11b/g Long Range Multi-Function AP

EOA3630

User's Manual

Version : 1.0

Table of Contents

1 Product Overview

Thank you for using EOA3630. It is a powerful, enhanced, enterprise scale product with 7 multi-functions Access Point, Access Point with WDS function, Client Bridge, WDS Bridge, Repeater, AP Router and Client Router.

EOA3630 is easily to install almost anywhere by wall mount kit and also support Power over Ethernet for quick outdoor installation. External N-type antenna provides better wireless signal quality and the antenna is upgradeable.

EOA3630 can manage power level control, Narrow bandwidth selection, Traffic shaping and Real-time RSSI indicator. EOA3630 is fully support of security encryption including WI-Fi Protected Access (WPA-PSK/WPA2-PSK), 64⁄128⁄152-bit WEP Encryption and IEEE 802.1x with RADIUS Accounting.

1.1 Feature

The following list describes the design of the EOA3630 made possible through the power and flexibility of wireless LANs:

a) **Difficult-to-wire environments**

There are many situations where wires cannot be laid easily. Historic buildings, older buildings, open areas and across busy streets make the installation of LANs either impossible or very expensive.

b) **Temporary workgroups**

Consider situations in parks, athletic arenas, exhibition centers, disaster-recovery, temporary offices and construction sites where one wants a temporary WLAN established and removed.

c) **The ability to access real-time information**

Doctors/nurses, point-of-sale employees, and warehouse workers can access real-time information while dealing with patients, serving customers and processing information.

d) **Frequently changed environments**

Show rooms, meeting rooms, retail stores, and manufacturing sites where frequently rearrange the workplace.

e) **Wireless extensions to Ethernet networks**

Network managers in dynamic environments can minimize the overhead caused by moves, extensions to networks, and other changes with wireless LANs.

f) Wired LAN backup

Network managers implement wireless LANs to provide backup for mission-critical applications running on wired networks.

g) Training/Educational facilities

Training sites at corporations and students at universities use wireless connectivity to ease access to information, information exchanges, and learning.

1.2 Benefits

Features	Benefits
High Speed Data Rate Up to 108Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 28 dBm	Extended excellent Range and Coverage
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE 802.11g compliant devices
Watertight and Weatherproof	Avoid water invaded and weather corroded for outdoor environment
Wall mount and mast mounting kit support	Building on Outdoor environment easily.
Detachable antenna support (N-Type)	Collocate with any antenna for user's environment
7 Multi-Function	Users can use different mode in various environment
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
Channel Bandwidth Selection	Using different bandwidth to reach varied distance
Support RSSI Indicator (CB mode)	Users can select the best signal to connect with AP easily
Power-over-Ethernet	Flexible Access Point locations and cost savings. EOA3630 must uses the adapter provided in the package.
Support Multi-SSID function (4 SSID) in AP mode	Allow clients to access different networks through a single access point and assign different policies and functions for each SSID by manager
WPA2/WPA/ WEP/ IEEE 802.1x support	Fully support all types of security types.
MAC address filtering in AP mode	Ensures secure network connection

PPPoE/PPTP function support (AP Router/CR mode)	Easy to access internet via ISP service authentication
SNMP Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
QoS (WMM) support	Enhance user performance and density
High Speed Data Rate Up to 108Mbps	Capable of handling heavy data payloads such as MPEG video streaming

1.3 Package Contents

Open the package carefully, and make sure that none of the items listed below are missing. Do not discard the packing materials, in case of return; the unit must be shipped in its original package.

- 1* Wireless Long Range Multi-Function AP (EOA3630)
- 1* 24V/0.6A Power Adapter
- 1* Mounting kit
- 1* QIG
- 1* CD (User Manual)
- 1* 5dBi 2.4GHz Dipole Antennas

Auction: Using other Power Adapter than the one included with EOA3630 may cause damage of the device.

1.4 System Requirement

The following conditions are the minimum system requirement.

- A computer with an Ethernet interface and operating under Windows XP, Vista, 7 or Linux.
- Internet Browser that supports HTTP and JavaScript.

1.5 Hardware Overview

MCU	Atheros SoC, 180MHz
Memory	32MB SDRAM
Flash	8MB
Physical Interface	- LAN: One 10/100 Fast Ethernet RJ-45 - Reset Button
LEDs Status	1 x Power/ Status 1 x LAN (10/100Mbps) 1 x WLAN (Wireless is up) 3 x Link Quality (Client Bridge mode) • Green: Good Quality • Yellow: Marginally Acceptable Quality • Red: Bad Quality
Power Requirements	Active Ethernet (Power over Ethernet) 24V / 0.6A
Regulation Certifications	FCC Part 15 / UL, ETSI 300 / 328 / CE

2 EOA3630 Multi-Function Instruction Guide

2.1 Access Point

In the Access Point Mode with WDS Function, EOA3630 function likes a central connection for any stations or clients that support IEEE 802.11b/g and SuperG network. Stations and Client must configure the same SSID and Security Password to associate within the range. EOA3630 supports 4 different SSIDs to separate different clients at the same time.

2.2 Access Point with WDS Function

EOA3630 also supports WDS function in Access Point Mode without losing AP's capabilities. Configure others Access Point's Wireless MAC Address in both Access Point devices to enlarge the wireless area by enabling WDS Link Settings. WDS function can support up to 8 different AP's MAC addresses.

Auction: Not every Access Point device has support WDS in Access Point Mode. It is recommended using EOA3630 if you would like to use this service.

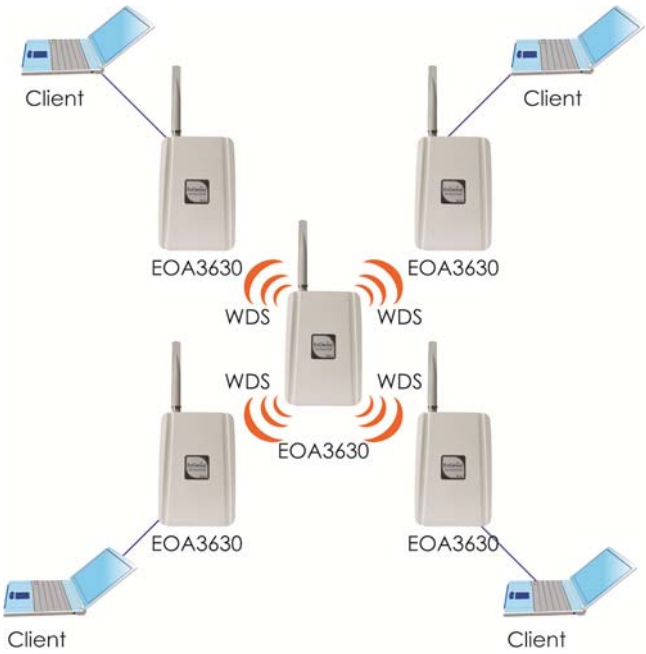
2.3 Client Bridge

In the Client Bridge Mode, the EOA3630 function likes a wireless dongle. Connected to an Access Point wirelessly and surf internet whenever you want. Using Site Survey to scan all the Access Point within the range and configure its SSID and Security Password to associate with it. Connect you station to the LAN port of the EOA3630 via Ethernet.

2.4 WDS Bridge

In the WDS Bridge Mode, the EOA3630 can wirelessly connect different LANs by just simply configure each other's MAC Address and Security Settings. This mode is used when two wired LANs locate in small distance and want to communicate each other. The best solution is using EOA3630 wirelessly connect two wired LANs. WDS Bridge Mode can establish 16 WDS links, the connection diagram is like a Star.

Auction: WDS Bridge Mode is not function like Access Point. APs linked by WDS are using the same frequency channel, more APs connected together may lower throughput. Please be aware to avoid loop connection diagram, otherwise enable Spanning Tree Function.



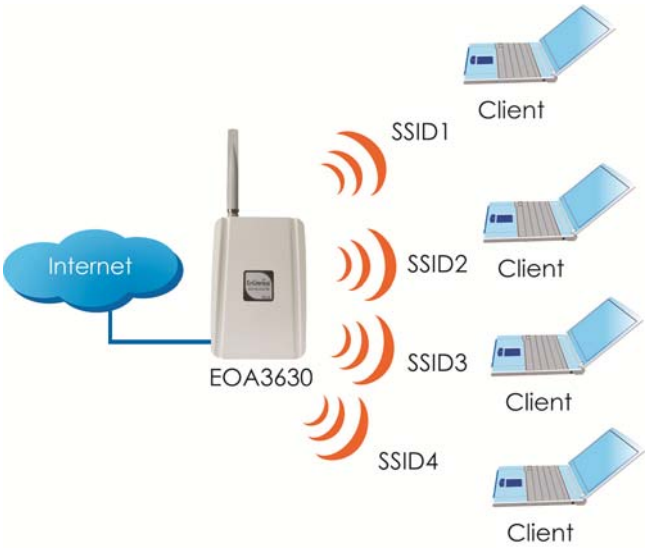
2.5 Repeater

In the Repeater Mode, the EOA3630 can extend the wireless coverage area of another Access Point or Wireless Router. Access Point or Wireless Router must within the range and EOA3630 must use the same SSID, Security Password and Channel.

2.6 AP Router

In the AP Router Mode, the EOA3630 has DHCP server build inside that allows you to configure easily via wireless. AP Router Mode can also support four different SSIDs. Use wireless device to associate with EOA3630, connect an Ethernet through the WAN port. You can surf internet whenever you want

within the range.



2.7 Client Router

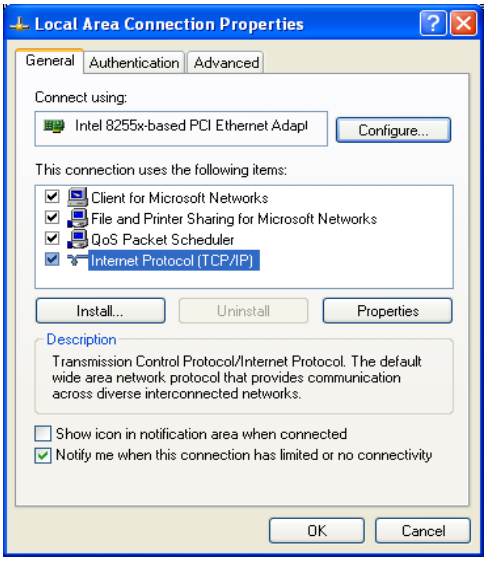
In the Client Router Mode, the EOA3630 has DHCP Server build inside that allows many LANs automatically generate an IP address to share the same Internet. Connect an AP/WISP Wirelessly and connect to LANs via wired. Client Router Mode is act completely opposite to the AP Router Mode.

3 Computer Configuration Instruction

3.1 Assign a Static IP

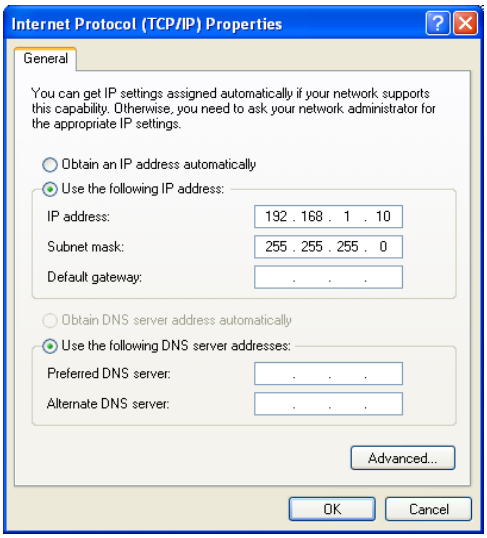
In order to configure EOA3630, please follow the instruction below:

1. In the **Control Panel**, double click **Network Connections** and then double click on the connection of your **Network Interface Card (NIC)**. You will then see the following screen.



2. Select **Internet Protocol (TCP/IP)** and then click on the **Properties** button. This will allow you to configure the TCP/IP settings of your PC/Notebook

3. Select **Obtain an IP Address automatically** radio button and then enter the IP address and subnet mask. Ensure that the IP address and subnet mask are on the same subnet as the device.



4. Click on the **OK** button to close this window, and then close LAN properties window.

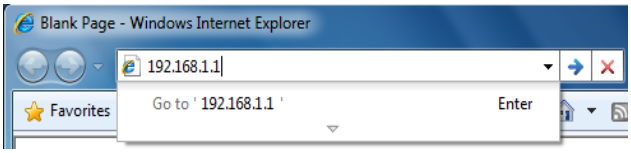
Auction: IP Address entered in the TCP/IP Properties needs to be at the same subnet of the EOA3630 IP Address. For example: EOA3630's default IP Address is **192.168.1.1** so the IP Address in the TCP/IP settings could be **192.168.1.10**.

3.2 Logging Method

After complete the IP settings from last section, you can now access the web-based configuration menu.

1. Open web browser

2. Enter IP **192.168.1.1** into you address filter.



Auction: If you have changed the EOA3630 LAN IP address, make sure you enter the correct IP Address.

3. After connected to the EOA3630 successfully, browser will pop out a Windows Security window. Please enter the correct **Username** and **Password**.

4. The default Username and Password are both **admin**.

Auction: If you have changed the Username and Password, please enter your own Username and Password.

4 Wireless Configuration

4.1 Switching Operation Mode

The EOA3630 supports 6 different operation modes: Access Point, Client Bridge, WDS Bridge, Repeater, AP Router, and Client Router.

Click **System Properties** under System Section to begin.

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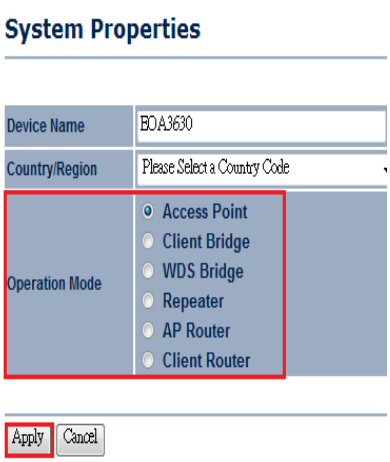
Device Name: Specify a name for the device, but it is not the broadcast SSID.
Country/Region: Select a Country/Region to conform local regulation.
Operation Mode: Select an operation mode via **Radio Button**.

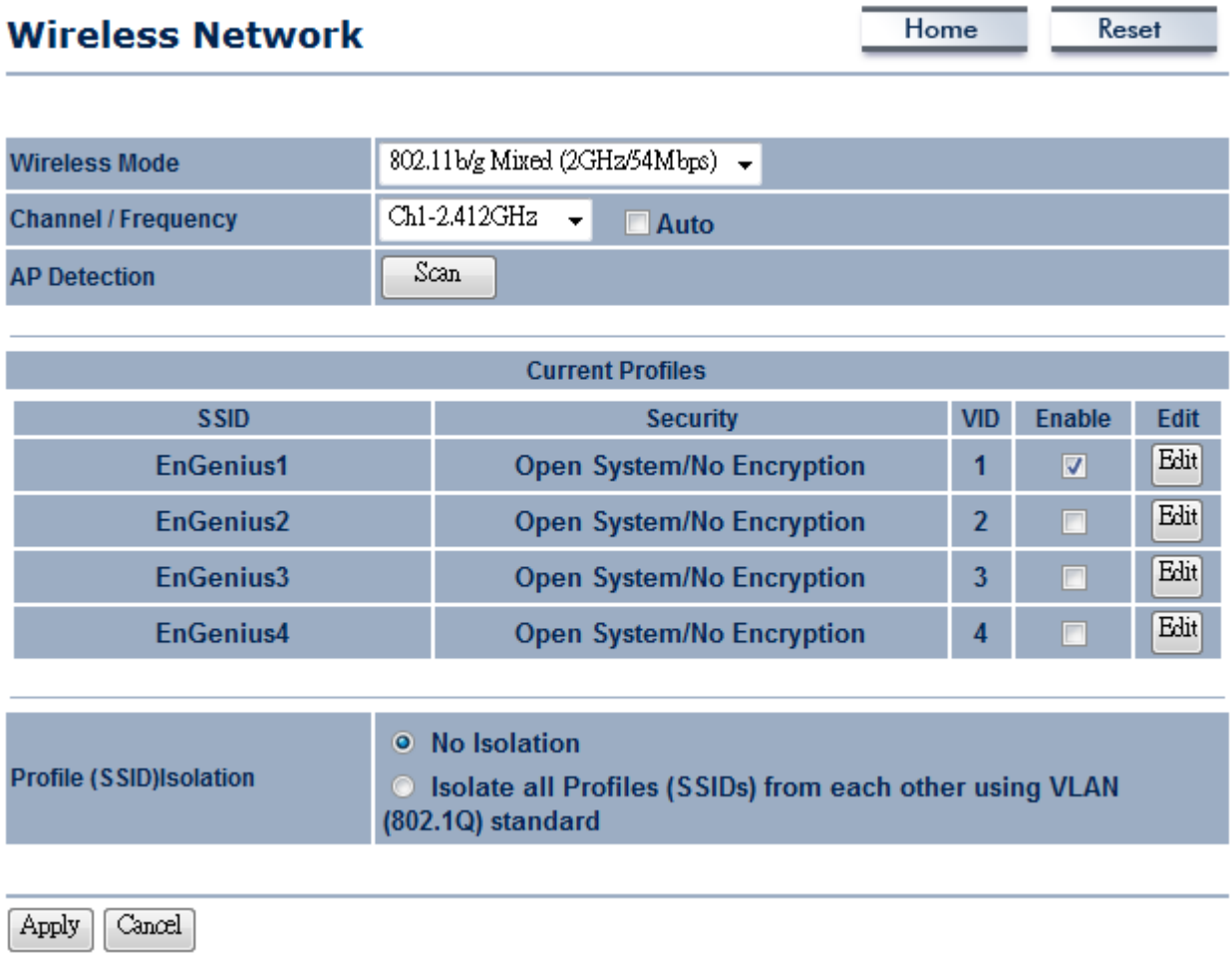
Click **Apply** to save the changed.



Note: If you would like to use Access Point with WDS Function mode, please select Access Point Mode and then enable WDS Link Settings function.

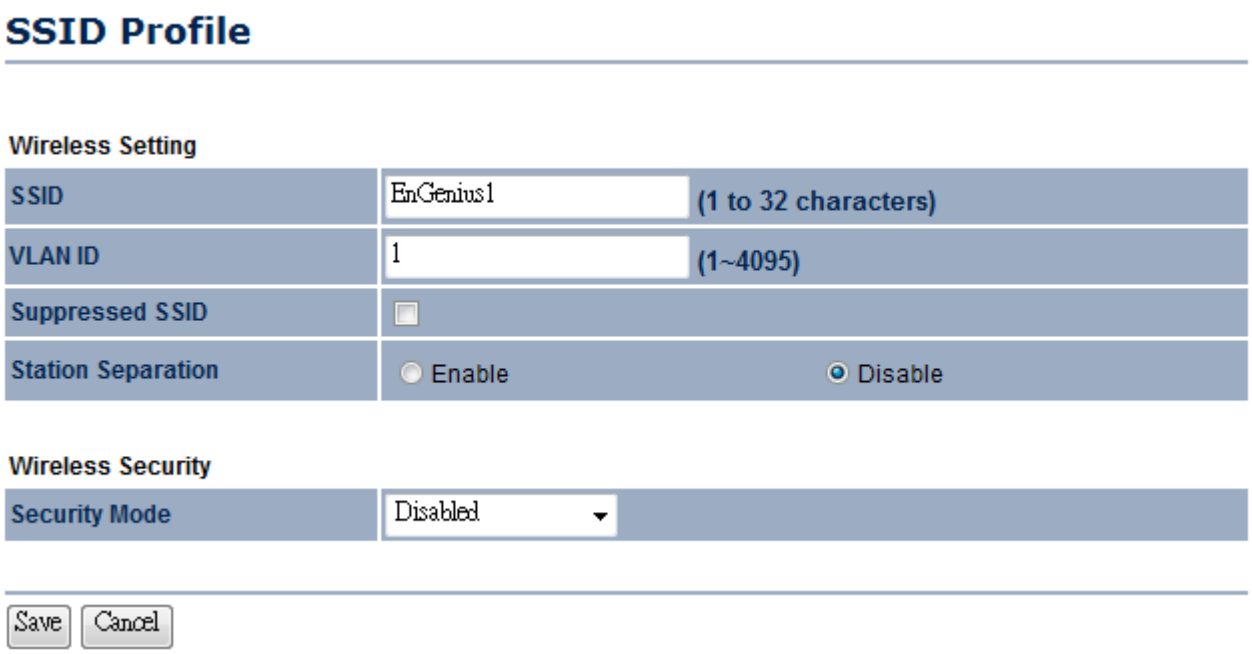
4.2 Wireless Settings

4.2.1 Access Point Mode



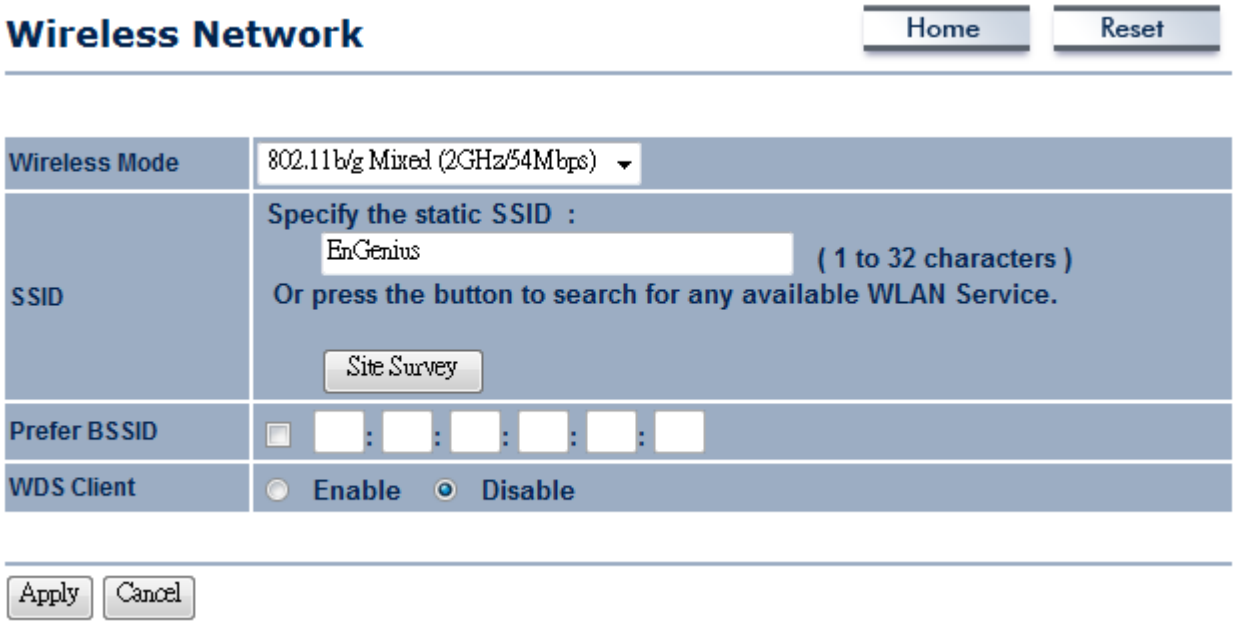
Wireless Mode	Select the desired 802.11 standard modes or SuperG mode. There are four different modes and they are 802.11b, 802.11g Only, 802.11 b/g mixed and SuperG.
Channel / Frequency	The channel availability is based on the country's regulation.
Auto	Place a **Check** to enable Auto channel selection.
AP Detection	AP Detection can help to select a best channel by scan nearby area.
Current Profile	Configure up to four different SSIDs, it can help to divide group of clients to access the network. Press **Edit** to configure the profile and place a **Check** to enable extra SSID.
Profile Isolation	Restricted Client to communicate with different VID by Selecting the Radio button.

Auction: SuperG is a special feature in EOA3630. If the client does not support SuperG, it cannot establish a wireless connection successfully.

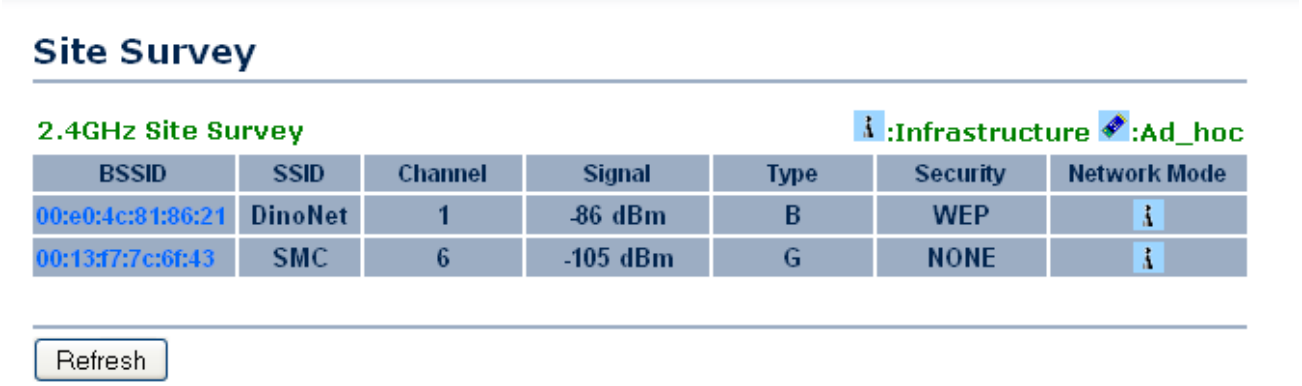


SSID	Specify the SSID for current profile.
VLAN ID	Specify the VLAN tag for current profile.
Suppressed SSID	Place a **Check** to hide the SSID. Client will not be able to see the broadcast SSID in Site Survey.
Station Separation	Select the Radio Button to allow / deny client to communicate each other.
Wireless Security	Please refer to the Wireless Security section.
Save / Cancel	Press **Save** to save the changes or **Cancel** to return previous settings.

4.2.2 Client Bridge Mode



Wireless Mode	Select the desired 802.11 standard modes or SuperG mode. There are four different modes and they are 802.11b, 802.11g Only, 802.11 b/g mixed and SuperG.
SSID	Specify the SSID if known. SSID text box will be automatically fill in when select an AP in the Site Survey.
Site Survey	Using Site Survey to scan nearby APs and then select the AP to establish the connection.
Prefer BSSID	Specify the MAC address if known. Prefer BSSID text box will be automatically fill in when select an AP in the Site Survey.
WDS Client	Place a Radio button to Enable / Disable WDS Client.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

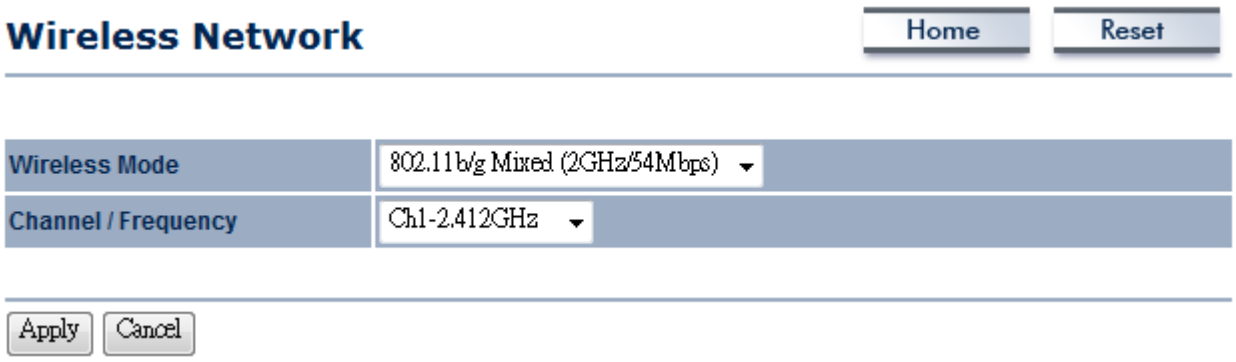


Profile	After Site Survey, webpage will display all nearby area's Access Point. Click the BSSID if you would like to connect with it.
Wireless Security	Please refer to the Wireless Security section.

Refresh	Press Refresh to scan again.

Auction: If the Access Point is suppressed its own SSID, SSID section will be blank, the SSID must be filled in manually.

4.2.3 WDS Bridge Mode

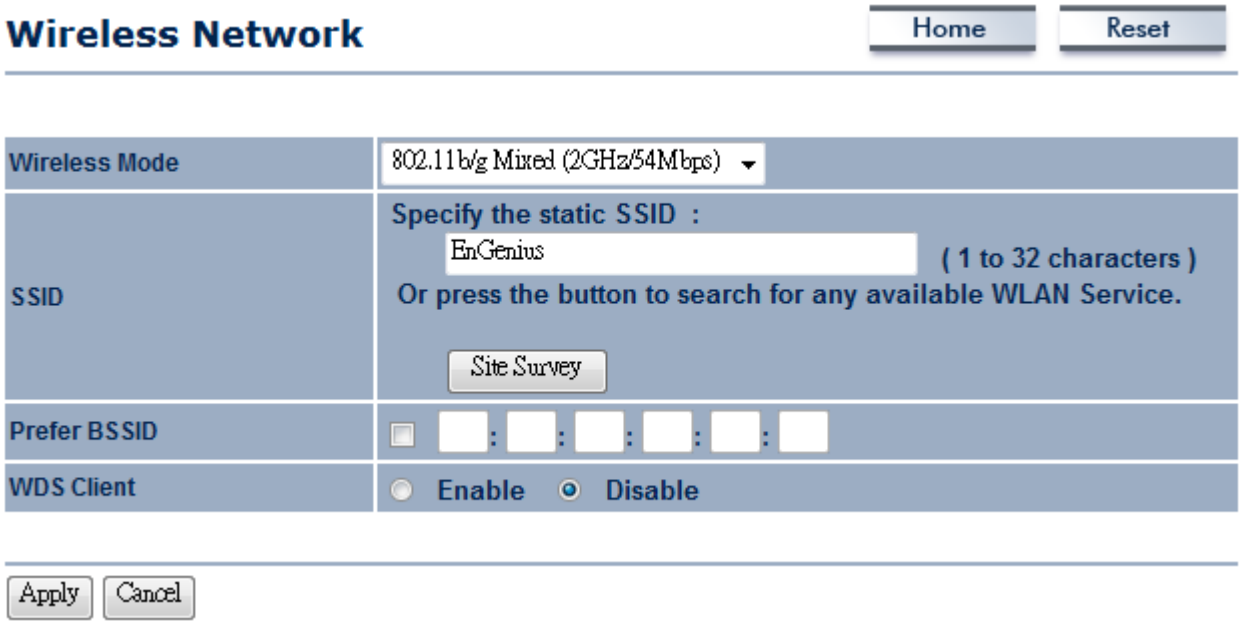


Wireless Mode	Select the desired 802.11 standard modes or SuperG mode. There are four different modes and they are 802.11b, 802.11g Only, 802.11 b/g mixed and SuperG.
Channel / Frequency	The channel availability is based on the country's regulation.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

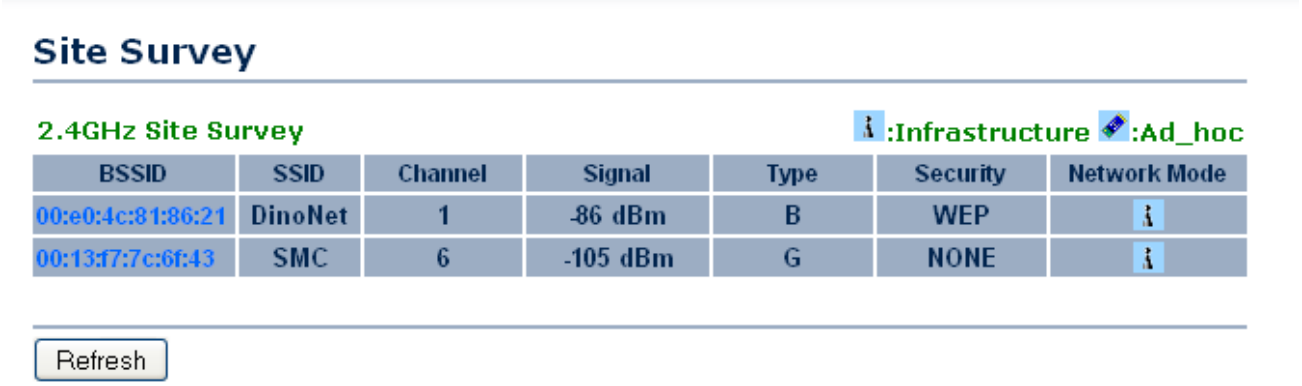
MAC Address	Enter the Access Point's MAC address that you would like to extend the wireless area into the MAC address filter.
Mode	Select Disable or Enable from the drop down list.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: The Access Point that you would like to extend the wireless area must enter your Access Point's MAC address. Not all Access Point supports this feature.

4.2.4 Repeater Mode



Wireless Mode	Select the desired 802.11 standard modes or SuperG mode. There are four different modes and they are 802.11g Only, 802.11 b/g mixed and SuperG.
SSID	Specify the SSID if known. SSID text box will be automatically fill in when select an AP in the Site Survey.
Site Survey	Using Site Survey to scan nearby APs and then select the AP to establish the connection.
Prefer BSSID	Specify the MAC address if known. Prefer BSSID text box will be automatically fill in when select an AP in the Site Survey.
WDS Client	Place a Radio button to Enable / Disable WDS Client.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

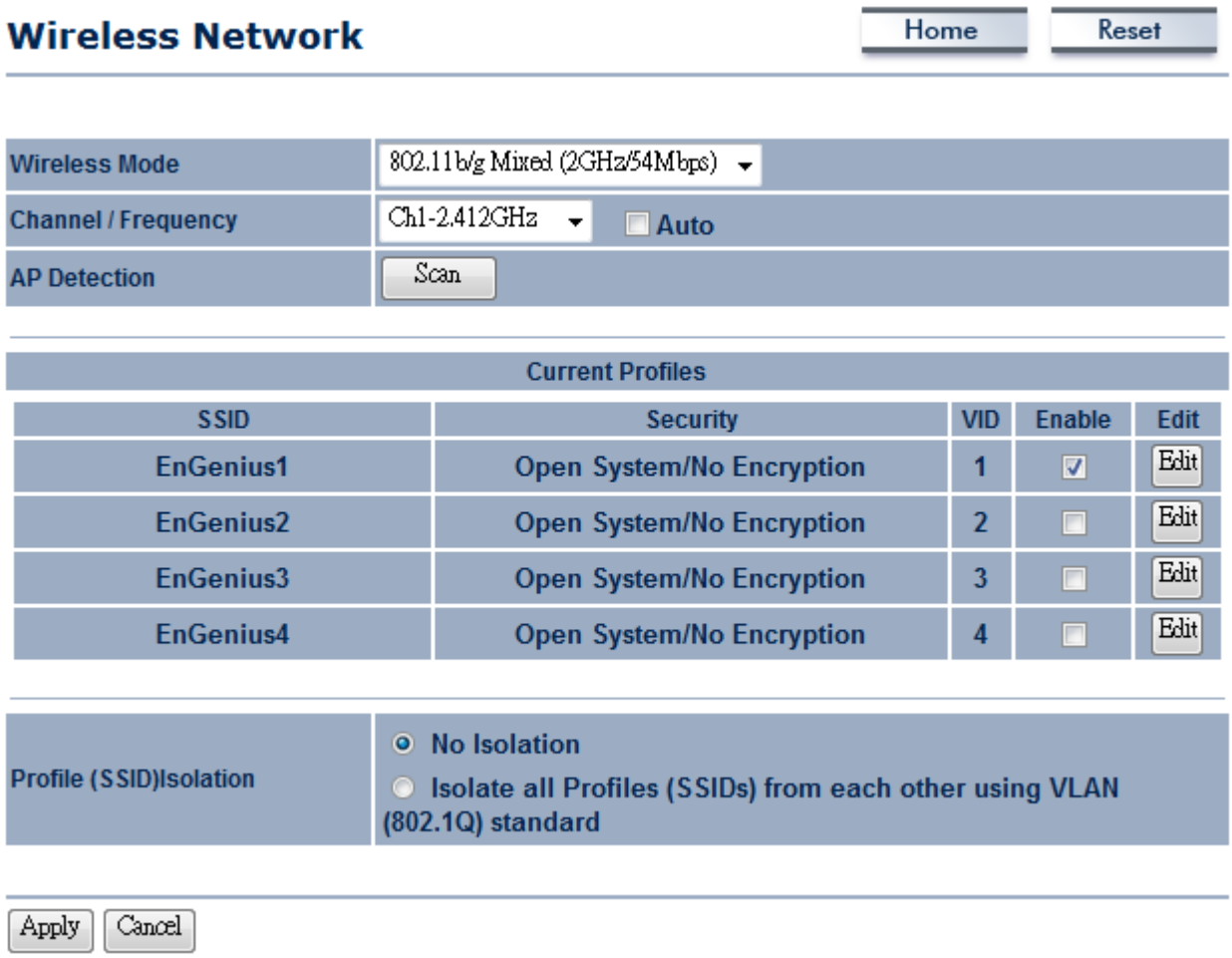


Profile	After Site Survey, webpage will display all nearby area's Access Point. Click the BSSID if you would like to connect with it.
Wireless Security	Please refer to the Wireless Security section.

Refresh	Press Refresh to scan again.

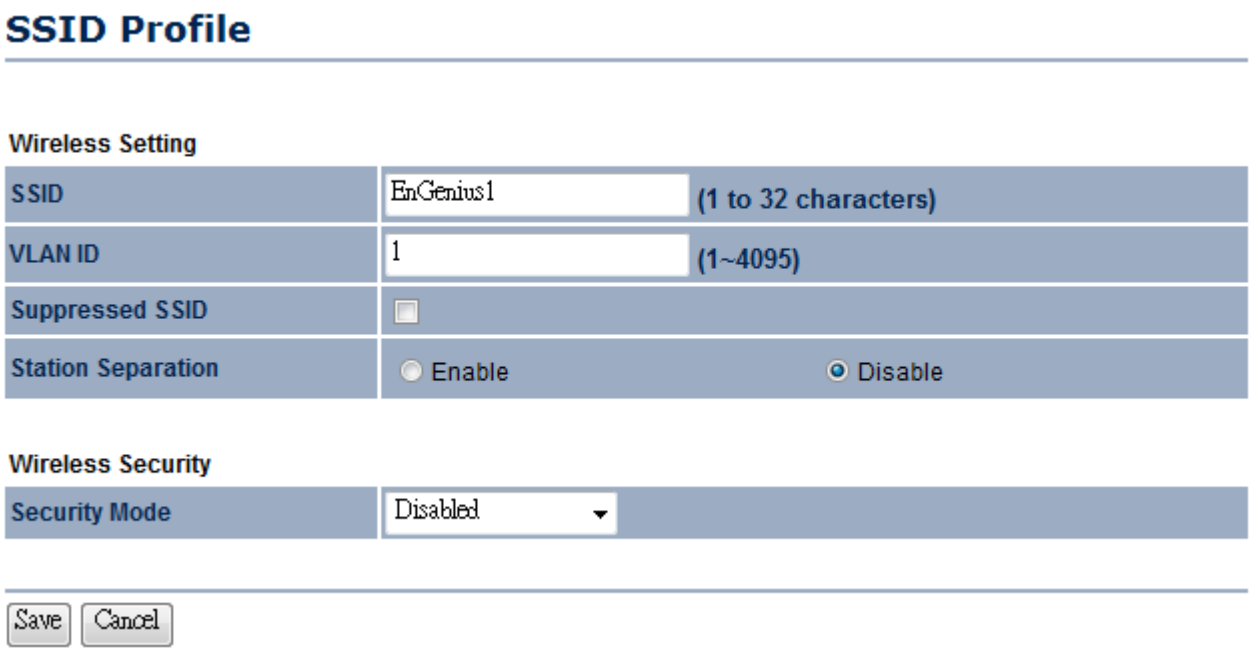
Auction: If the Access Point is suppressed its own SSID, SSID section will be blank, the SSID must be filled in manually.

4.2.5 AP Router Mode



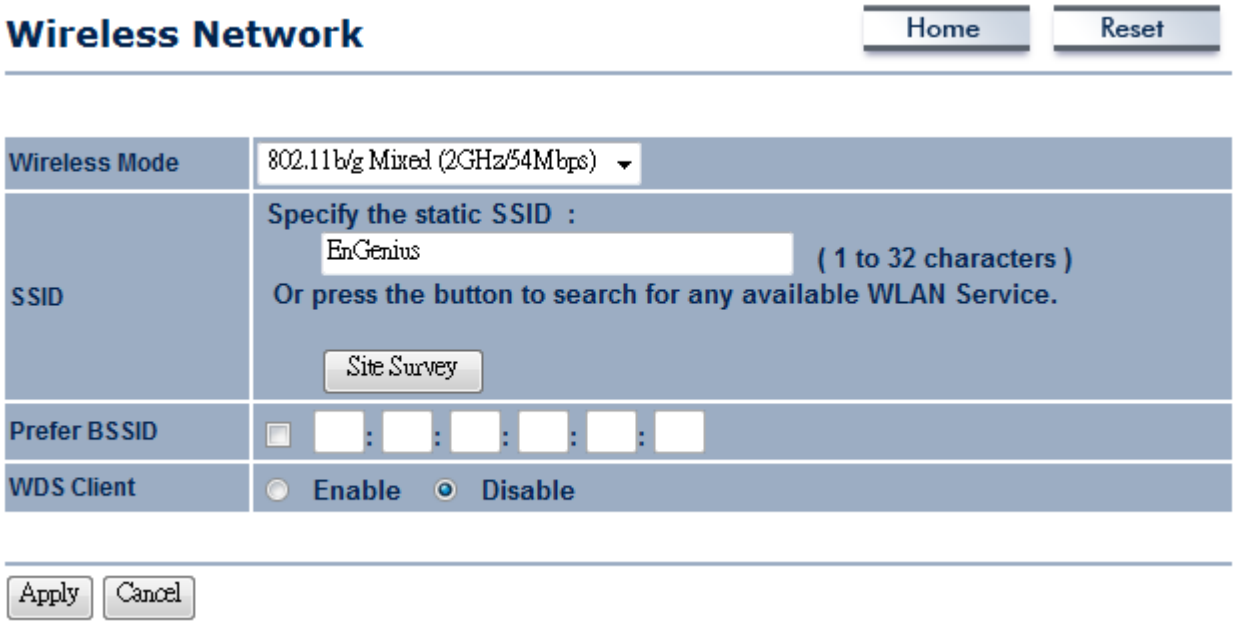
Wireless Mode	Select the desired 802.11 standard modes or SuperG mode. There are four different modes and they are 802.11b, 802.11g Only, 802.11 b/g mixed and SuperG.
Channel / Frequency	The channel availability is based on the country's regulation.
Auto	Place a **Check** to enable Auto channel selection.
AP Detection	AP Detection can help to select a best channel by scan nearby area.
Current Profile	Configure up to four different SSIDs, it can help to divide group of clients to access the network. Press **Edit** to configure the profile and place a **Check** to enable extra SSID.
Profile Isolation	Restricted Client to communicate with different VID by Selecting the Radio button.

Auction: SuperG is a special feature in EOA3630. If the client does not support SuperG, it cannot establish a wireless connection successfully.

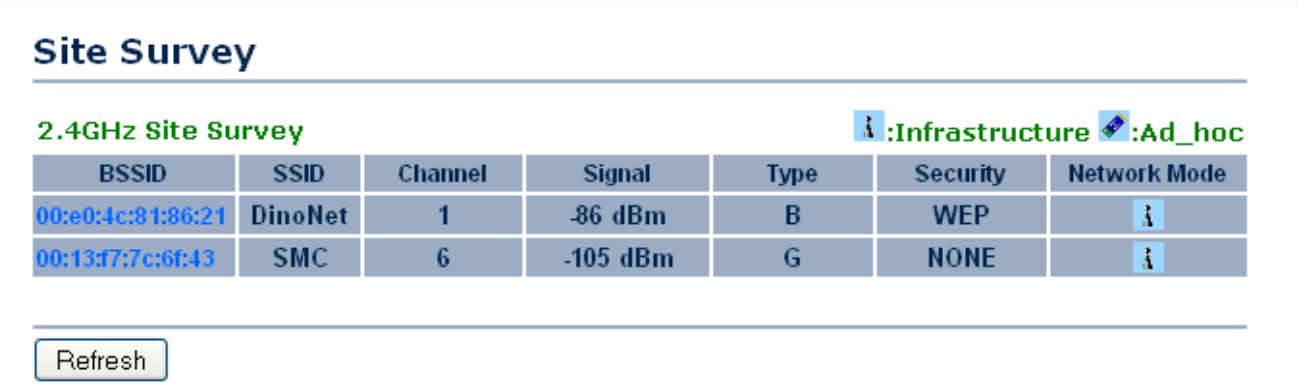


SSID	Specify the SSID for current profile.
VLAN ID	Specify the VLAN tag for current profile.
Suppressed SSID	Place a **Check** to hide the SSID. Client will not be able to see the broadcast SSID in Site Survey.
Station Separation	Select the Radio Button to allow / deny client to communicate each other.
Wireless Security	Please refer to the Wireless Security section.
Save / Cancel	Press **Save** to save the changes or **Cancel** to return previous settings.

4.2.6 Client Router Mode



Wireless Mode	Select the desired 802.11 standard modes or SuperG mode. There are four different modes and they are 802.11b, 802.11g Only, 802.11 b/g mixed and SuperG.
SSID	Specify the SSID if known. SSID text box will be automatically fill in when select an AP in the Site Survey.
Site Survey	Using Site Survey to scan nearby APs and then select the AP to establish the connection.
Prefer BSSID	Specify the MAC address if known. Prefer BSSID text box will be automatically fill in when select an AP in the Site Survey.
WDS Client	Place a Radio button to Enable / Disable WDS Client.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.



Profile	After Site Survey, webpage will display all nearby area's Access Point. Click the BSSID if you would like to connect with it.
Wireless Security	Please refer to the Wireless Security section.

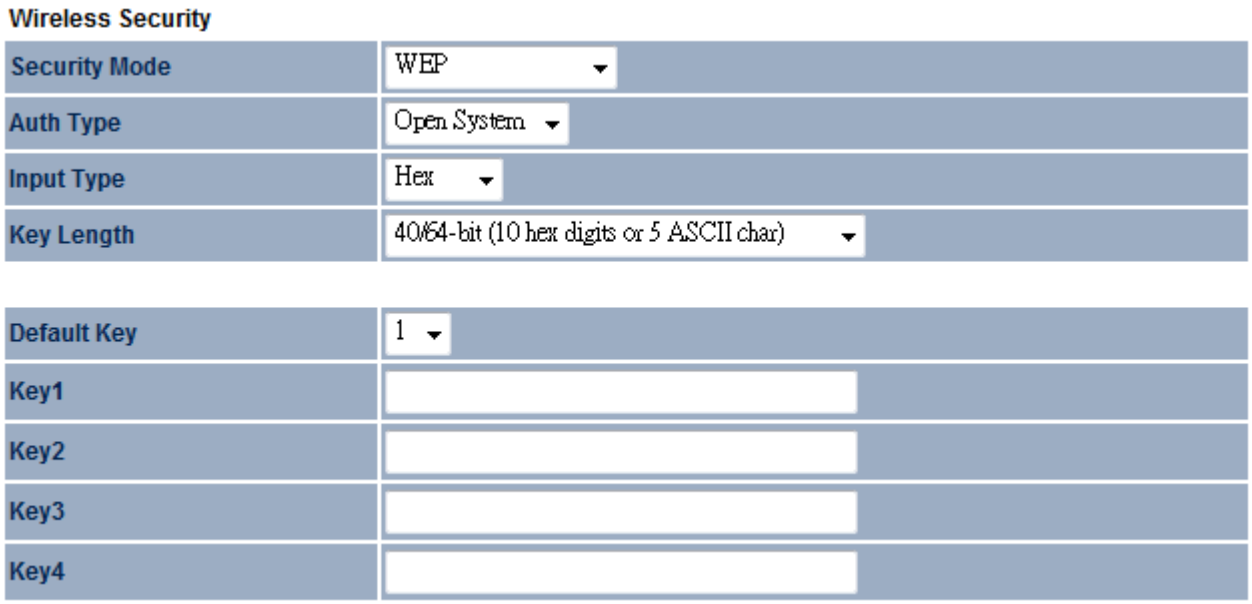
Refresh	Press Refresh to scan again.

Auction: If the Access Point is suppressed its own SSID, SSID section will be blank, the SSID must be filled in manually.

4.3 Wireless Security Settings

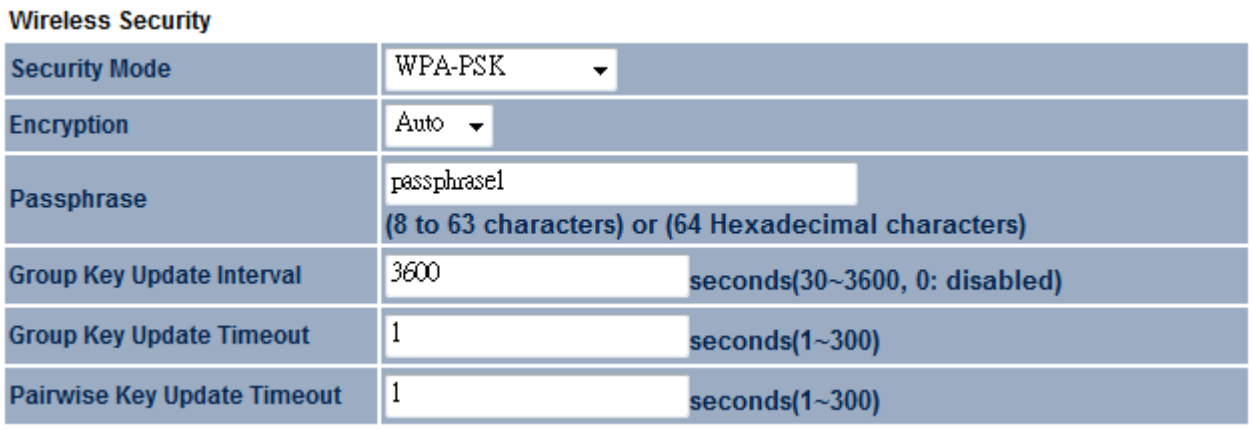
Wireless Security Settings section will guide you to the entire Security modes configuration: WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA, WPA2, and WPA Mixed.
We strongly recommend that uses WPA2-PSK as your security settings.

4.3.1 WEP



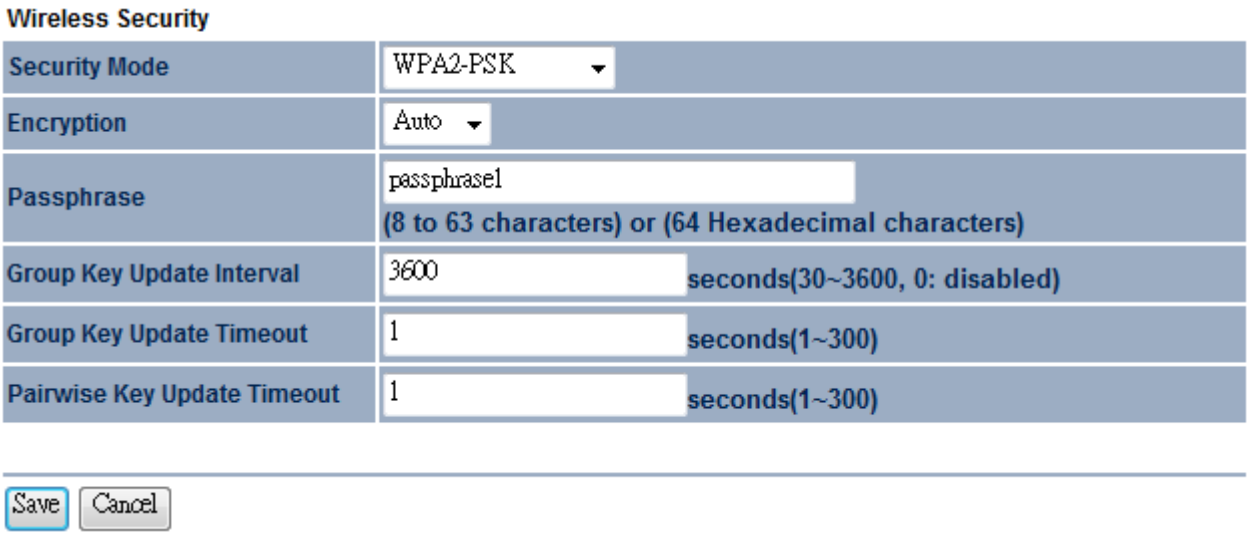
Security Mode	Select **WEP** from the drop down list to begin the configuration.
Auth Type	Select Auth Type in **Open System** or **Shared**.
Input Type	Select Input Type in **Hex** or **ASCII**.
Key Length	Select Key Length in 64/128/152 bit password length.
Default Key	Select the default index key for wireless security.
Key1	Specify password for security key index No.1.
Key2	Specify password for security key index No.2.
Key3	Specify password for security key index No.3.
Key4	Specify password for security key index No.4.

4.3.2 WPA-PSK



Security Mode	Select **WPA-PSK** from the drop down list to begin the configuration.
Encryption	Select **Auto**, **TKIP** or **AES** for Encryption type.
Passphrase	Specify the security password.
Group Key Update Interval	Specify Group Key Update Interval time.
Group Key Update Timeout	Specify Group Key Update Timeout time.
Pairwise Key Update Interval	Specify Pairwise Key Update Timeout time.

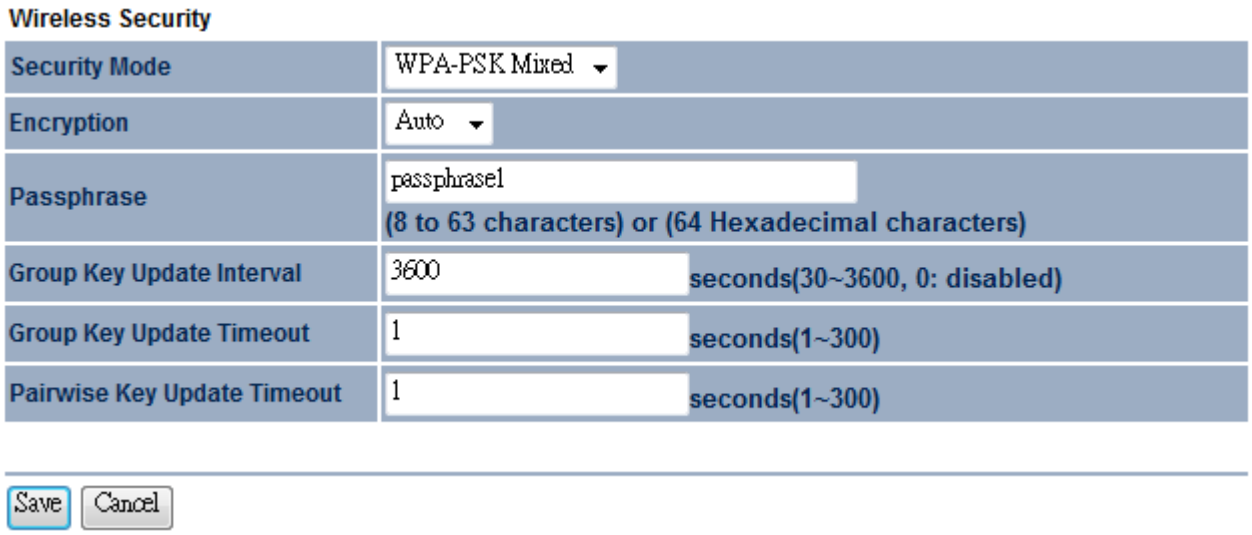
4.3.3 WPA2-PSK



Security Mode	Select **WPA2-PSK** from the drop down list to begin the configuration.
Encryption	Select **Auto**, **TKIP** or **AES** for Encryption type.

Passphrase	Specify the security password.
Group Key Update Interval	Specify Group Key Update Interval time.
Group Key Update Timeout	Specify Group Key Update Timeout time.
Pairwise Key Update Interval	Specify Pairwise Key Update Timeout time.

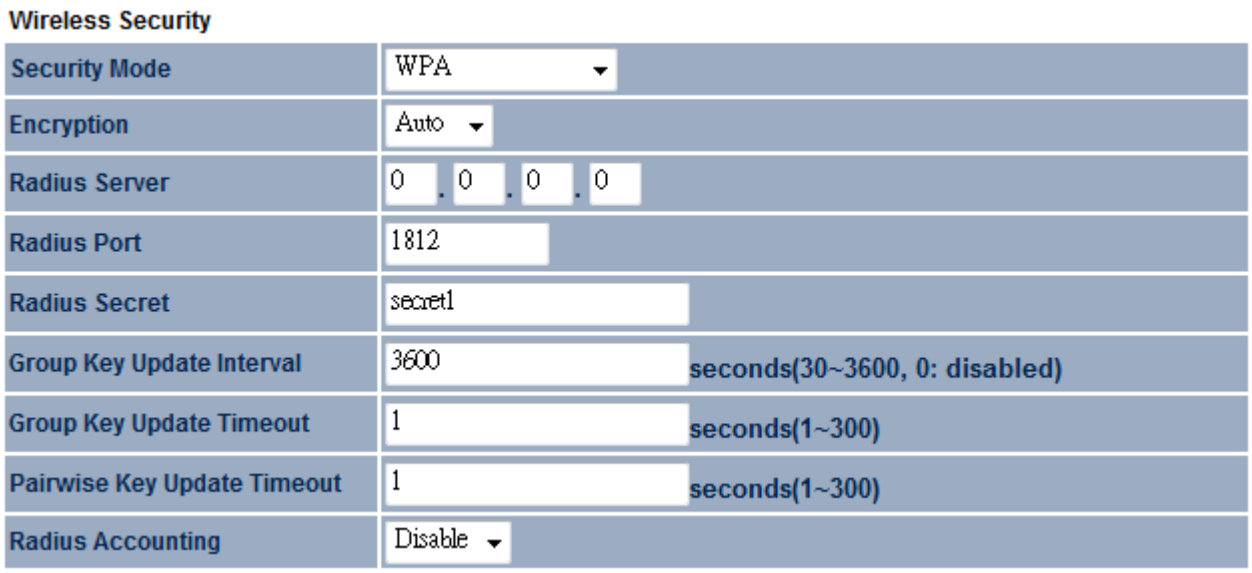
4.3.4 WPA-PSK Mixed



Security Mode	Select **WPA-PSK Mixed** from the drop down list to begin the configuration.
Encryption	Select **Auto**, **TKIP** or **AES** for Encryption type.
Passphrase	Specify the security password.
Group Key Update Interval	Specify Group Key Update Interval time.
Group Key Update Timeout	Specify Group Key Update Timeout time.
Pairwise Key Update Interval	Specify Pairwise Key Update Timeout time.

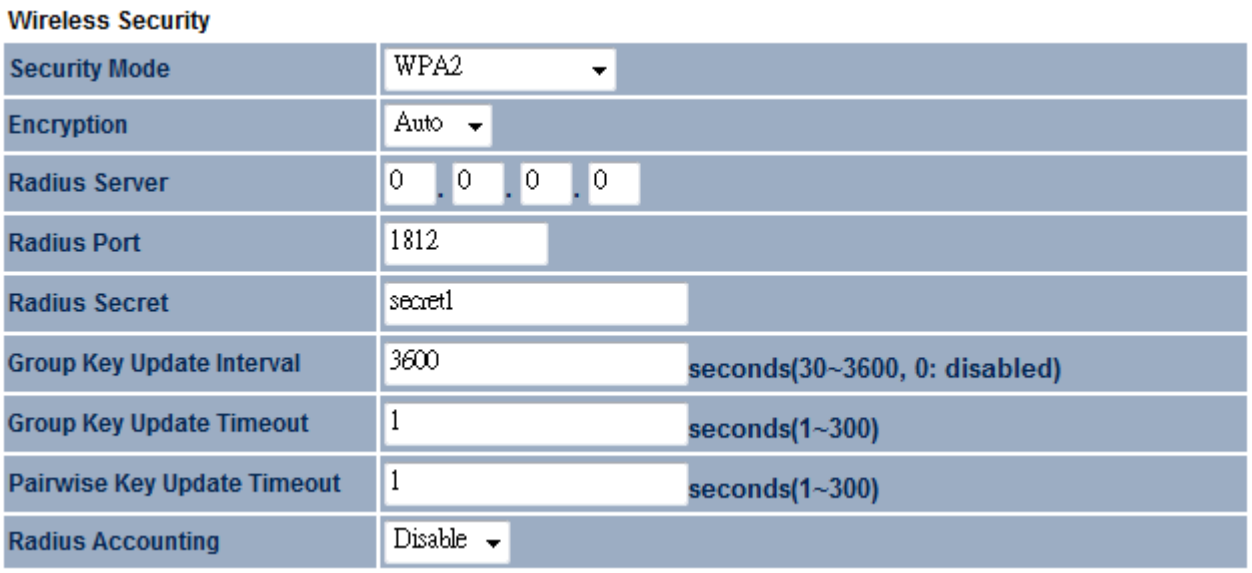
Auction: WPA-PSK Mixed means it allow both WPA-PSK and WPA2-PSK security types to establish wireless connection.

4.3.5 WPA



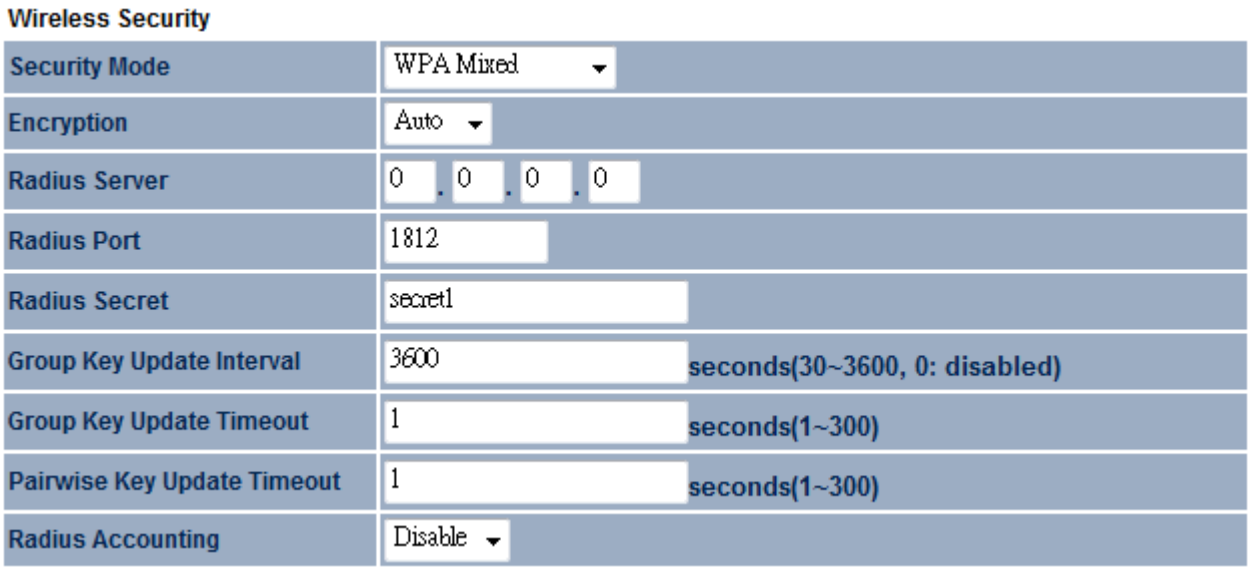
Security Mode	Select **WPA** from the drop down list to begin the configuration.
Encryption	Select **Auto**, **TKIP** or **AES** for Encryption type.
Radius Server	Specify Radius Server IP Address.
Radius Port	Specify Radius Port number, the default port is 1812.
Radius Secret	Specify Radius Secret that is given by the Radius Server.
Group Key Update Interval	Specify Group Key Update Interval time.
Group Key Update Timeout	Specify Group Key Update Timeout time.
Pairwise Key Update Interval	Specify Pairwise Key Update Timeout time.
Radius Accounting	Select **Enable** or **Disable** Radius Accounting. The detail of Radius Accounting is at next section.

4.3.6 WPA2



Security Mode	Select **WPA2** from the drop down list to begin the configuration.
Encryption	Select **Auto**, **TKIP** or **AES** for Encryption type.
Radius Server	Specify Radius Server IP Address.
Radius Port	Specify Radius Port number, the default port is 1812.
Radius Secret	Specify Radius Secret that is given by the Radius Server.
Group Key Update Interval	Specify Group Key Update Interval time.
Group Key Update Timeout	Specify Group Key Update Timeout time.
Pairwise Key Update Interval	Specify Pairwise Key Update Timeout time.
Radius Accounting	Select **Enable** or **Disable** Radius Accounting. The detail of Radius Accounting is at next section.

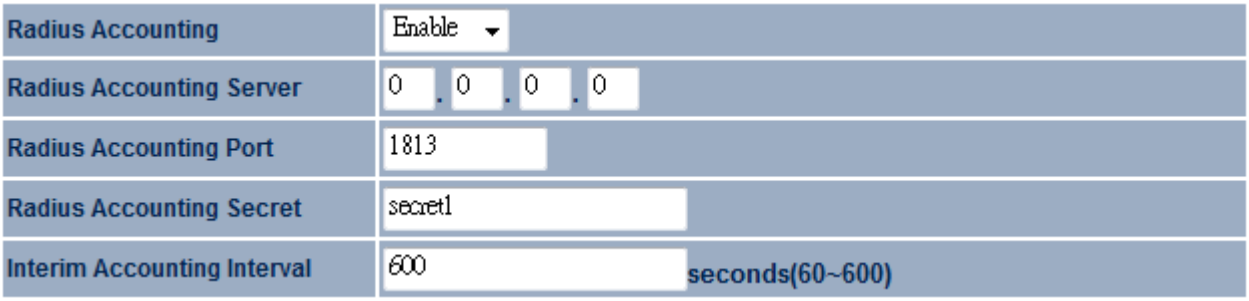
4.3.7 WPA Mixed



Security Mode	Select **WPA Mixed** from the drop down list to begin the configuration.
Encryption	Select **Auto**, **TKIP** or **AES** for Encryption type.
Radius Server	Specify Radius Server IP Address.
Radius Port	Specify Radius Port number, the default port is 1812.
Radius Secret	Specify Radius Secret that is given by the Radius Server.
Group Key Update Interval	Specify Group Key Update Interval time.
Group Key Update Timeout	Specify Group Key Update Timeout time.
Pairwise Key Update Interval	Specify Pairwise Key Update Timeout time.
Radius Accounting	Select **Enable** or **Disable** Radius Accounting. The detail of Radius Accounting is at next section.

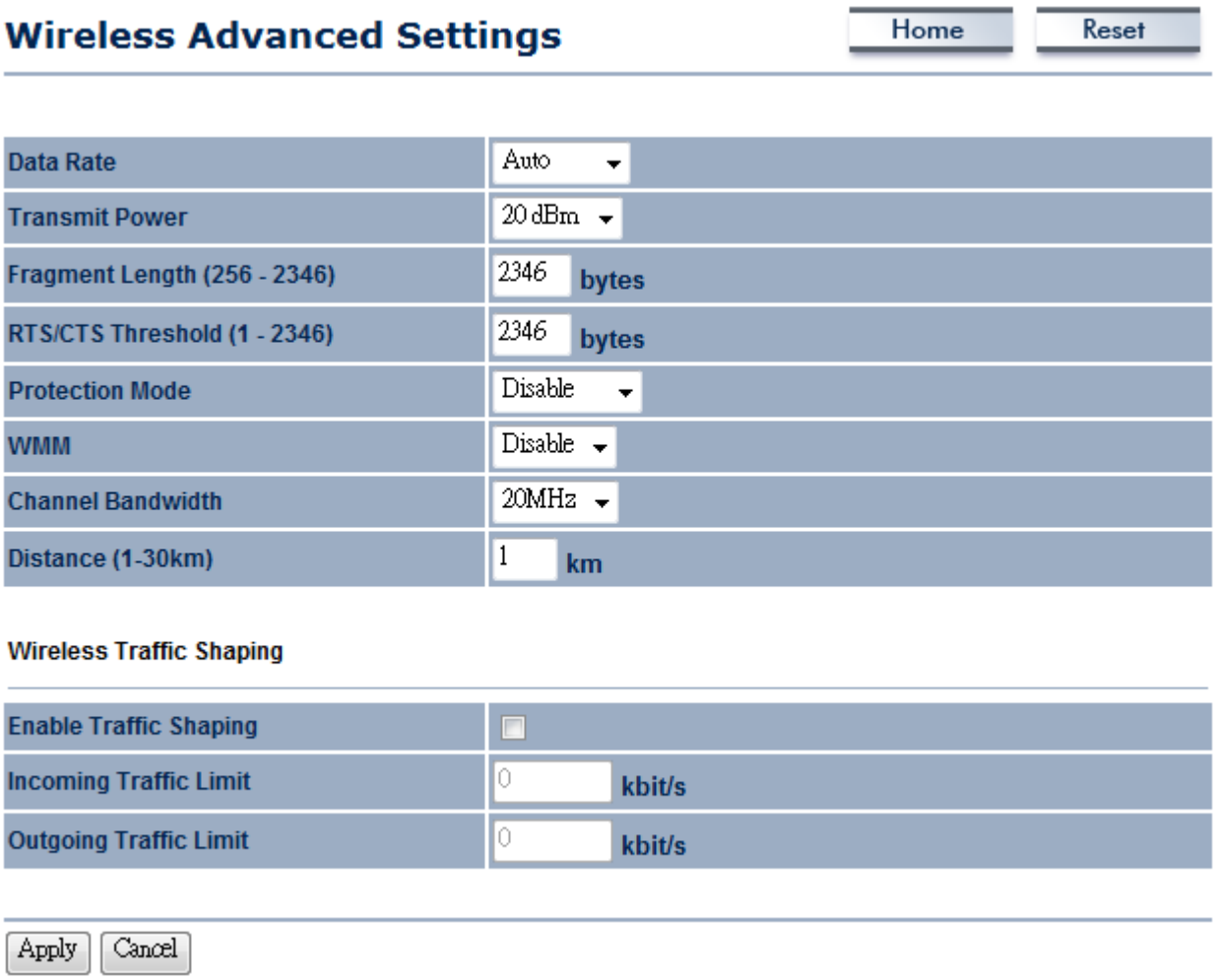
Auction: WPA Mixed means it allow both WPA and WPA2 security types to establish wireless connection.

4.3.8 Radius Accounting



Radius Accounting	Select **Enable** to begin configuration of Radius Accounting.
Radius Accounting Server	Specify Radius Accounting Server IP.
Radius Accounting Port	Specify Radius Accounting Server IP. The default port is 1813.
Radius Accounting Secret	Specify Radius Accounting Server Secret that is given by the Radius Accounting Server.
Radius Accounting Interval	Specify Radius Accounting Interval for updating information.

4.4 Wireless Advanced Settings

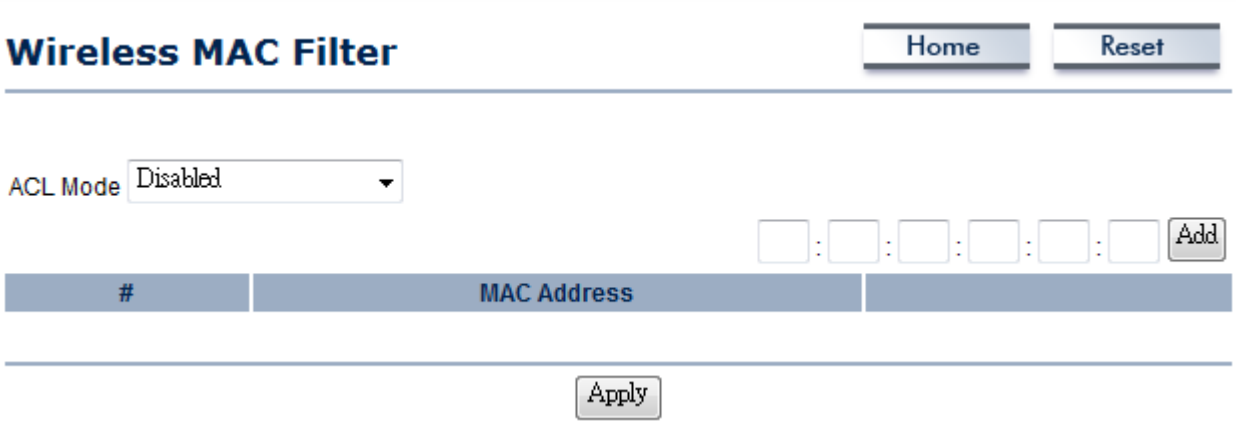


Data Rate	Select Data Rate from the drop down list.
Transmit Power	Select Transmit Power to increase or decrease Transmit Power.
Fragment Length	Specify package size during transmission. This value changed only when you experienced high error rate.
RTS/CTS Threshold	Specify Threshold package size for RTC/CTS.
Protection Mode	Select **Disable** or **Enable** Protection Mode.
WMM	Select **Disable** or **Enable** WMM function. WMM is based on the four Access Categories: voice, video, best effort and background. WMM function is not used to guarantee transmission speed.
Channel Bandwidth	Select Channel Bandwidth from the drop down list. Decrease channel bandwidth may cause lower throughput but less collision.
Distance	Specify distance rage between AP and Clients. Longer distance may lose high connection speed.
Wireless Traffic Shaping	Place a **Check** to enable Wireless Traffic Shaping function.
Incoming Traffic Limit	Specify the wireless transmission speed for downloading.
Outgoing Traffic Limit	Specify the wireless transmission speed for uploading.

Auction: Changing Wireless Advanced Settings may cause insufficient wireless connection quality. Please remain all settings as default unless you have acknowledged all changing that you have made.

4.5 Wireless MAC Filter

Wireless MAC Filters is used to Allow or Deny wireless clients, by their MAC addresses, accessing the Network. You can manually add a MAC address to restrict the permission to access EOA3630. The default setting is Disable Wireless MAC Filters.

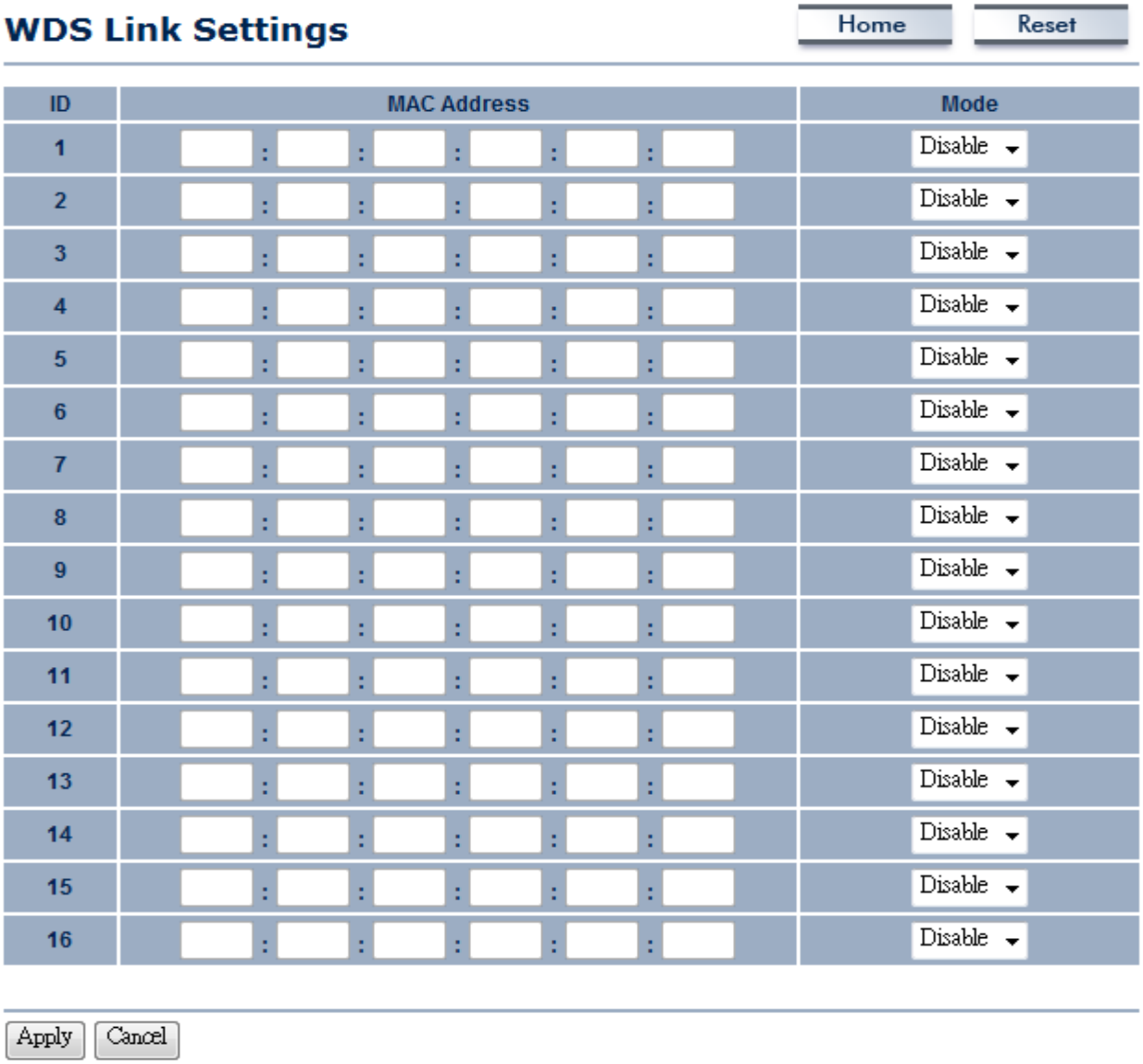


0.

ACL Mode	ACL Mode can help to deny or allow certain Client to access the network. Select Disable, Deny MAC in the list or Allow MAC in the list from the drop down list.
MAC Address Filter	Specify the MAC address manually.
Add	Press **Add** to add the MAC address in the table.
Apply	Press **Apply** to apply the changes.

4.6 WDS Link Settings

WDS Link Settings is used to establish a connection between Access Points but the device is not losing Access Point function. AP has WDS function can extend the wireless coverage and allow LANs to communicate each other.



MAC Address	Enter the Access Point's MAC address that you would like to extend the wireless area.
Mode	Select Disable or Enable from the drop down list.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

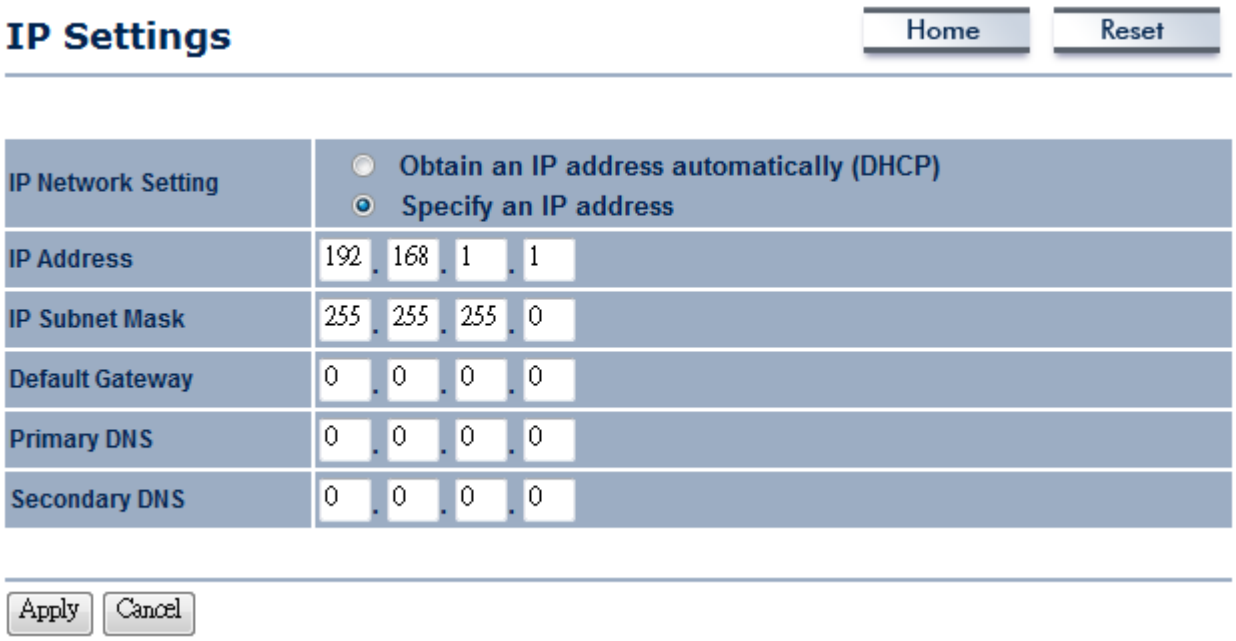
Auction: The Access Point that you would like to extend the wireless area must enter your Access Point's MAC address. Not all Access Point supports this feature.

5 LAN Setup

This section will guide you to the Local Area Network (LAN) settings

5.1 IP Settings

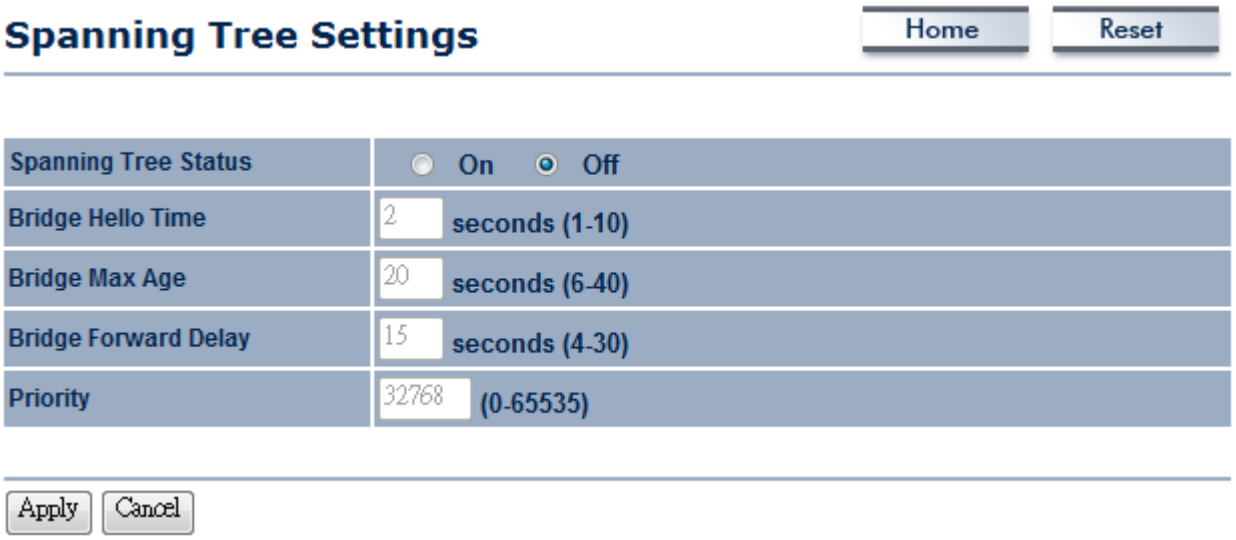
This section is only available for **Non-Router Mode**. IP Settings allows you to LAN port IP address of the EOA3630.
Auction: Changing LAN IP Address will change LAN Interface IP address. Webpage will automatically redirect to the new IP address after Apply.



IP Network Setting	Select Radio button for **Obtain an IP address automatically** or **Specify an IP address**.
IP Address	Specify LAN port IP address.
IP Suet Mask	Specify Subnet Mask.
Default Gateway	Specify Default Gateway
Primary DNS	Specify Primary DNS
Secondary DNS	Specify Secondary DNS
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: Obtain an IP address automatically is not a DHCP server. It means automatically get IP address when device connected to a device which has DHCP server.

5.2 Spanning Tree Settings



Spanning Tree Status	Select the Radio button to On or Off Spanning Tree function.
Bridge Hello Time	Specify Bridge Hello Time in second.
Bridge Max Age	Specify Bridge Max Age in second.
Bridge Forward Delay	Specify Bridge Forward Delay in second.
Priority	Specify the Priority number. Smaller number has greater priority.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

6 Router Settings

This section is only available for **AP Router Mode** and **Client Router Mode**.

6.1 WAN Settings

There are four different types of WAN connection: Static IP, DHCP, PPPoE and PPTP. Please contact your ISP to select the connection type.

6.1.1 Static IP

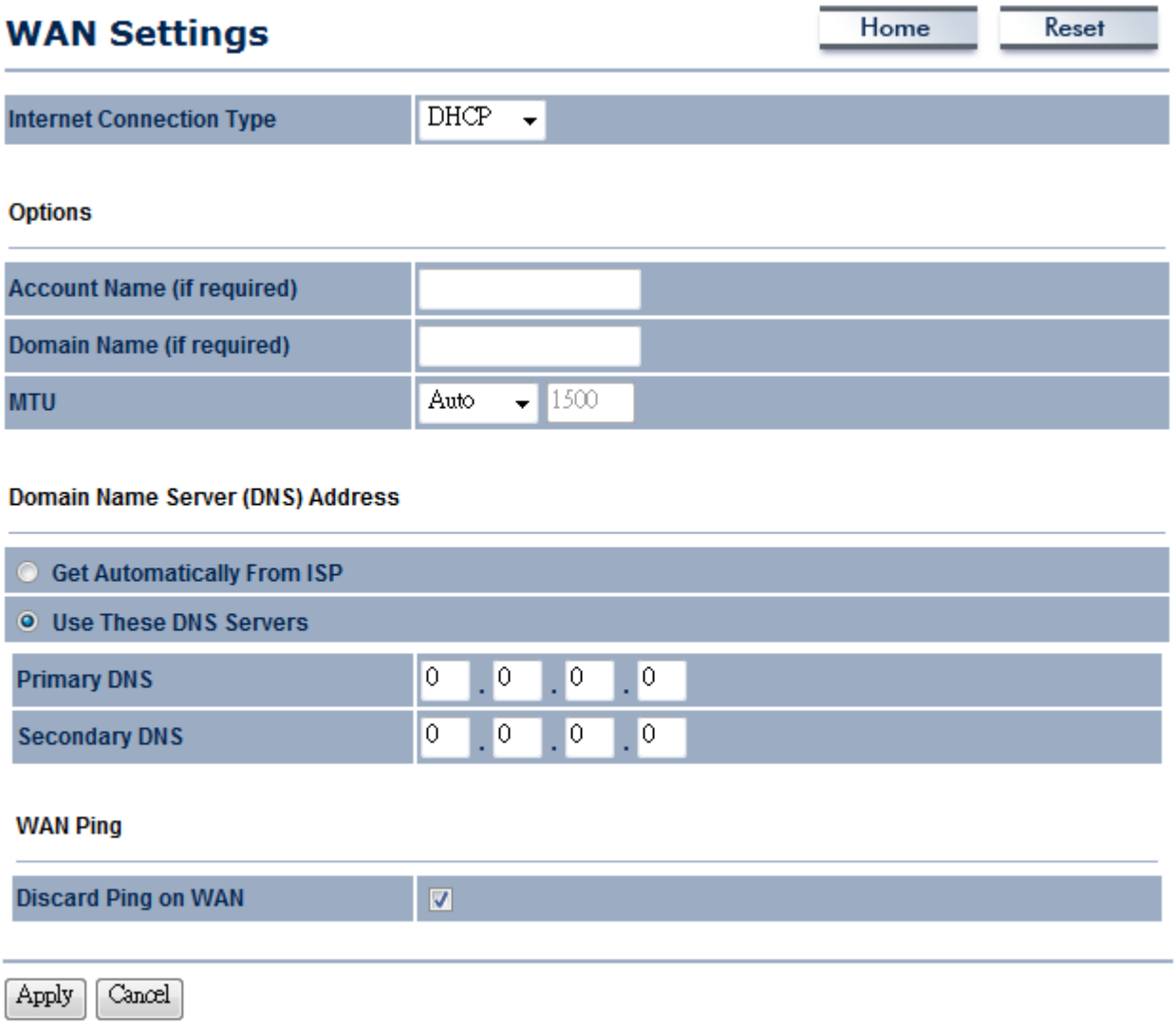
Select Static IP in WAN connection if your ISP gives all the information about IP address, Subnet Mask, Default Gateway, Primary DNS and Secondary DNS.

Internet Connection Type	Select **Static IP** to begin configuration of the Static IP connection.
Account Name	Specify Account Name that is provided by ISP.
Domain Name	Specify Domain Name that is provided by ISP.
MTU	Specify the Maximum Transmit Unit size. Suggest remain in Auto.
IP Address	Specify WAN port IP address.
IP Subnet Mask	Specify WAN IP Subnet Mask.
Gateway IP Address	Specify WAN Gateway IP address.
Primary DNS	Specify Primary DNS IP.
Secondary DNS	Specify Secondary DNS IP.
Discard Ping on WAN	Place a Check to Enable or Disable ping from WAN.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: If the router's MTU is set too high, packets will be fragmented downstream. If the router's MTU is set too low, the router will fragment packets unnecessarily and in extreme cases may be unable to establish some connections. In either case, network performance can suffer.

6.1.2 DHCP (Dynamic IP)

Select DHCP as your WAN connection type to obtain your IP address automatically. You will need to enter Account Name as your hostname and DNS (Optional).



Internet Connection Type	Select **DHCP** to begin configuration of the DHCP connection.
Account Name	Specify Account Name that is provided by ISP.
Domain Name	Specify Domain Name that is provided by ISP.
MTU	Specify the Maximum Transmit Unit size. Suggest remain in Auto.
Get Automatically From ISP	Select the Radio button for get the DNS automatically from DHCP server.
Use These DNS Servers	Select the Radio button for setup the **Primary DNS** and **Secondary DNS** servers manually.
Discard Ping on WAN	Place a Check to Enable or Disable ping from WAN.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: If the router's MTU is set too high, packets will be fragmented downstream. If the router's MTU is set too low, the router will fragment packets unnecessarily and in extreme cases may be unable to establish some connections. In either case, network performance can suffer.

6.1.3 PPPoE (Point-to-Point Protocol over Ethernet)

Select PPPoE as your WAN connection type if your ISP provides Username and Password. PPPoE is a DSL service and please remove your PPPoE software from your computer, the software is not worked in EOA3630.

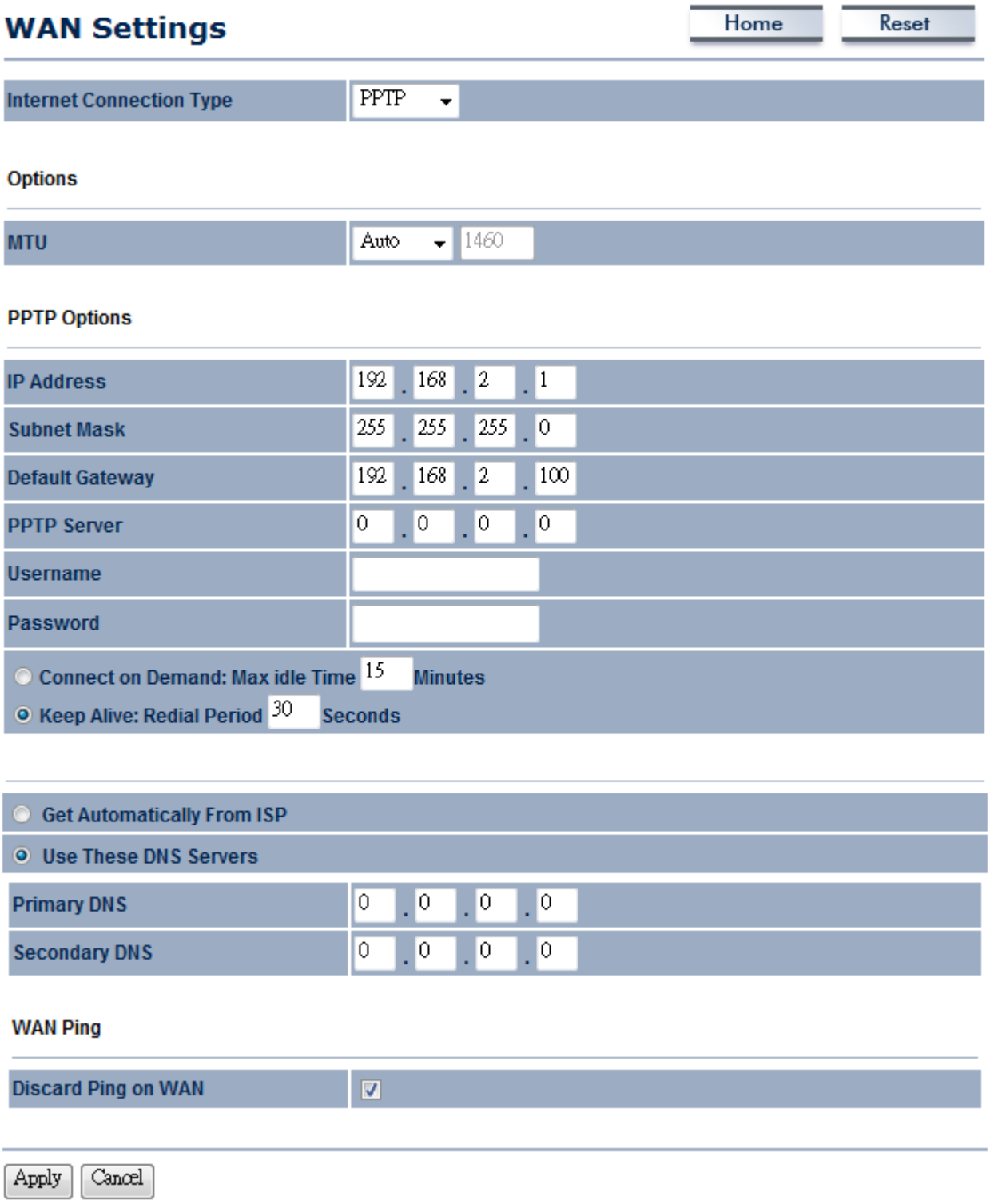
Internet Connection Type	Select **PPPoE** to begin configuration of the PPPoE connection.
MTU	Specify the Maximum Transmit Unit size. Suggest remain in Auto.
Login	Specify the **Username** that is given by your ISP.
Password	Specify the **Password** that is given by your ISP.
Service Name	Specify the **Service Name** that is given by your ISP.
Connect on Demand	Select the Radio button to specify the maximum idle time. Internet connection will

	disconnect when it reach the maximum idle time, but it will automatically connect when user tries to access the network.
Keep Alive	Select the Radio button to keep internet connection always on. Specify the redial period once the internet lose connection.
Get Automatically From ISP	Select the Radio button for get the DNS automatically from DHCP server.
Use These DNS Servers	Select the Radio button for setup the **Primary DNS** and **Secondary DNS** servers manually.
Discard Ping on WAN	Place a Check to Enable or Disable ping from WAN.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: If the router's MTU is set too high, packets will be fragmented downstream. If the router's MTU is set too low, the router will fragment packets unnecessarily and in extreme cases may be unable to establish some connections. In either case, network performance can suffer.

6.1.4 PPTP (Point-to-Point Tunneling Protocol)

Select PPTP as your WAN connection type if your ISP provides information about IP Address, Subnet Mask, Default Gateway (Optional), DNS (Optional), Server IP, Username, and Password.

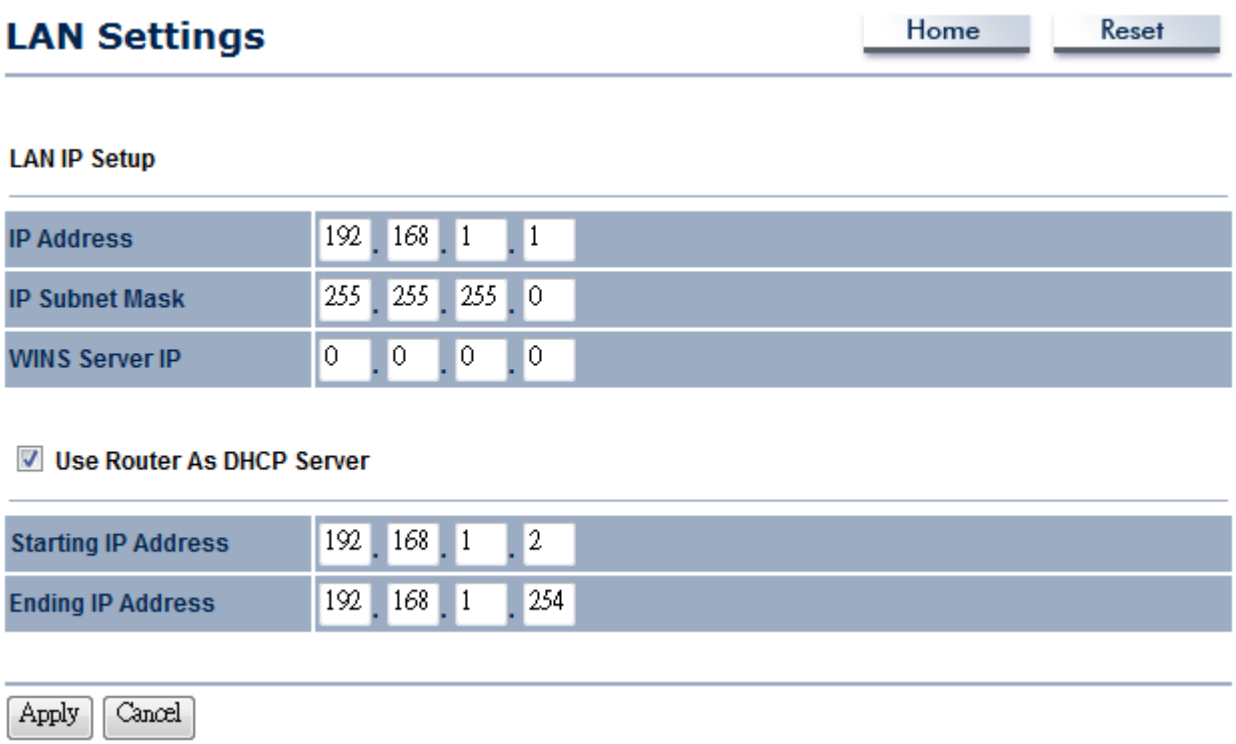


Internet Connection Type	Select **PPTP** to begin configuration of the PPTP connection.
MTU	Specify the Maximum Transmit Unit size. Suggest remain in Auto.
IP Address	Specify WAN port IP address.

IP Subnet Mask	Specify WAN IP Subnet Mask.
Gateway IP Address	Specify WAN Gateway IP address.
PPTP Server	Specify PPTP Server IP address.
Username	Specify the **Username** that is given by your ISP.
Password	Specify the **Password** that is given by your ISP.
Connect on Demand	Select the Radio button to specify the maximum idle time. Internet connection will disconnect when it reach the maximum idle time, but it will automatically connect when user tries to access the network.
Keep Alive	Select the Radio button to keep internet connection always on. Specify the redial period once the internet lose connection.
Get Automatically From ISP	Select the Radio button for get the DNS automatically from DHCP server.
Use These DNS Servers	Select the Radio button for setup the **Primary DNS** and **Secondary DNS** servers manually.
Discard Ping on WAN	Place a Check to Enable or Disable ping from WAN.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: If the router's MTU is set too high, packets will be fragmented downstream. If the router's MTU is set too low, the router will fragment packets unnecessarily and in extreme cases may be unable to establish some connections. In either case, network performance can suffer.

6.2 LAN Settings (Router Mode)



IP Address	Specify LAN port IP address.
IP Subnet Mask	Specify LAN IP Subnet Mask.
WINS Server IP	Specify WINS Server IP.
Use Router As DHCP Server	Place a **Check** to enable DHCP server.
Starting IP Address	Specify DHCP server starting IP address.
Ending IP Address	Specify DHCP server ending IP address.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

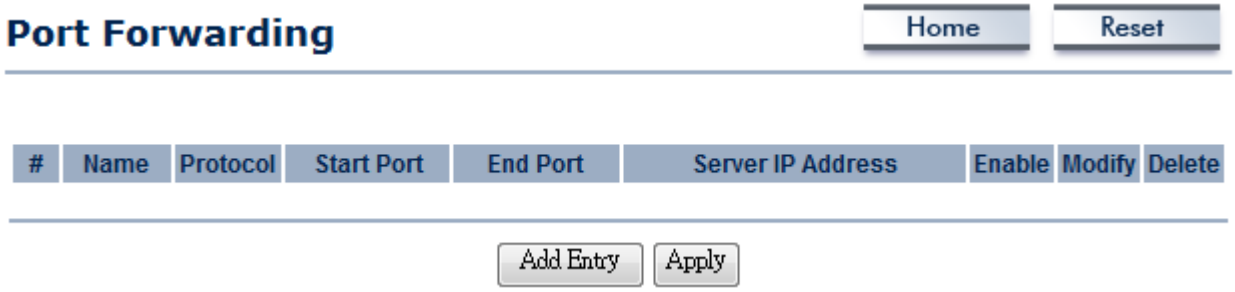
6.3 VPN Pass Through

VPN Pass Through is on top of an existing network by passing or restricting certain protocol. This function can help to provide a secure private network.

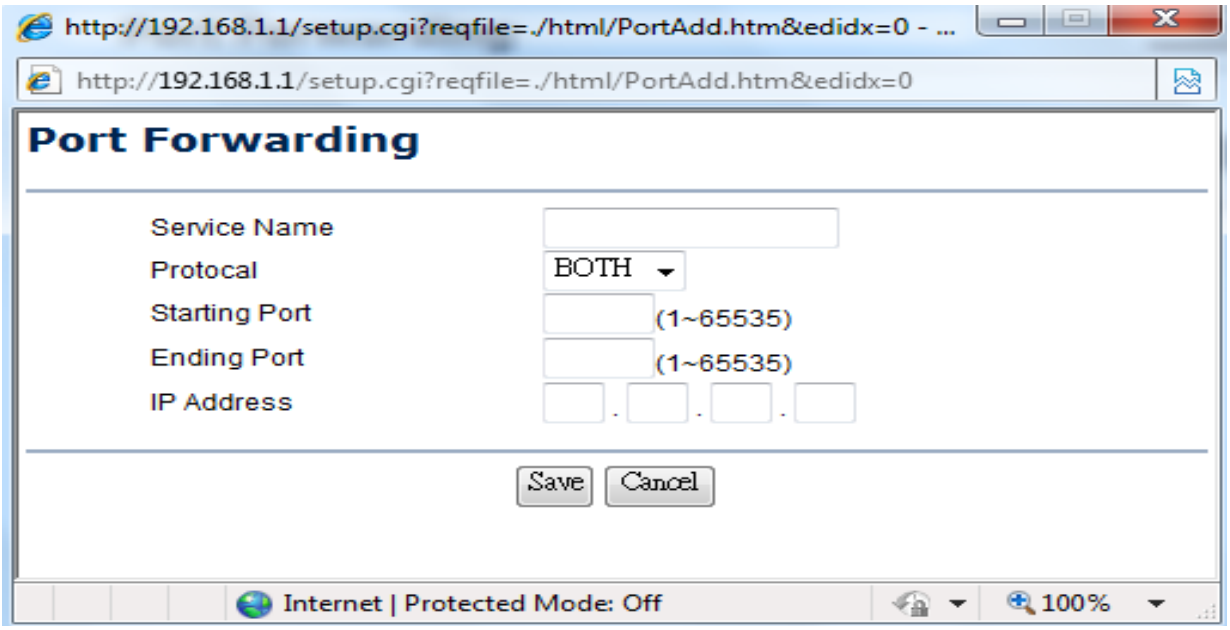
PPTP Pass Through	Place a **Check** to enable PPTP protocol passes through WAN.
L2TP Pass Through	Place a **Check** to enable L2TP protocol passes through WAN.
IPSec Pass Through	Place a **Check** to enable IPSec protocol passes through WAN.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

6.4 Port Forwarding

Port Forwarding is used to forward a TCP/IP packet in a NAT to a specific network port.



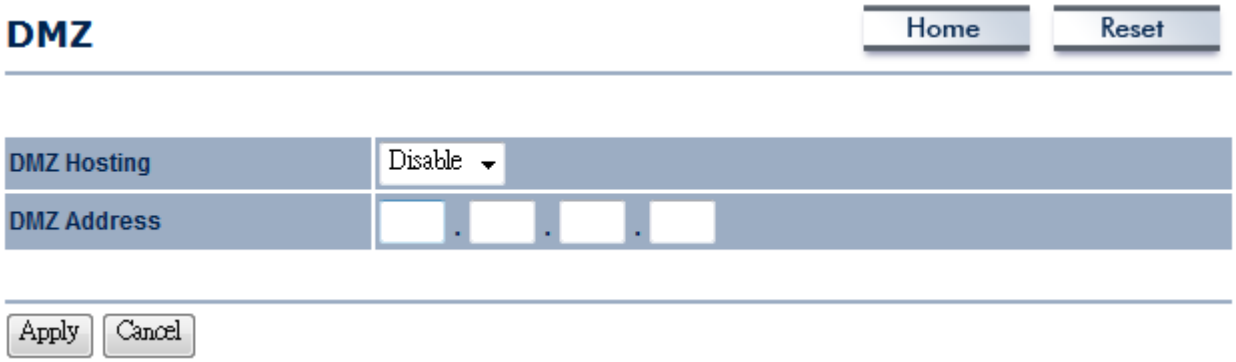
Add Entry	Press Add Entry to add a rule of Port Forwarding.
Apply	Press **Apply** to apply the changes.



Service Name	Specify a name for current Port Forwarding rule.
Protocol	Select a protocol from drop down list: Both, TCP and UDP.
Starting Port	Specify Starting Port number.
Ending Port	Specify Ending Port number.
IP Address	Specify IP address.
Save / Cancel	Press **Save** to apply the changes or **Cancel** to return previous settings.

6.5 DMZ

DMZ (Demilitarized) is a physical or logical subnetwork that exposed LAN to an unknown network. This function allows you to add an additional entry to an IP address.



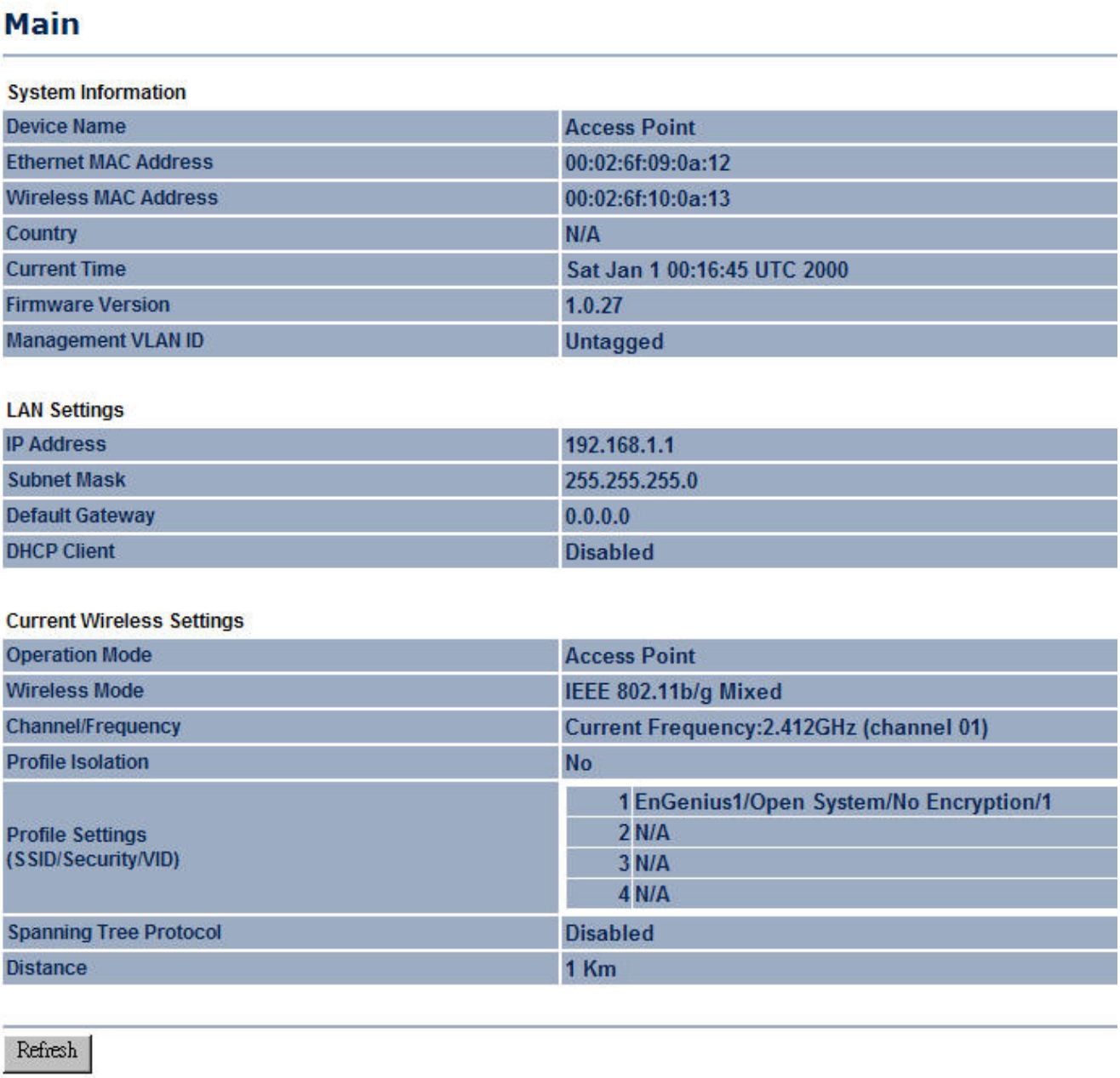
DMZ Hosting	Select **Enable** or **Disable** DMZ from drop down list.
DMZ Address	Specify an IP address of DMZ.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

7 Information Status

Status section is on the navigation drop-down menu. You will then see three options: Main, Wireless Client List, System Log, WDS Link Status, Connection Status, and DHCP Client Table. Each option is described in detail below.

7.1 Main

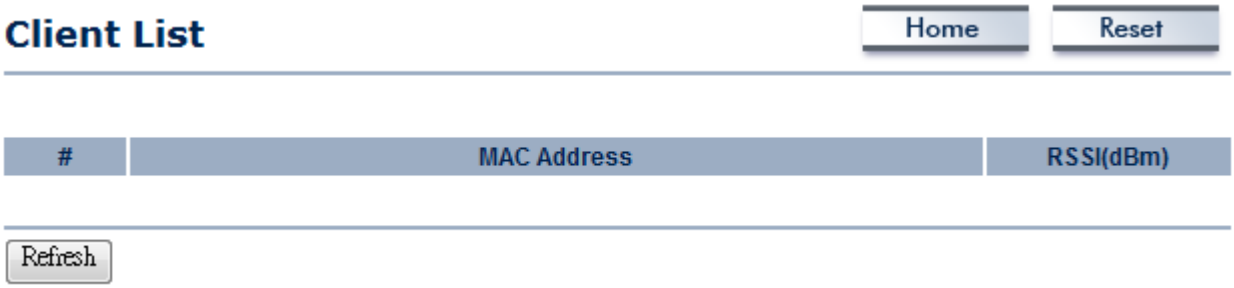
Click on the **Main** link under the **Status** drop-down menu or click **Home** from the top-right of the webpage. The status that is displayed corresponds with the operating mode that is selected. Information such as operating mode, system up time, firmware version, serial number, kernel version and application version are displayed in the 'System' section. LAN IP address, subnet mask, and MAC address are displayed in the 'LAN' section. In the 'Wireless section, the frequency, channel is displayed. Since this device supports multiple-SSIDs, the details of each SSID, such as ESSID and its security settings are displayed.



7.2 Wireless Client List

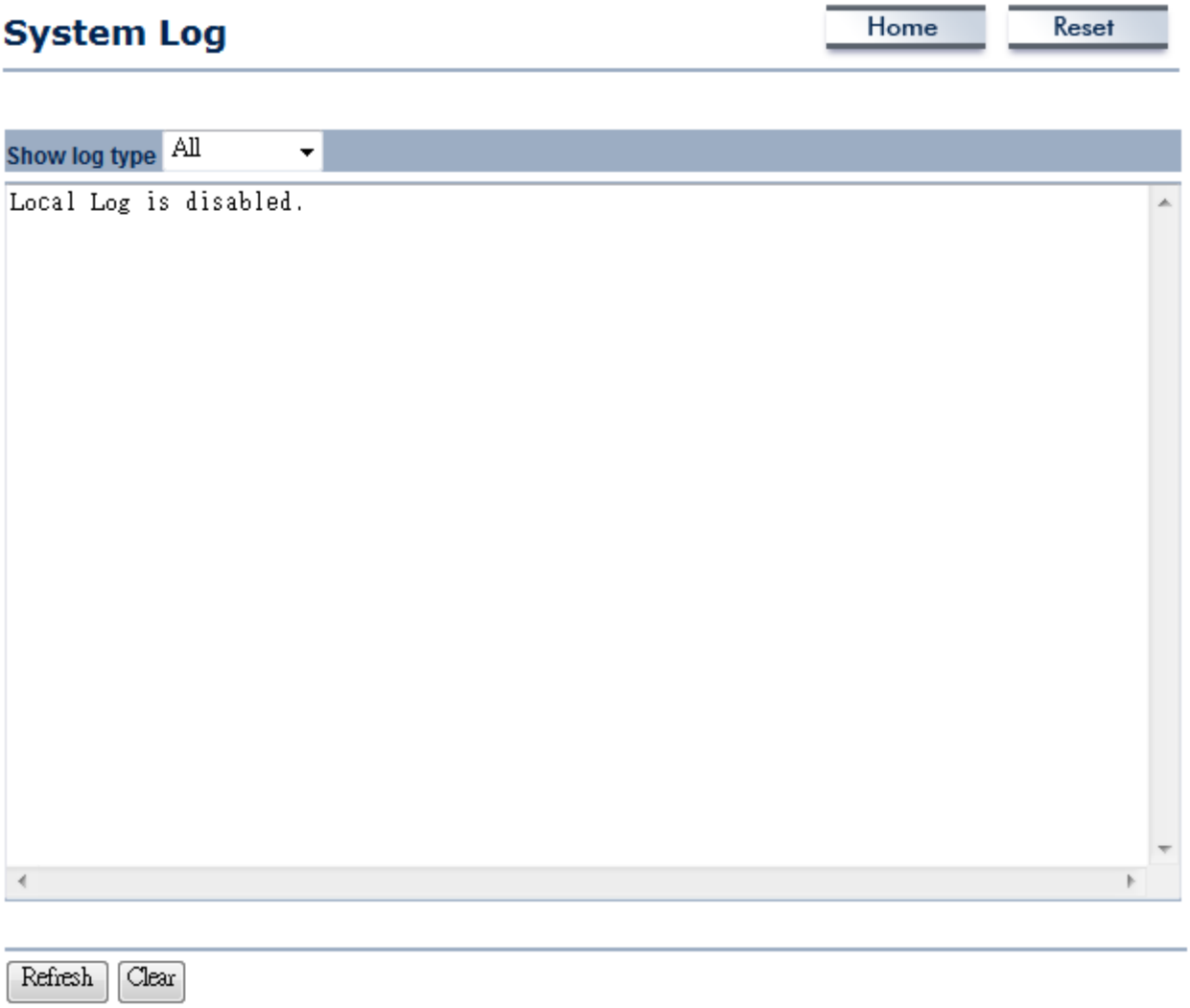
Click on the **Wireless Client List** link under the **Status** drop-down menu. This page displays the list of Clients that are associated to the EOA3630.

The MAC addresses and signal strength for each client is displayed. Click on the **Refresh** button to refresh the client list



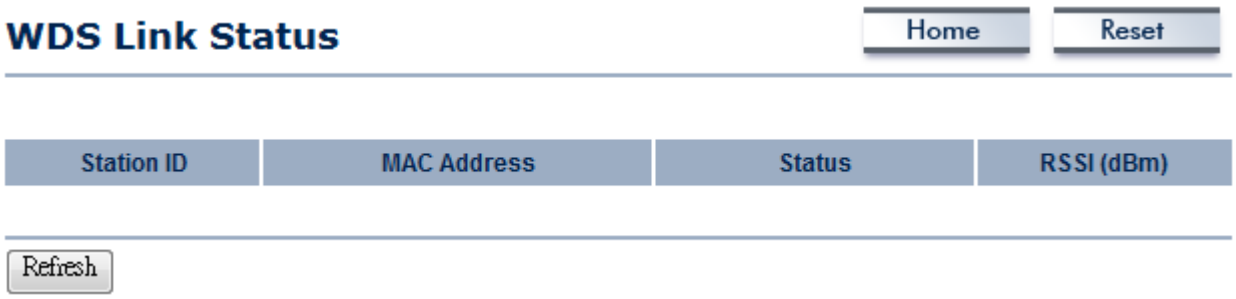
7.3 System Log

Click on the **System Log** link under the **Status** drop-down menu. The device automatically logs (records) events of possible interest in its internal memory. If there is not enough internal memory for all events, logs of older events are deleted, but logs of the latest events are retained.



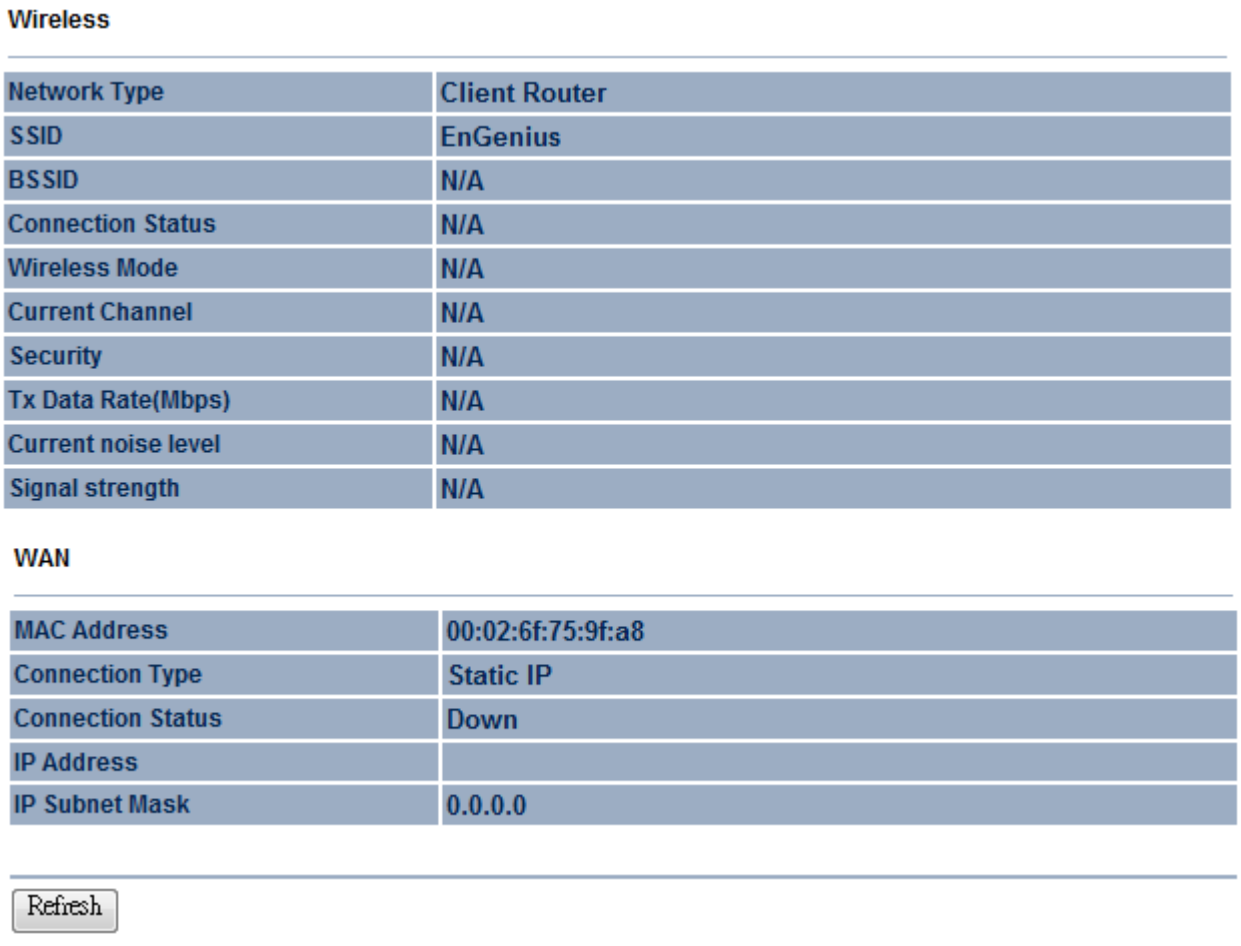
7.4 WDS Link Status

The WDS Link Status will only show in WDS Bridge Mode. Click on the **WDS Link Status** link under the **Status** drop-down menu. This page displays the current status of WDS link, including station ID, MAC address, status and RSSI.



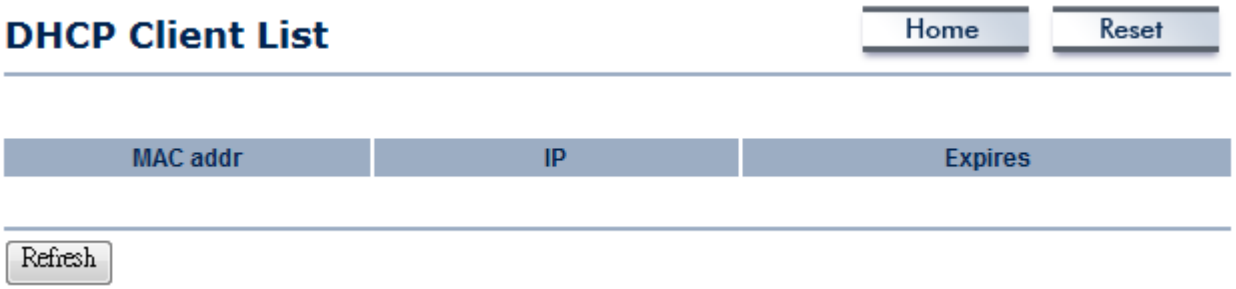
7.5 Connection Status

Click on the **Connection Status** link under the **Status** drop-down menu. This page displays the current status of the network, including network type, SSID, BSSID, connection status, wireless mode, current channel, security, data rate, noise level and signal strength.



7.6 DHCP Client Table

Click on the **DHCP Client List** link under the **Status** drop-down menu. This page displays the list of Clients that are associated to the EOA3630 through DHCP.
The MAC addresses and signal strength for each client is displayed. Click on the **Refresh** button to refresh the client list.

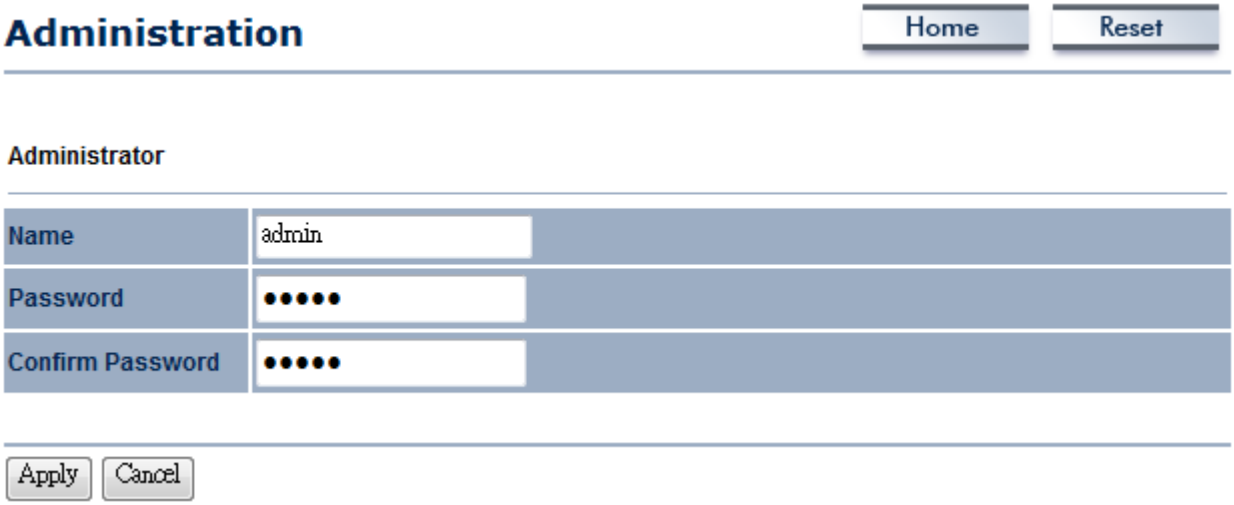


8 Management Settings

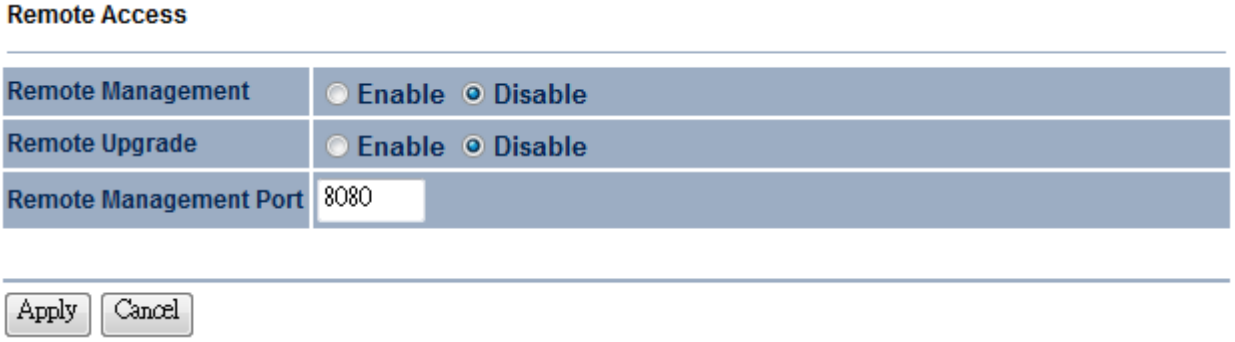
Management section is on the navigation drop-down menu. You will then see seven options: administration, management VLAN, SNMP settings, backup/restore settings, firmware upgrade, time settings, and log. Each option is described below.

8.1 Administration

Click on the **Administration** link under the **Management** menu. This option allows you to create a user name and password for the device. By default, this device is configured without a user name and password **admin**. For security reasons it is highly recommended that you create a new user name and password.



Name	Specify Username for login.
Password	Specify a Password for login
Confirm Password	Re-enter the Password for confirmation.

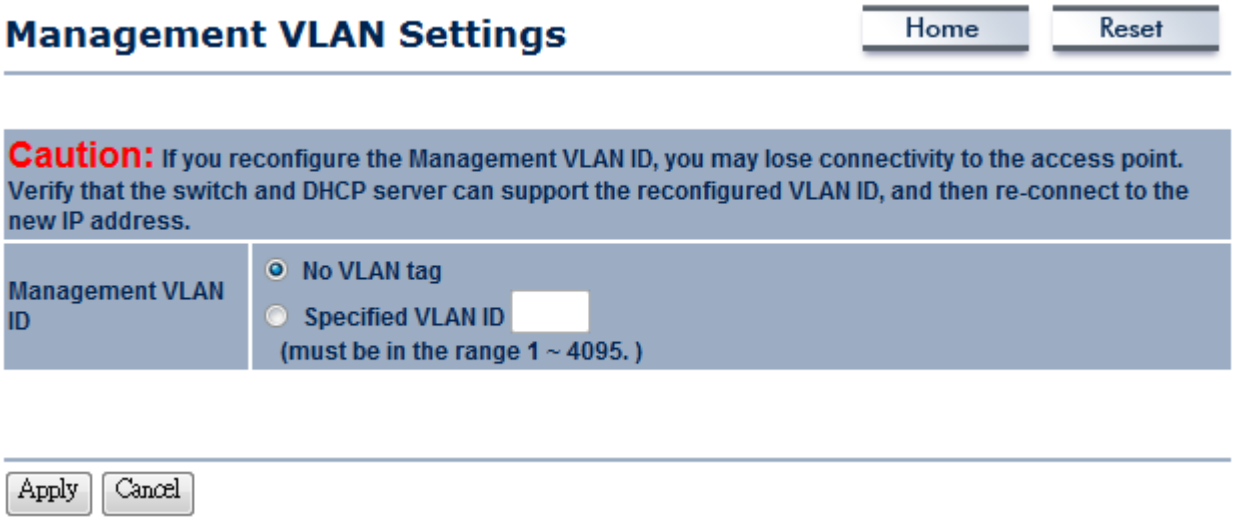


Remote Management	Select the Radio button to Enable or Disable Remote Management.
Remote Upgrade	Select the Radio button to Enable or Disable Remote Upgrade.
Remote Management	Specify the Port number for Remote Management. For example: If you specify the

Port	Port number is 8080, then you will need to enter following http://<IP address>:8080 to access the web interface.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

8.2 Management VLAN

Click on the **Management VLAN** link under the **Management** menu. This option allows you to assign a VLAN tag to the packets. A VLAN is a group of computers on a network whose software has been configured so that they behave as if they were on a separate Local Area Network (LAN). Computers on VLAN do not have to be physically located next to one another on the LAN

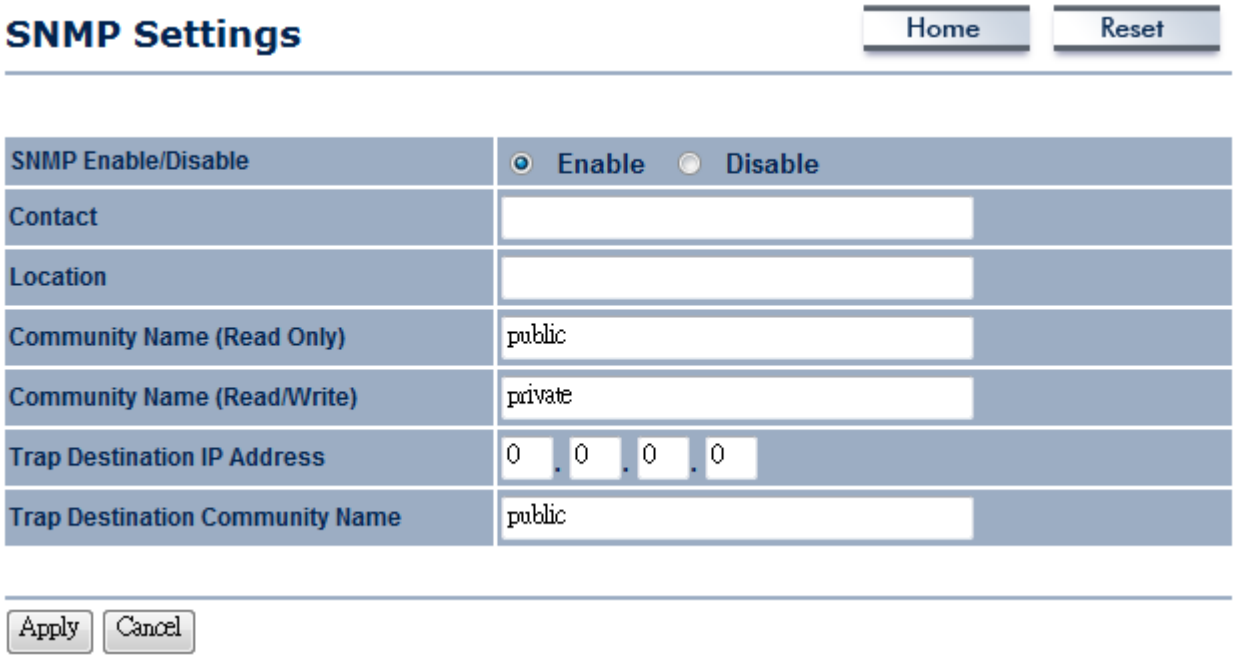


Management VLAN ID	If your network includes VLANs and if tagged packets need to pass through the Access Point, specify the VLAN ID into this field. If not, select the **No VLAN tag** radio button.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

Auction: If you reconfigure the Management VLAN ID, you may lose connection to the EOA3630. Verify DHCP server can support the reconfigured VLAN ID, and then re-connect to the new IP address.

8.3 SNMP Settings

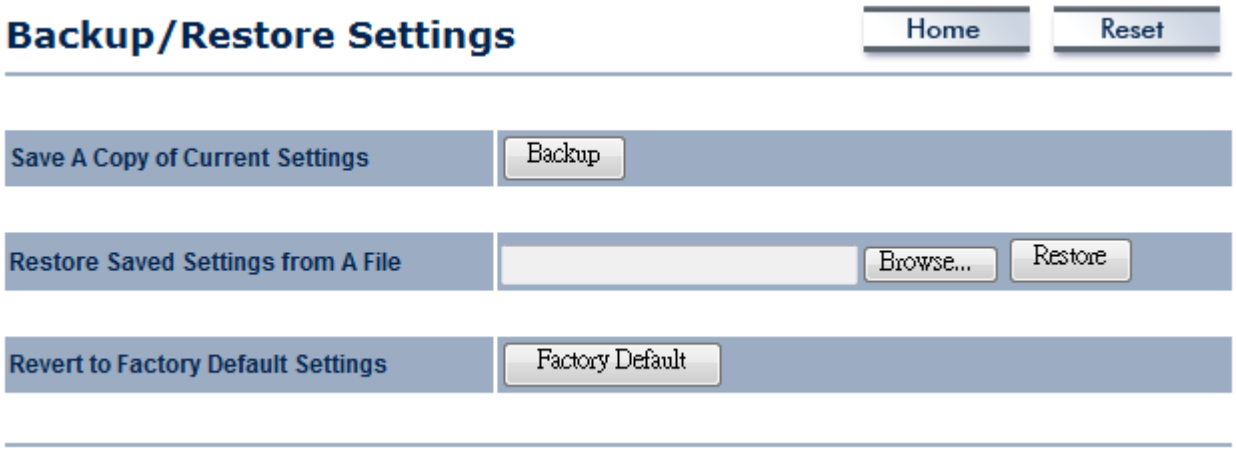
Click on the **SNMP Settings** link under the **Management** menu. This is a networking management protocol used to monitor network-attached devices. SNMP allows messages (called protocol data units) to be sent to various parts of a network. Upon receiving these messages, SNMP-compatible devices (called agents) return data stored in their Management Information Bases.



SNMP Enable/Disable	Select the Radio button to Enable or Disable SNMP function.
Contact	Specify the contact details of the device.
Location	Specify the location of the device.
Community Name	Specify the password for access the SNMP community for read only access.
Community Name	Specify the password for access the SNMP community for read and write access.
Trap Destination IP Address	Specify the IP address that will receive the SNMP trap.
Trap Destination Community Name	Specify the password of the SNMP trap community.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

8.4 Backup/Restore Settings

Click on the **Backup/Restore Setting** link under the **Management** menu. This option is used to save the current settings of the device in a file on your local disk or load settings on to the device from a local disk. This feature is very handy for administrators who have several devices that need to be configured with the same settings.



Save A Copy of Current Settings	Click on **Backup** to save current configured settings.
Restore Saved Settings from a File	EOA3630 can restore a previous setting that has been saved. Click on Browse to select the file and Restore.
Revert to Factory Default Settings	Click on Factory Default button to reset all the settings to the default values.

8.5 Firmware Upgrade

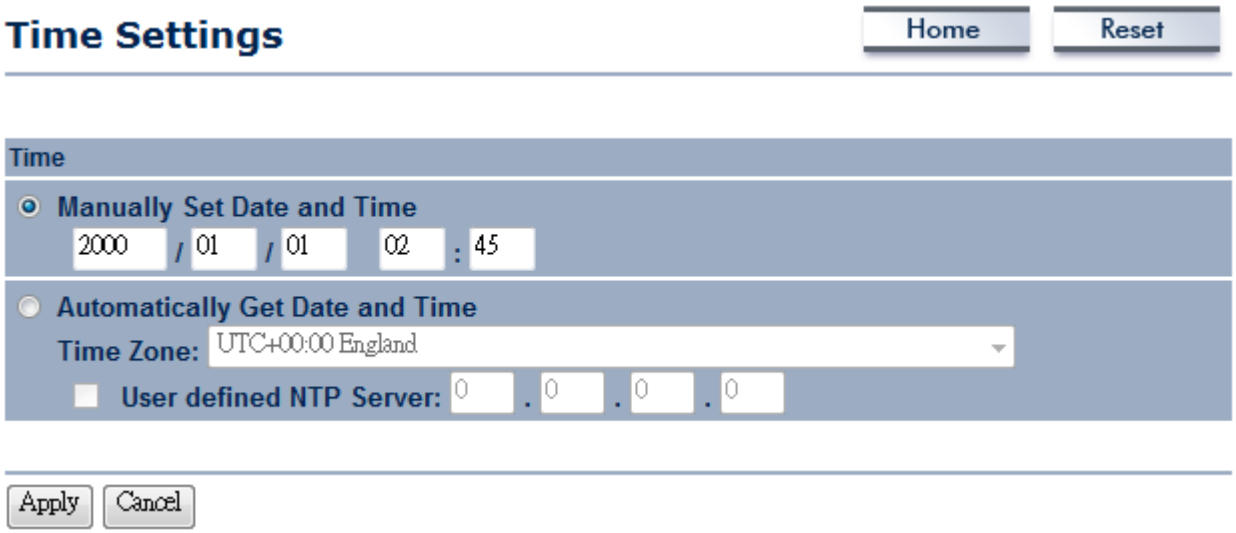
Click on the **Firmware Upgrade** link under the **Management** menu. This page is used to upgrade the firmware of the device. Make sure that downloaded the appropriate firmware from your vendor.

Auction: Upgrade process may take few minutes, please do not power off the device and it may cause

the device crashed or unusable. EOA3630 will restart automatically once the upgrade is completed.

8.6 Time Settings

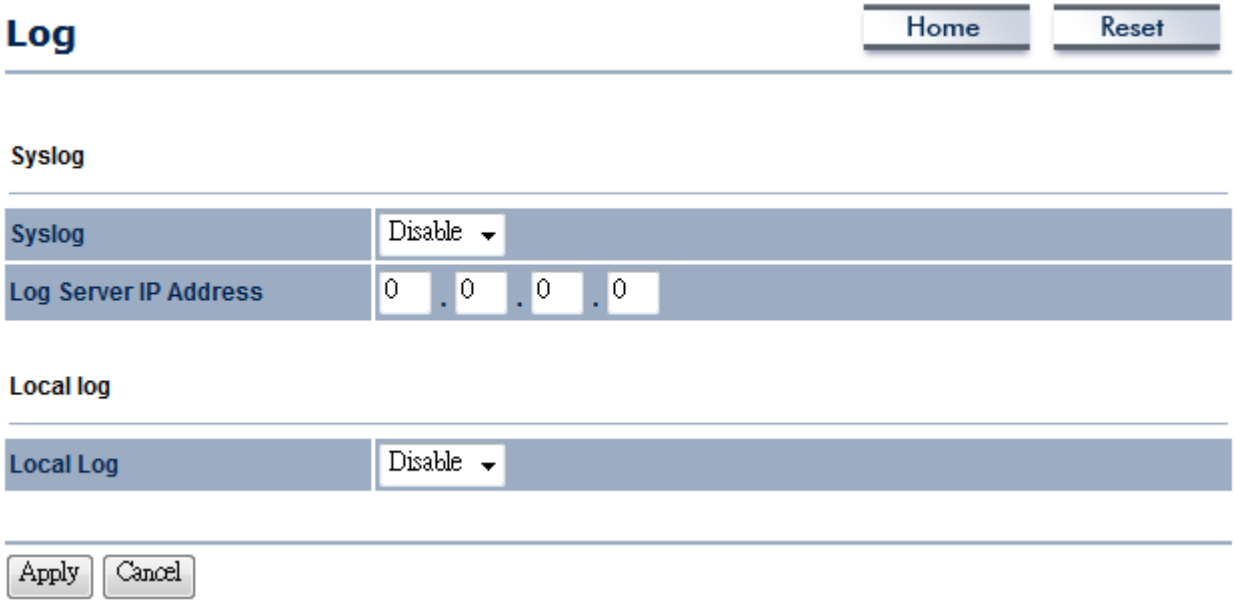
Click on the **Time Settings** link under the **Management** menu. This page allows you to configure the time on the device. You may do this manually or by connecting to a NTP server.



Manually Set Date and Time	Manually setup the date and time.
Automatically Get Date and Time	Specify the Time Zone from the drop down list and Place a **Check** to specify the IP address of the NTP Server manually or uses default NTP Server.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

8.7 Log

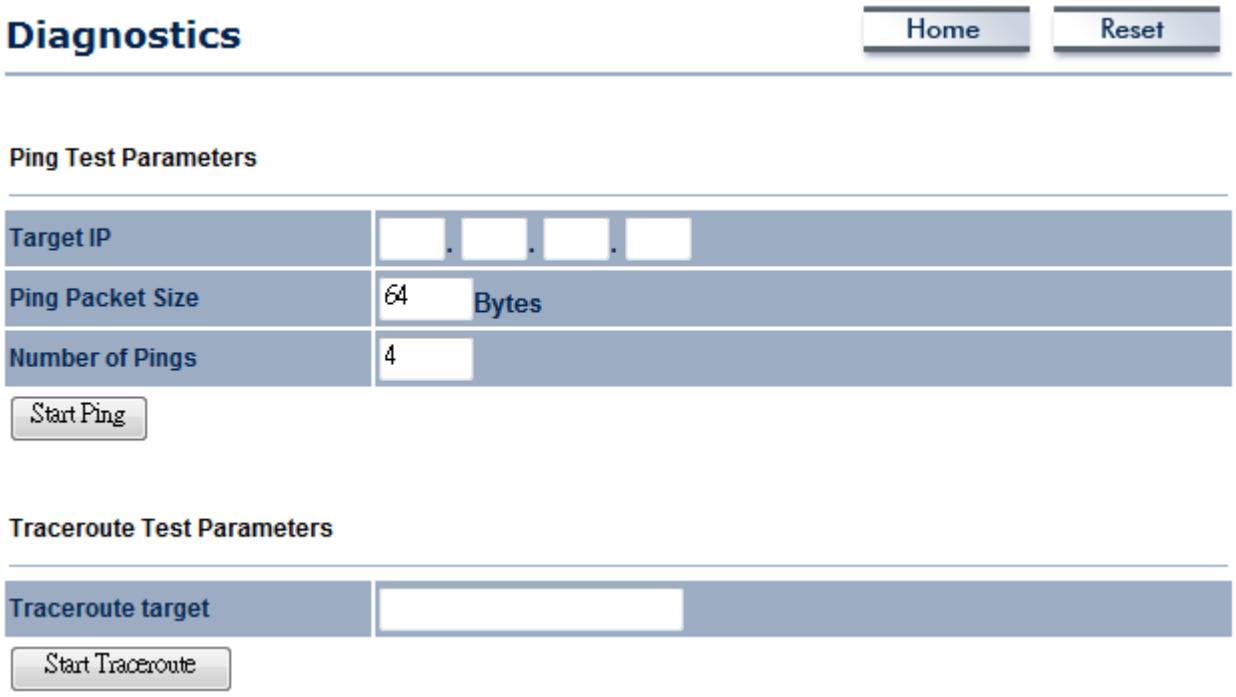
Click on the **Log** link under the **Management** menu. The **Log** page displays a list of events that are triggered on the Ethernet and Wireless interface. This log can be referred when an unknown error occurs on the system or when a report needs to be sent to the technical support department for debugging purposes.



Syslog	Select Enable or Disable Syslog function from the drop down list.
Log Server IP Address	Specify the Log Server IP address.
Local Log	Select Enable or Disable Local Log service.
Apply / Cancel	Press **Apply** to apply the changes or **Cancel** to return previous settings.

8.8 Diagnostics

Click on the **Diagnostics** link under the **Management** menu. This function allows you to detect connection quality and trace the routing table to the target.



Target IP	Specify the IP address you would like to search.
Ping Packet Size	Specify the packet size of each ping.
Number of Pings	Specify how many times of ping.
Start Ping	Press Start Ping to begin.
Traceroute Target	Specify an IP address or Domain name you would like to trace.
Start Traceroute	Press Start Traceroute to begin.

Appendix A – FCC Interference Statement

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:
FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.