AS5 User Manual

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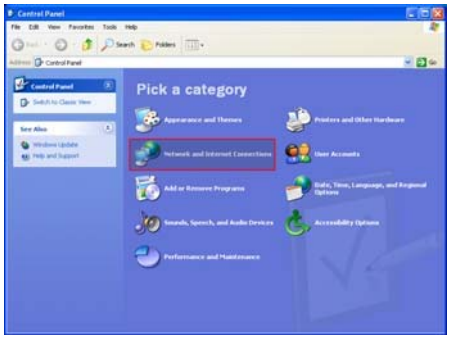
Chapter 1 : PC Preparation.

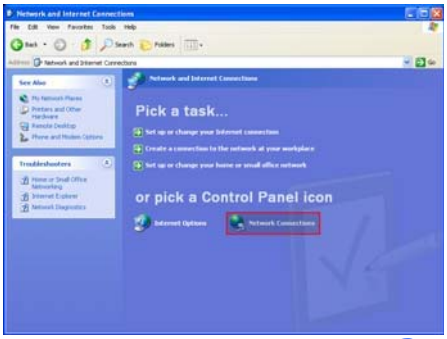
1-1. Computer set as the fixed IP :

a. From the [Start Menu] select [Settings] → select [Control Panel] → select [Network and Internet .....] → select [Network Connections] → Select [Ethernet Icon] → click and press right button of the mouse, and select [properties].

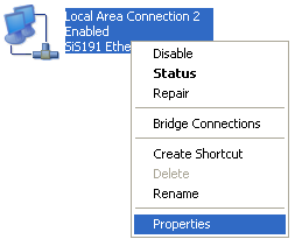
a1



a2



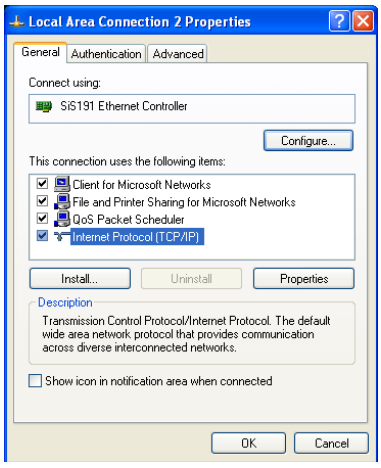
a3



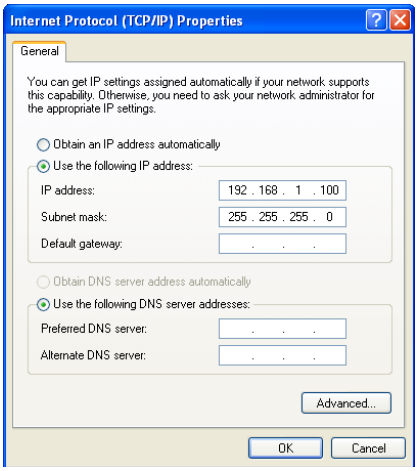
a4

b. In [General] tab, Please select [Internet Protocol (TCP/IP)] → click [Properties].

c. Select both [Use the following IP address] and [Use the following DNS server addresses]. Enter the IP address between 192.168.1.2~192.168.1.254 range ; subnet mask is 255.255.255.0 → click [OK].



b



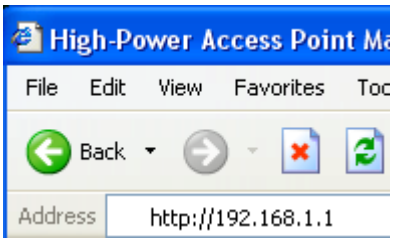
c

d. Return back to [Local Area Connection Properties] screen → click [OK] to close it.

1-2. Access the setup page :

a. Launch the web browser (this section take IE6.0 for instance).

b. Type “ 192.168.1.1 ” in the address tab then press enter.



c. It shows up the login page, type “admin” in [password] → click [login]

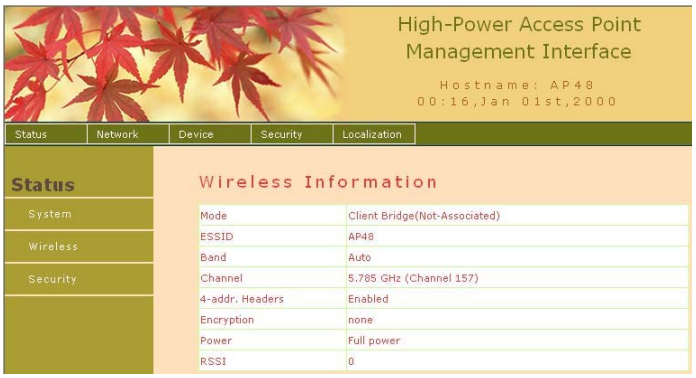
Chapter 2 : How to get the AS5 setting information?

2-1. System Status :

In this page show some information such as Hostname, Country Code, Uptime, Firmware Version, Wireless device MAC address, Wired device MAC address and Device Temperature.

2-2. Wireless Status :

In this page show some Wireless working information such as mode, ESSID, Band, Channel, 4-address Headers flag, Encryption mode, Power and RSSI. If the device work in AP-Bridge or AP-Router mode you can find out the “Client list” option beside of mode information.



2-3. Security Status :

In this page show Access Control working mode (None, Acept, Deny) or SNMP mode.

Chapter 3 : How to Set the AS5 Network information?

3-1. Wireless Settings :

there are 3 kinds of modes for wireless network settings.

a. AP Bridge :

SSID : A SSID(service set identifier) is a name used to identify the particular 802.11 wireless LANs which an user wants to attach.

Warning : Only A to Z, a to z, 0 to 9 and under line('_') can be used for SSID.

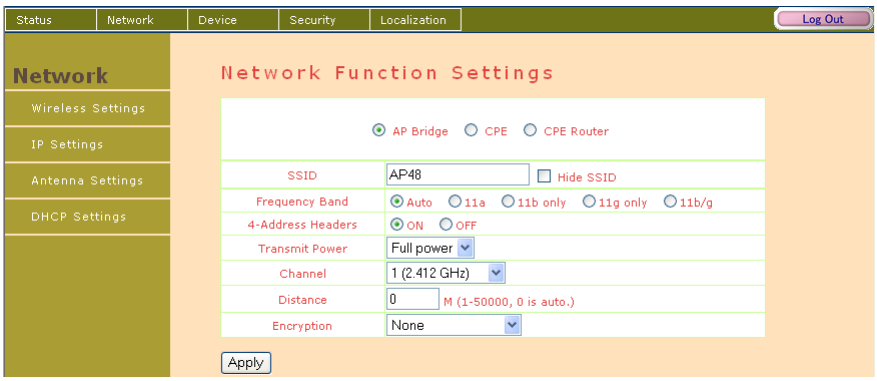
Frequency Band : This option can be choosed for 802.11 band. 802.11a only, 802.11b only, 802.11g only, 802.11bg mix or Auto.

4-Address Headers : To prevent the MAC addresses of client packets across links between access points if 4-Address Headers is enable.

Channel : Which working channel to be choosed.

Distance : Setting the timeout of device Ack.

Encryption : Selection of different kinds of Encryption mode. It support WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA-PSK2(AES), WPA-PSK2(TKIP).



b. CPE :

SSID : Choose which AP's SSID want to associate.

It can also use "Site Survey" to search AP's SSID.

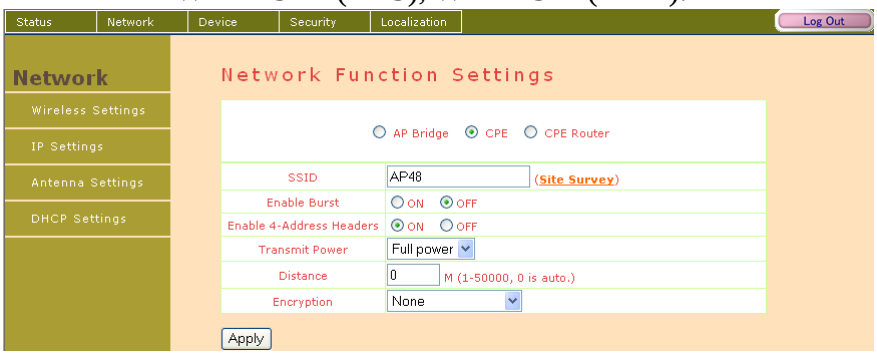
Warning : Only A to Z, a to z, 0 to 9 and under line('_') can be used for SSID.

Enable Burst : To enable Burst mode or not.

4-Address Headers : To prevent the MAC addresses of client packets across links between access points if 4-Address Headers is enable.

Encryption : Selection of different kinds of Encryption mode.

It support WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA-PSK 2(AES), WPA-PSK2(TKIP).



c. CPE Router:

SSID : Choose which AP's SSID want to associate.

It can also use "Site Survey" to search AP's SSID.

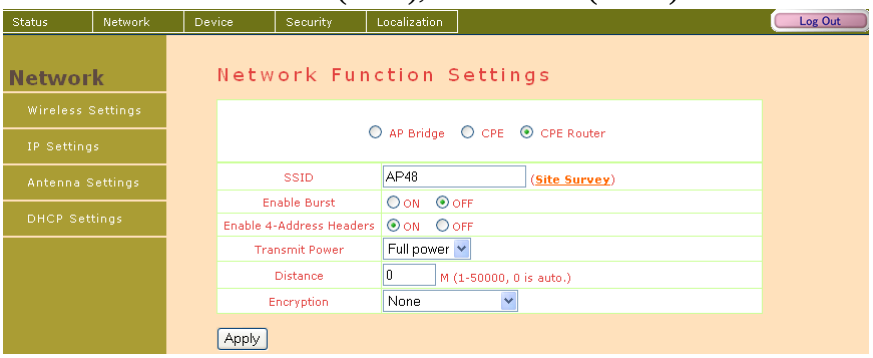
Warning : Only A to Z, a to z, 0 to 9 and under line('_') can be used for SSID.

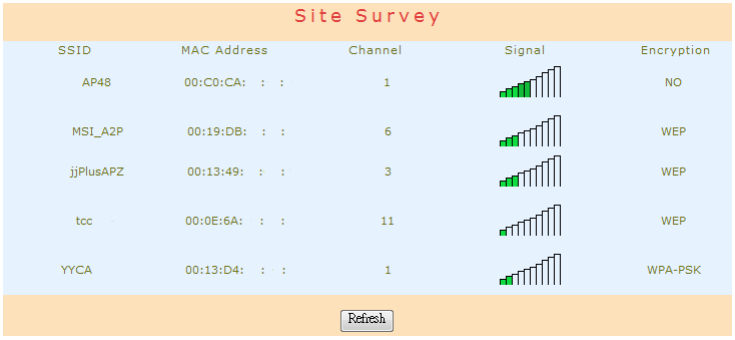
Enable Burst : To enable Burst mode or not.

4-Address Headers : To prevent the MAC addresses of client packets across links between access points if 4-Address Headers is enable.

Encryption : Selection of different kinds of Encryption mode.

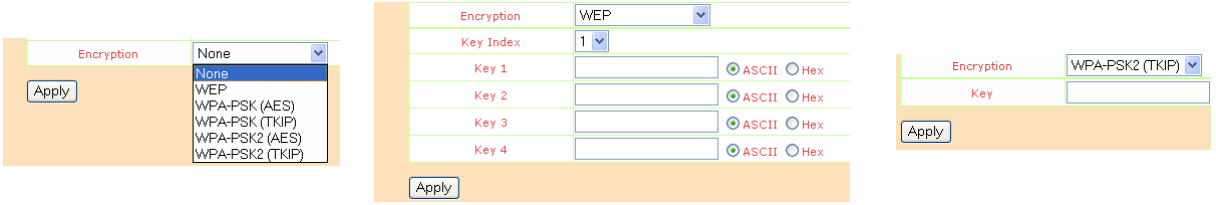
It support WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA-PSK 2(AES), WPA-PSK2(TKIP).





3-1.5. Encryption Setting :

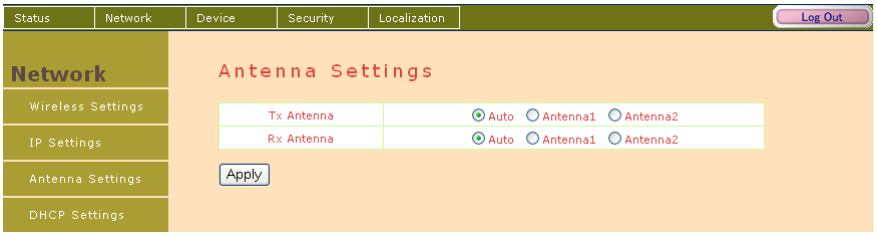
WEP : Support 64 / 128 / 256 bit ASCII (5 / 13 / 29 char).
Support 64 / 128 / 256 bit Hex (10 / 26 / 58 char).
WPA-PSK (AES) : Support 8 to 63 char.
WPA-PSK (TKIP) : Support 8 to 63 char.
WPA2-PSK (AES) : Support 8 to 63 char.
WPA2-PSK (TKIP) : Support 8 to 63 char.



3-2. Antenna Setting :

To select Antenna Connector.

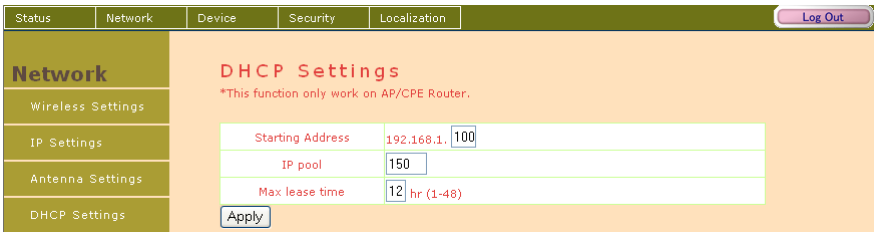
Warning : Please contact your hardware provider to see if the hardware supports antenna selection.



3-3. DHCP Setting :

To set DHCP configure.
Starting Address : To setting DHCP start address.
IP Pool : The number of the available IP addresses that DHCP offers.
Max lease time : Lease times should not be very short (less than one hour).

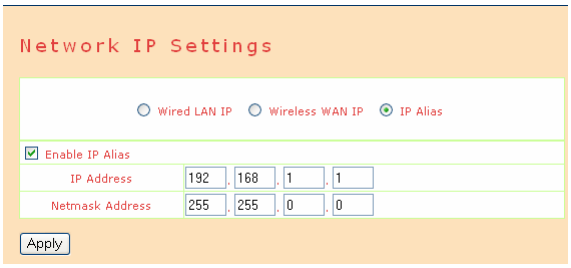
Warning: The sum of IP pools and start address ***DONOT*** exceeds "254".



3-4. IP Settings :

there are 3 kinds of options for wired network setting.

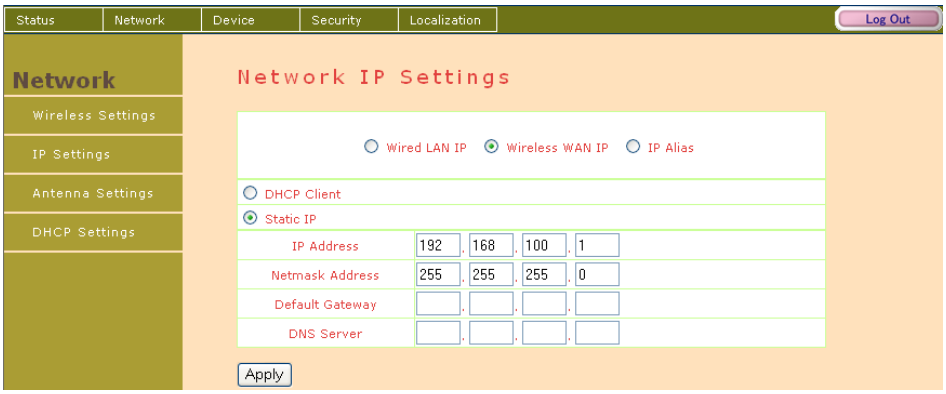
a. IP Alias : This IP address is mainly for users to access management interface.



b. Wired LAN IP :

DHCP : Automatically get the IP address from DHCP Server.

Static IP : Asign a Static IP to this Device.



c. Wireless WAN IP :

DHCP : Automatically get the IP address from DHCP Server.

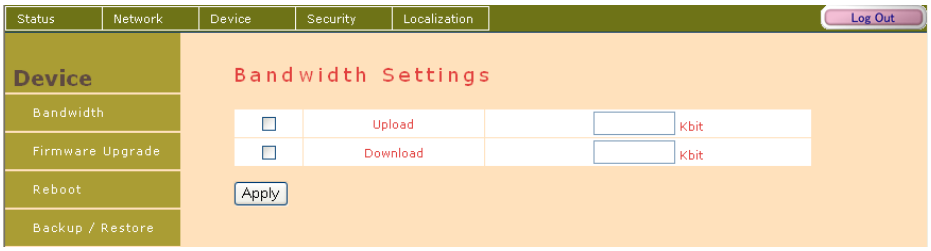
Static IP : Asign a Static IP to this Device.

Wireless WAN IP option only works on CPE Router mode in Wireless Settings. It is the IP settings of target network which mode could be selected depend on the network environment.

Chapter 4 : AS5 Device Function.

4-1. Bandwidth settings :

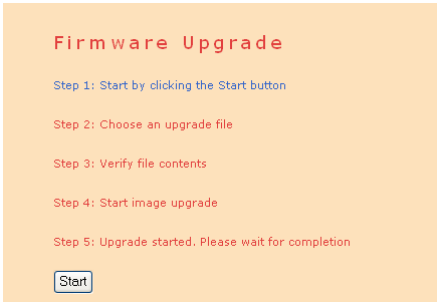
Setup the maximum the wireless Upload and Download Bandwidth.



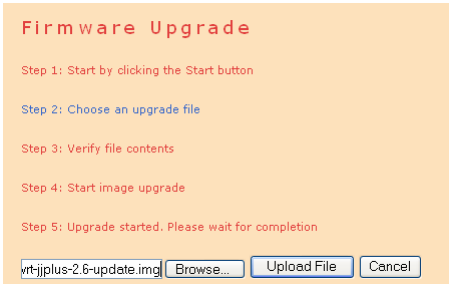
4-2. Firmware Upgrade :

Firmware upgrade procedure:

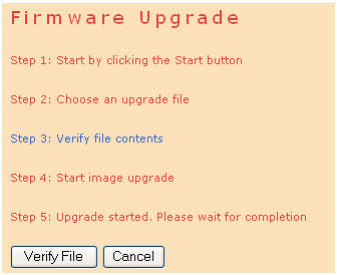
Step1 : click “start” button to start up firmware upgrade.



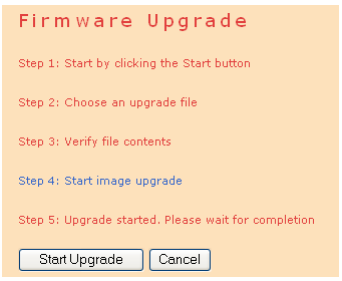
Step2 : a. Click “Browse...” button to select the firmware image file.
b. After selection click “Open”.
c. Click “Upload” button to upload image otherwise Click “Cancel” button to cancel firmware upgrade function.



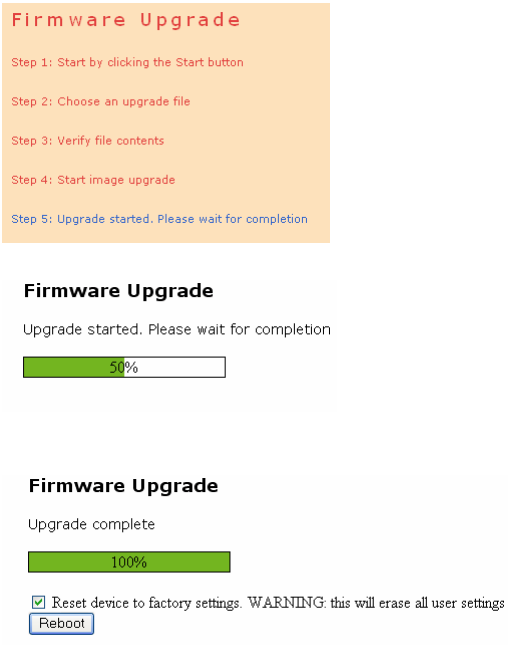
Step3 : click “Verify” button to start up verify firmware image.



Step4 : Click “Start Upgrade” button to upgrade image or Click “Cancel” button to cancel firmware upgrade function.



Step5 : Click “Reboot” button to restart device when upgrade bar was 100% Complete.



4-3. Device Reboot :

To reboot the device.

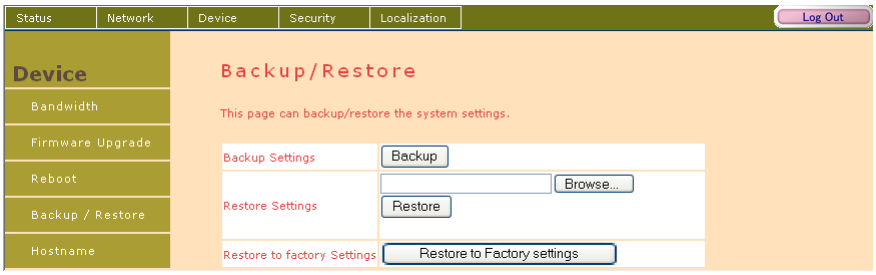
4-4. Hostname :

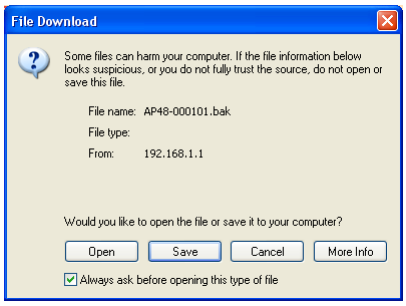
The idenfication of the device.

The hostname is used to identify a particular host in various forms of electronic communication.

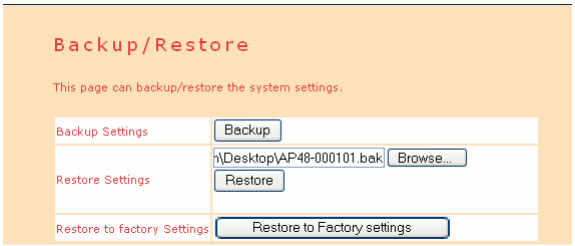
4-5. Backup / Restore :

Backup or restore setting.





Download the Backup file*.BAK.



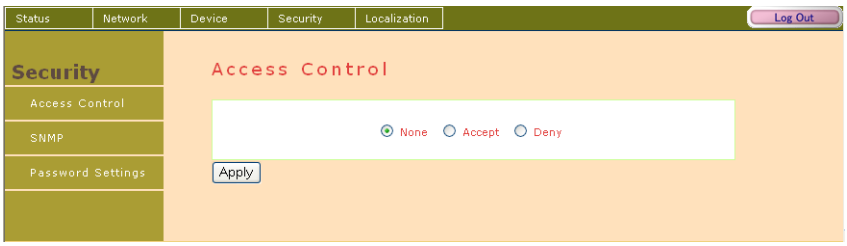
Chapter 5 : Security Management for networks.

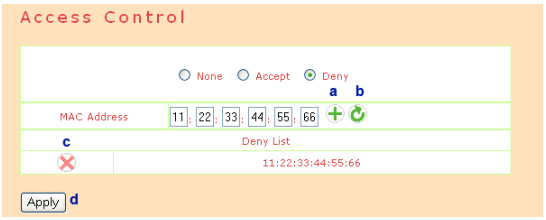
5-1. Access Control :

Connection control by MAC address.

a. Add : Add a MAC address into Access list.
b. Clear : Clear building list.
c. Del : Delete MAC address from Access list.
d. Apply : Apply selected list to the AP.

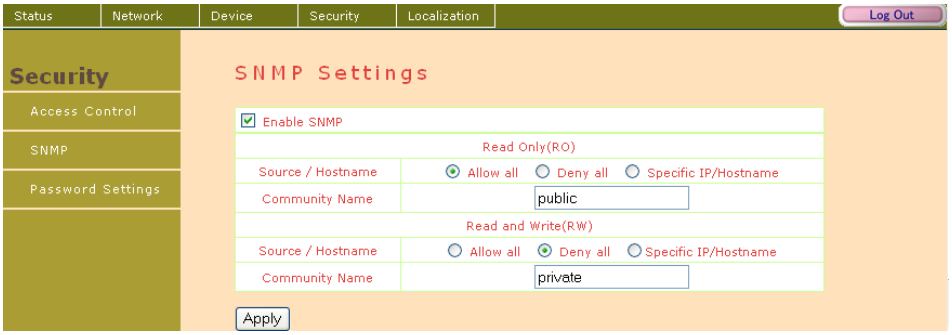
Only one list (None / Accept / Deny) be start up in the same time.

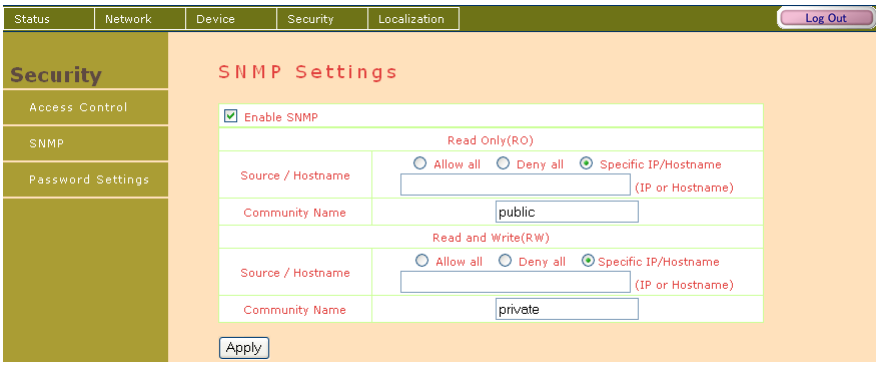




5-2. SNMP :

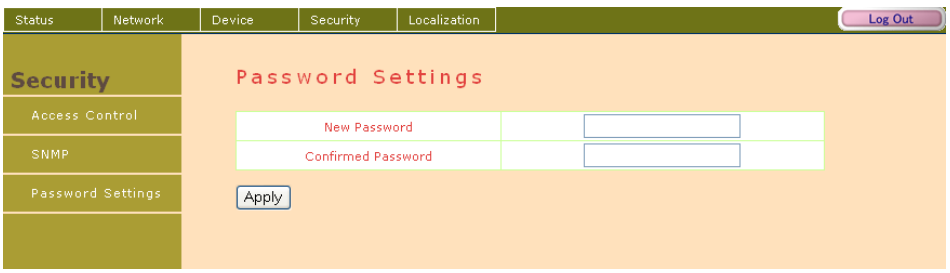
SNMP is used in network management systems to monitor network-attached devices for conditions that warrant administrative attention.





5-3. Password :

To change login password of Web User Interface.

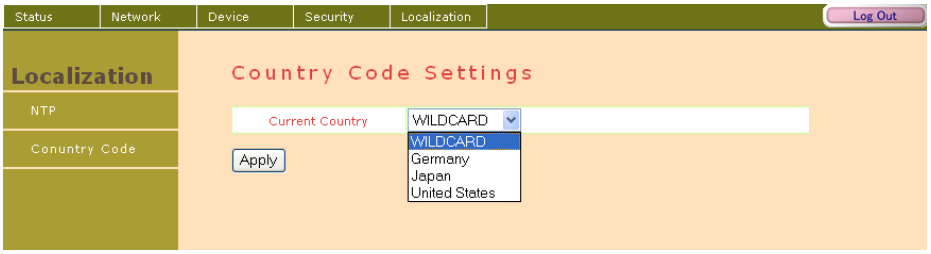


Chapter 6 : Localization.

6-1 Country Code :

Support 4 different country codes.

a. Wildcard
b. Germany
c. Japan
d. United States



6-2 NTP :

The Network Time Protocol (NTP) is a protocol to synchronize the clocks of computer systems over networks.