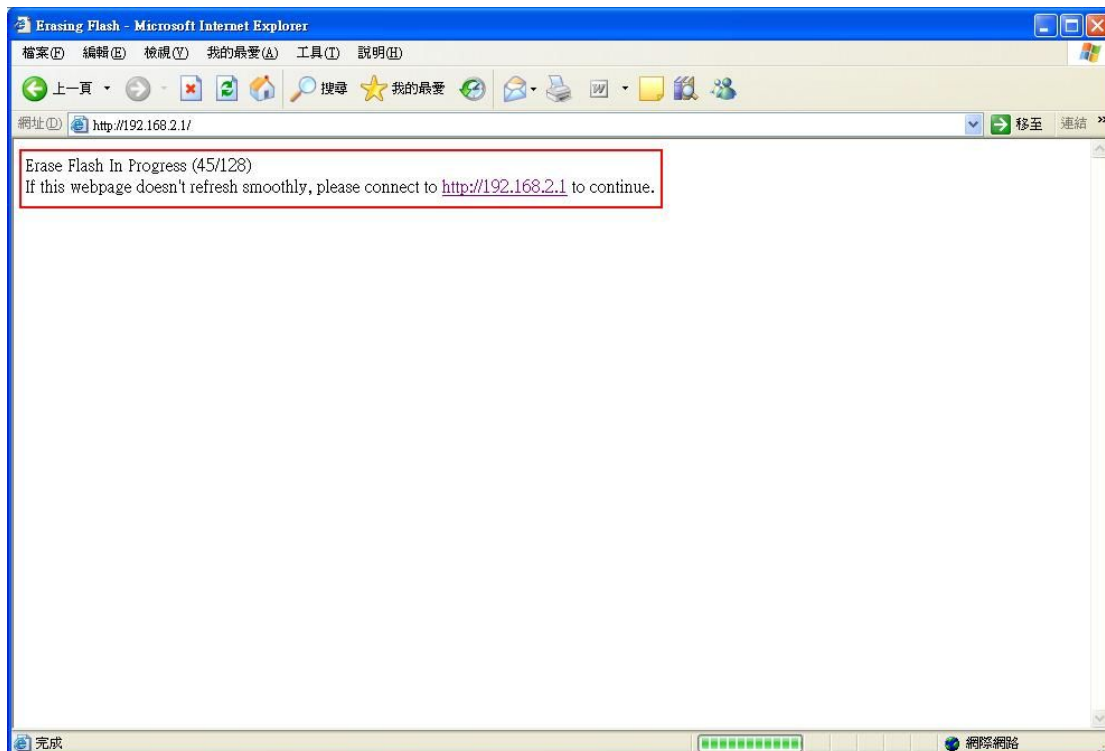
After Completing load process, the “System Setting Saved!!” will appear. Then press “Reset Device” to take effect.

## 1.5 Firmware update

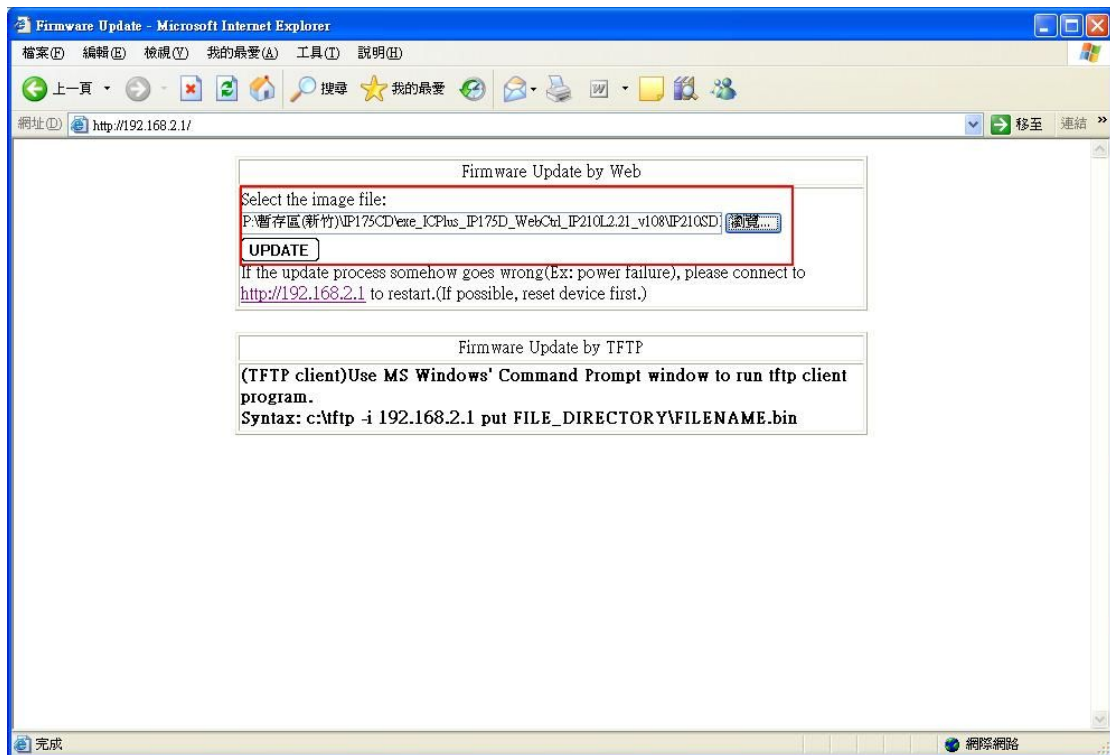
After pressing firmware update button, the switch will erase the older version flash code first. Then enter file name at specific path, and the update will be completed.



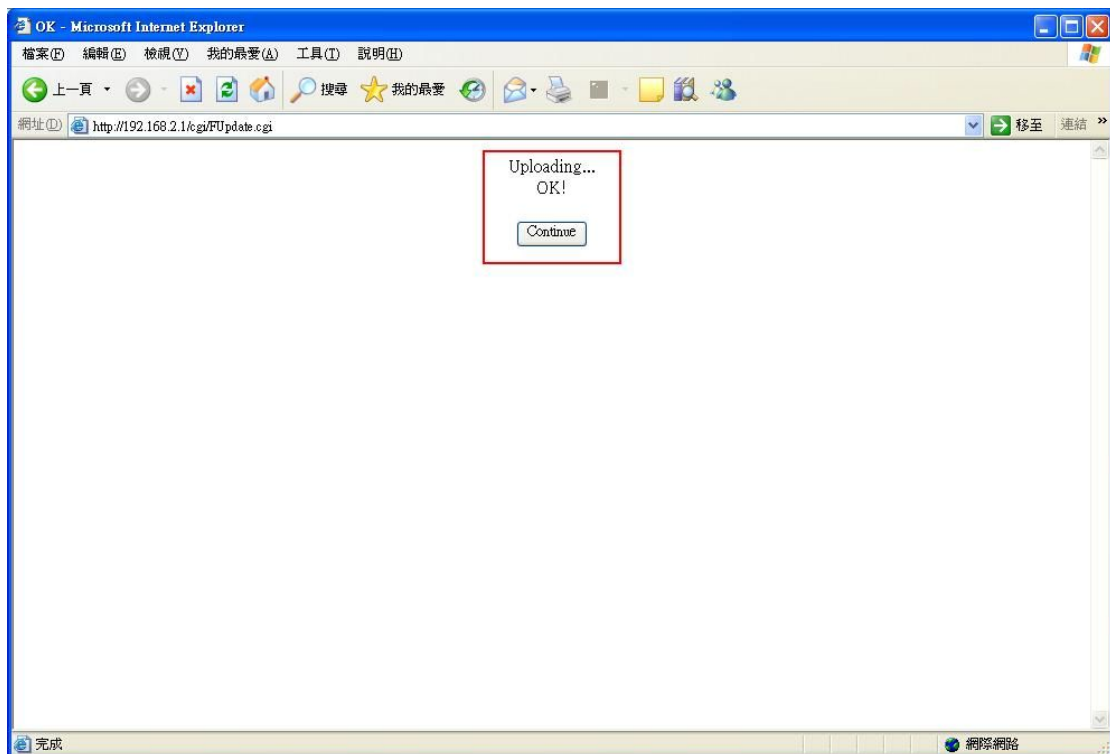
Enter password to execute firmware update process.



After pressing "Update" button, the old web code will be erased.



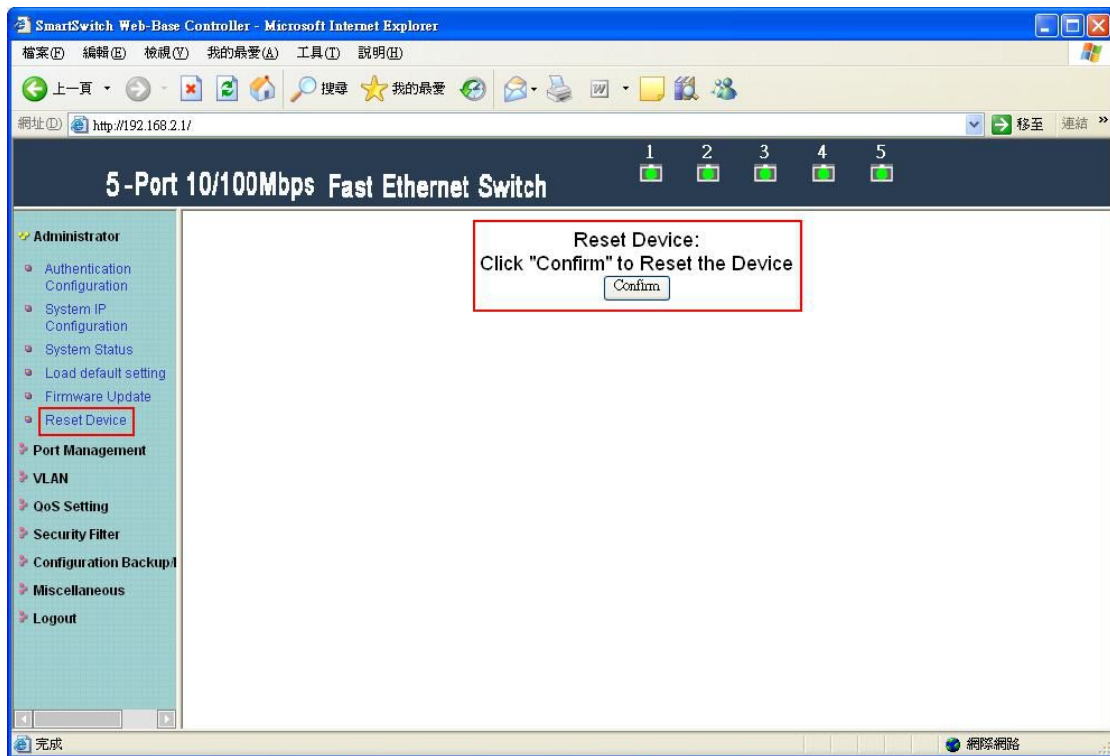
Enter correct path and press “UPDATE” button to complete firmware update process.



Firmware update is finished.

## 1.6 Reset device

This page is used to reset device.



Press "Confirm" button to take effect for rebooting device.

## 2 Port Management

### 2.1 Port configuration

This page allows the user to configure operating mode of the physical port.

The screenshot shows the SmartSwitch Web-Base Controller interface in Microsoft Internet Explorer. The page title is "5-Port 10/100Mbps Fast Ethernet Switch". The left sidebar contains a navigation menu with options like Administrator, Port Management, VLAN, and Security Filter. The main content area is titled "Port Configuration" and contains a configuration table and a status table. A red box highlights the configuration table.

Function	Auto Negotiation	Speed	Duplex	Pause	Frame Forwarding	Learning Capability
	<input type="text"/>	10M	Half	Disable	<input type="text"/>	<input type="text"/>
Select Port NO.	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>					
<input type="button" value="Submit"/>						

Port No.	Current Status			Setting Status					
	Link	Speed	Duplex	Auto Negotiation	Speed	Duplex	Pause	Frame Forwarding	Learning Capability
1	<input checked="" type="checkbox"/>	100	Full	Enable	100	Full	Enable	Enable	Enable
2	<input checked="" type="checkbox"/>	100	Full	Enable	100	Full	Enable	Enable	Enable
3	<input checked="" type="checkbox"/>	100	Full	Enable	100	Full	Enable	Enable	Enable

After completing the settings, press "Submit" button to take effect.

The screenshot shows the SmartSwitch Web-Base Controller interface in Microsoft Internet Explorer. The page title is "5-Port 10/100Mbps Fast Ethernet Switch". The left sidebar contains a navigation menu with options like Administrator, Port Management, VLAN, and Security Filter. The main content area is titled "Port Configuration" and contains a configuration table and a status table. A red box highlights the current status table.

Function	Auto Negotiation	Speed	Duplex	Pause	Frame Forwarding	Learning Capability
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Select Port NO.	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>					
<input type="button" value="Submit"/>						

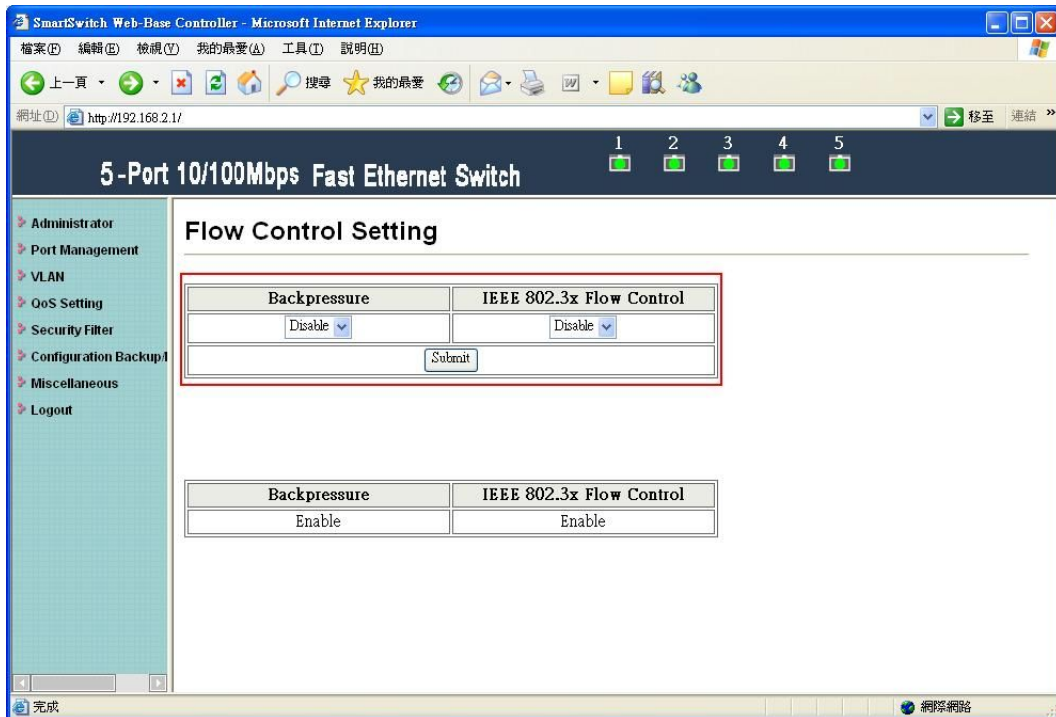
  

Port No.	Current Status			Setting Status					
	Link	Speed	Duplex	Auto Negotiation	Speed	Duplex	Pause	Frame Forwarding	Learning Capability
1	<input checked="" type="checkbox"/>	100	Full	Enable	100	Full	Enable	Enable	Enable
2	<input checked="" type="checkbox"/>	10	Half	Enable	10	Half	Disable	Enable	Enable
3	<input checked="" type="checkbox"/>	100	Full	Enable	100	Full	Enable	Enable	Enable

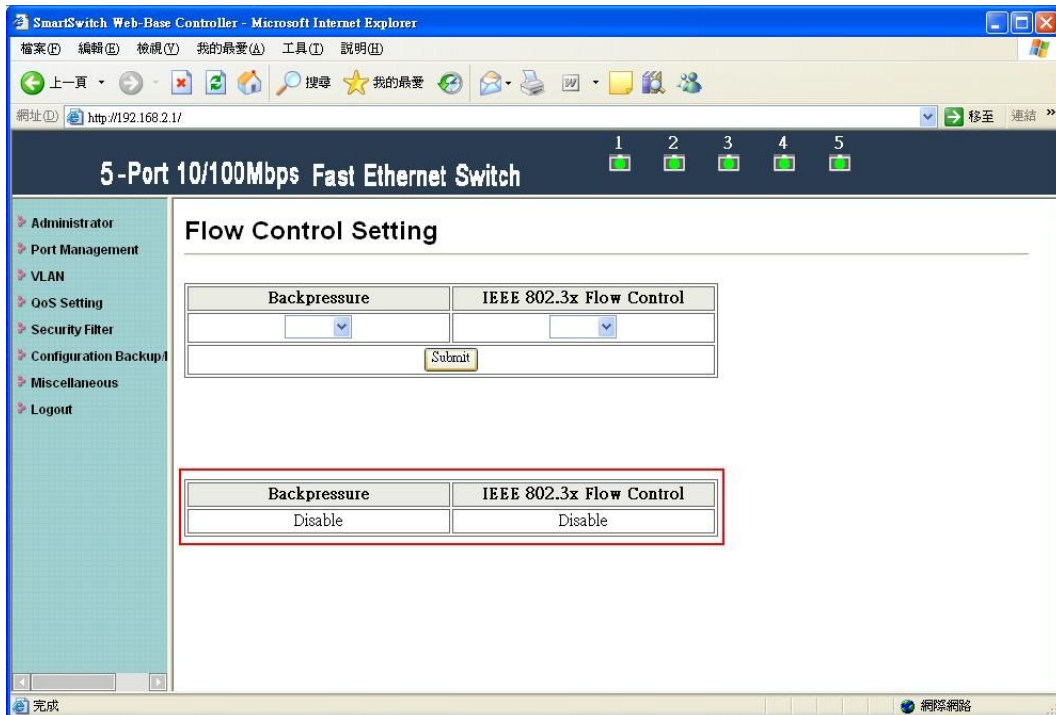
The setting will be reflected at current status window.

## 2.2 Flow control setting

This page allows the user to enable or disable flow control function.



Change backpressure and IEEE 802.3x flow control into disabling. Then press “Submit” button.



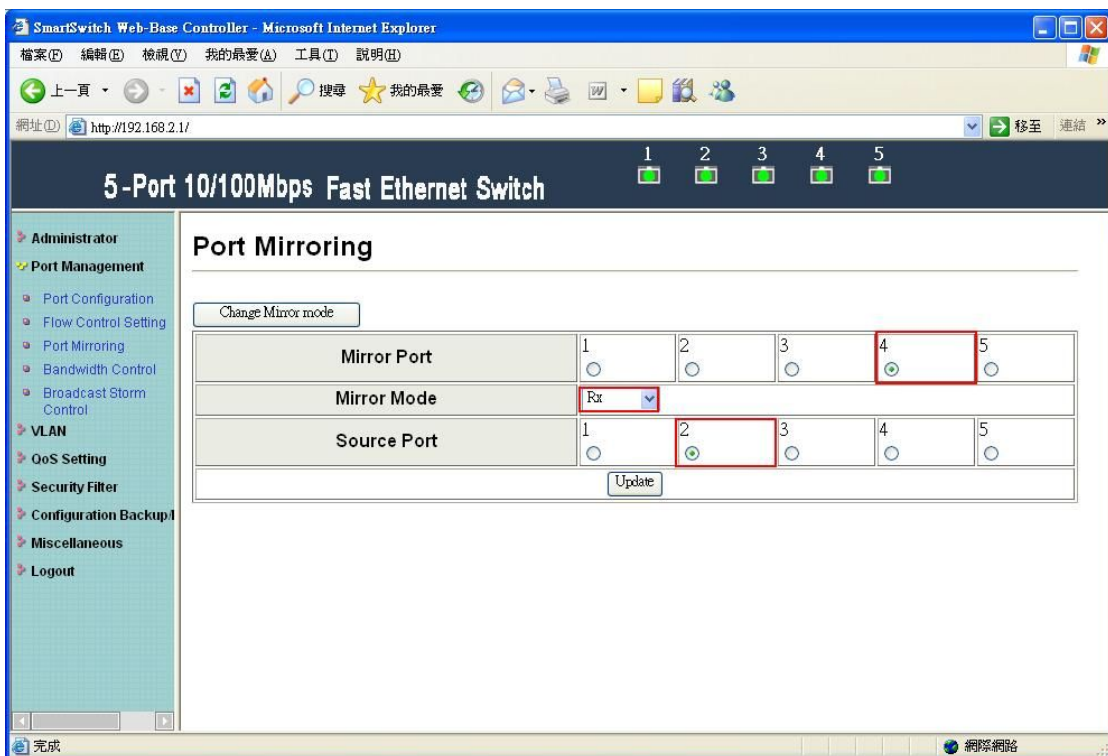
The setting will be reflected at current status window.

## 2.3 Port mirroring

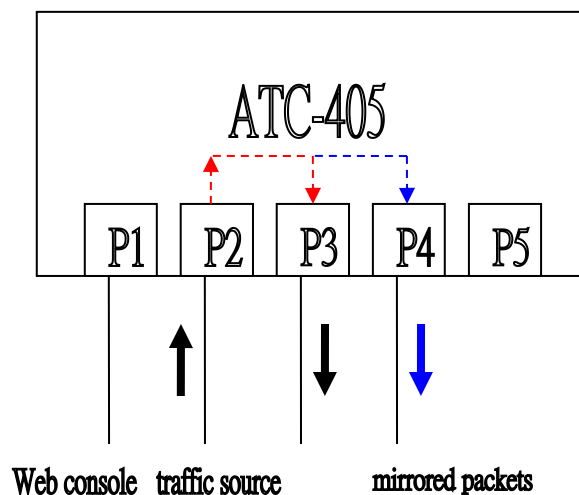
The port mirroring function is accomplished by setting the following items.

- (a) Mirror port: Select a mirror port to monitor the traffic source.
- (b) Mirror mode: (1)Disable: means this function is disabled. (2)RX: means copy the incoming packets of the selected source port to the selected mirror port. (3)TX: means copy the outgoing packets of the selected source port to the selected mirror port. (4)RX & TX: one port of TX & RX must be the same.
- (c) Source port: the traffic source that will be copied to the mirror port.
- (d) Mirror source-destination pair (press "Change mirror mode" button): one port of TX & RX must be the different.

### RX (ingress packets)



Set port2 as source port and port4 as mirror port.



The SmartBits transmits packets to port 2.

The image shows two windows from a network management application. The top window, 'SmartWindow - (untitled)', displays a configuration table for a network interface. The bottom window, 'SmartCounters - [Port Counters for 4 ports - (untitled)\*]', shows a table of statistics for four ports (30, 31, 32, 33).

**SmartWindow Configuration:**

Transmit Status	Trigger	Collision	Receive	Crc Error	Mode Speed Link	Card Type	SmartBits
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	21
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	22
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	23
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	24
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	25
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	26
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	27
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	28
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full 100 AN	7410	30
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full 100 AN	7410	31
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full 100 AN	7410	32
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full 100 AN	7410	33
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full 100 AN	7410	34
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	36
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	37
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7410	38
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7710	39
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half 10	7710	40

SmartWindow Status: Single Burst, OnLine, IP=192.168.008.042, Port=16385

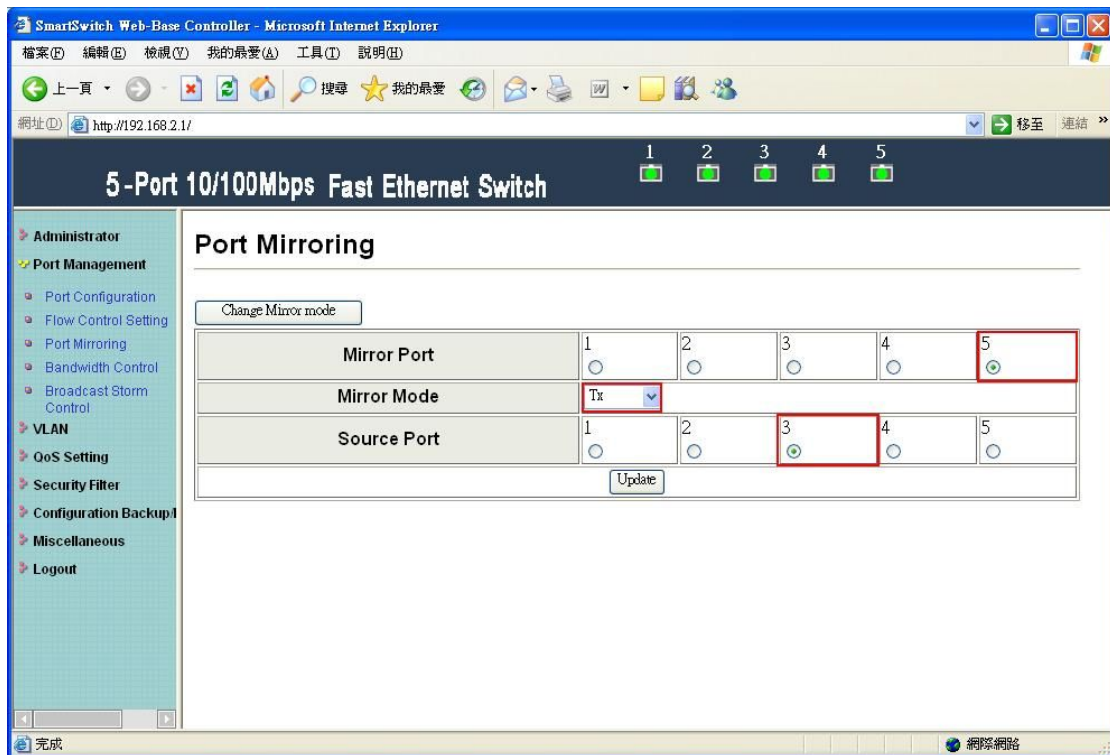
**SmartCounters Statistics:**

Port	Tx Frames	Rx Frames	Rx Bytes	Rx Triggers	Collisions	CRC Errors	Alignment Errors	OverSize	Frag/UnderSize
30 SX-7410	10,000	0	0	0	0	0	0	0	0
31 SX-7410	0	10,000	10,000	10,000	0	0	0	0	0
32 SX-7410	0	640,000	640,000	0	0	0	0	0	0
33 SX-7410	0	0	0	0	0	0	0	0	0

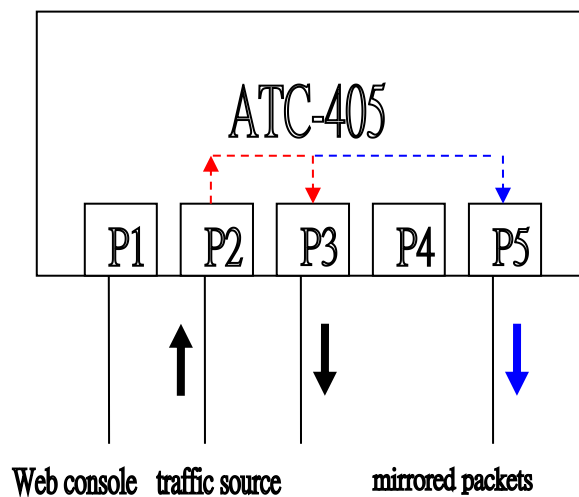
When port2 forwards unicast packets to port3, ATC-405 will copy ingress packets of port2 to port4.

**TX (egress packet)**





Set port3 as source port and port5 as mirror port.



The SmartBits transmits packets to port2.

**SmartWindow - (untitled)**

Transmit Status	Trigger	Collision	Receive	Crc Error	Mode	Speed	Link	Card Type	SmartBQs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	21
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	22
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	23
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	24
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	25
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	26
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	27
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	28
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full	100	AN	7410	30
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full	100	AN	7410	31
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full	100	AN	7410	32
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full	100	AN	7410	33
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full	100	AN	7410	34
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	36
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	37
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	38
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7710	39
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7710	40

Single Burst      OnLine IP=192.168.008.042 Port=16385

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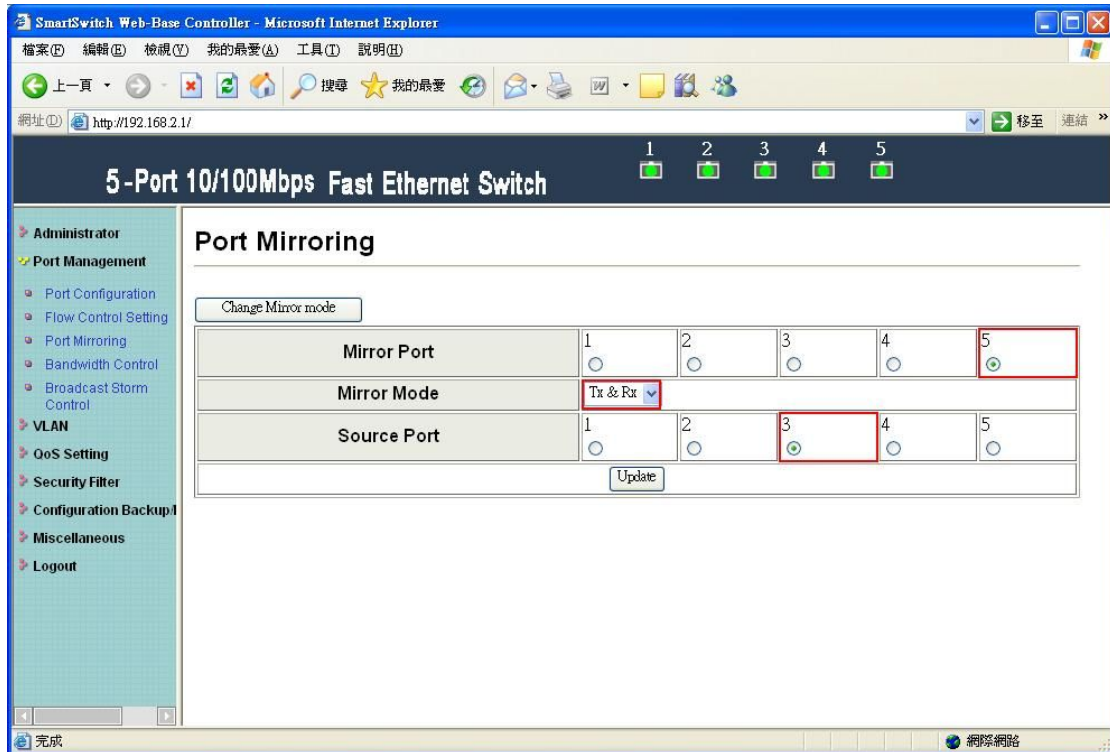
**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

All Ports	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	0	0	0
Rx Frames	0	10,000	0	10,000
Rx Bytes	0	640,000	0	640,000
Rx Triggers	0	10,000	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

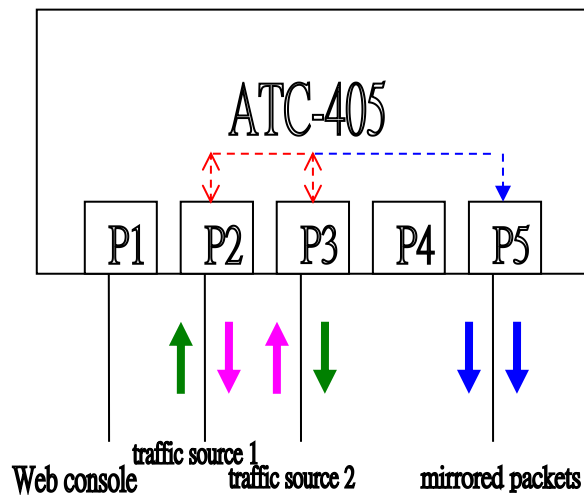
Counters for 4 ports      Events Only      Detail View      Updating

When port2 forwards packets to port3, ATC-405 will copy egress packets of port3 to port5.

## TX and RX (one port of TX & RX must be the same)



Set port3 as source port and port5 as mirror port.



Traffic 1 and traffic 2 separately transmit packets to port2 and port3 at the same time.

The image shows two windows from a network management application. The top window, 'SmartWindow - (untitled)', displays a configuration grid for network cards. The bottom window, 'SmartCounters - [Port Counters for 4 ports - (untitled)\*]', shows a table of statistics for four ports (30, 31, 32, 33).

**SmartWindow Configuration:**

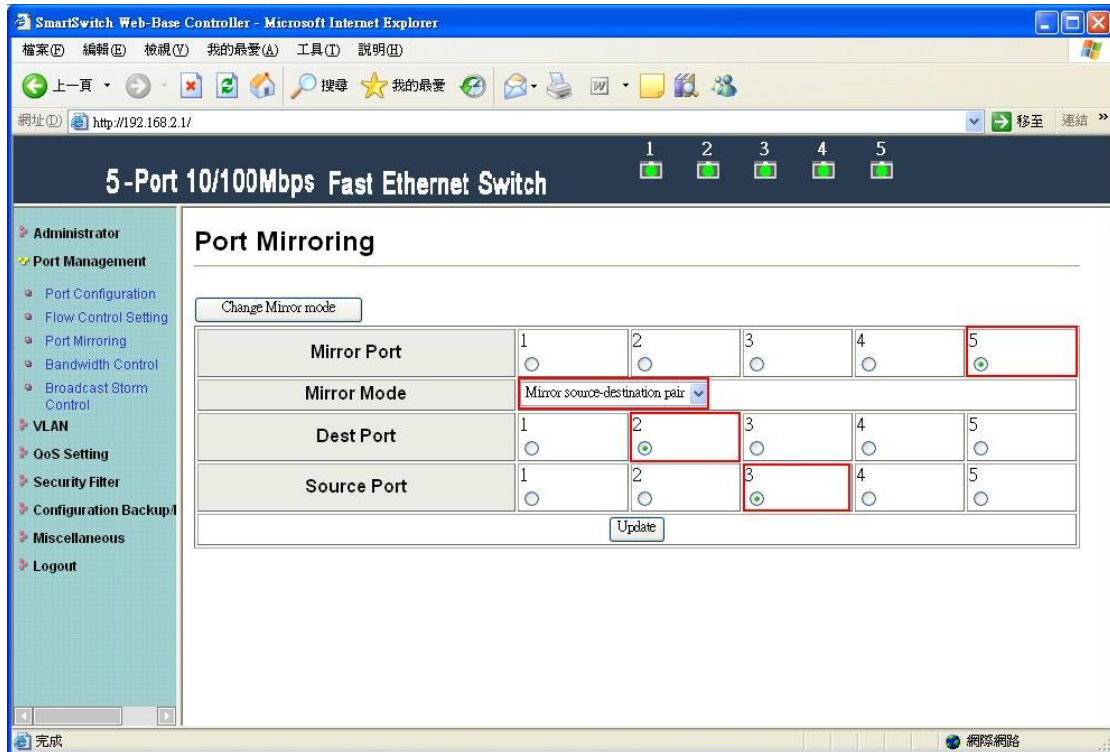
Transmit Status	Trigger	Collision	Receive	Crc Error	Mode	Speed	Link	Card Type	SmartBills
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	21
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	22
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	23
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	24
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	25
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	26
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	27
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	28
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	30
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	31
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	32
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	33
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100		7410	34
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	36
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	37
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	38
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7710	39
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7710	40

**SmartCounters Statistics Table:**

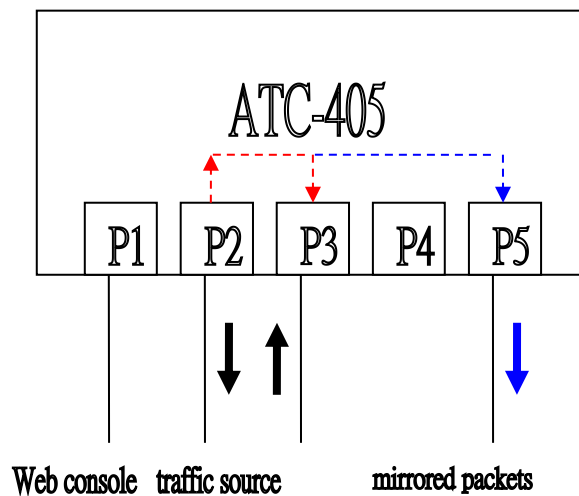
	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	10,000	0	0
Rx Frames	11,528	11,528	0	20,000
Rx Bytes	737,792	737,792	0	1,280,000
Rx Triggers	10,000	10,000	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

ATC-405 copies egress and ingress packets of port3 to port5.

## TX and RX (one port of TX & RX must be the different)



After changing mirror mode, set port3 as source port, port2 as destination port and port5 as mirror port.



The SmartBits transmits packets to port3.

The image shows two software windows. The top window, 'SmartWindow - (untitled)', displays configuration for network ports. The bottom window, 'SmartCounters - [Port Counters for 4 ports - (untitled)\*]', shows a table of statistics for four ports.

Port	Mode	Speed	Link	Card Type	SmartBils
30	Half 10	10		7410	21
31	Half 10	10		7410	22
32	Half 10	10		7410	23
33	Half 10	10		7410	24
34	Full 100	100		7410	25
35	Full 100	100		7410	26
36	Full 100	100		7410	27
37	Full 100	100		7410	28
38	Half 10	10		7410	36
39	Half 10	10		7410	37
40	Half 10	10		7710	38
41	Half 10	10		7710	39
42	Half 10	10		7710	40

Events	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	0	10,000	0	0
Rx Frames	10,000	0	0	10,000
Rx Bytes	640,000	0	0	640,000
Rx Triggers	10,000	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

When port3 forwards packets to port2, ATC-405 will copy packets of the path to port5.

## 2.4 Bandwidth Control

This page allows the setting of the bandwidth for each port. The TX rate and Rx rate can be filled with the number ranging 0 to 3124 (0 for 100Mbps).

### TX bandwidth

The screenshot shows the 'Bandwidth Control' page for a 5-Port 10/100Mbps Fast Ethernet Switch. The interface includes a navigation menu on the left and a main configuration area. The 'Port No' dropdown is set to 5. The 'Tx Rate' field contains '1000' and the 'Rx Rate' field is empty. Below the form is a table showing the current bandwidth settings for all ports.

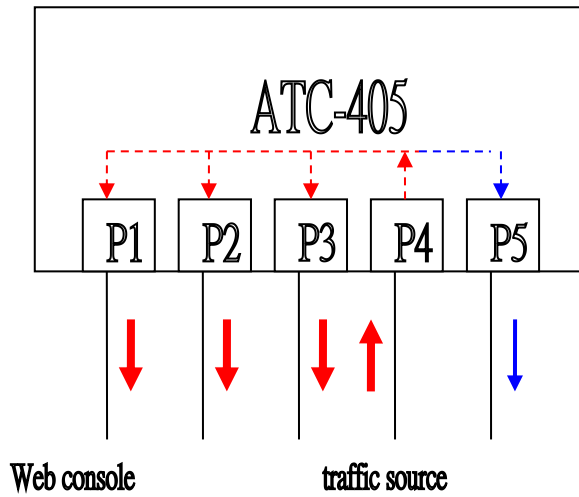
Port No	Tx Rate	Rx Rate
1	100Mbps	100Mbps
2	100Mbps	100Mbps
3	100Mbps	100Mbps
4	100Mbps	100Mbps
5	100Mbps	100Mbps

Fill in the blank of TX rate of port5 with 1000(x32Kbps) and press "Update" button.

The screenshot shows the 'Bandwidth Control' page after the update. The 'Port No' dropdown is set to 1. The 'Tx Rate' field is empty, and the 'Rx Rate' field is empty. Below the form is a table showing the updated bandwidth settings for all ports.

Port No	Tx Rate	Rx Rate
1	100Mbps	100Mbps
2	100Mbps	100Mbps
3	100Mbps	100Mbps
4	100Mbps	100Mbps
5	32.000Mbps	100Mbps

After updating, 32Mbps is displayed in the TX rate of port5.



The SmartBits transmits broadcast packets to port4.

**SmartWindow - (untitled)**

Transmit Status	Trigger Collision	Receive CRC Error	Mode	Speed	Link	Card Type	SmartBits
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	21
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	22
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	23
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	24
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	25
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	26
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	27
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	28
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Full	100	AN	7410	30
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Full	100	AN	7410	31
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Full	100	AN	7410	32
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Full	100	AN	7410	33
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full	100		7410	34
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	36
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	37
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7410	38
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7710	39
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Half	10		7710	40

OnLine IP=192.168.008.042 Port=16385

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**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

All Ports	Rates	Rates	Rates	Rates
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	0	0	148,809	0
Rx Frames	148,805	148,805	0	61,059
Rx Bytes	9,523,532	9,523,526	0	3,907,243
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports      Rates Only      Detail View      Updating

The RX bytes filed of 33-SX-7410 for port5 is 3907243 bytes. It is close to 32Mbps.



## RX bandwidth

The screenshot shows the SmartSwitch Web-Base Controller interface in Microsoft Internet Explorer. The page title is "5-Port 10/100Mbps Fast Ethernet Switch". The left sidebar contains a navigation menu with options like Administrator, Port Management, VLAN, OoS Setting, Security Filter, Configuration Backup, Miscellaneous, and Logout. The main content area is titled "Bandwidth Control".

At the top, there are five status indicators for ports 1 through 5, all showing green lights. Below this, the "Bandwidth Control" section features a table with columns for "Port No", "Tx Rate", and "Rx Rate". The "Port No" dropdown is set to "4". The "Tx Rate" field is empty, with a range of "(0~3124) x32Kbps" and a note "0 for 100Mbps". The "Rx Rate" field contains "100", also with a range of "(0~3124) x32Kbps" and a note "0 for 100Mbps". Below the table are "Update" and "LoadDefault" buttons.

Below the configuration table is a summary table showing the current settings for all ports:

Port No	Tx Rate	Rx Rate
1	100Mbps	100Mbps
2	100Mbps	100Mbps
3	100Mbps	100Mbps
4	100Mbps	100Mbps
5	100Mbps	100Mbps

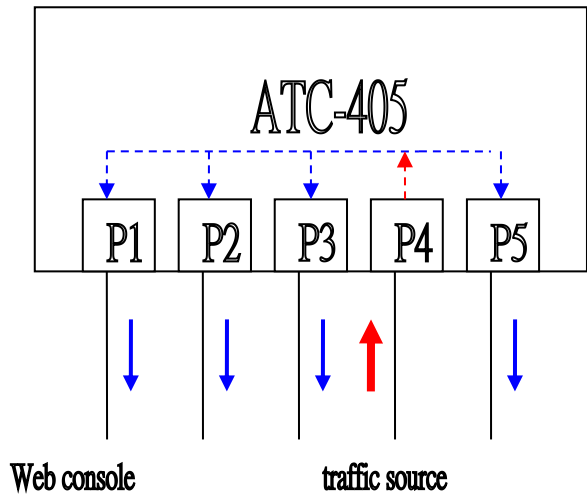
Fill in the blank of RX rate of port4 with 100(x32Kbps) and press "Update" button.

This screenshot shows the same SmartSwitch Web-Base Controller interface after the update. The "Port No" dropdown is now set to "1". The "Rx Rate" field for port 4 in the summary table is now "3.200Mbps", highlighted with a red box.

The configuration table for port 4 now shows the updated RX rate:

Port No	Tx Rate	Rx Rate
1	100Mbps	100Mbps
2	100Mbps	100Mbps
3	100Mbps	100Mbps
4	100Mbps	3.200Mbps
5	100Mbps	100Mbps

After updating, 3.2Mbps is displayed in the RX rate of port4.



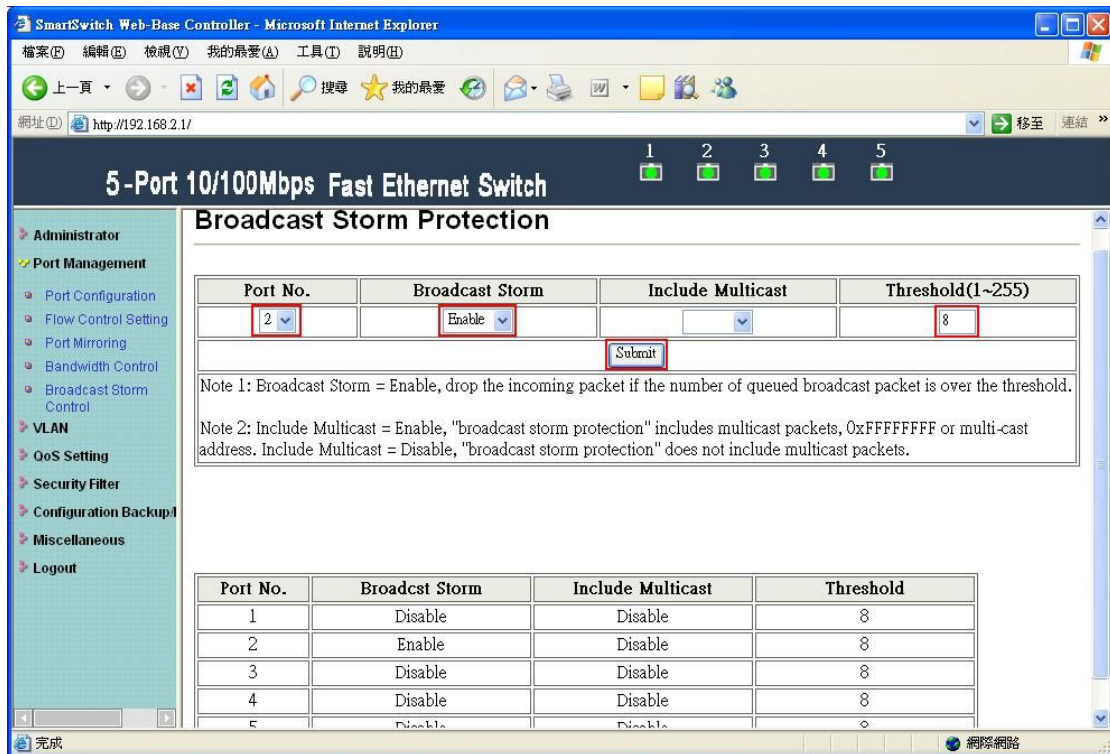
The SmartBits transmits broadcast packets.

Port	Rx Frames	Rx Bytes	Rx Triggers	Collisions	CRC Errors	Alignment Errors	OverSize	Frag/UnderSize
30 SX-7410	0	402,321	0	0	0	0	0	0
31 SX-7410	6,286	402,321	0	0	0	0	0	0
32 SX-7410	0	0	0	0	0	0	0	0
33 SX-7410	0	402,321	0	0	0	0	0	0

The RX bytes filed of 30~33-SX-7410 is about 402321 bytes. It is close to 3.2Mbps.

## 2.5 Broadcast Storm Control

The broadcast storm control is used to block the excessive broadcast packets, the threshold ranging from 1 to 255.



The broadcast storm of the port2 is enabled and threshold is set to 8. The broadcast packets will be dropped when broadcast packets are more than threshold setting (packet length is 64 bytes).

## 100M mode

	Delta(uSec)	Status	Length	Pream	MAC dest	MAC src	type	data
25	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	ec e0	bc f1 10 bb 34 1f 4
26	10006.2		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	68 a1	23 c1 5e 25 a8 a6
27	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	65 c3	ff 44 c2 17 c4 fe 0f
28	6.8		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	de 00	3f 87 1f 0c d9 80 1
29	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	b7 21	9a 35 b7 c4 3e 0d
30	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	dd 8d	e0 c9 73 60 18 07
31	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	37 b3	31 7c 54 87 90 dc
32	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	24 7a	1a 2a 63 05 99 3f :
33	6.8		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	c2 b3	a6 d6 1c c1 57 de
34	10006.1		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	2e a0	15 a0 ba 7a 12 50
35	6.8		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	89 20	bd 4a 13 d7 ef 69 .
36	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	a5 0c	fd df 36 9d 63 58 7
37	6.9		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	cf bc	4c e3 53 f4 6e 4b l
38	6.8		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	64 ba	f3 30 d8 56 2b b4 :
39	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	f0 72	ca 80 2b a6 5e 05
40	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	01 34	b4 1b ba 13 c9 e0
41	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	80 42	66 ee 8f 22 03 29 l
42	10006.2		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	89 0b	ec ea 91 71 e2 02
43	6.7		64	64	ff ff ff ff ff ff	00 00 00 00 00 01	02 a6	e0 95 a1 b0 7b 16

The smart bit transmits broadcast packets to port2. Port2 of ATC-405 will drop excessive packets if the broadcast packets get up to threshold value in unit time. Unit time: 10ms for 100Mbps mode.

## 10M mode

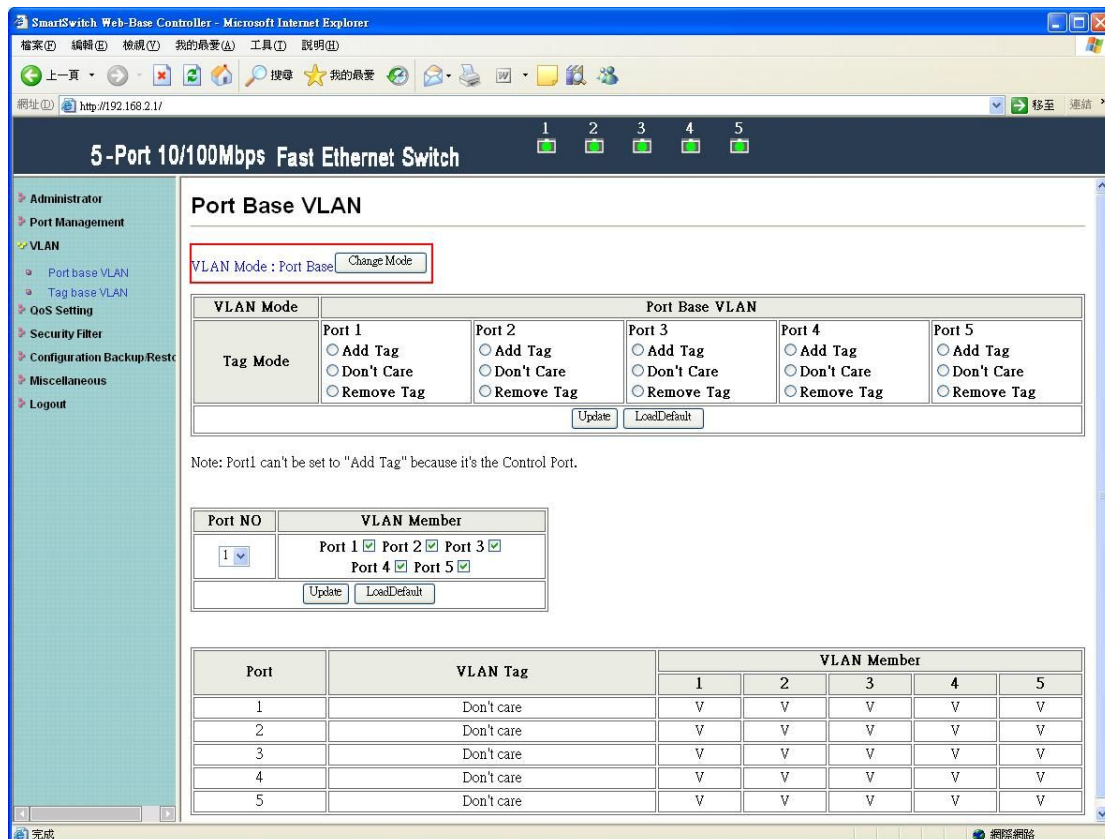
	Delta(uSec)	Status	Length	Pream	MAC dest	MAC src	type	data
8	67.1		64	64	ff ff ff ff ff	00 00 00 00 00 01	4c c8	b5 54 84 07 dc df
9	100061.9		64	64	ff ff ff ff ff	00 00 00 00 00 01	22 6c	70 09 b8 71 83 92
10	67.1		64	64	ff ff ff ff ff	00 00 00 00 00 01	03 5b	95 e9 6b eb dc 97
11	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	ef 2f	c6 af 14 37 4d b6
12	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	24 ea	37 62 ca 24 23 8e
13	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	7f d8	24 de c4 02 9f dd
14	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	a8 7f	b6 1a 6e 51 15 da
15	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	f1 bd	57 9c 17 da 87 c8
16	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	d9 71	f8 10 8d a0 7f 63
17	100062.0		64	64	ff ff ff ff ff	00 00 00 00 00 01	ca 69	27 1e 4d dc 14 90
18	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	ab 92	dc 64 6c f5 68 b0
19	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	27 6e	53 ac da 9b 13 6e
20	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	47 5d	8f ca c8 91 36 a4
21	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	79 14	a4 25 fe fb a6 7b
22	67.1		64	64	ff ff ff ff ff	00 00 00 00 00 01	c4 b4	83 b5 db 50 8f 72
23	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	75 20	29 74 5b 1f 00 e3
24	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	db 35	15 42 16 42 ff 84
25	100061.8		64	64	ff ff ff ff ff	00 00 00 00 00 01	3c 07	9c c2 d0 df e6 2c
26	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	de 5d	a9 57 e8 3e aa 08

The smart bit transmits broadcast packets to port2. Port2 will drop excessive packets in unit time. Unit time: 100ms for 10Mbps mode.

## 3 VLAN Setting

### 3.1 VLAN mode

ATC-405 supports two VLAN modes, tag based and port based. When the port based VLAN is selected, the tag setting will be useless. When the tag based or port based VLAN is selected, the user can define the handling method of a VLAN tag to the specified port, including “add a VLAN tag”, “remove a VLAN tag” or “don’t care” about VLAN tag.

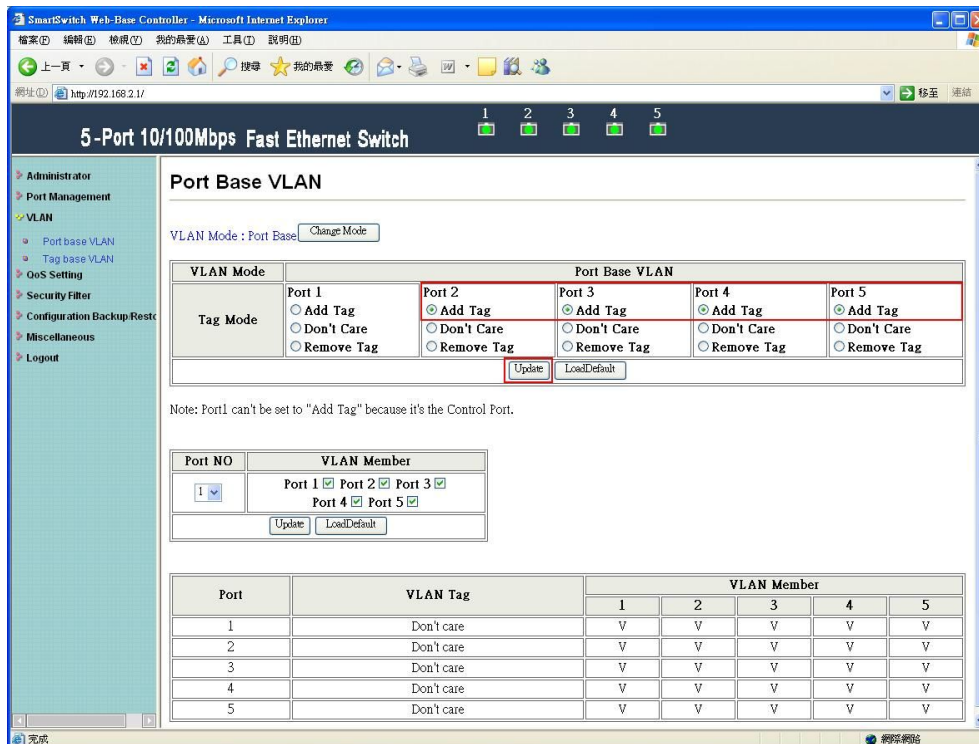


VLAN mode supports port based and tag based mode. Press “Change Mode” button to change VLAN mode.

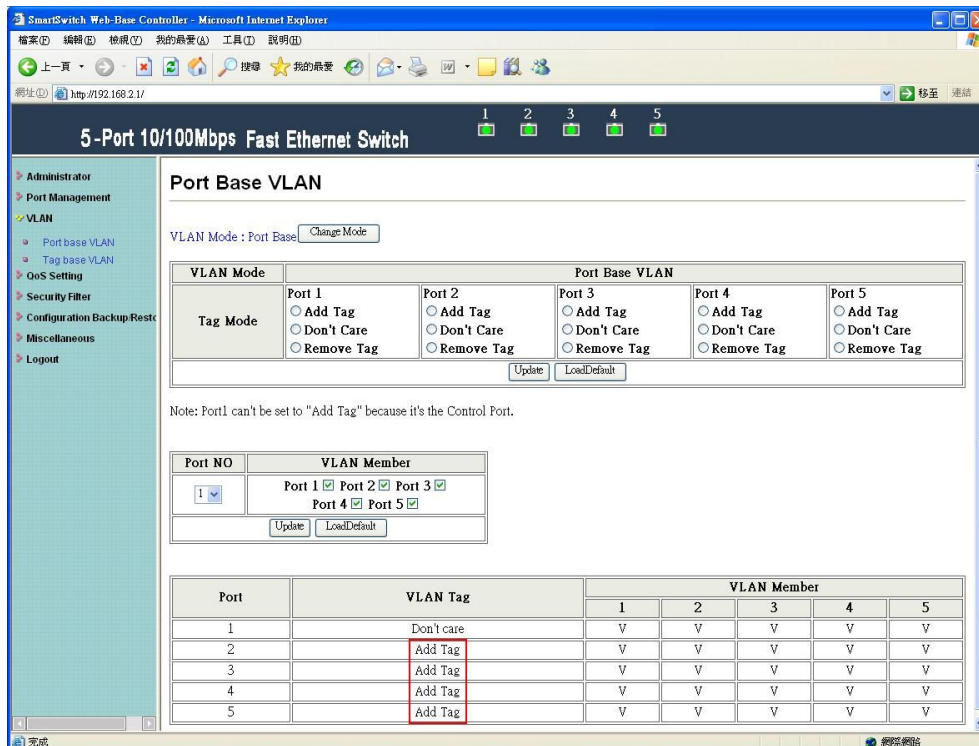
The egress packets of the output port will be added tag if add tag option is selected. The egress packets of the output will be stripped tag if remove tag option is selected. Don't care means the egress packets of the output port only forward to destination without adding or removing tag.

## 3.2 Port based VLAN

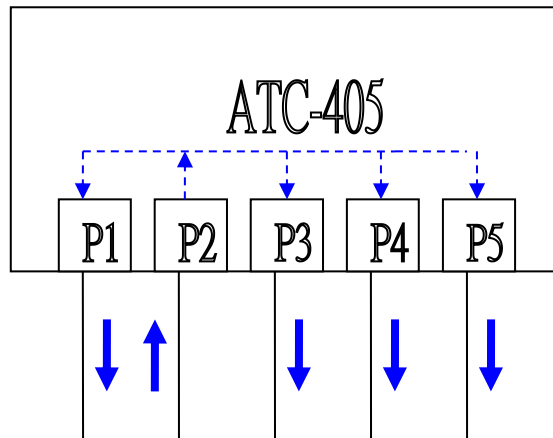
### Add tag



Select "add tag" for port2~5 and press "Update" button.



After updating, the message of "add tag" is showed in VLAN tag field.



Web console traffic source

The SmartBits transmits 64byte broadcast packets without tag to port2.

**SmartWindow - (untitled)**

Transmit Status	Trigger	Collision	Receive	Crc Error	Mode	Speed	Link	Card Type	SmartBits
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	21
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	22
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	23
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	24
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	25
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	26
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	27
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	28
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	30
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	31
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	32
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	33
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	34
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	36
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	37
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	38
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7710	39
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7710	40

OnLine IP=192.168.008.042 Port=16385

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**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

All Ports	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	0	0	0
Rx Frames	0	10,000	10,000	10,000
Rx Bytes	0	680,000	680,000	680,000
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

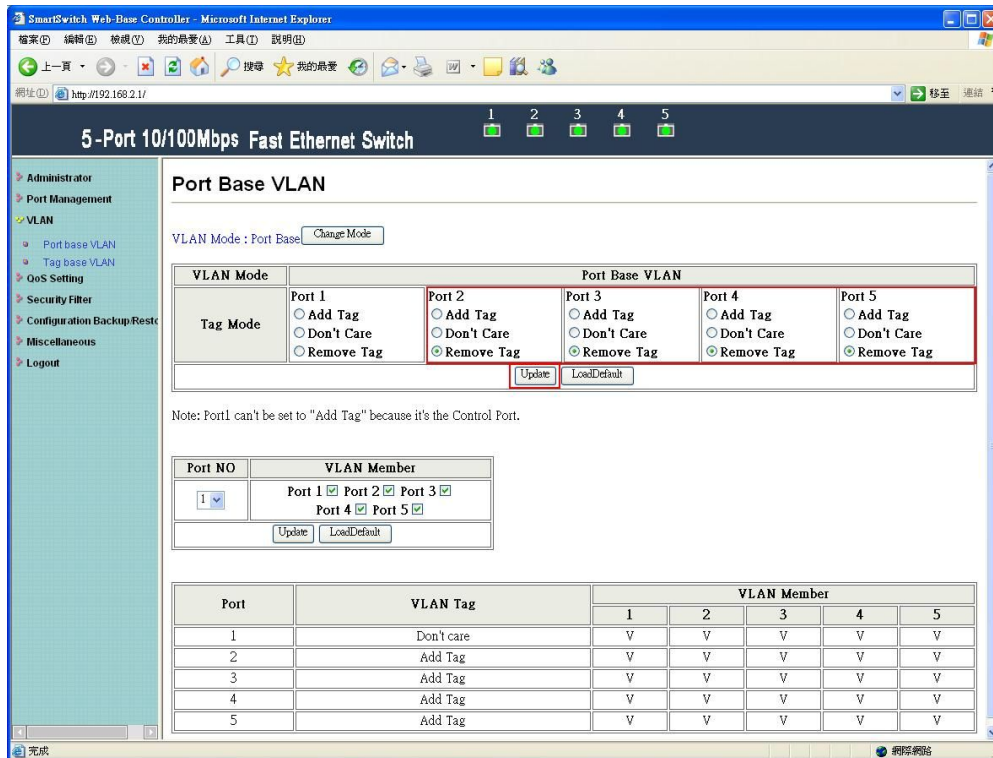
Counters for 4 ports      Events Only      Detail View      Updating



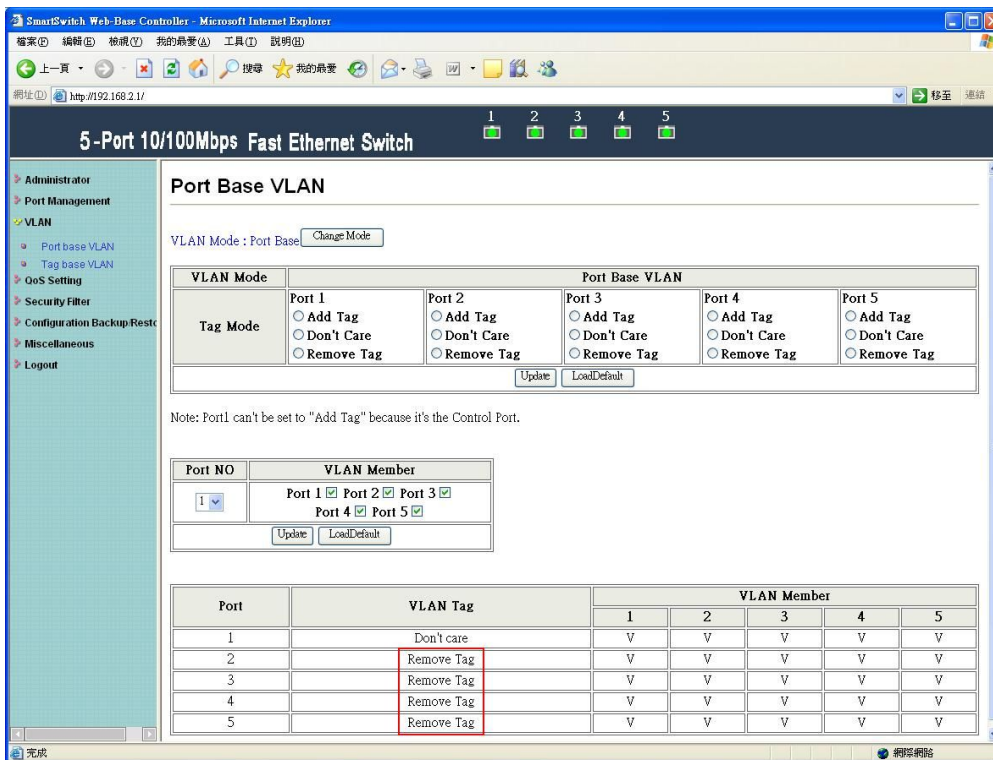
	Delta(uSec)	Status	Length	Pream	MAC dest	MAC src	type	data
1	0.0		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	67 2e ff be 7
2	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	b2 bf 4d 58 :
3	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	7c ab bb 68
4	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	95 5f af 83 e
5	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	c9 2c af c8 l
6	67.4		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	10 96 b2 bf l
7	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	24 7c c4 2a
8	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	7f 1c 1f c6 C
9	67.1		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	e9 75 65 1c
10	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	a0 10 cc ba
11	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	d0 a3 e3 dc
12	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	0c f1 1a b6 l
13	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	3b 0d 2f a5 i
14	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	61 44 5d 6d
15	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	30 ea c4 4b
16	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	cc 08 ac 4d
17	67.1		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	4b d1 dd 73
18	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	88 be 76 06
19	67.2		68	64	ff ff ff ff ff ff	00 00 00 00 00 01	81 00 00 01	9d aa 64 eb

The captured packets of 31 SX-7410 are added tag with 8100 0001.

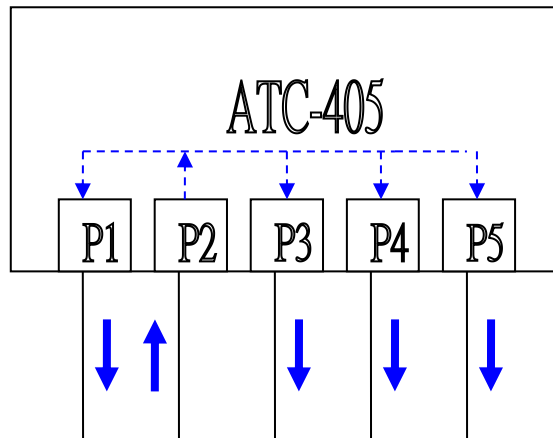
## Remove tag



Select "remove tag" for port2-5 and press "Update" button.



After updating, the message of "remove tag" is showed in the VLAN tag field.



Web console traffic source

The SmartBits transmits 68byte broadcast packets with 8100 0001 to port2.

**SmartWindow - (untitled)**

Transmit Status	Trigger	Collision	Receive	Crc Error	Mode	Speed	Link	Card Type	SmartBits
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	21
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	22
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	23
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	24
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	25
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	26
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	27
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	28
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	30
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	31
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	32
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	33
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	34
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	36
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	37
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	38
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7710	39
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7710	40

Single Burst      OnLine IP=192.168.008.042 Port=16385

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**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

All Ports	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	0	0	0
Rx Frames	0	10,000	10,000	10,000
Rx Bytes	0	640,000	640,000	640,000
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports      Events Only      Detail View      Updating

	Delta(uSec)	Status	Length	Pream	MAC dest	MAC src	type	data
1	0.0		64	64	ff ff ff ff ff	00 00 00 00 00 01	e0 3d	66 18 76 5a 97 42
2	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	1e 8a	14 0c ec 56 76 99
3	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	fe cb	ca 1b b2 6e 49 00
4	67.1		64	64	ff ff ff ff ff	00 00 00 00 00 01	4a d7	fa f7 eb da af f6 0e
5	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	ea ac	4a 02 5b af 6d 8b l
6	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	33 bc	a7 dd eb c5 f9 36 .
7	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	31 11	4e 37 e3 ee 2c 86
8	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	c3 d0	ff 62 0c 37 3b ae f
9	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	bd cc	70 df bd 29 eb e7 .
10	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	fe 78	b6 73 89 e1 bf 52 !
11	67.1		64	64	ff ff ff ff ff	00 00 00 00 00 01	ae e3	9f b1 f6 69 0e 23 e
12	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	e5 47	ce 4d 82 1f 40 7c .
13	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	f8 2f	06 40 0c 8c 7d 46
14	67.4		64	64	ff ff ff ff ff	00 00 00 00 00 01	d3 a3	15 1a 7c 92 55 88
15	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	9f d8	d0 d9 bc 2c 88 63
16	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	0a 5d	86 7d 48 6d d4 5d
17	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	a1 ab	5f d6 fc 5a 6f 11 1
18	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	6d 0b	94 cc 61 4f fd ed f
19	67.2		64	64	ff ff ff ff ff	00 00 00 00 00 01	6c 70	a7 b8 d9 f5 3a 18 l

The captured packets of 31 SX-7410 are removed tag.

## VLAN member setting

SmartSwitch Web-Base Controller - Microsoft Internet Explorer

5-Port 10/100Mbps Fast Ethernet Switch

Administrator

Port Management

VLAN

Port base VLAN

Tag base VLAN

OoS Setting

Security Filter

Configuration Backup/Restore

Miscellaneous

Logout

Port Base VLAN

VLAN Mode : Port Base

VLAN Mode	Port Base VLAN				
Tag Mode	Port 1 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 2 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 3 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 4 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 5 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag

Note: Port1 can't be set to "Add Tag" because it's the Control Port.

Port NO	VLAN Member
2	Port 1 <input checked="" type="checkbox"/> Port 2 <input checked="" type="checkbox"/> Port 3 <input checked="" type="checkbox"/> Port 4 <input type="checkbox"/> Port 5 <input type="checkbox"/>

Port	VLAN Tag	VLAN Member				
		1	2	3	4	5
1	Don't care	V	V	V	V	V
2	Remove Tag	V	V	V	V	V
3	Remove Tag	V	V	V	V	V
4	Remove Tag	V	V	V	V	V
5	Remove Tag	V	V	V	V	V

Choose port1-3 as VLAN members of port2 and press "Update" button.

SmartSwitch Web-Base Controller - Microsoft Internet Explorer

5-Port 10/100Mbps Fast Ethernet Switch

Administrator

Port Management

VLAN

Port base VLAN

Tag base VLAN

OoS Setting

Security Filter

Configuration Backup/Restore

Miscellaneous

Logout

Port Base VLAN

VLAN Mode : Port Base

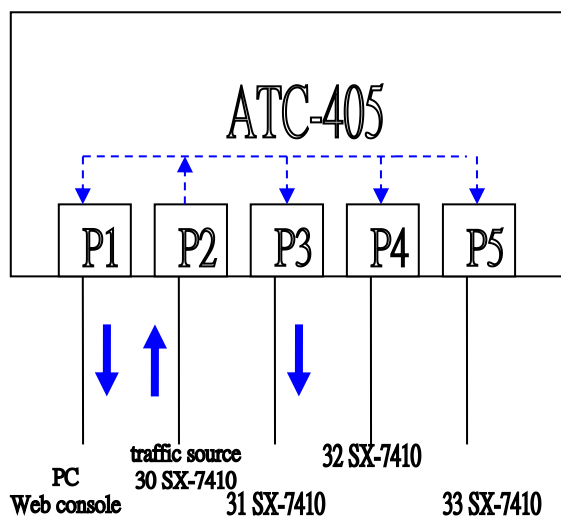
VLAN Mode	Port Base VLAN				
Tag Mode	Port 1 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 2 <input checked="" type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 3 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 4 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag	Port 5 <input type="radio"/> Add Tag <input type="radio"/> Don't Care <input type="radio"/> Remove Tag

Note: Port1 can't be set to "Add Tag" because it's the Control Port.

Port NO	VLAN Member
1	Port 1 <input checked="" type="checkbox"/> Port 2 <input checked="" type="checkbox"/> Port 3 <input checked="" type="checkbox"/> Port 4 <input type="checkbox"/> Port 5 <input type="checkbox"/>

Port	VLAN Tag	VLAN Member				
		1	2	3	4	5
1	Don't care	V	V	V	V	V
2	Remove Tag	V	V	V	-	-
3	Remove Tag	V	V	V	V	V
4	Remove Tag	V	V	V	V	V
5	Remove Tag	V	V	V	V	V

After updating, VLAN member field appears that port1-3 are in the same VLAN group.



The SmartBits transmits 64byte broadcast packets.

**SmartWindow - (untitled)**

Transmit Status	Trigger	Collision	Receive	Crc Error	Mode-Speed-Link	Card Type	SmartBits	SMB GROUP
					Half 10	7410		
					Half 10	7410		
					Half 10	7410		
					Half 10	7410		
					Half 10	7410		
					Half 10	7410		
					Half 10	7410		
					Full 100 AN	7410	Burst	
					Full 100 AN	7410	Burst	
					Full 100 AN	7410	Start	
					Full 100 AN	7410	Start	
					Half 10	7410		
					Half 10	7410		
					Half 10	7710		
					Half 10	7710		
								#2

OnLine IP=192.168.008.042 Port=16385

---

**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

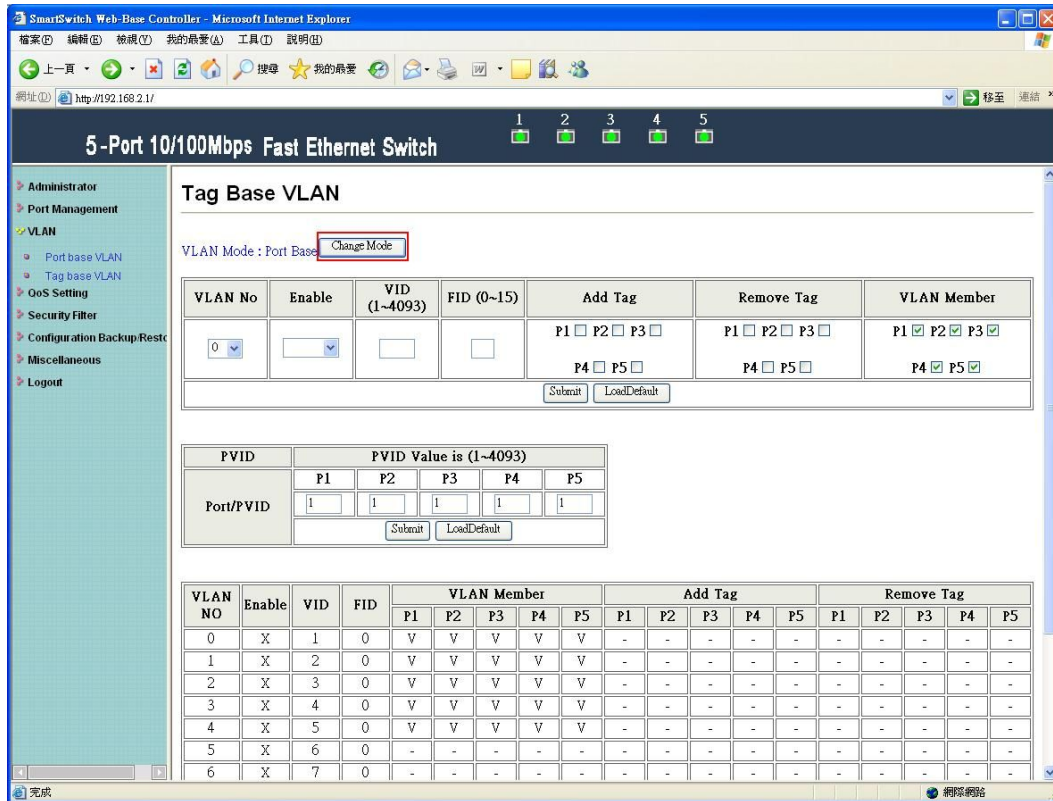
All Ports	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	0	0	0
Rx Frames	0	10,000	0	0
Rx Bytes	0	640,000	0	0
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports Events Only Detail View Updating

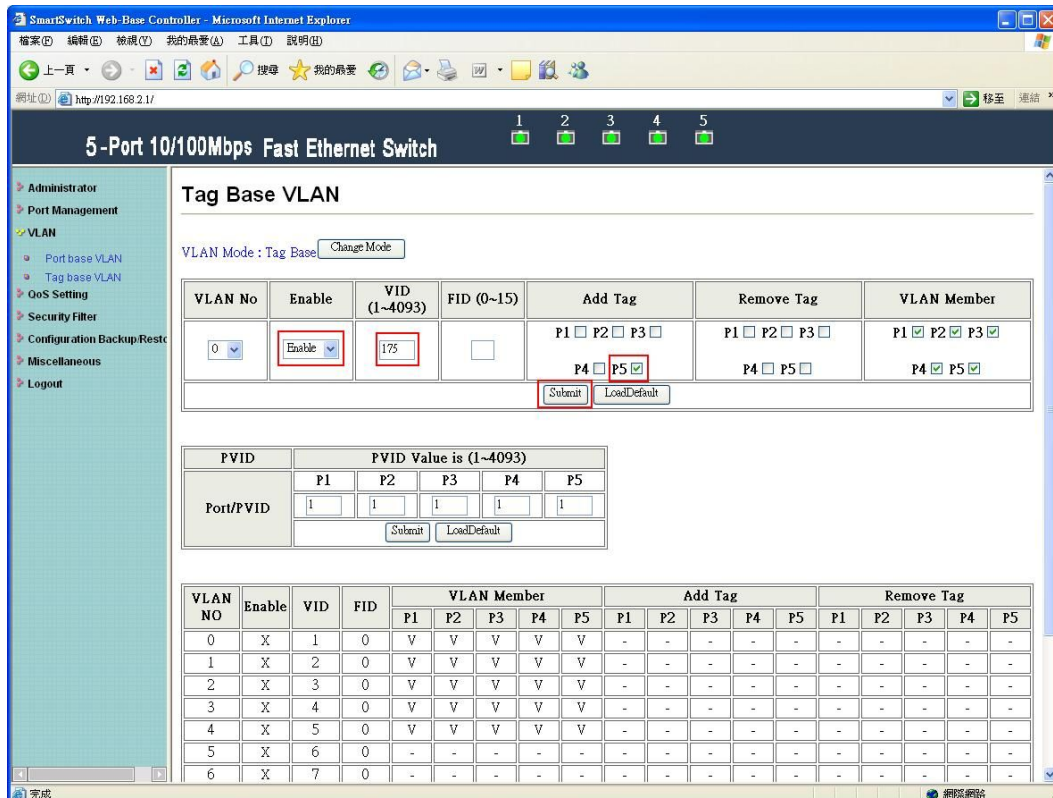
Port4 and port5 have not received any packets.

### 3.3 Tag based VLAN

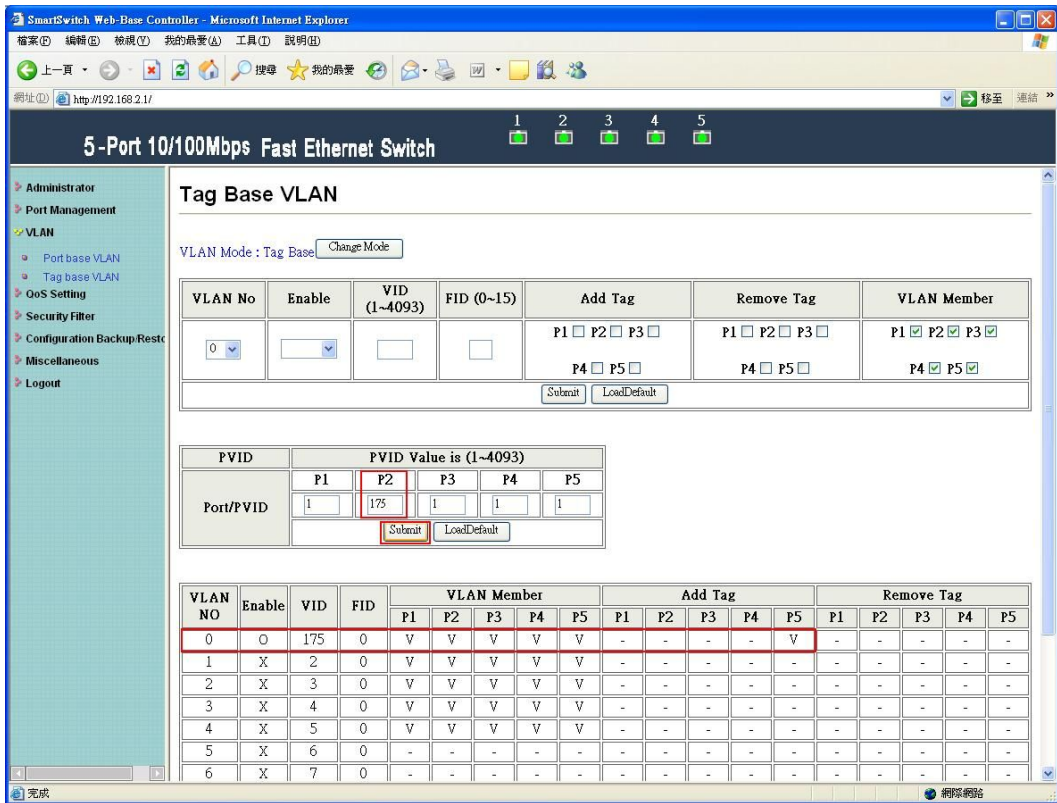
This page is used to set the VLAN ID. The VLAN ID is valid only when the tag based VLAN is enabled. In port based VLAN mode, the VLAN ID is useless.



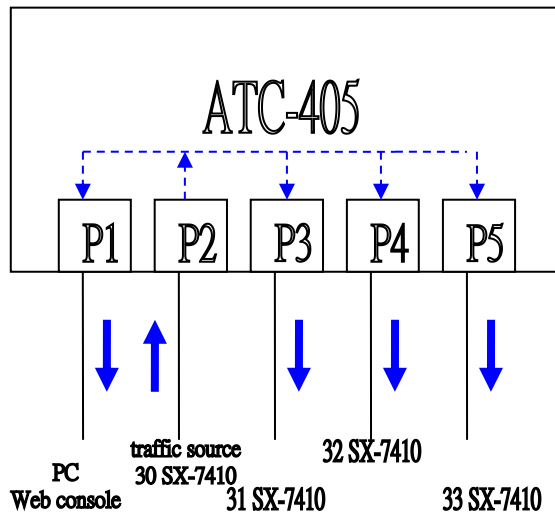
Press "Change Mode" button to use tag based VLAN.



Enable VLAN 0, VID=175 and p5 is added tag. Then press "Submit" button.



Set PVID of p2 to be 175 and press "Submit" button.



The SmartBits transmits 64byte broadcast packets.



SmartWindow - (untitled)

File Edit Actions Options Tests Admin View Help

Transmit Status Trigger Collision Receive Crc Error Mode Speed Link Card Type SmartBits

Half 10 Half 10 Half 10 Half 10 Half 10 Half 10 Half 10 Half 10 Full 10 Full 100 Full 100 Full 100 Full 100 Half 10 Half 10 Half 10 Half 10

7410 7410 7410 7410 7410 7410 7410 7410 AN AN AN AN 7410 7410 7410 7710 7710

21 22 23 24 25 26 27 28 30 31 32 33 34 36 37 38 39 40

Burst Burst Start Start Start

Single Burst OnLine IP=192.168.008.042 Port=16385

---

SmartCounters - [Port Counters for 4 ports - (untitled)\*]

File Edit Tree Actions Selection View Format Window Help

All Ports

	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	0	0	0
Rx Frames	0	10,000	10,000	10,000
Rx Bytes	0	640,000	640,000	680,000
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports Events Only Detail View Updating

Capture - SmartWindow Port 33

File Edit Capture View Format Help

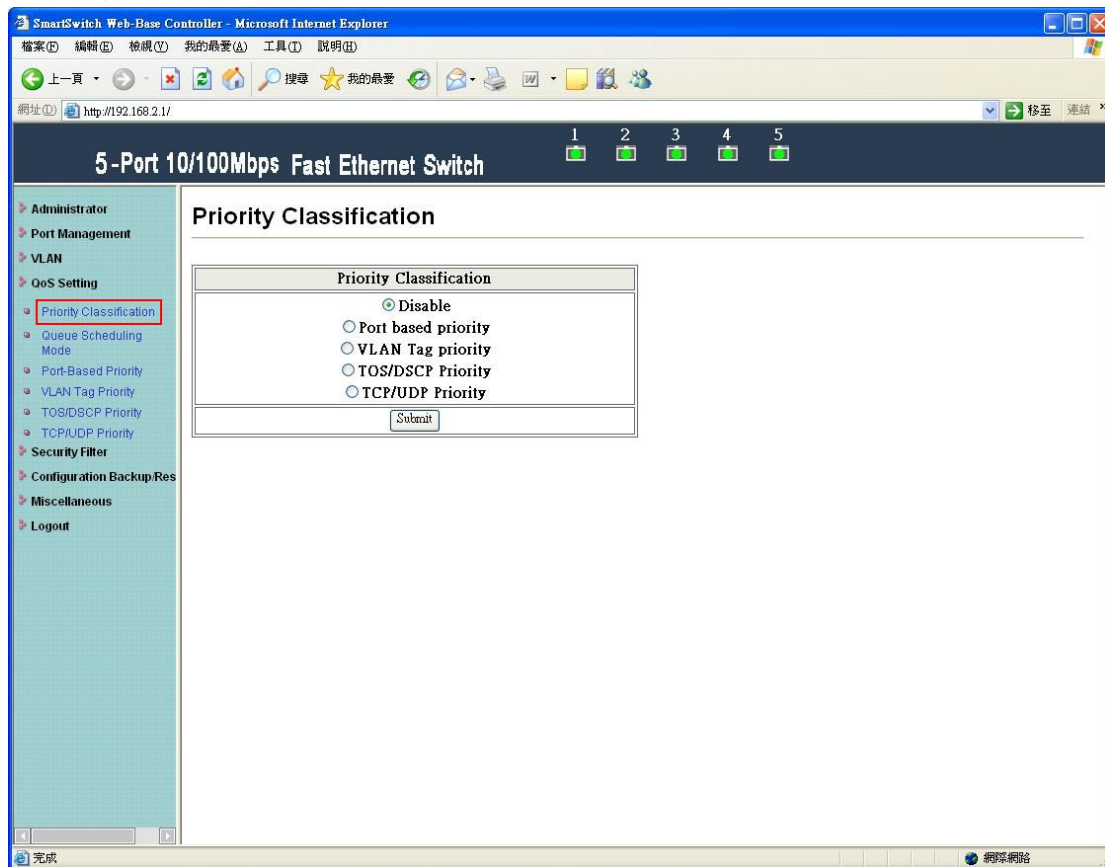
	Delta(uSec)	Status	Length	Pream	MAC dest	MAC src	type	data
19	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
20	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
21	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
22	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
23	67.1		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
24	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
25	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
26	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
27	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
28	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
29	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
30	67.1		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
31	67.5		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
32	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
33	67.1		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
34	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
35	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
36	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00
37	67.2		68	64	ff ff ff ff ff	00 00 00 00 00 01	81 00	00 af 08 00 45 00

CAPTURE OFF

The captured packets from port5 are added tag.

## 4 QoS Setting

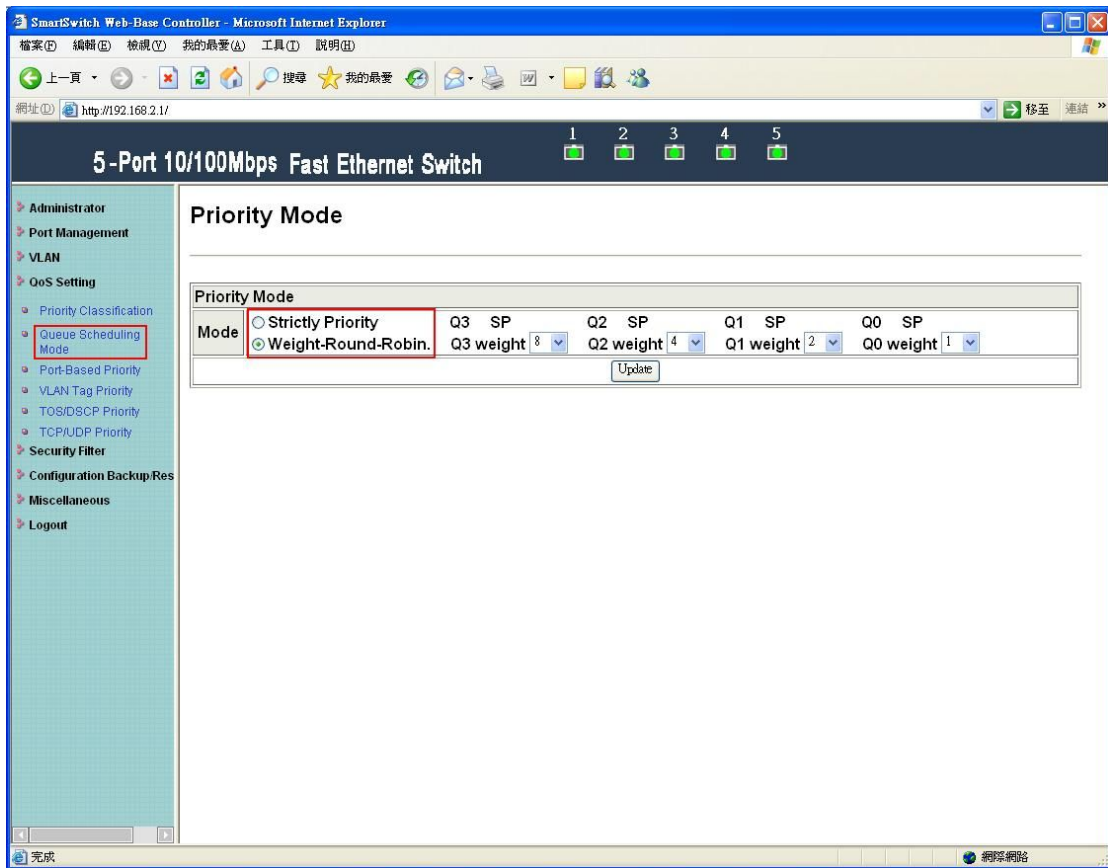
This page provides priority classification for QoS.



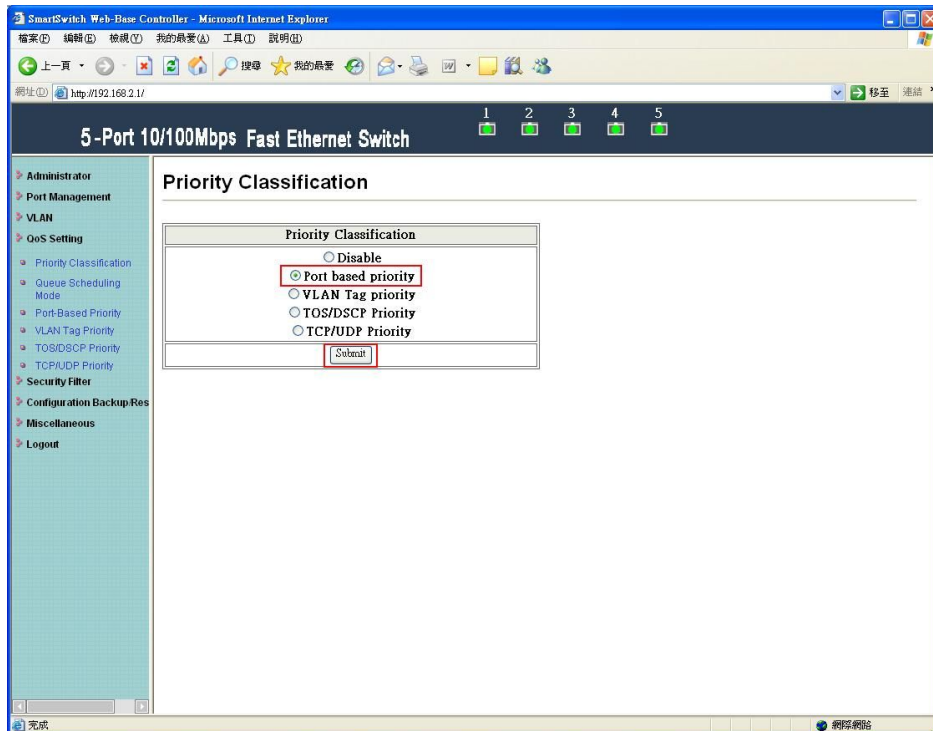
Priority classification:

- Disable
- Port based priority
- VLAN tag priority
- TOS/DSCP priority
- TCP/UDP priority

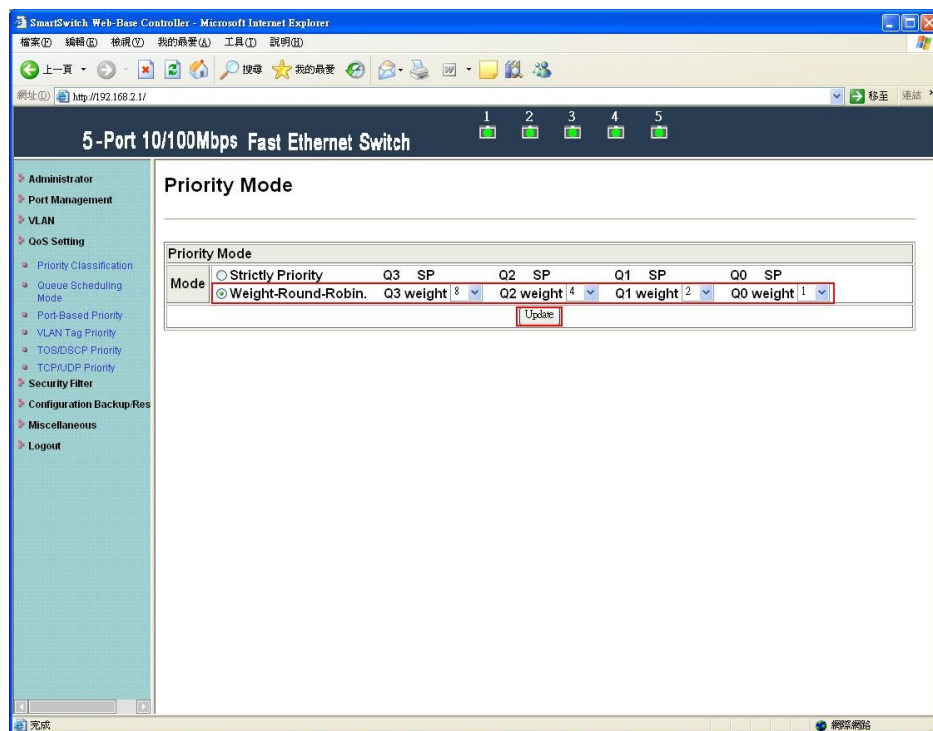
This page provides a option of queue scheduling including strictly priority and weight-round-robin .



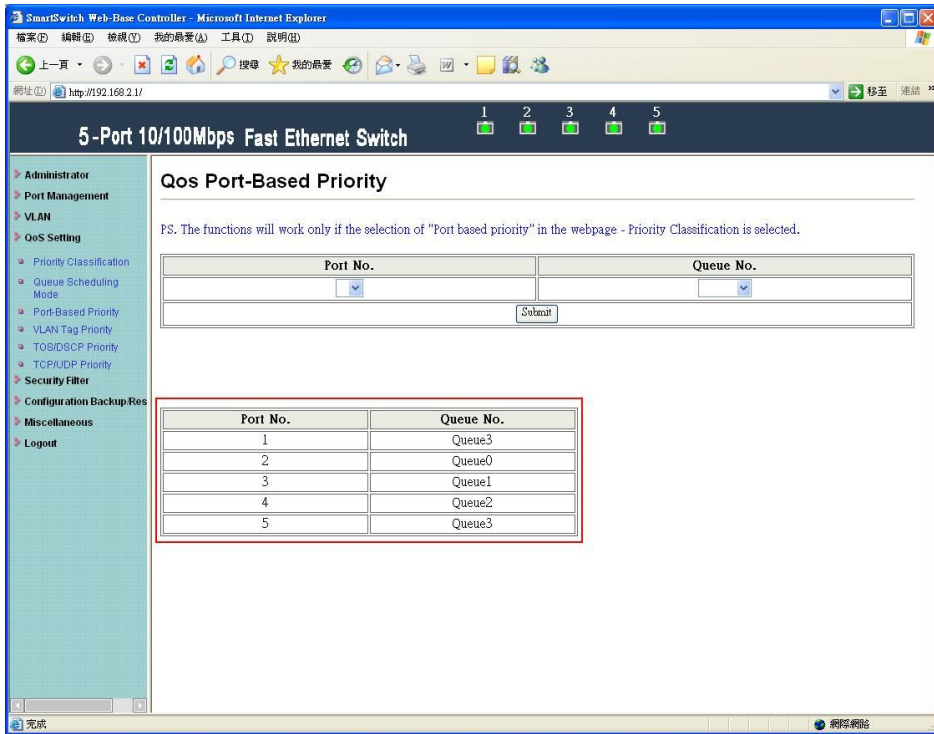
## 4.1 Port based priority



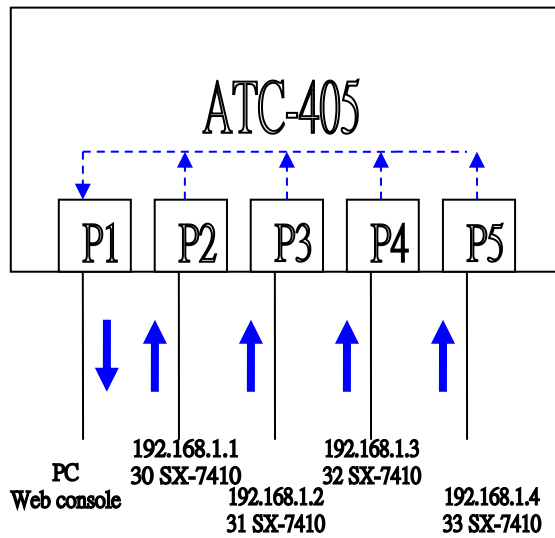
Select "port based priority" and press "Submit" button.



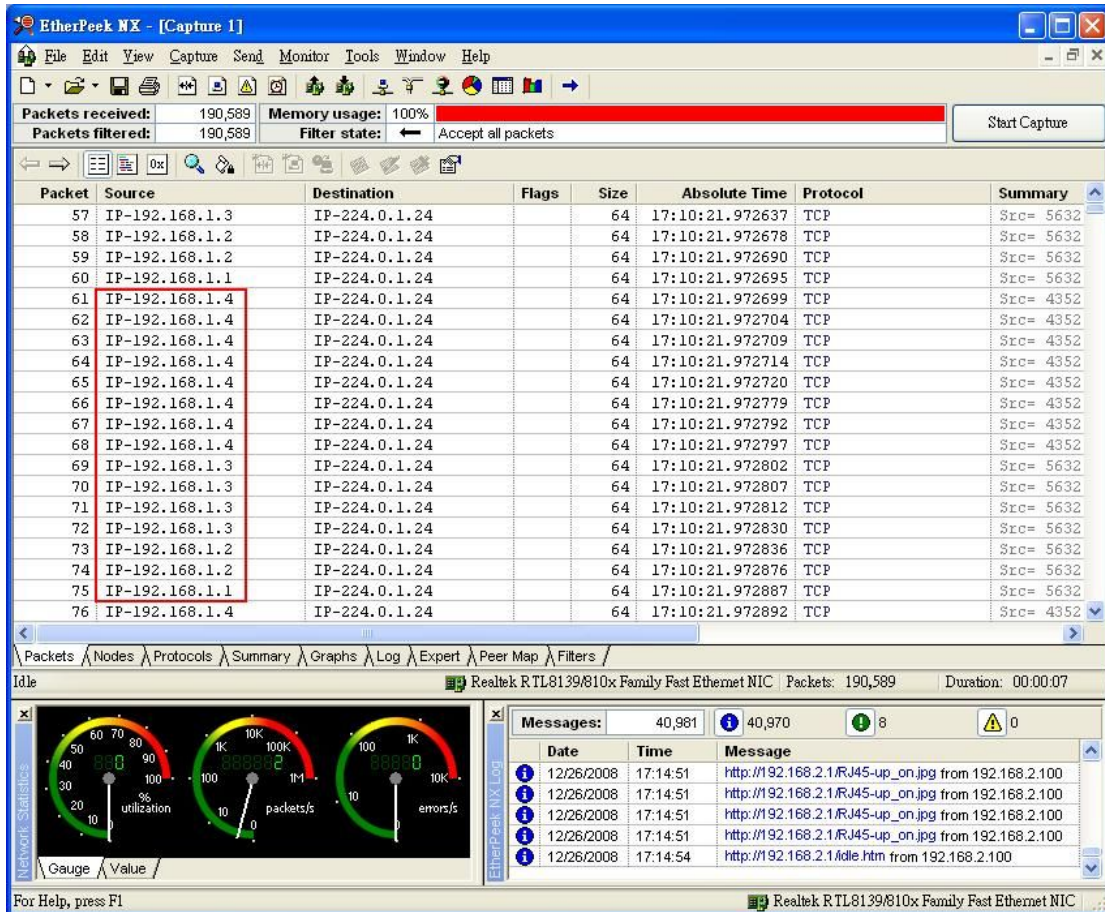
Select "weight-round-robin" and set Q3=8, Q2=4, Q1=2, Q0=1. Then press "Submit" button.



Set port2 → queue0, port3 → queue1, port4 → queue2, and port5 → queue3.

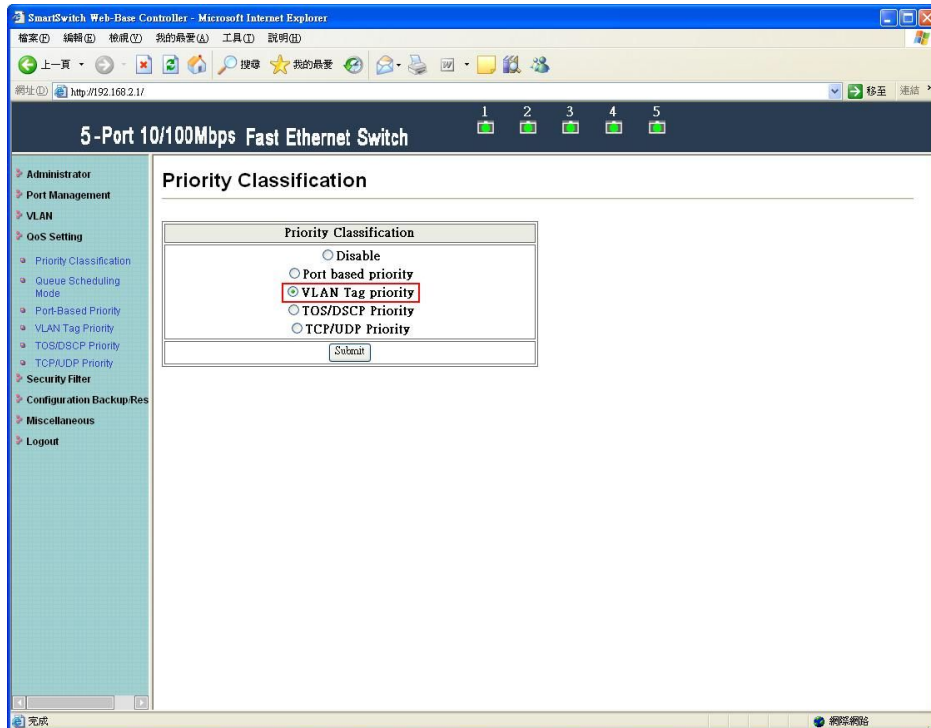


Port2-5 forward 64byte TCP packets to port1.

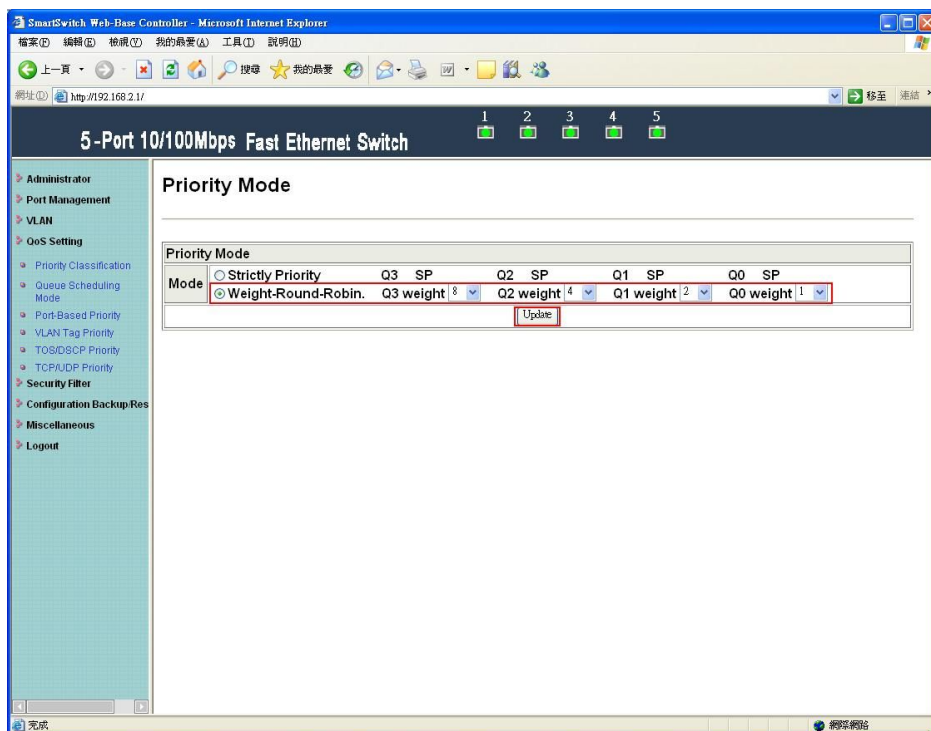


Etherpeek captures packets from port2-5. The ratio of port2~5 is 1:2:4:8.

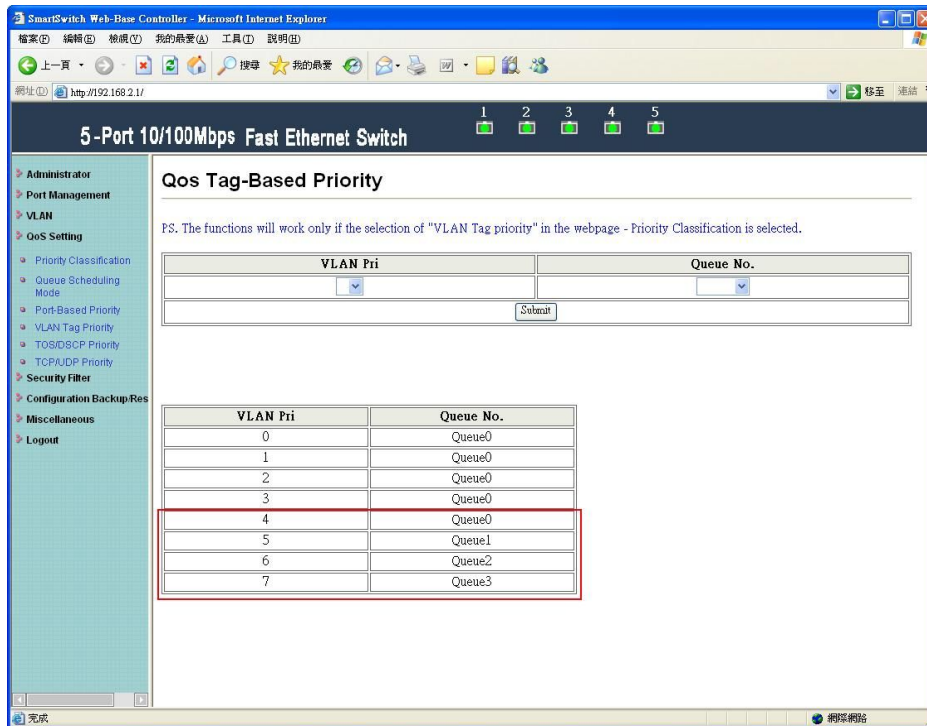
## 4.2 VLAN tag priority



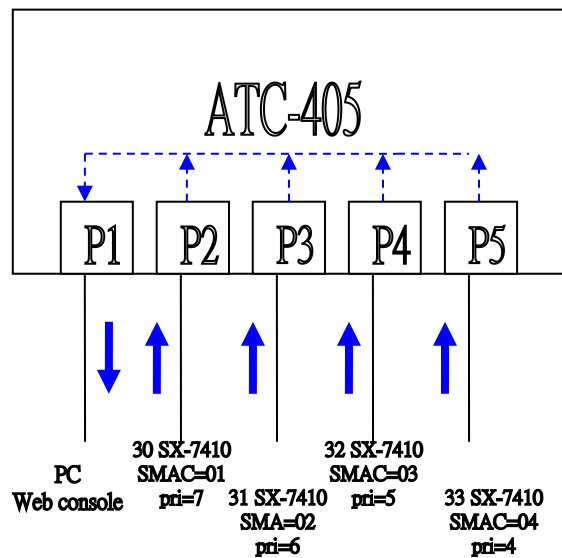
Select "VLAN tag priority" and press "Submit" button.



Select "weight-round-robin" and set Q3=8, Q2=4, Q1=2, Q0=1. Then press "Submit" button.

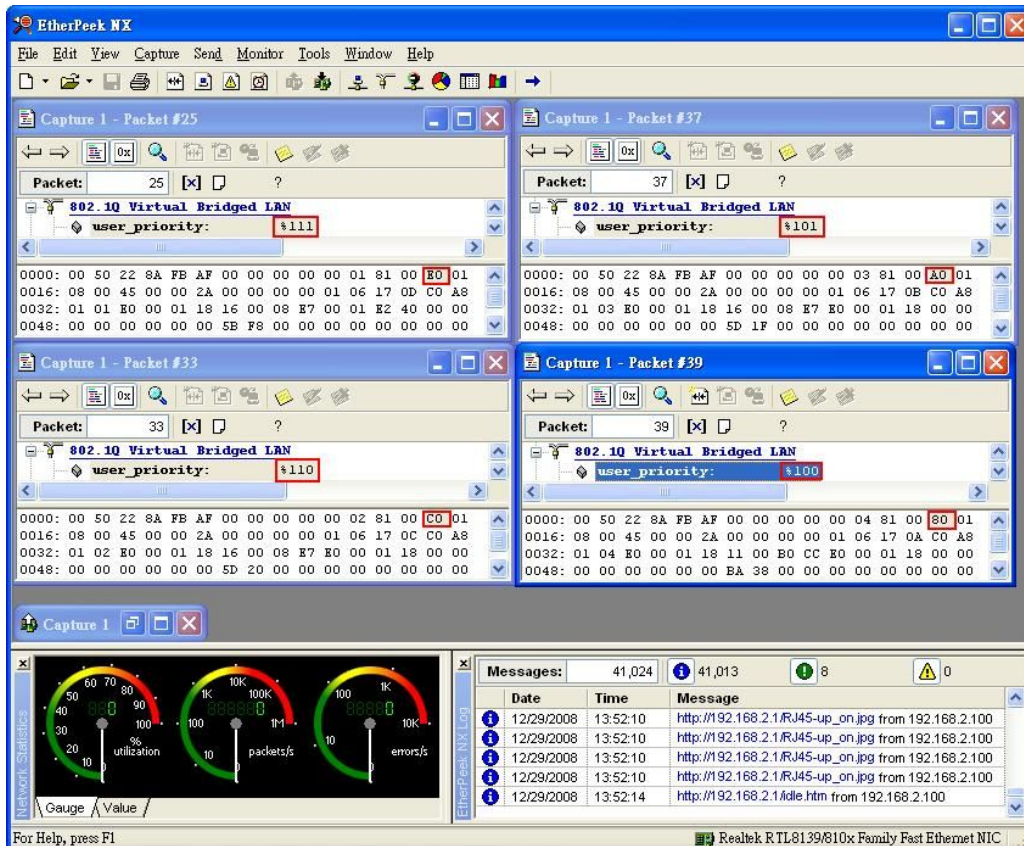
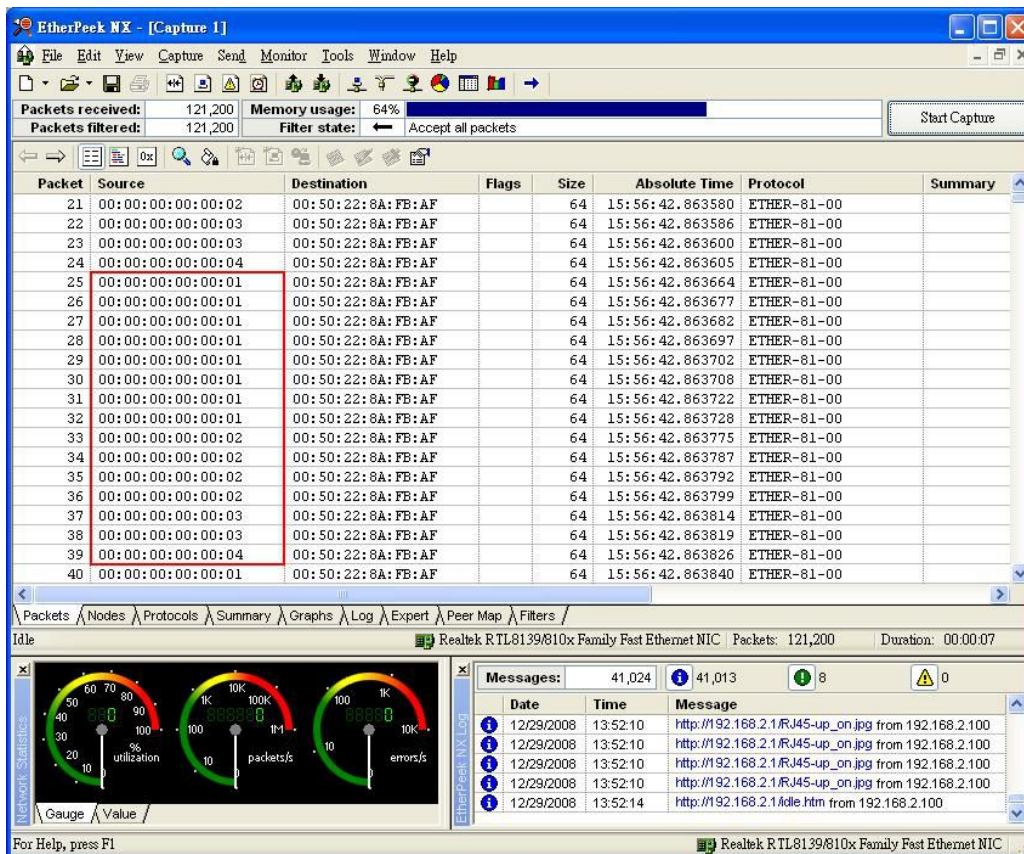


Set VLAN priority 4 → queue0, VLAN priority 5 → queue1, VLAN priority 6 → queue2 and VLAN priority 7 → queue3.



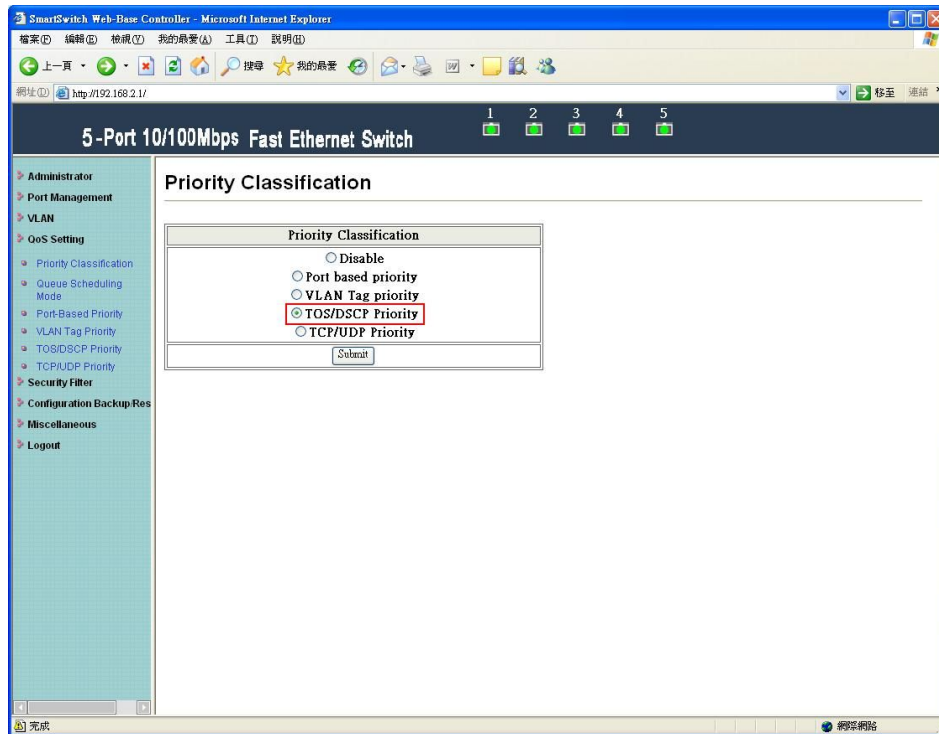
Port2-5 forward unicast packets with 64byte length to port1.



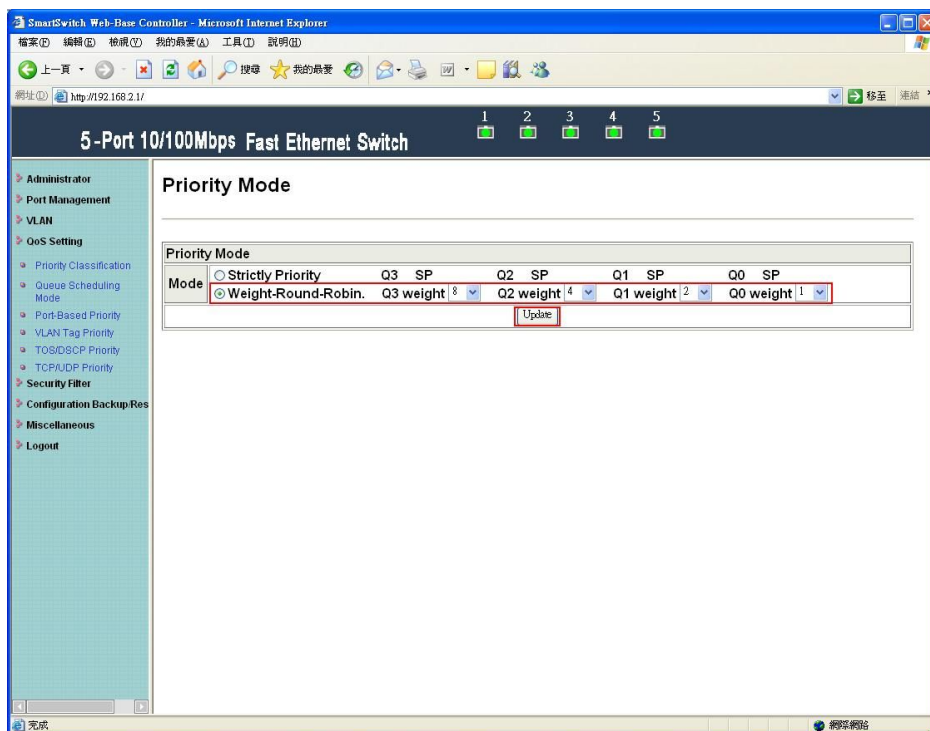


Etherpeek captures packets from port2-5. The ratio of VLAN priority 4~7 is 1:2:4:8.

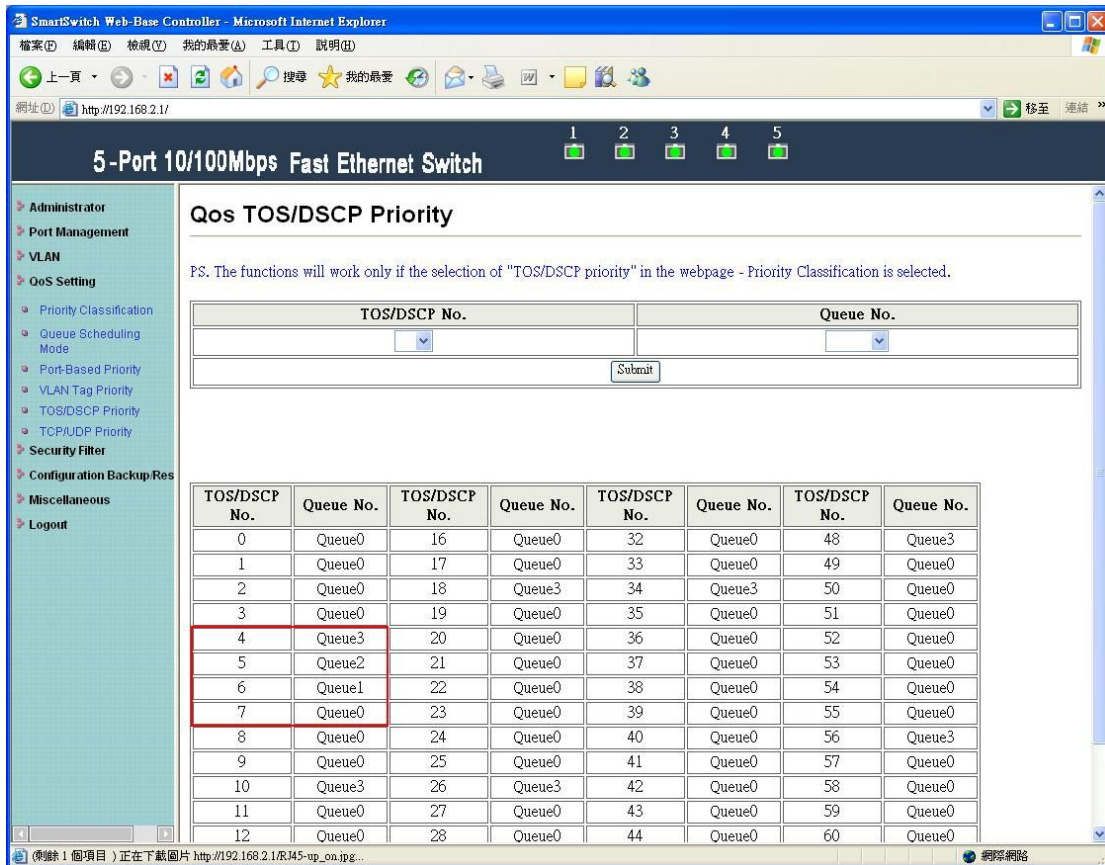
## 4.3 TOS/DSCP priority



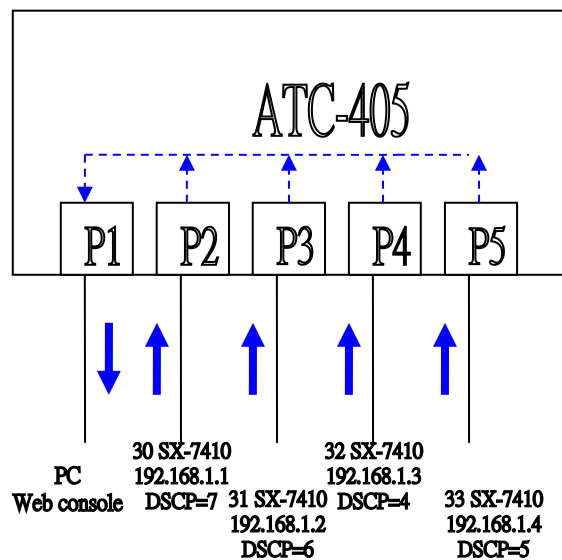
Select "TOS/DSCP priority" and press "Submit" button.



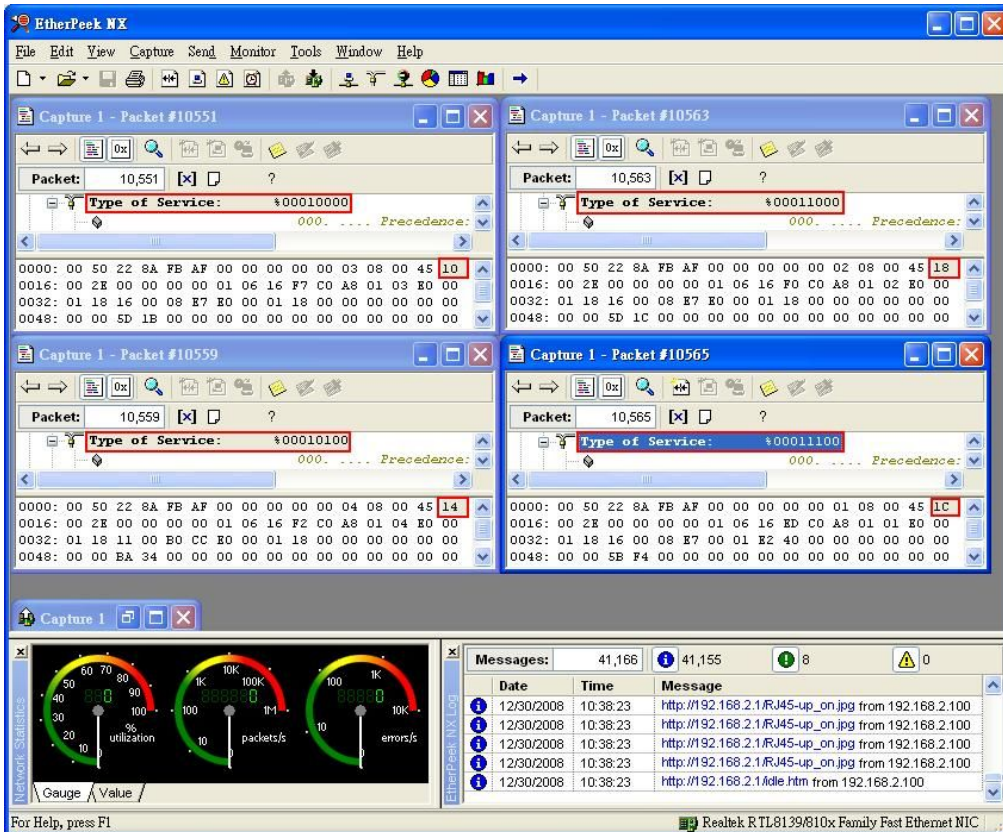
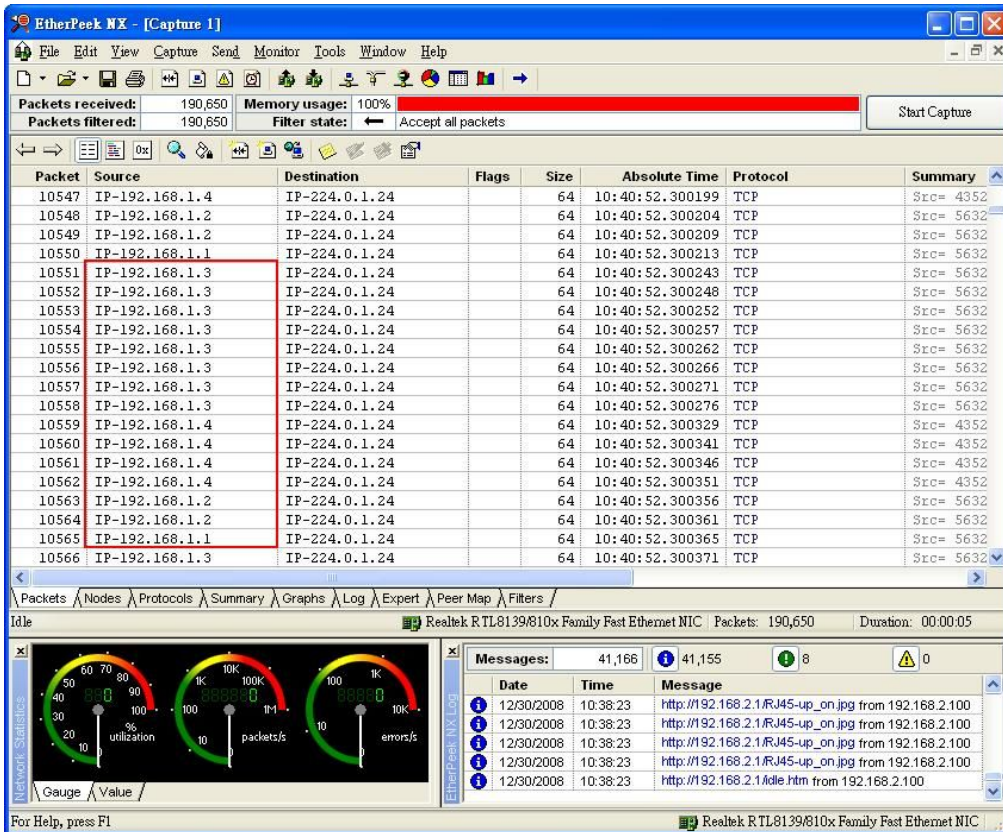
Select "weight-round-robin" and set Q3=8, Q2=4, Q1=2, Q0=1. Then press "Submit" button.



Set DSCP 7 → queue0, DSCP 6 → queue1, DSCP 5 → queue2 and DSCP 4 → queue3.

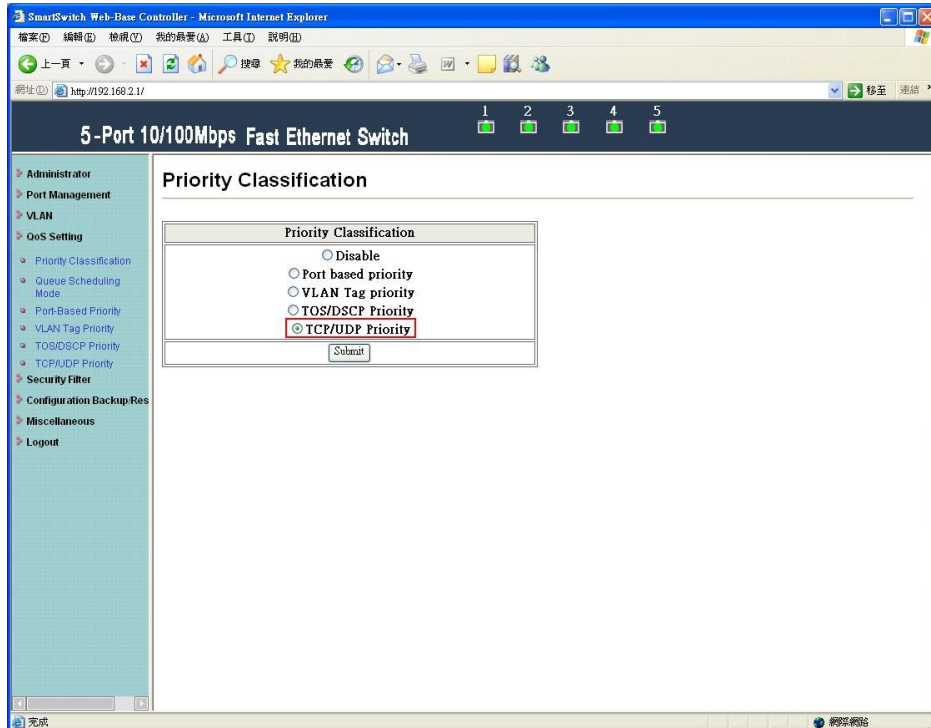


Port2-5 forward unicast packets with 64byte length to port1.

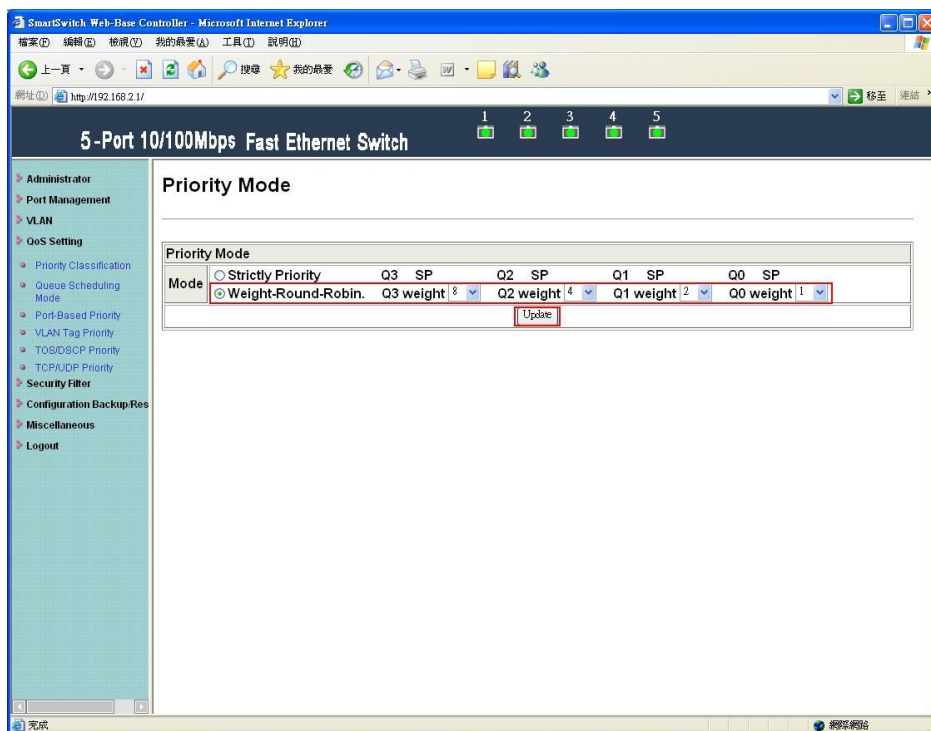


Etherpeek captures packets from port2-5. The ratio of DSCP 4~7 is 8:4:2:1.

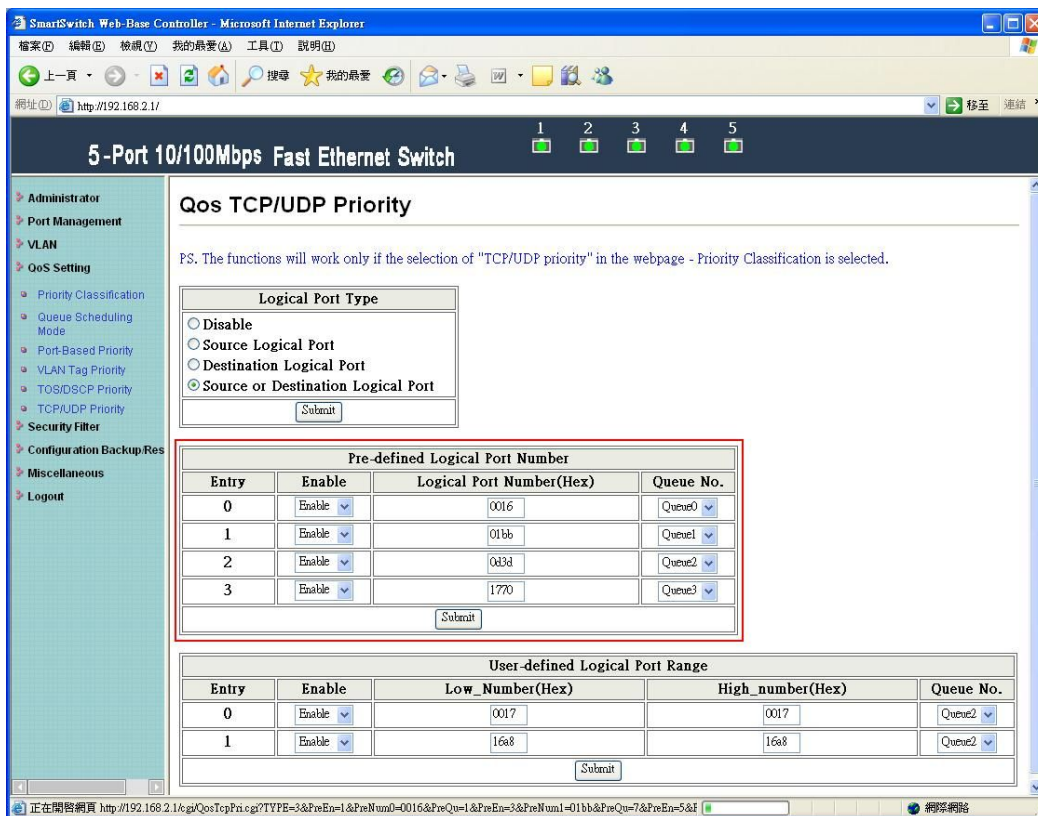
## 4.4 TCP/UDP priority



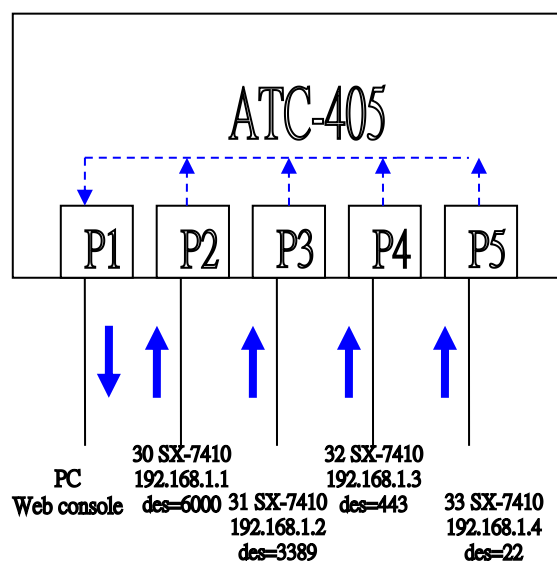
Select "TCP/UDP priority" and press "Submit" button.



Select "weight-round-robin" and set Q3=8, Q2=4, Q1=2, Q0=1. Then press "Submit" button.



Set pre-defined logical port0 → queue0, pre-defined logical port1 → queue1, pre-defined logical port2 → queue2 and pre-defined logical port3 → queue3.



Port2-5 forward unicast packets with 64byte length to port1.

**EtherPeek NX - [Capture 1]**

Packets received: 58,344    Memory usage: 31%  
Packets filtered: 58,344    Filter state: Accept all packets    Start Capture

Packet	Source	Destination	Flags	Size	Absolute Time	Protocol	Summary
529	IP-192.168.1.2	IP-224.0.1.24		64	14:54:17.465287	TCP	Src= 5632
530	IP-192.168.1.3	IP-224.0.1.24		64	14:54:17.465297	HTTPS	Src= 5632
531	IP-192.168.1.3	IP-224.0.1.24		64	14:54:17.465301	HTTPS	Src= 5632
532	IP-192.168.1.4	IP-224.0.1.24		64	14:54:17.465306	SSH	Src= 4352
533	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465310	X-Windows	Src= 5632
534	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465314	X-Windows	Src= 5632
535	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465318	X-Windows	Src= 5632
536	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465322	X-Windows	Src= 5632
537	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465361	X-Windows	Src= 5632
538	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465365	X-Windows	Src= 5632
539	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465369	X-Windows	Src= 5632
540	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465373	X-Windows	Src= 5632
541	IP-192.168.1.2	IP-224.0.1.24		64	14:54:17.465378	TCP	Src= 5632
542	IP-192.168.1.2	IP-224.0.1.24		64	14:54:17.465382	TCP	Src= 5632
543	IP-192.168.1.2	IP-224.0.1.24		64	14:54:17.465386	TCP	Src= 5632
544	IP-192.168.1.2	IP-224.0.1.24		64	14:54:17.465390	TCP	Src= 5632
545	IP-192.168.1.3	IP-224.0.1.24		64	14:54:17.465427	HTTPS	Src= 5632
546	IP-192.168.1.3	IP-224.0.1.24		64	14:54:17.465431	HTTPS	Src= 5632
547	IP-192.168.1.4	IP-224.0.1.24		64	14:54:17.465436	SSH	Src= 4352
548	IP-192.168.1.1	IP-224.0.1.24		64	14:54:17.465440	X-Windows	Src= 5632

Network Statistics: utilization, packets/s, errors/s  
Messages: 41,263    41,252    8    0

**EtherPeek NX**

Capture 1 - Packet #533  
Source Port: 5632 poanywherestat  
Destination Port: 6000

Capture 1 - Packet #545  
Source Port: 5632 poanywherestat  
Destination Port: 443 https

Capture 1 - Packet #541  
Source Port: 5632 poanywherestat  
Destination Port: 3389 ms-wbt-server

Capture 1 - Packet #547  
Source Port: 4352  
Destination Port: 22 ssh

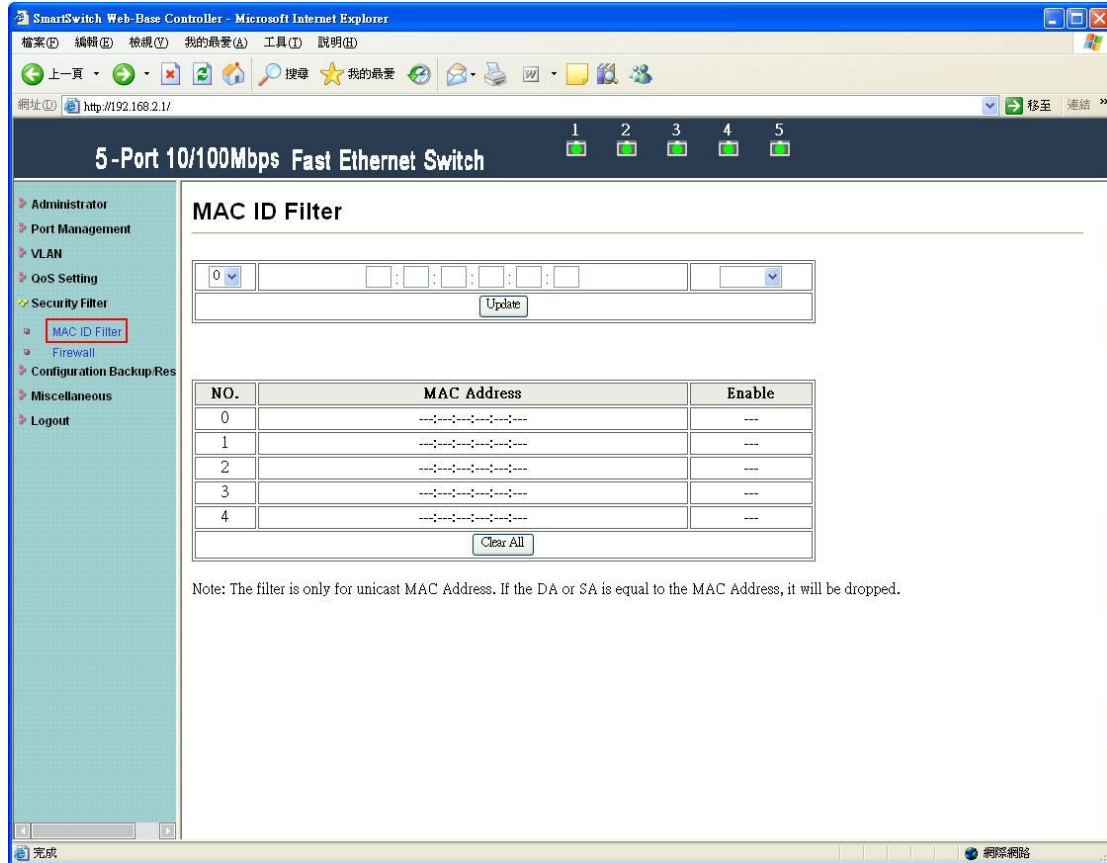
Network Statistics: utilization, packets/s, errors/s  
Messages: 41,263    41,252    8    0

Etherpeek captures packets of port2-5. The ratio of pre-defined logical port0-3 is 1:2:4:8.

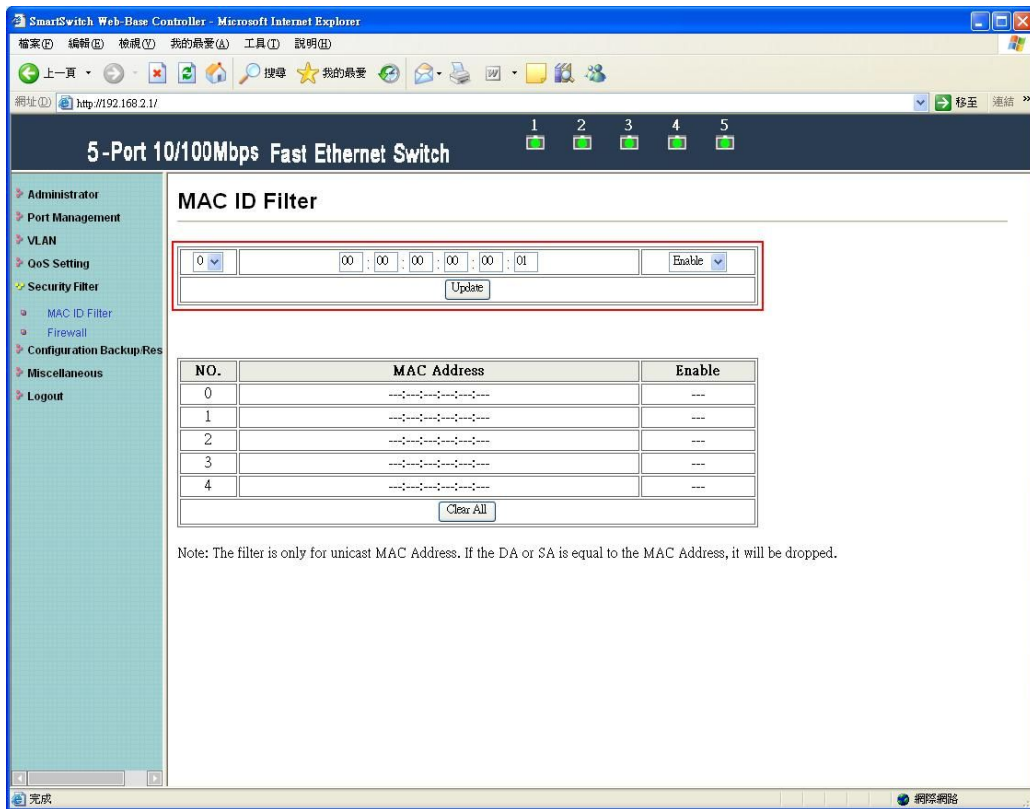
# 5 Security Filter

## 5.1 MAC ID filter

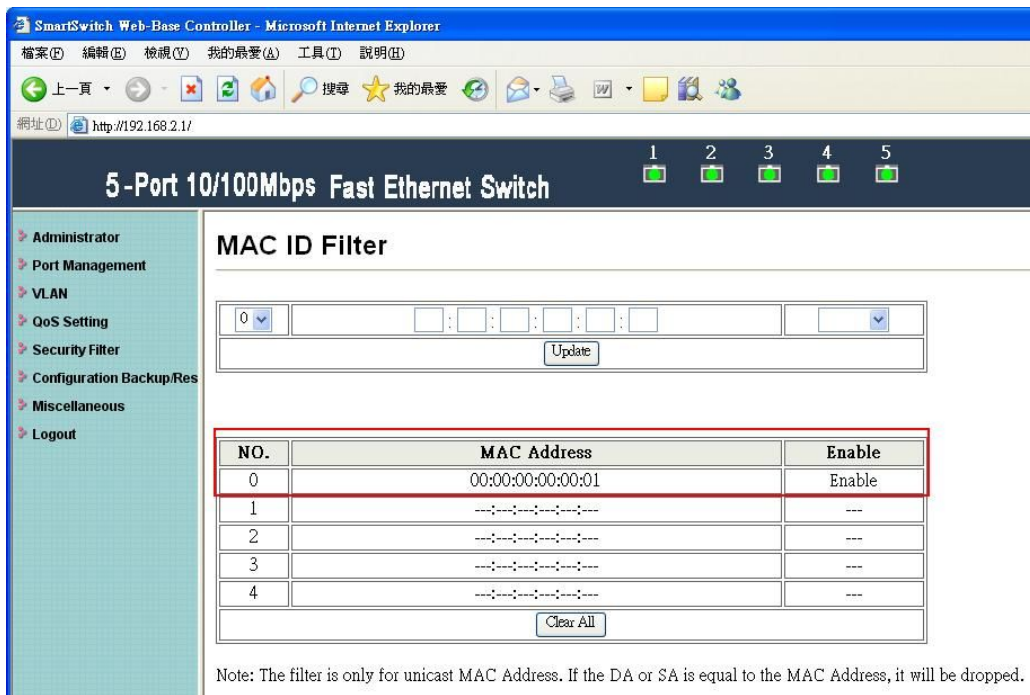
This page is used to drop packets with specific SMAC or DMAC address. The MAC ID filter is only for unicast MAC address.



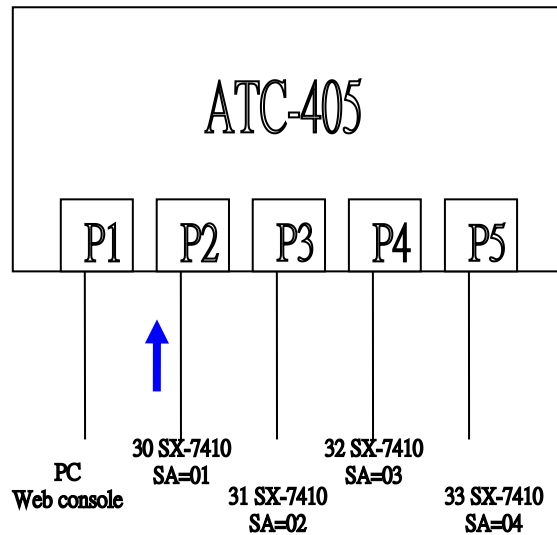




Fill in the blanks with “00:00:00:00:00:01” and select “enable”.



Press “Update” button to take effect.



The SmartBits transmits packets with SMAC=00:00:00:00:00:01 to port2.

**SmartWindow - test1.prf**

Transmit Status	Trigger	Collision	Receive	Crc Error	Mode	Speed	Link	Card Type	SmartBits
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	21
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	22
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	23
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	24
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	25
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	26
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	27
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	28
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	30
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	31
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	32
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	33
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7410	34
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	36
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	37
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Half	10		7410	38
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7710	39
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Full	100	AN	7710	40

Single Burst      OnLine    IP=192.168.008.042 Port=16385

---

**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

All Ports	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	10,000	0	0	0
Rx Frames	0	0	0	0
Rx Bytes	0	0	0	0
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports      Events Only      Detail View      Updating

Port2 of ATC-405 drops these packets.

## 5.2 Firewall

This page provides the user to filter specific traffic or forward packets by bandwidth control. If incoming packets match a predefined entry, the corresponding action is performed. It is possible to match multiple entries for an incoming packet and then the first matching entry is effective.

The screenshot shows the 'Firewall' configuration page in a web browser. The browser title is 'SmartSwitch Web-Base Controller - Microsoft Internet Explorer'. The address bar shows 'http://192.168.2.1/'. The page header indicates '5-Port 10/100Mbps Fast Ethernet Switch' with five status indicators (1-5) showing green lights.

The left sidebar contains a navigation menu with the following items: Administrator, Port Management, VLAN, QoS Setting, Security Filter (selected), MAC ID Filter, Firewall, Configuration Backup Res, Miscellaneous, and Logout.

The main content area is titled 'Firewall'. It features a 'Change to Range mode' button. Below this is a configuration form with the following fields:

Entry	Action	Bandwidth(0~3124)	Source IP	Destination IP	TCP/UDP	Source logical Port num
1		0 for 100Mbps				0~65535

Below the form is a 'Submit' button and a 'Clear entry' button with a 'Clear' link.

At the bottom, there is a table listing existing firewall entries:

Entry	Action	Bandwidth	IP Mode	Source/Start IP	Destination/End IP	TCP/UDP	TCP/UDP Mode	Source/Start logical Port num	Destination/End logical Port num
1		100Mbps	---	.....	.....	---	---	---	---
2		100Mbps	---	.....	.....	---	---	---	---
3		100Mbps	---	.....	.....	---	---	---	---
4		100Mbps	---	.....	.....	---	---	---	---
5		100Mbps	---	.....	.....	---	---	---	---
6		100Mbps	---	.....	.....	---	---	---	---
7		100Mbps	---	.....	.....	---	---	---	---

## Filter

SmartSwitch Web-Base Controller - Microsoft Internet Explorer

http://192.168.2.1/

### 5-Port 10/100Mbps Fast Ethernet Switch

#### Firewall

Change to Range mode

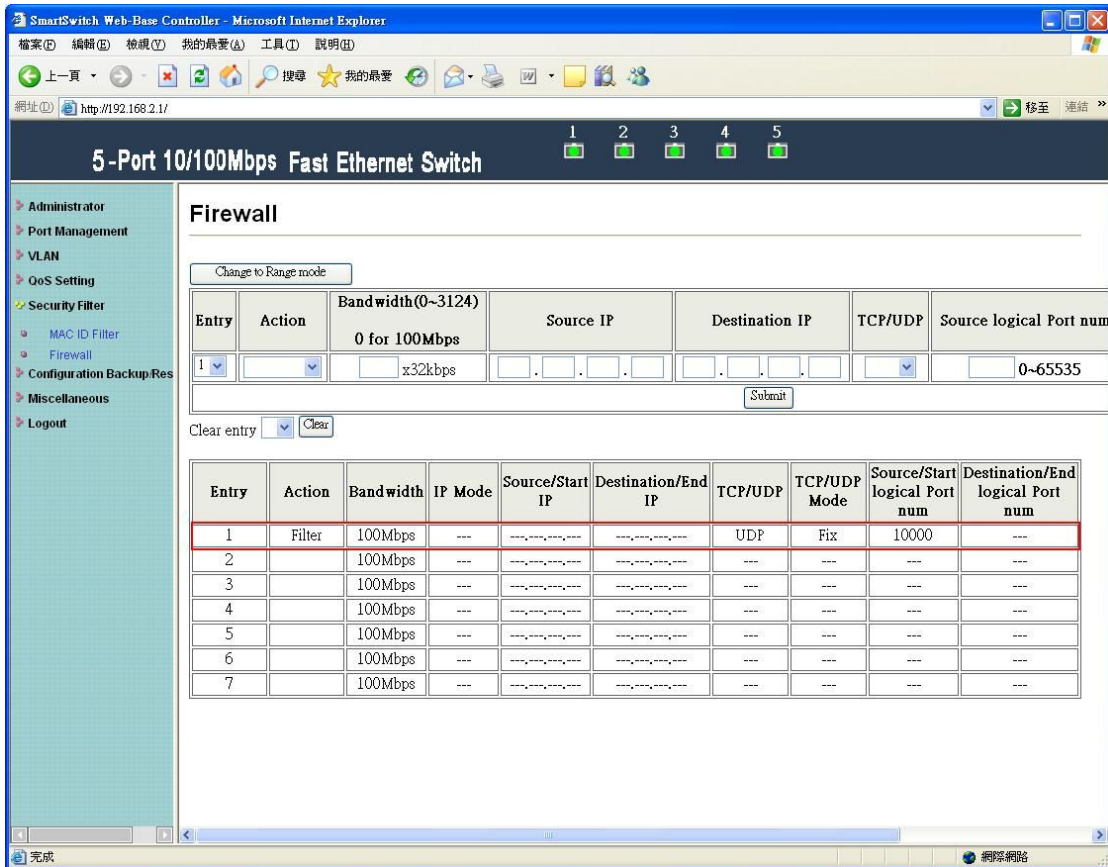
Entry	Action	Bandwidth(0~3124)	Source IP	Destination IP	TCP/UDP	Source logical Port num
1	Filter	x32kbps	.	.	UDP	10000 0~65535

Submit

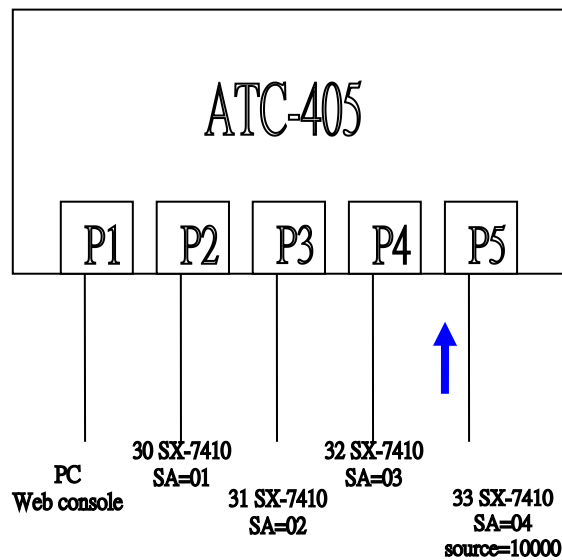
Clear entry

Entry	Action	Bandwidth	IP Mode	Source/Start IP	Destination/End IP	TCP/UDP	TCP/UDP Mode	Source/Start logical Port num	Destination/End logical Port num
1		100Mbps	---	.....	.....	---	---	---	---
2		100Mbps	---	.....	.....	---	---	---	---
3		100Mbps	---	.....	.....	---	---	---	---
4		100Mbps	---	.....	.....	---	---	---	---
5		100Mbps	---	.....	.....	---	---	---	---
6		100Mbps	---	.....	.....	---	---	---	---
7		100Mbps	---	.....	.....	---	---	---	---

Fill in the blank of source logical port number of entry1 with 10000 and filter UDP packets. Then press “Submit” button.



After updating, the status of entry1 is updated.



The SmartBits transmits packets with source logical port number=10000 to port5.

The image displays two overlapping software windows from the SmartView suite.

The top window, titled "SmartWindow - test1.prf", shows a configuration grid for network ports. The columns represent ports 21 through 40. The rows include "Transmit Status", "Trigger", "Collision", "Receive", "Crc Error", "Mode Speed Link", "Card Type", and "SmartBIts". Ports 21-28 are configured as "Half 10" with card type "7410". Ports 30-34 are "Full 100 AN" with card type "7410". Ports 36-39 are "Half 10" with card type "7410". Port 40 is "Full 100 AN" with card type "7710". The status bar shows "Single Burst" and "OnLine IP=192.168.008.042 Port=16385".

The bottom window, titled "SmartCounters - [Port Counters for 4 ports - (untitled)\*]", displays a table of port counters for ports 30, 31, 32, and 33 (all SX-7410) and port 40 (ML-7710). The table shows various event counts for Tx/Rx frames, bytes, triggers, collisions, and errors. A red box highlights the "Tx Frames" row, showing 0 counts for ports 30, 31, and 32, and 10,000 for port 33.

All Ports	Events	Events	Events	Events
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	0	0	0	10,000
Rx Frames	0	0	0	0
Rx Bytes	0	0	0	0
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports | Events Only | Detail View | Updating

Port5 of ATC-405 drops these packets.

## Bandwidth

SmartSwitch Web-Base Controller - Microsoft Internet Explorer  
http://192.168.2.1/

### 5-Port 10/100Mbps Fast Ethernet Switch

#### Firewall

Change to Range mode

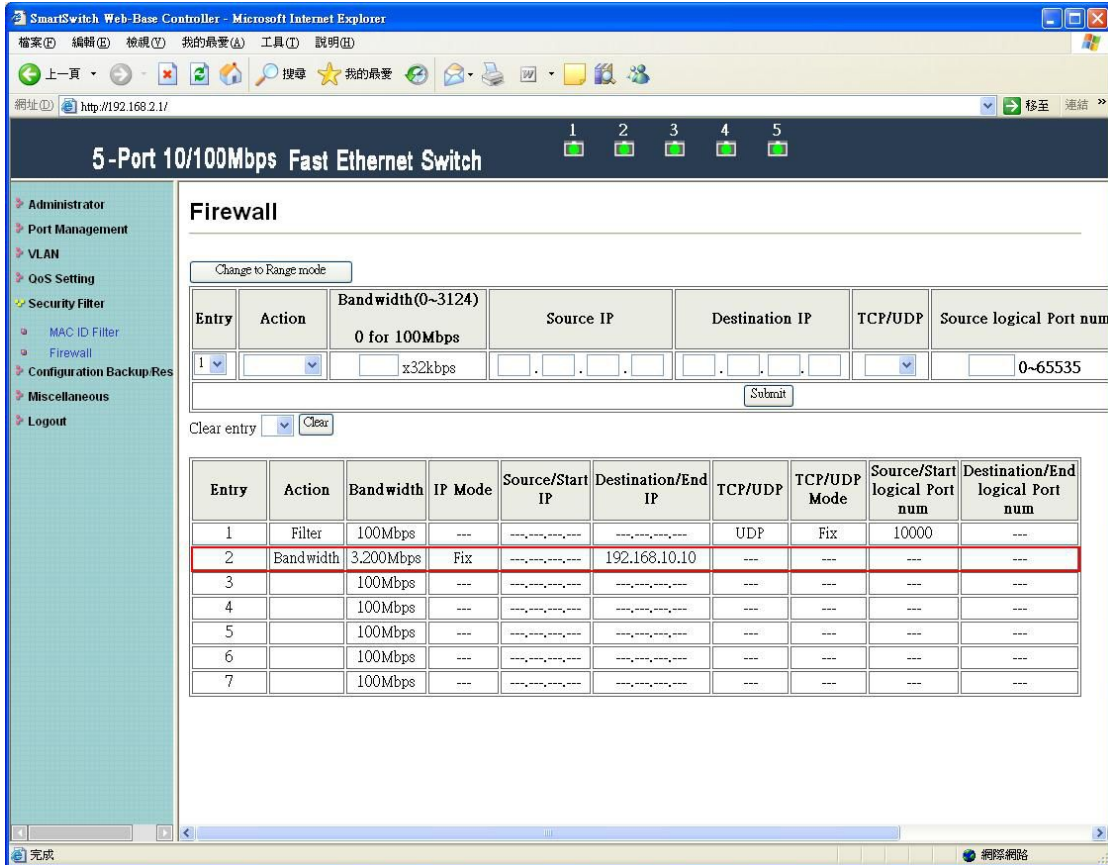
Entry	Action	Bandwidth(0~3124)	Source IP	Destination IP	TCP/UDP	Source logical Port num
2	Bandwidth	100 x32kbps		192 . 168 . 10 . 10		0~65535

Submit

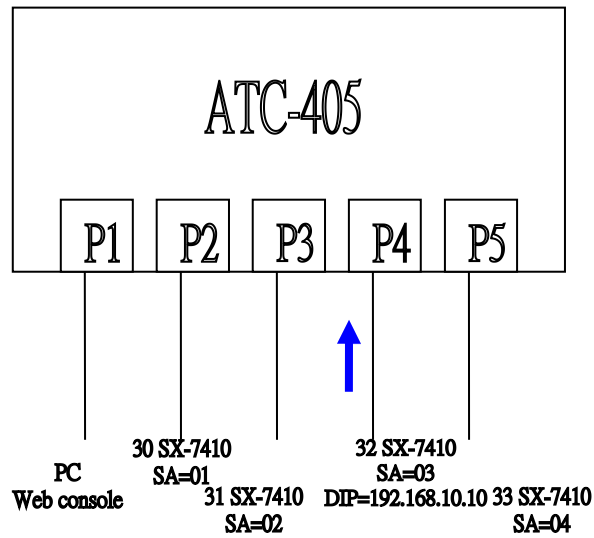
Clear entry

Entry	Action	Bandwidth	IP Mode	Source/Start IP	Destination/End IP	TCP/UDP	TCP/UDP Mode	Source/Start logical Port num	Destination/End logical Port num
1	Filter	100Mbps	---	.....	.....	UDP	Fix	10000	---
2		100Mbps	---	.....	.....	---	---	---	---
3		100Mbps	---	.....	.....	---	---	---	---
4		100Mbps	---	.....	.....	---	---	---	---
5		100Mbps	---	.....	.....	---	---	---	---
6		100Mbps	---	.....	.....	---	---	---	---
7		100Mbps	---	.....	.....	---	---	---	---

Fill in the blank of destination IP of entry2 with 192.168.10.10 and bandwidth with 100. Then press “Submit” button.



After updating, the status of entry2 is updated.



The SmartBits transmits broadcast packets with destination IP=192.168.10.10 to port4.



The image shows two windows from a network monitoring application. The top window, 'SmartWindow - test1.prf', displays a grid of network interface statistics for 16 ports. The bottom window, 'SmartCounters - [Port Counters for 4 ports - (untitled)\*]', shows a detailed table of port counters for four specific ports: 30 SX-7410, 31 SX-7410, 32 SX-7410, and 40 ML-7710.

**SmartWindow - test1.prf**

Transmit Status	Trigger Collision	Receive Cro Error	Mode Speed Link	Card Type	SmartBits
○	○	○	Half 10	7410	21
○	○	○	Half 10	7410	22
○	○	○	Half 10	7410	23
○	○	○	Half 10	7410	24
○	○	○	Half 10	7410	25
○	○	○	Half 10	7410	26
○	○	○	Half 10	7410	27
○	○	○	Half 10	7410	28
●	○	○	Full 100 AN	7410	30
○	○	○	Full 100 AN	7410	31
○	○	○	Full 100 AN	7410	32
○	○	○	Full 100 AN	7410	33
○	○	○	Full 100	7410	34
○	○	○	Half 10	7410	36
○	○	○	Half 10	7410	37
○	○	○	Half 10	7410	38
○	○	○	Full 100 AN	7710	39
○	○	○	Full 100 AN	7710	40

len:60,MAC:ffffffff:000000000022.0000 OnLine |IP=192.168.008.042 Port=16385

**SmartCounters - [Port Counters for 4 ports - (untitled)\*]**

All Ports	Rates	Rates	Rates	Rates
	30 SX-7410	31 SX-7410	32 SX-7410	33 SX-7410
Tx Frames	0	0	148,808	0
Rx Frames	6,625	6,624	0	6,625
Rx Bytes	424,029	424,028	0	424,029
Rx Triggers	0	0	0	0
Collisions	0	0	0	0
CRC Errors	0	0	0	0
Alignment Errors	0	0	0	0
OverSize	0	0	0	0
Frag/UnderSize	0	0	0	0

Counters for 4 ports Rates Only Detail View Updating

The RX bytes filed of 30~33-SX-7410 is about 424029 bytes. It is close to 3.2Mbps.

## Clear Entry

SmartSwitch Web-Base Controller - Microsoft Internet Explorer

5-Port 10/100Mbps Fast Ethernet Switch

Administrator

Port Management

VLAN

OoS Setting

Security Filter

MAC ID Filter

Firewall

Configuration Backup Res

Miscellaneous

Logout

Firewall

Change to Range mode

Entry	Action	Bandwidth(0~3124)	Source IP	Destination IP	TCP/UDP	Source logical Port num
1		x32kbps				0~65535

Submit

Clear entry 1 Clear

Entry	Action	Bandwidth	IP Mode	Source/Start IP	Destination/End IP	TCP/UDP	TCP/UDP Mode	Source/Start logical Port num	Destination/End logical Port num
1	Filter	100Mbps	---	.....	.....	UDP	Fix	10000	---
2	Bandwidth	3.200Mbps	Fix	.....	192.168.10.10	---	---	---	---
3		100Mbps	---	.....	.....	---	---	---	---
4		100Mbps	---	.....	.....	---	---	---	---
5		100Mbps	---	.....	.....	---	---	---	---
6		100Mbps	---	.....	.....	---	---	---	---
7		100Mbps	---	.....	.....	---	---	---	---

Select entry1 and click “Clear” button.

SmartSwitch Web-Base Controller - Microsoft Internet Explorer

5-Port 10/100Mbps Fast Ethernet Switch

Administrator

Port Management

VLAN

OoS Setting

Security Filter

MAC ID Filter

Firewall

Configuration Backup Res

Miscellaneous

Logout

Firewall

Change to Range mode

Entry	Action	Bandwidth(0~3124)	Source IP	Destination IP	TCP/UDP	Source logical Port num
1		x32kbps				0~65535

Submit

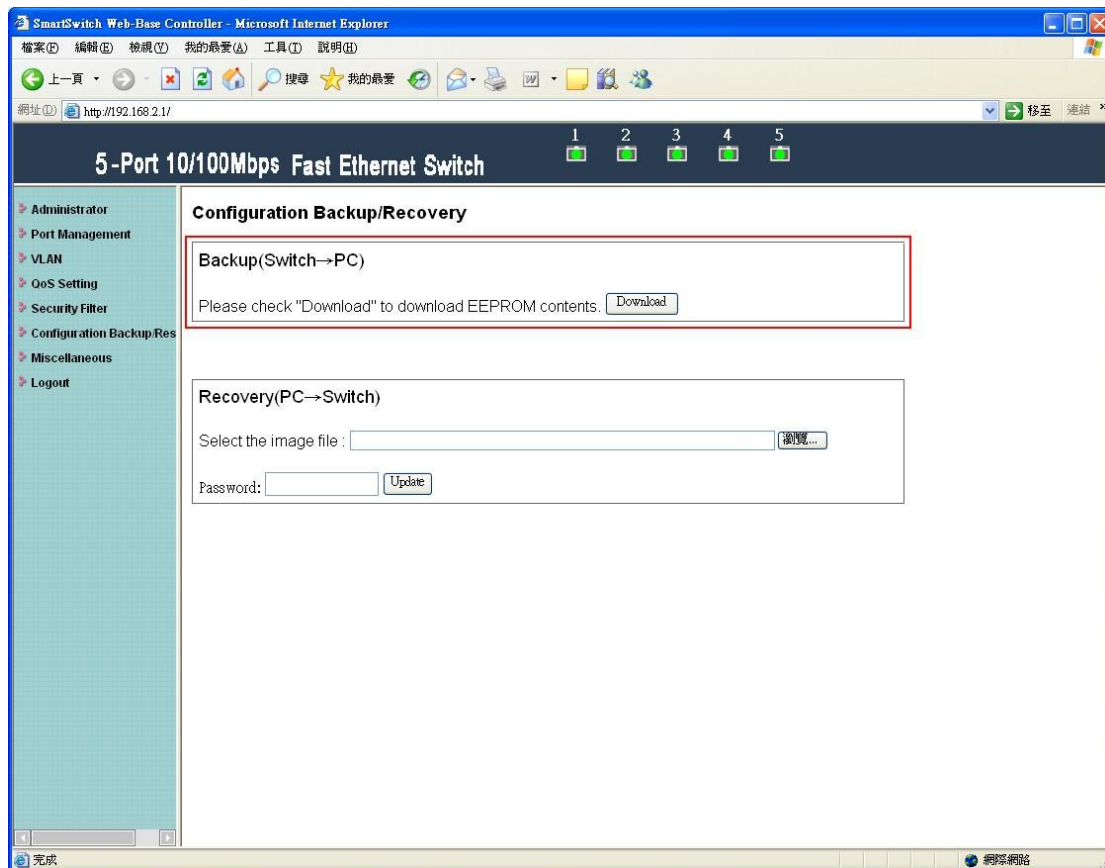
Clear entry Clear

Entry	Action	Bandwidth	IP Mode	Source/Start IP	Destination/End IP	TCP/UDP	TCP/UDP Mode	Source/Start logical Port num	Destination/End logical Port num
1		100Mbps	---	.....	.....	---	---	---	---
2	Bandwidth	3.200Mbps	Fix	.....	192.168.10.10	---	---	---	---
3		100Mbps	---	.....	.....	---	---	---	---
4		100Mbps	---	.....	.....	---	---	---	---
5		100Mbps	---	.....	.....	---	---	---	---
6		100Mbps	---	.....	.....	---	---	---	---
7		100Mbps	---	.....	.....	---	---	---	---

The status of entry1 is cleared.

## 6 Configuration Backup/Recovery

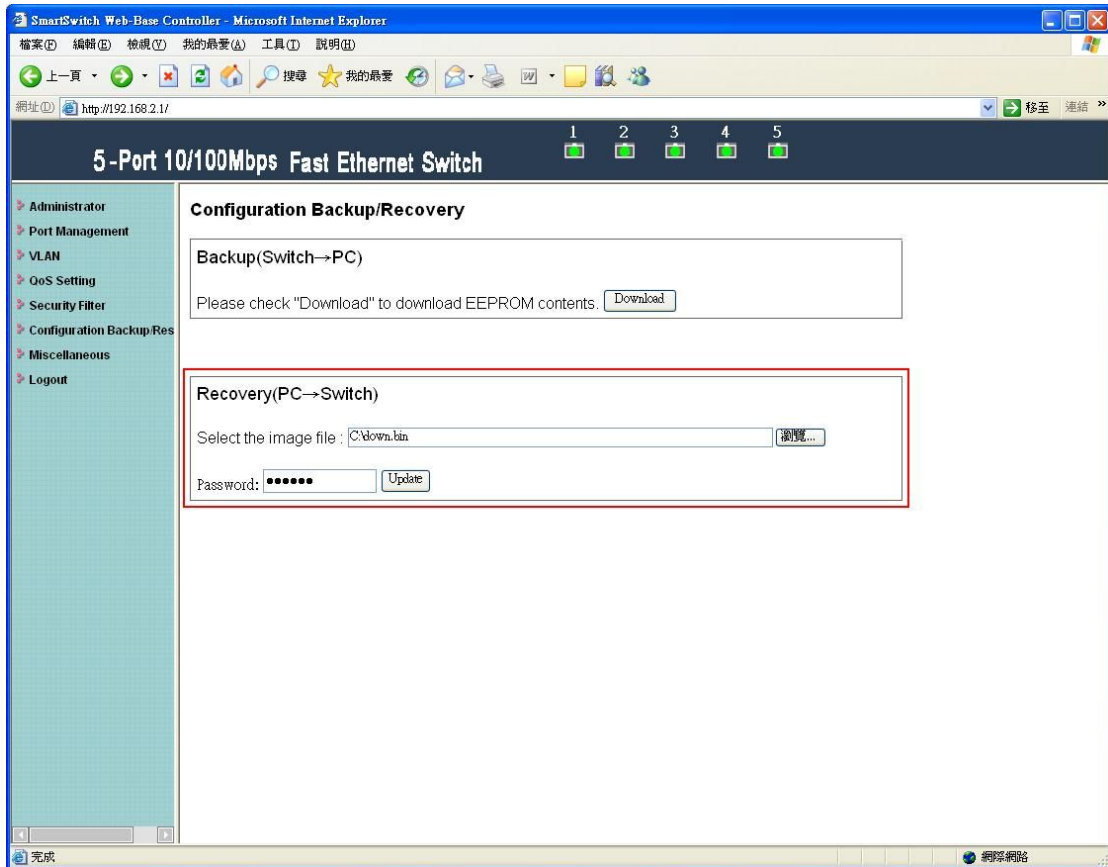
This function provides the user with a method to backup/recovery the switch configuration. The user can save configuration file to specified path. If the user wants to recover the original configuration, which is saved at the specified path, entering the password and then pressing the “upload” button could recover the original configuration.



The contents of the EEPROM can be saved to specific path, and press “Download” button.



The default name of download file is down.bin.



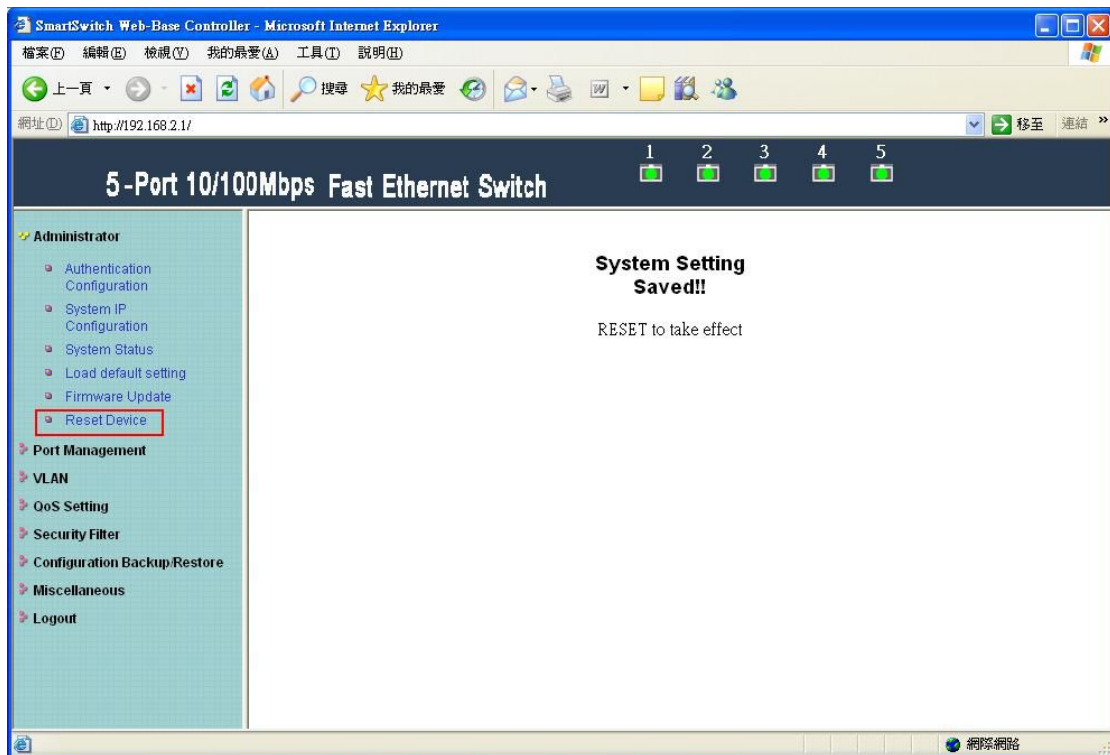
After entering down.bin, enter correct password and then press update button to upload.



The warning message will appear if entering bank or incorrect file format.



The warning message will appear if entering incorrect binary file.

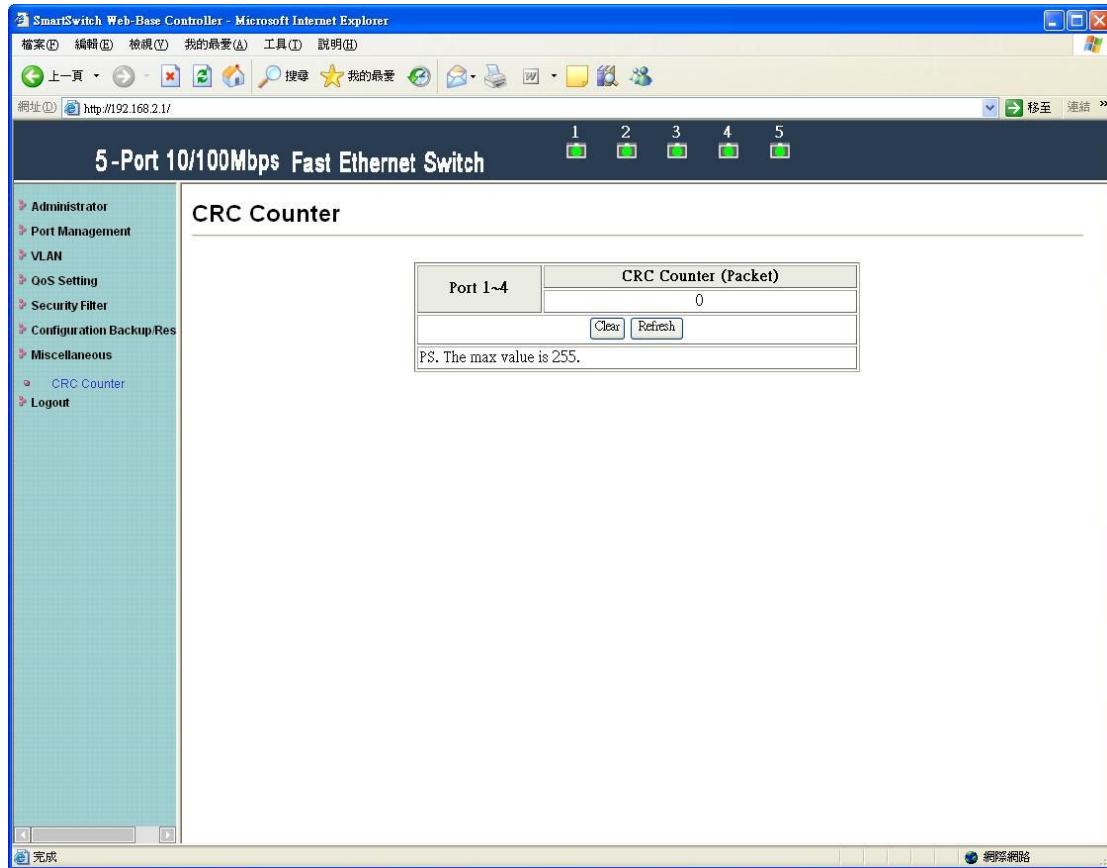


Press reset device to take effect.

# 7 Miscellaneous

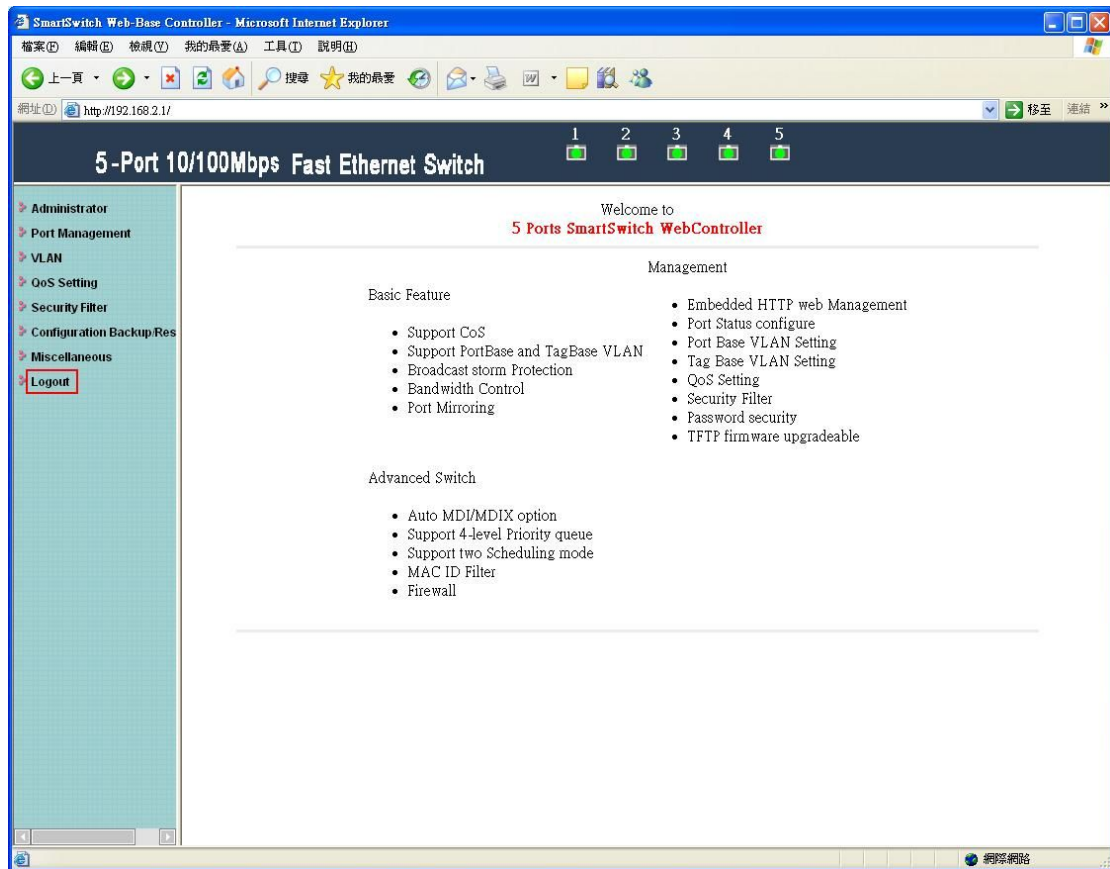
## CRC Counter

The page is used to count the CRC packets from port1-5 receiving. The maximum value of CRC counter is 255.

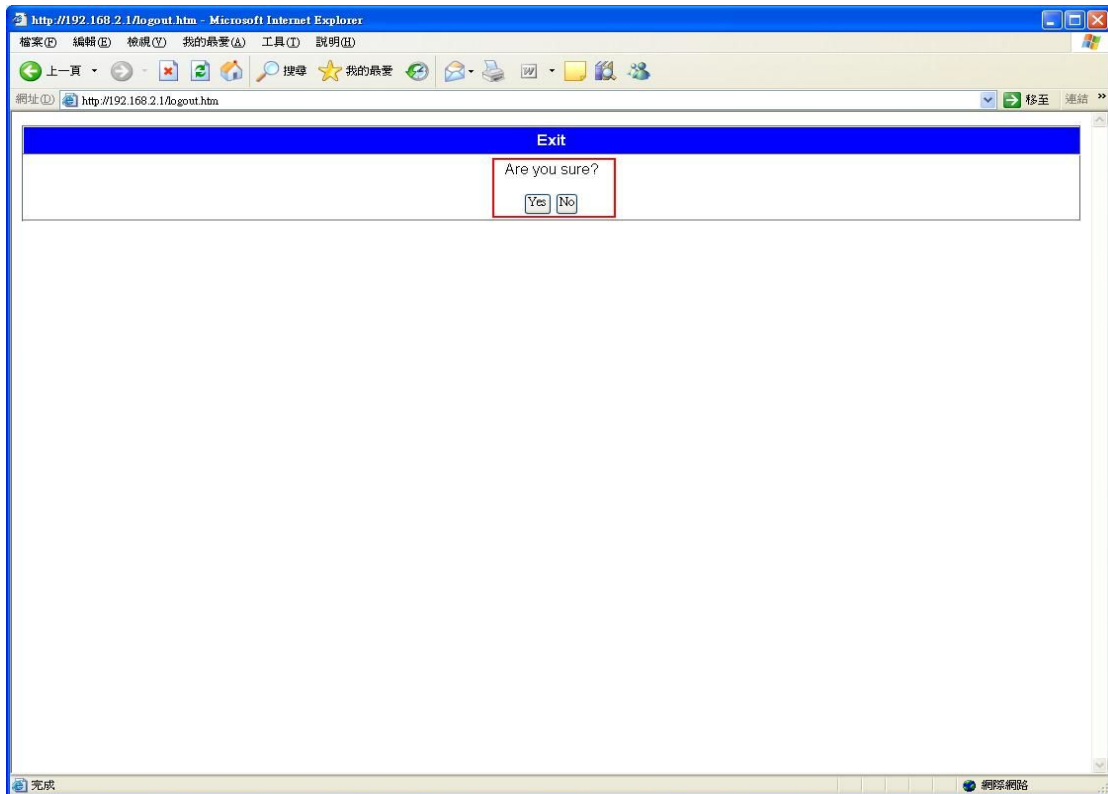


## 8 Logout

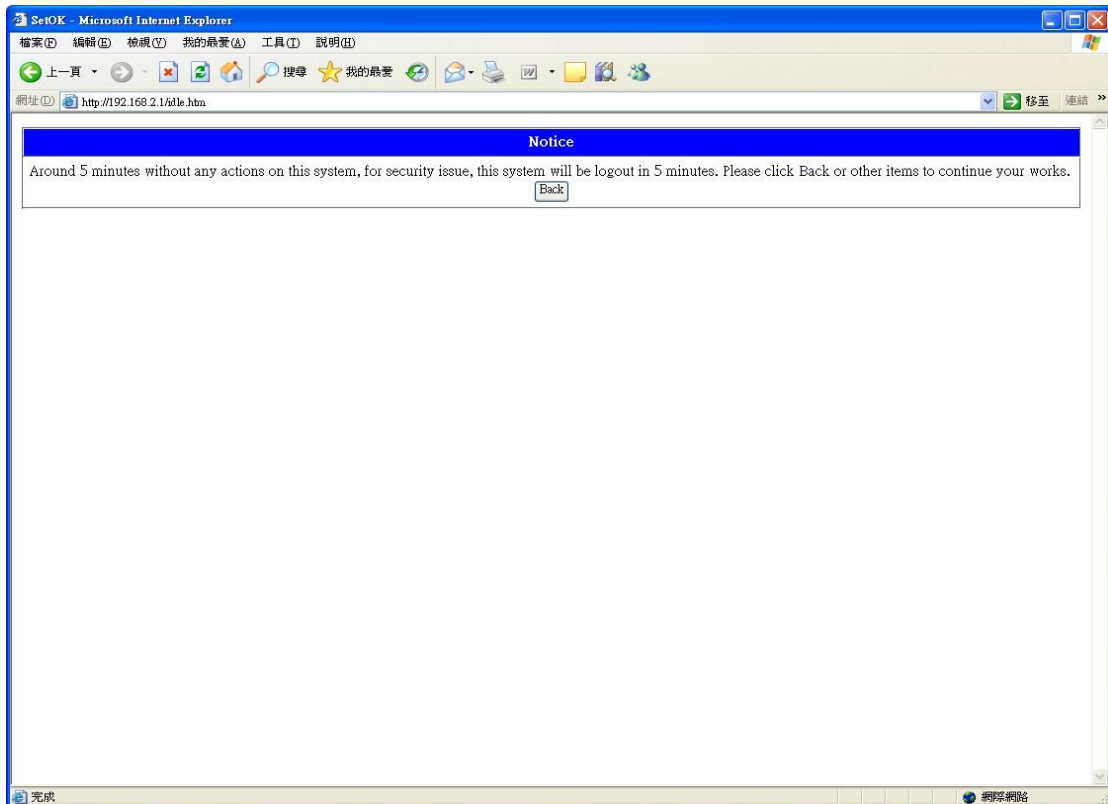
The page provides the user to logout web page.



Log out to exit web management system.



Press "Yes" button to logout.



The warning will appear if idle time is more than five minutes. The system will logout when idle time is more than ten minutes.