AltCtrl

AltCtrl FW Series

AC-FW0514W User Manual

Version: **1.0.101001**
Release Date: **2010 / 10 / 01**

eRaySecure

Table of Contents

1. Getting Started with the AC-FW0514W

The AC-FW0514W is a useful UTM device that provides L7 security protections to the connected equipments after internet access devices. Any network equipments with standard WiFi connection, or 10/100 Mbps fast Ethernet port can connect to it, or to the switching device under its gateway coverage for protection. It is suitable to home or SMB users who has broadband internet service provided by lease line, xDSL, cable modem, or entry level of FTTX fiber optics.

AC-FW0514W has friendly web based graphic user interface for system configuration, inspection, and management control. Without additional host CPU resource or installation process, AC-FW0514W provides transparent security features such as anti-virus, IPS, instant messaging and peer-to-peer application control, malicious web drive-by download protection, and category-based URL filtering.

Features and Benefits

- The simplest and most cost effective security device.
- No additional host-CPU resources consumption / No Installation needed.
- High throughput that provides rapid network Download and Access.
- Firewall, Anti-Virus, IPS , IM / P2P, Anti-Malicious URL, URL Protocol filterer.
- Friendly graphic user interface control, inspection report and management.
- Easy use with "**Network Config Wizard**".
- Support PPPoE, DHCP, NAT
- Suitable for Home, SOHO and SMB users.

2. Security Functional Features

Anti-Virus

- Packet-based Virus Scanning
- Support HTTP / FTP / SMTP / POP3 / IMAP4 / TCP STREAM
- Packet-Based Decoding for Base64 / UUencode / QP
- Packet-Based Decompression for Zip / Gzip / Rar
- Detect Viruses Across in Multi-Packets

Intrusion Prevention System(IPS)

- Packet-Based Intrusion Scanning
- Support TCP Reassembly
- Protocol Anomaly Detection
- Traffic Anomaly Detection
- URI Normalization

Application Guard

- Detection for Well-Known Protocols
- HTTP / FTP / SMTP / POP3
- AOL / Jabber / MSN / QQ
- eDonkey / Fasttrack / Thunder

Web Guard

- Website Hijacking Prevention
- Concise URL Malicious Website Database
- Smaller Database Size
- URL Path Only and URL Host+Path Support

URL Filter

- High Speed Filtering
- Category-Based Blacklist Function
- Low Rates of Overblocking
- World's Best Site Coverage
- Comprehensive Categories

3. Identify Components

3.1. Front Panel

The LEDs indicate its operational status.

LED Description

LED	Color	Condition	Status
POWER	Green	On	Power on
		Off	Power off
WiFi	Green	On	WiFi enabled
		Blinking	Transmitting
		Off	WiFi not ready or failed
	Orange	On	Firmware updating
		Blinking	Resetting to default
WAN	Green	On	Physical link ok
		Blinking	Transmitting
		Off	Ethernet not ready or failed
LAN	Green	On	Physical link ok
		Blinking	Transmitting
		Off	Ethernet not ready or failed

3.2. Back Panel

Feature	Description
POWER	The receptacle where you plug in the power adapter
WAN	Using this port to connect your modem to AC-FW0514W.
LAN	Using those ports to connect your PC or NB to AC-FW0514W.
RESET	Push and hold RESET button over 5 seconds and then release to reset to factory default settings.
WiFi	Enable/disable WiFi function

Note:
Push “RESET” button can reset to factory default settings.
“RESET” button is not for “Restart Device”.
You can go to the “System / Restart Device” to reboot system, or power off and power on AC-FW0514W for “Restart Device”.

3.3. Hardware Specification

Feature	Description
Network	10/100Mbps Fast Ethernet X 5 (LAN X 4, WAN X 1) IEEE 802.11b/g/n draft
Power Supply	Switching Power Adapter Input: 100~240V ; Output: 12V / 1A Power Connector: +5V DC-in Lack
Reset	Push and hold RESET button over 5 seconds and then release to reset to factory default settings.

3.4. Environment Conditions

Feature	Description
Operating Temperature	0 ^{O}C ~ 45 ^{O}C (0 ^{O}F ~ 113 ^{O}F) ambient temperature
Storage Temperature	-30 ^{O}C ~ 70 ^{O}C (-86 ^{O}F ~ 158 ^{O}F) ambient temperature
Operating Humidity	90% maximum (non-condensing)
Storage Humidity	90% maximum (non-condensing)

4. Connect to the AC-FW0514W

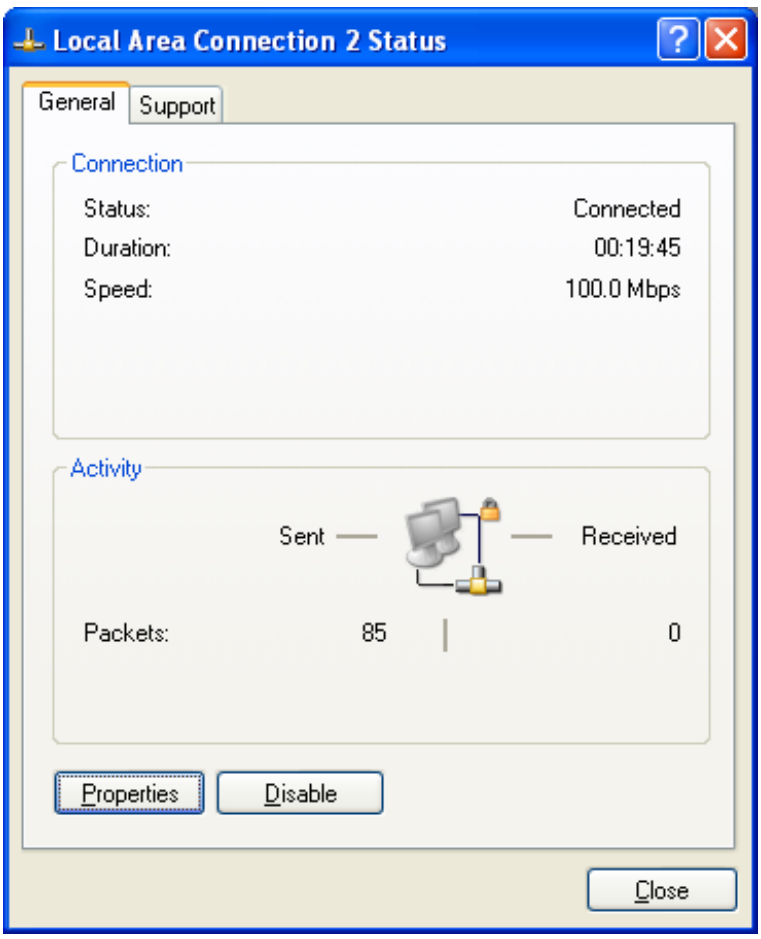
4.1. Setup AC-FW0514W device

1. Power the AC-FW0514W device by power adaptor.
2. Connect WAN to the Internet and then connect LAN to your networking devices.

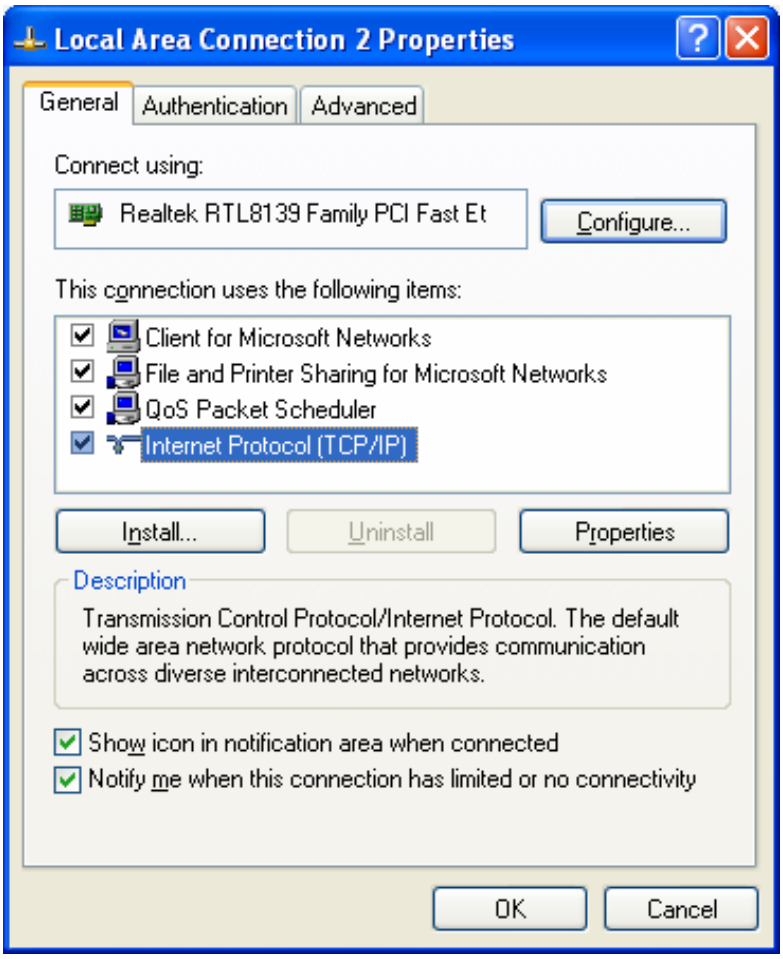
4.2. Configure your computer

❖ Windows XP configuration:

1. Click “**Start / Settings / Control Panel**” **(or “Start / Control Panel”)** .
2. Click “**Network and Internet Connections”.**
3. Click "**Network Connection”**
4. Double-click “**Local Area Connection”**.

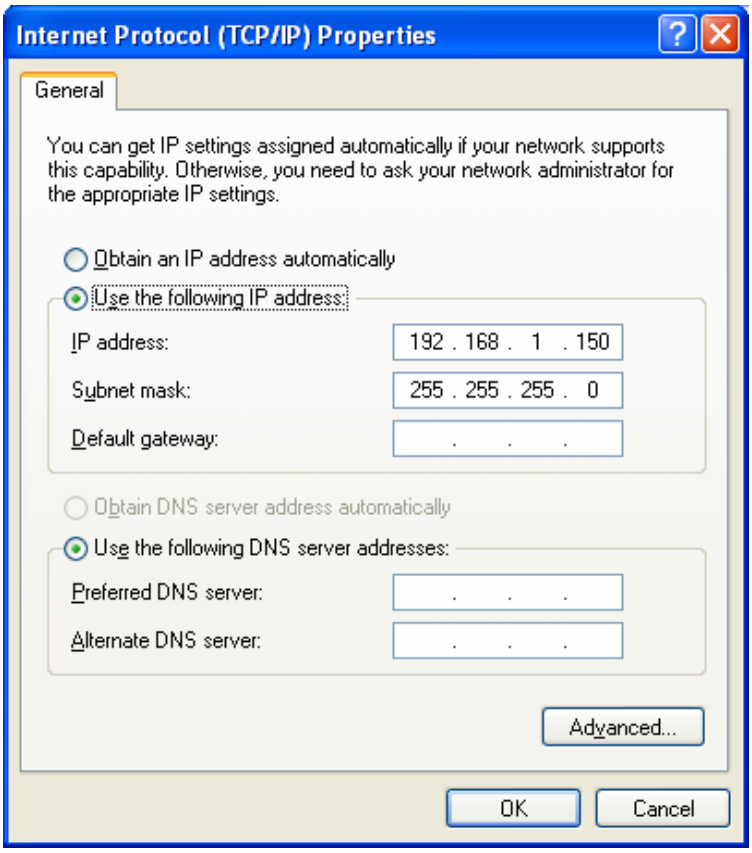


5. Click the “**Properties”** button.



6. Ensure the box next to “**Internet Protocol (TCP / IP)”** is selected.

7. Click to highlight “**Internet Protocol (TCP / IP)”** and click the “**Properties”** button.

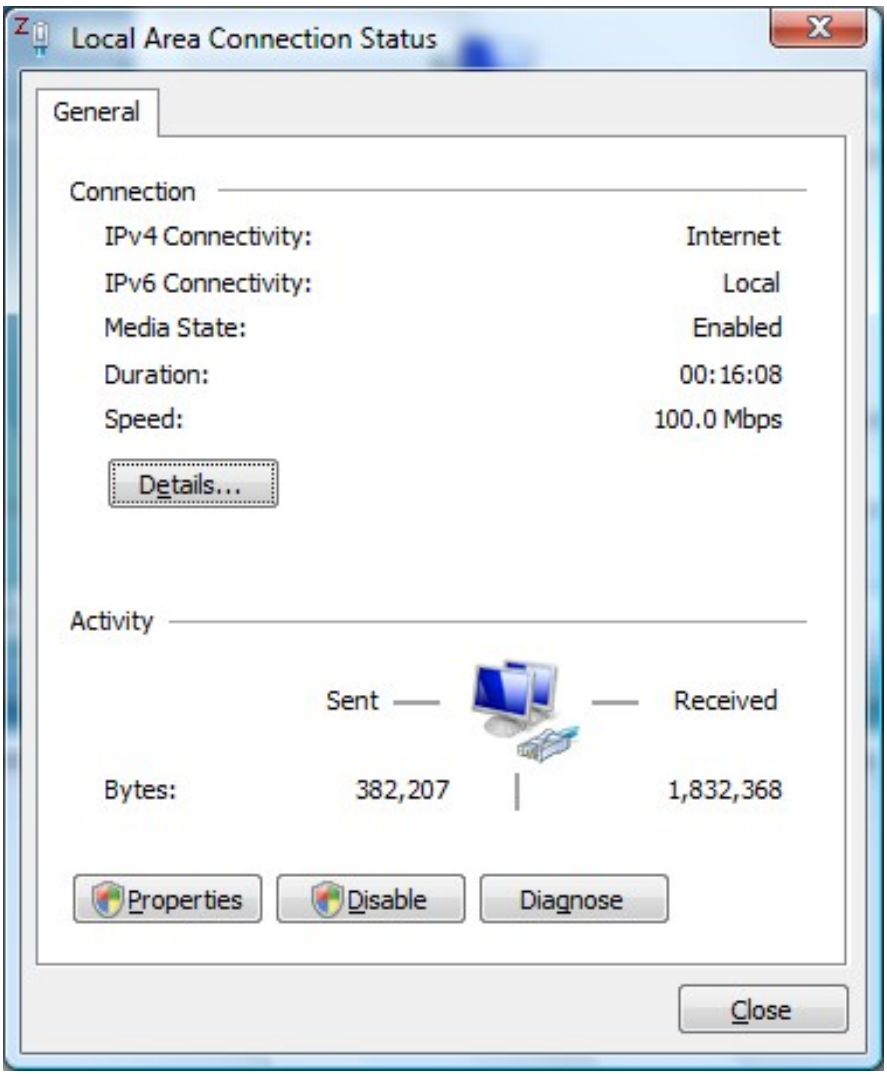


8. Select "**Use the following IP address"**, and enter IP address: **192.168.1.150***, Subnet mask: **255.255.255.0**. Click **OK** twice to exit and save your settings.
   (* You can enter 192.168.1.2 ~ 192.168.1.254 as long as there is no IP confliction.)

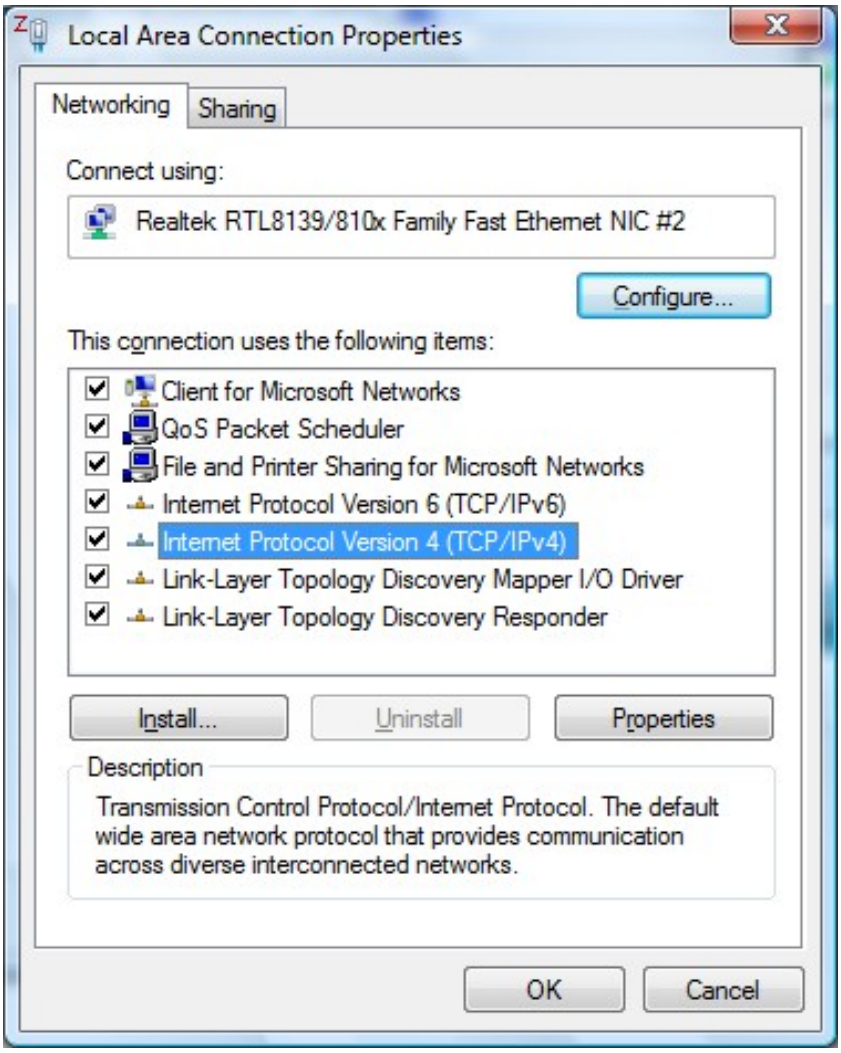
9. **You can also select "Obtain an IP address automatically" and click OK to save your settings.**

❖ Windows Vista configuration:

1. Click “**Start / Settings / Control Panel**” **(or “Start / Control Panel”)** .
2. Click “**Network and Internet”.**
3. Click “**Network and Sharing Center”.**
4. Click **“Manage network connections”.**
5. Double-click “**Local Area Connection”**.

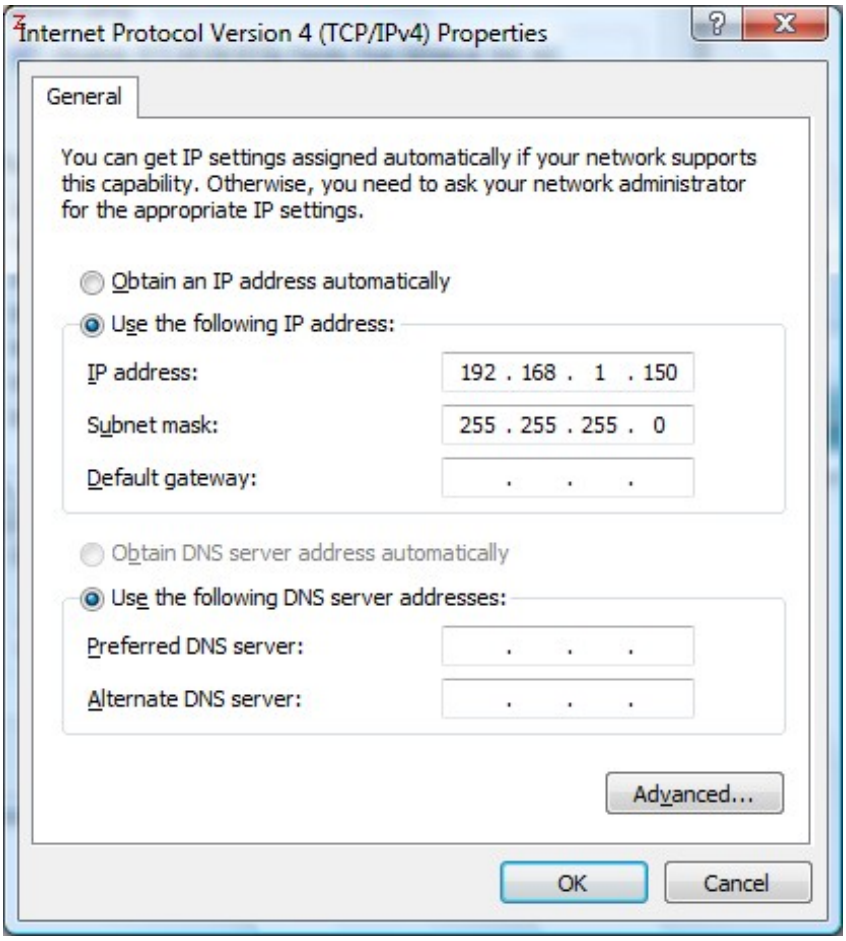


6. Click the “**Properties”** button.



7. Ensure the box next to "**Internet Protocol Version 4 (TCP / IPv4)"** is selected.

8. Click to highlight "**Internet Protocol Version 4 (TCP / IP v4)"** and click the "**Properties"** button.

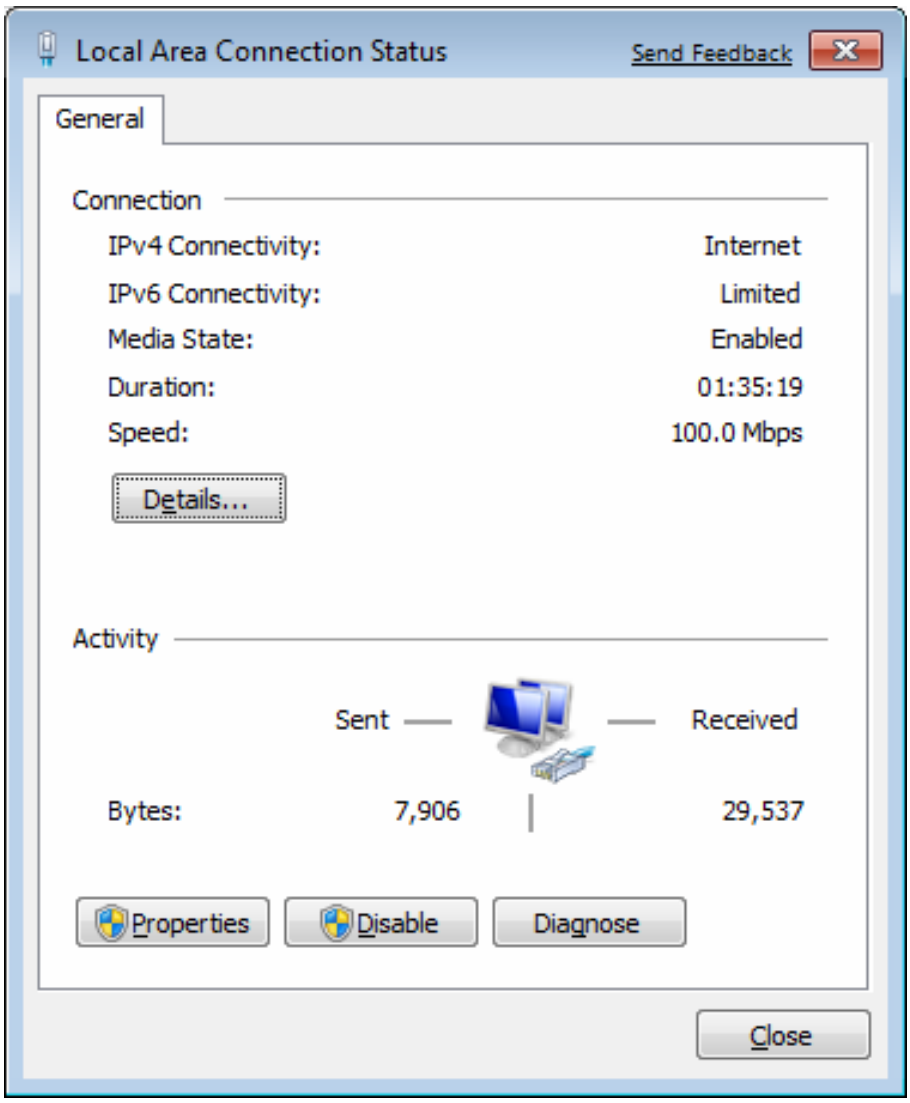


9. Select "**Use the following IP address"**, and enter IP address: **192.168.1.150***, Subnet mask: **255.255.255.0**. Click **OK** twice to exit and save your settings.
   (* You can enter 192.168.1.2 ~ 192.168.1.254 as long as there is no IP confliction.)

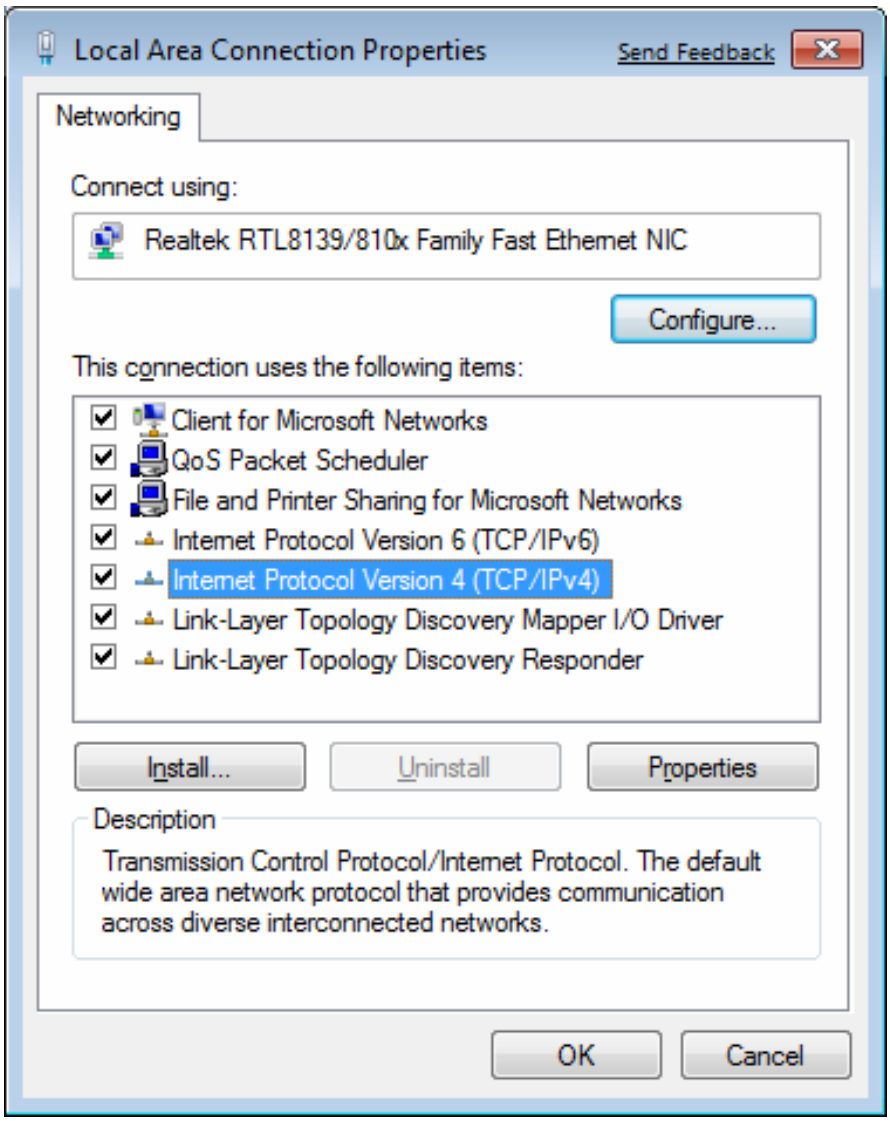
10. **You can also select "Obtain an IP address automatically" and click OK to save your settings.**

❖ Windows 7 configuration:

1. Click “**Start / Settings / Control Panel**” **(or “Start / Control Panel”)** .
2. Click “**Network and Internet”.**
3. Click “**Network and Sharing Center”.**
4. Click “**Change adapter settings”.**
5. Double-click “**Local Area Connection”**.

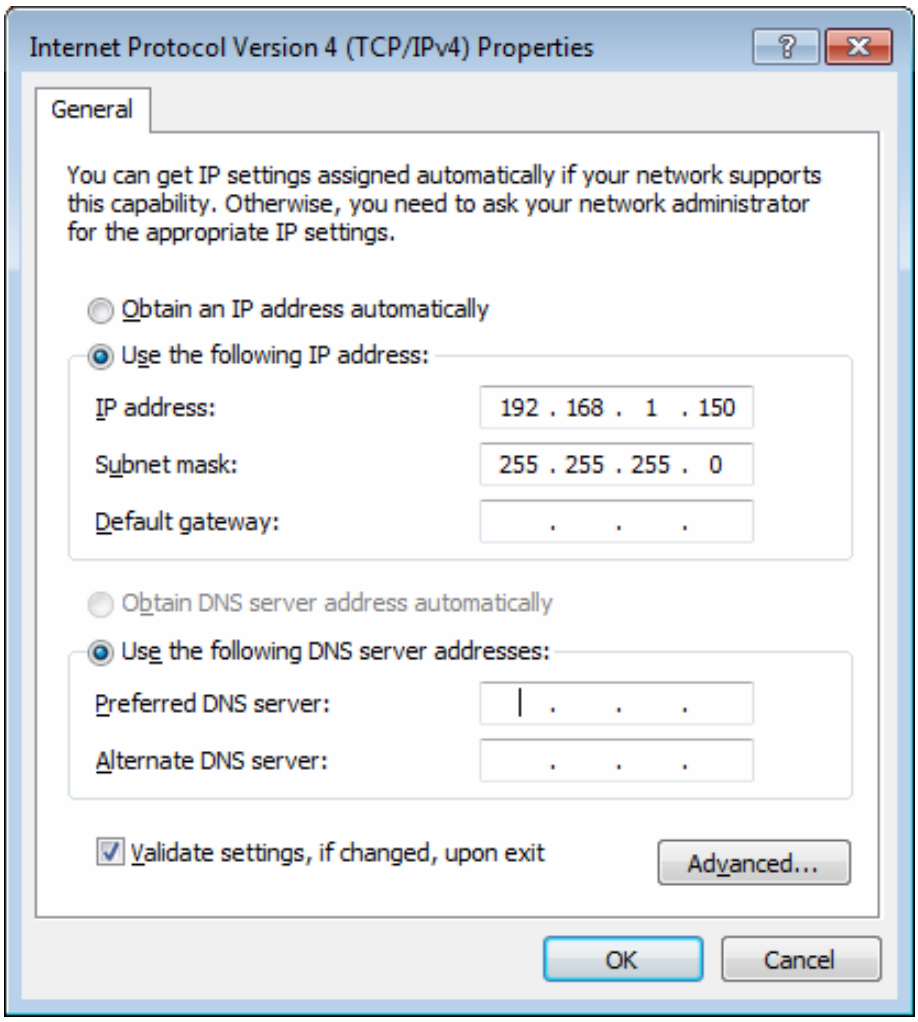


6. Click the “**Properties”** button.



7. Ensure the box next to “**Internet Protocol Version 4 (TCP / IPv4)”** is selected.

8. Click to highlight “**Internet Protocol Version 4 (TCP / IPv4)”** and click the “**Properties”** button.



9. Select "**Use the following IP address"**, and enter IP address: **192.168.1.150***, Subnet mask: **255.255.255.0**. Click **OK** twice to exit and save your settings.

   (* You can enter 192.168.1.2 ~ 192.168.1.254 as long as there is no IP confliction.)

10. **You can also select "Obtain an IP address automatically" and click OK to save your settings.**

4.3. Log in AC-FW0514W

This section will show you how to configure **AC-FW0514W** by using the web-based configuration utility. Please be noted that the best supporting browsers are IE7, IE8 and Firefox 3.x. (IE6 and Firefox 2.x are not supported).

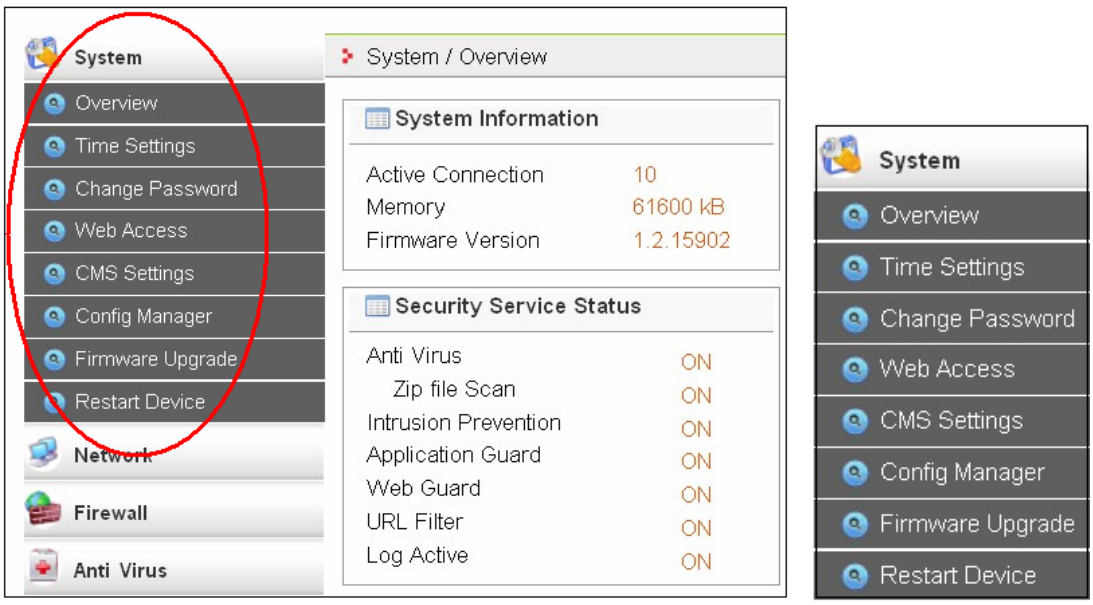
1. To access the configuration utility, open a web browser and enter:
   http://192.168.1.1 (or: 192.168.1.1)

2. Once the log in page successfully appeared, please continue to enter username and password.
   For the first time, please select your language and enter default username and password.
   Username: **admin**
   Password: **123456**

5. Configuration

5.1. System

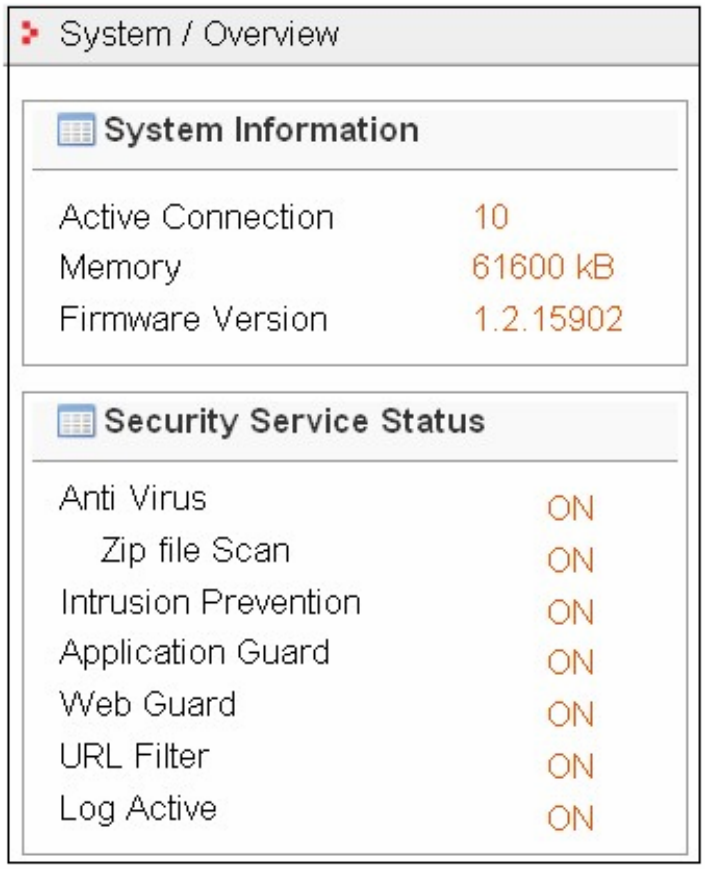
The system menu is where you carry out the basic setup of AC-FW0514W. It includes Time Settings, Change Password, Web Access, CMS Settings, Config Manager, Firmware Upgrade and Restart Device.



5.1.1. System / Overview

Overview

After you log in, go to the "**System"** and click "**Overview"** to see the system information and security service status.

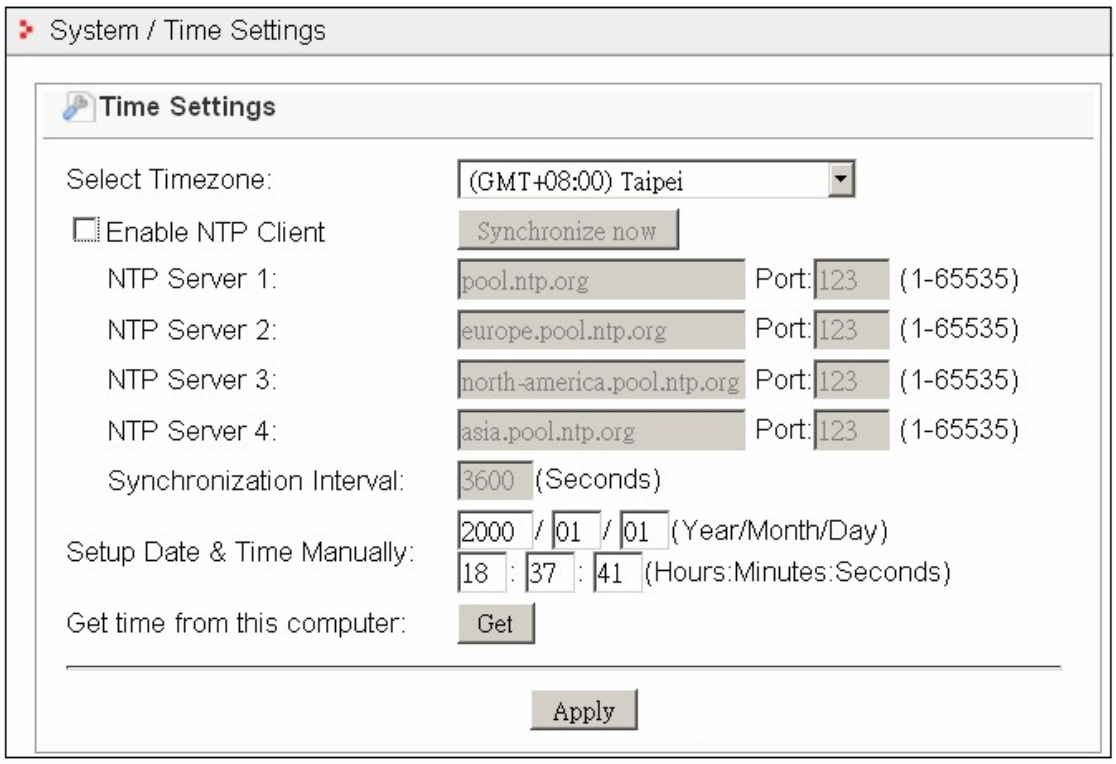


5.1.2. System / Time Settings

Time Settings

To configure the correct time in the local zone of the internal system clock, select your time zone from the drop-down "**Select Timezone"** manual and then click "**Apply".** Also you can tick "**Enable NTP Client**" check bottom and input the NTP Servers, or click "**Synchronize now"** button to correct system time immediately or input synchronization interval time (seconds) for auto time correction.

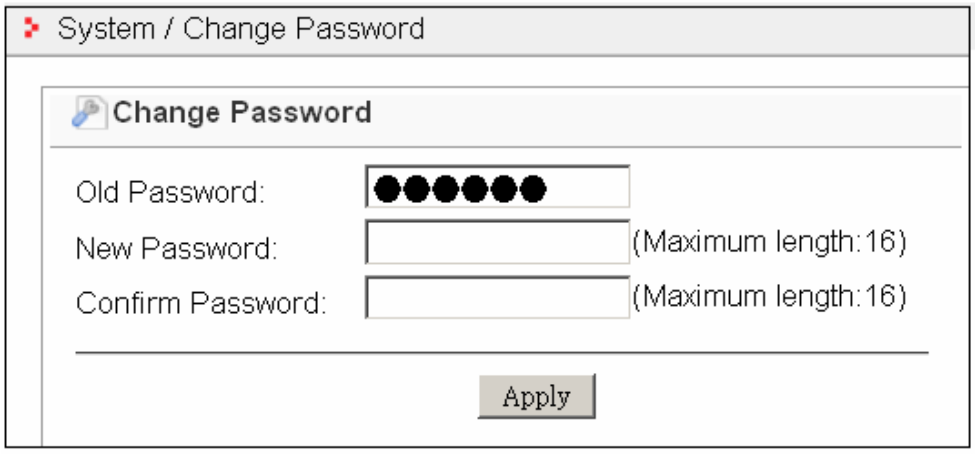
You can **untick** "**Enable NTP Client**" check bottom then setup date and time manually. Also you can **untick** "**Enable NTP Client**" check bottom then click "**Get"** button to get time from your computer, it will correct system time from your computer's system time.



5.1.3. System / Change Password

Change Password

It is highly recommended you change the default password. Enter a new password and confirm by entering the new password again. And then click **"Apply"** to change.

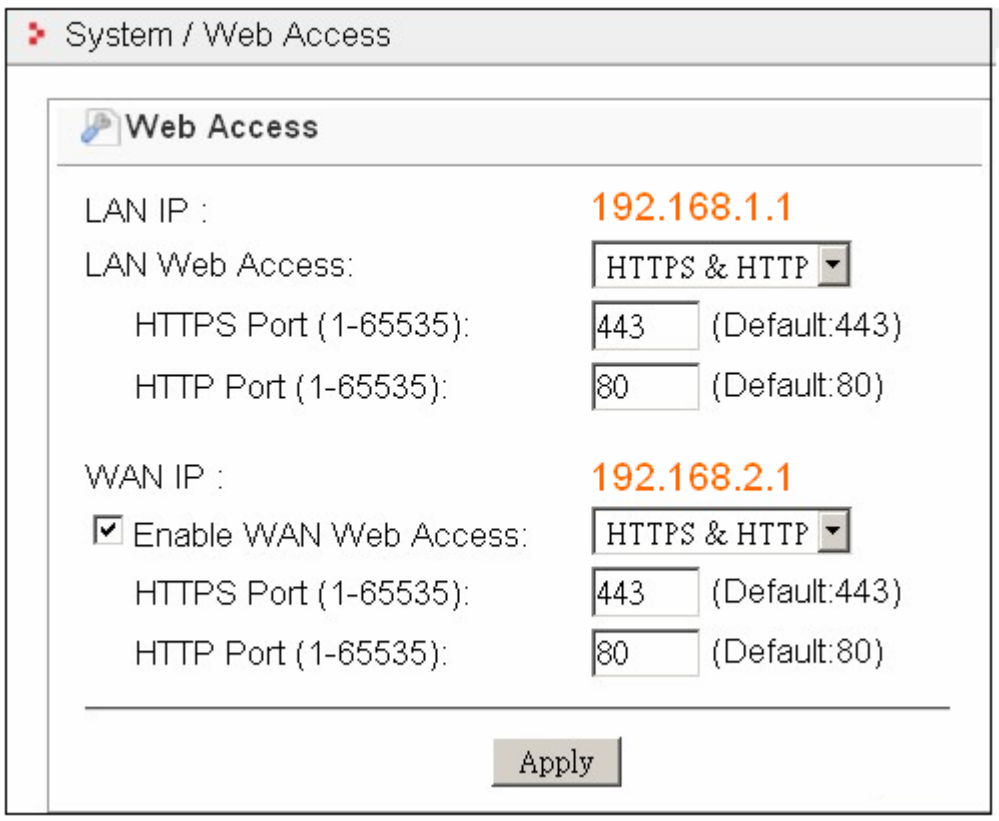


5.1.4. System / Web Access

Web Access

LAN / WAN web access means that you can connect to web GUI via LAN / WAN IP address. We provide both HTTPS and HTTP web access, and you can change HTTPS port or HTTP port by entering a new port, and then click **“Apply”** to change.

WAN port web access is disabled by default settings for security reason. You can select “**Enable WAN Web Access”** and then click **“Apply”** to enable WAN web access.



Note:

You can access “Bridge IP” or “Management IP” from internal(LAN) or external(WAN) when you choose “Bridge” mode.

"Web Access" page will not be showed when you choose “Bridge” mode.

5.1.5. System / CMS Settings

CMS Settings

CMS: Central Management System

You need to build CMS Server first to manage and receive logs for AC-FW0514W.

In this page, you can enable or disable CMS with **"Enable CMS Support"** check box, and then click "**Apply**".

Tick the **"Enable CMS Support"** check box and fill in:

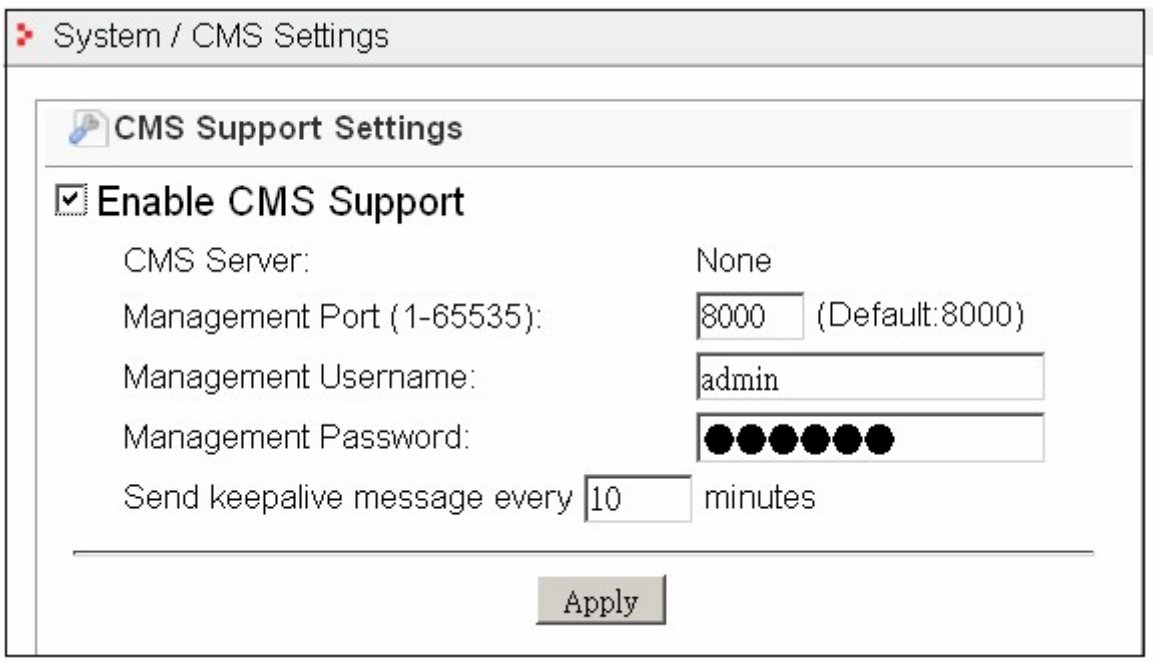
Management Port (1-65535) (Default: 8000).

Management Username.

Management Password.

Send keepalive message every xx minutes.

Click "**Apply**" to validate the setting.



5.1.6. System / Config Manager

Config Manager

In this page, you can export or import config file to restore.

In the **"Config Export"**, you can click **"Export"** to download config file to your computer.

In the **"Config Import"**, you can assign and browse config file in your computer and then click "**Upload**" to upload profile and restore system.

In the **"Profile Manager"**, you can save three profiles in the system by filling in **profile name** and click **"Create".**

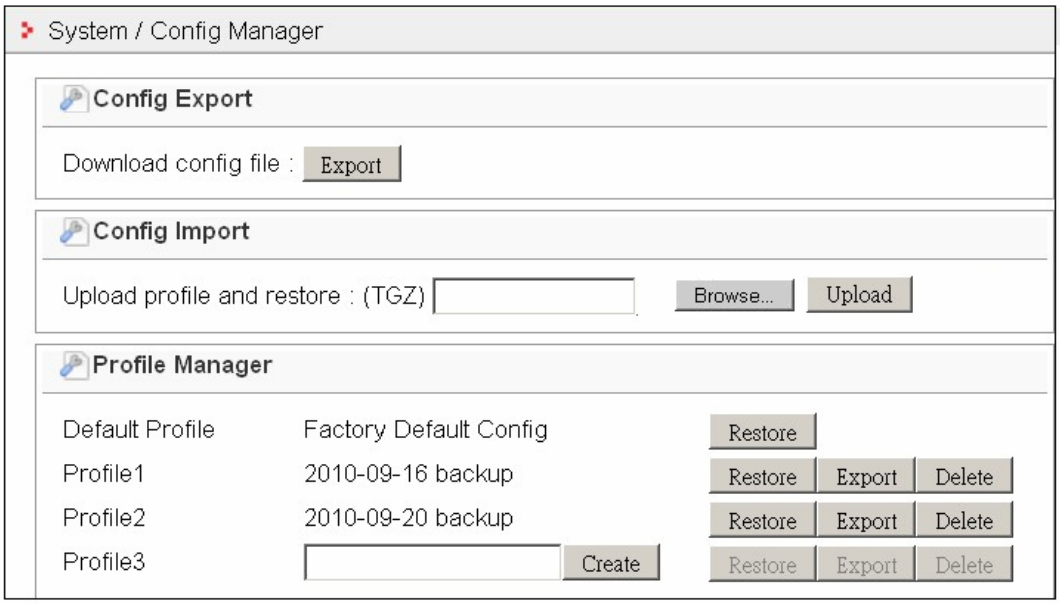
You can choose "**Factory Default Config**" or any profile you create, and click "**Restore**" to restore system.

And you can choose any profile you create, and click **"Export"** to download config file to your computer.

You can choose one profile, and click **"Delete"** to delete the profile.

Note:

You cannot Export or Delete the "Factory Default Config".

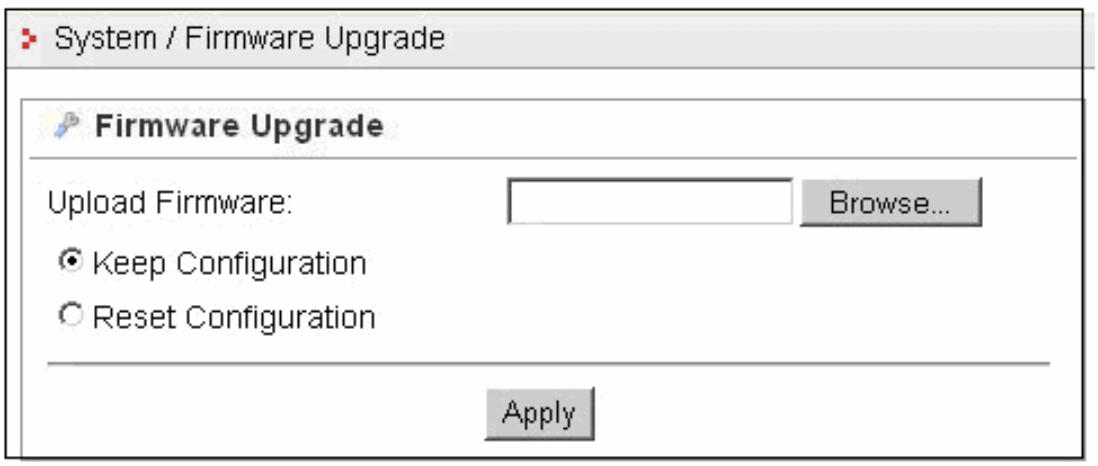


5.1.7. System / Firmware Upgrade

Firmware Upgrade

Upgrade the firmware of AC-FW0514W when a new version of firmware releases.

When you got the new firmware file, assign it at this page, choose "**Keep Configuration"** or "**Reset Configuration"**,then click "**Apply"** to complete the firmware upgrade.

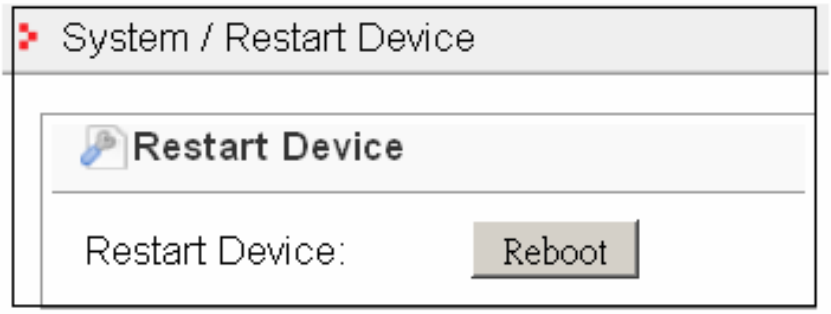


Note: The orange LED "**WiFi**" lights on and the message "**System is upgrading firmware, please don't power off or reboot now.**" shows during the upgrading process. **DO NOT power off or prevent power cut-off during the process of firmware upgrade, it may cause the system breakdown and can not be recovered to normal operating condition.**

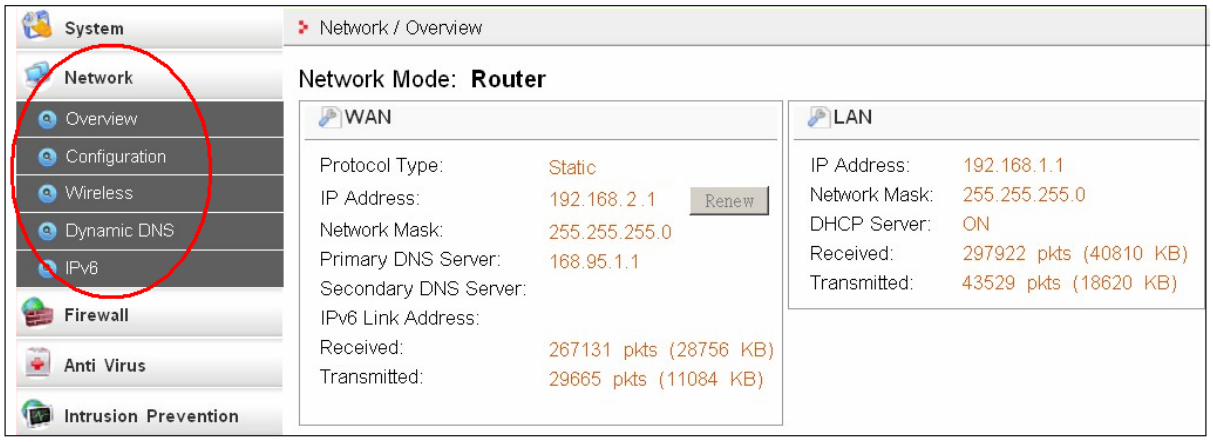
5.1.8. System / Restart Device

Restart Device

Click to the "**System"** menu and then goes to "**Restart Device**" icon. In this screen, click "**Reboot"** button to reboot your system.



5.2. Network

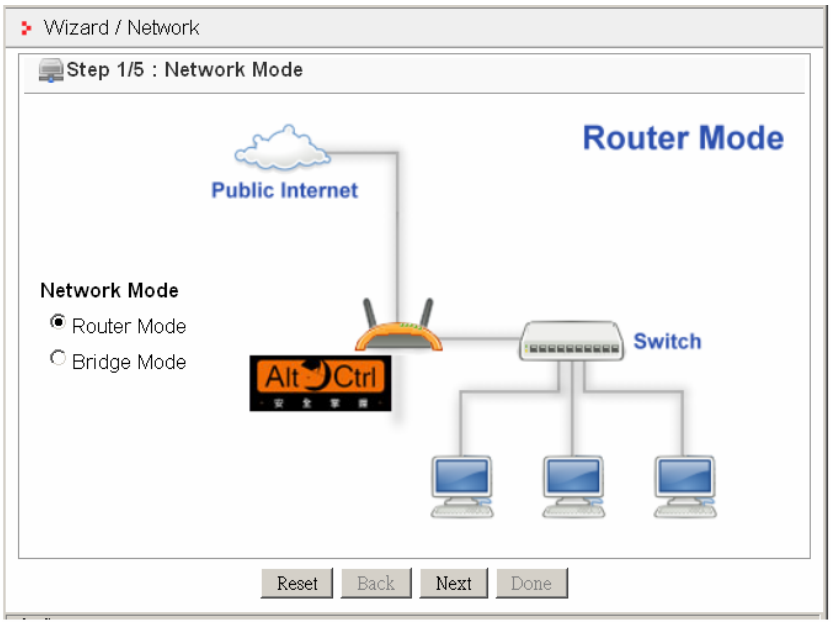


Default Network Settings:

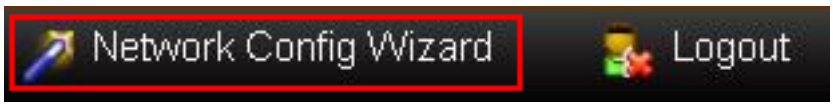
- **Network Mode : Router Mode**
- **WAN IP : DHCP**
- **LAN IP : 192.168.1.1 (Enable DHCP Server)**

5.2.1. Network Config Wizard

When you log in AC-FW0514W ,the browser will popup "**Network Config Wizard**".

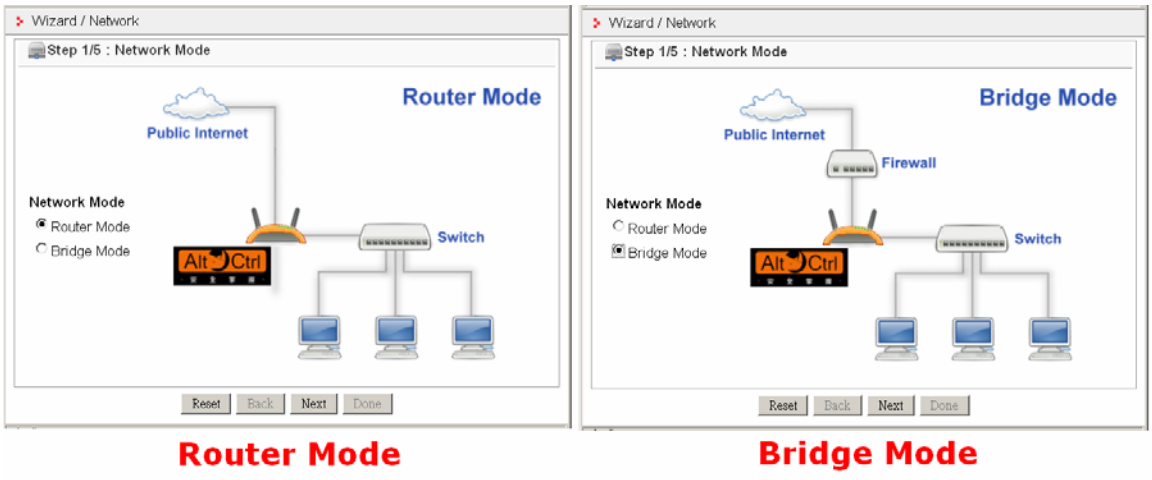


Or you can click the " **Network Config Wizard**" manually on the top to start Wizard.



1. **Step 1/5 : Choose “Network Mode”.**

   You can choose “**Router Mode**” or “**Bridge Mode**”.

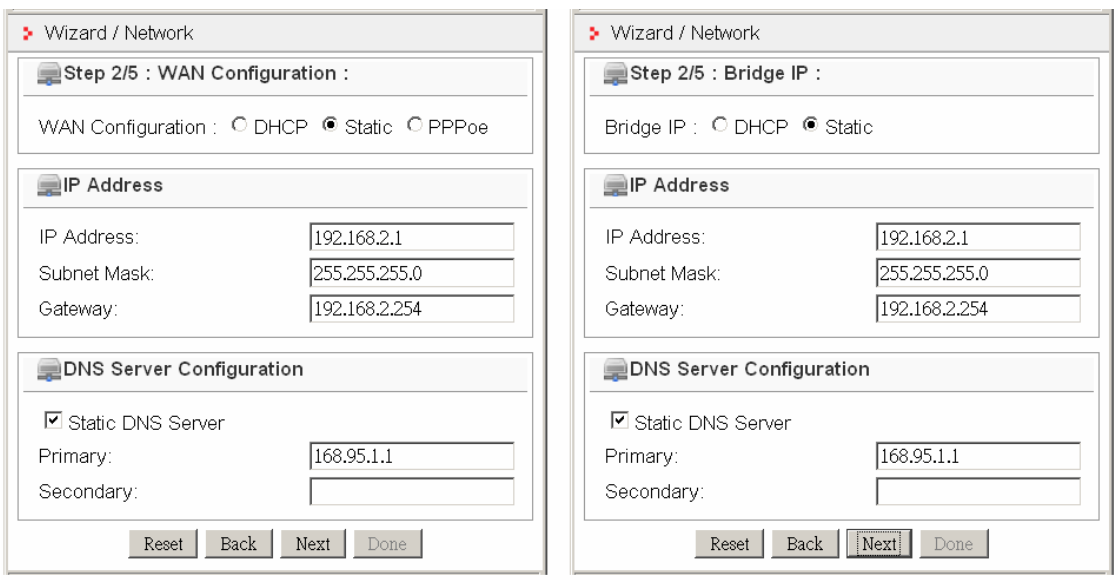


Router Mode **Bridge Mode**

2. **Step 2/5 : WAN/Bridge IP Configuration :**

   In "**Router Mode**",you can select “**DHCP**”, “**Static**” or “**PPPoe**” for the **WAN IP**.

   In "**Bridge Mode**",you can select “**DHCP**”or “**Static**” for the **Bridge IP**.

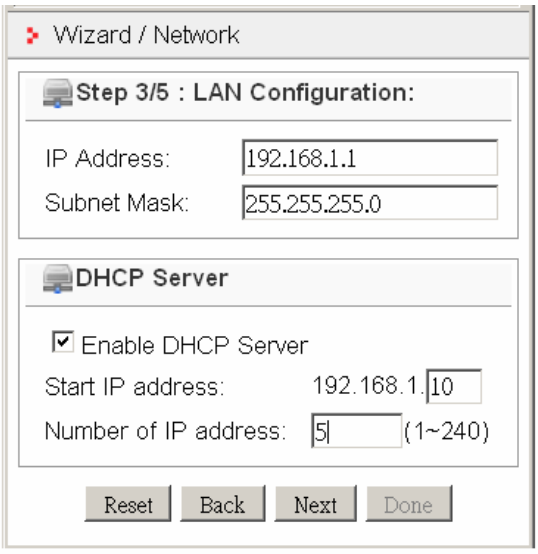


Router Mode **Bridge Mode**

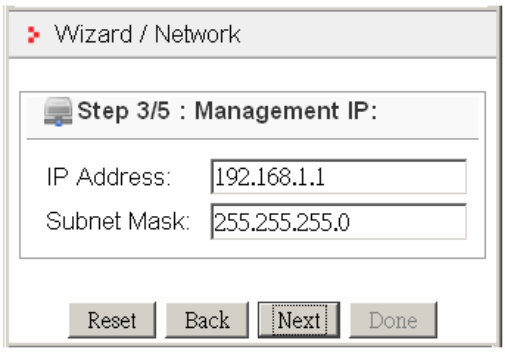
3. Step 3/5 : LAN/Management IP Configuration:

In "**Router Mode**",you can"**Enable DHCP Server**" for the **LAN**.

In "**Bridge Mode**",you can access **AC-FW0514W** with "**Management IP**" even in the "DHCP" client for the WAN.

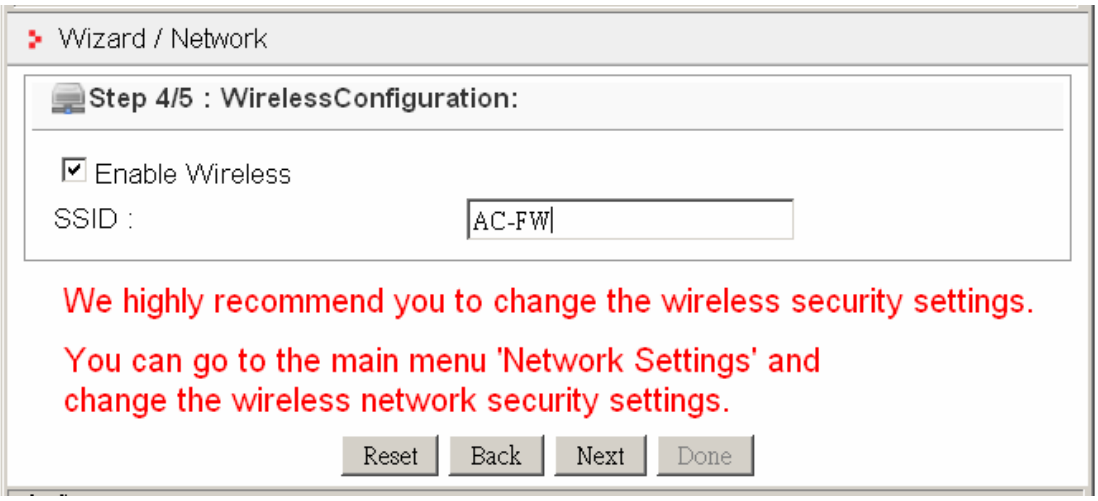


Router Mode

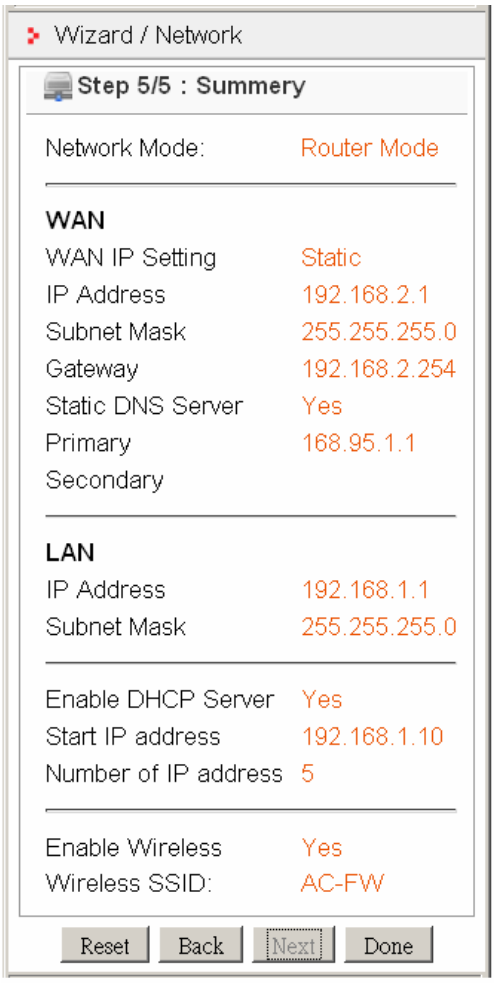


Bridge Mode

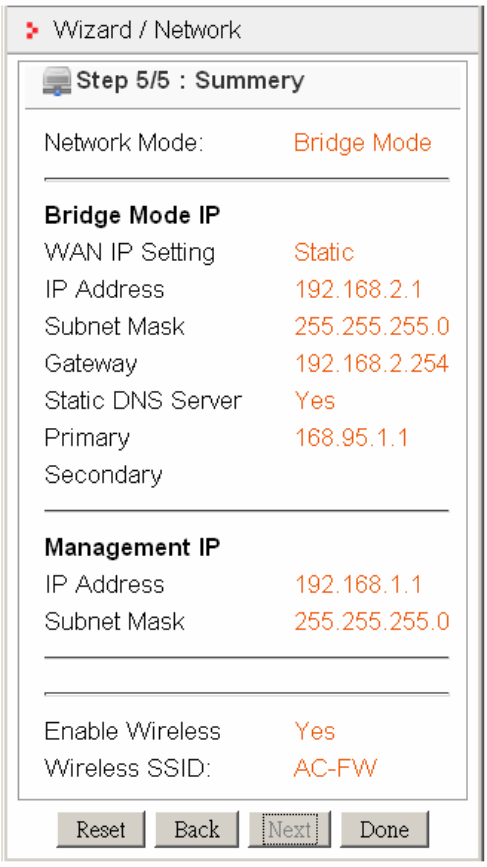
4. Step 4/5 : Wireless Configuration:



5. Step 5/5 : Summery



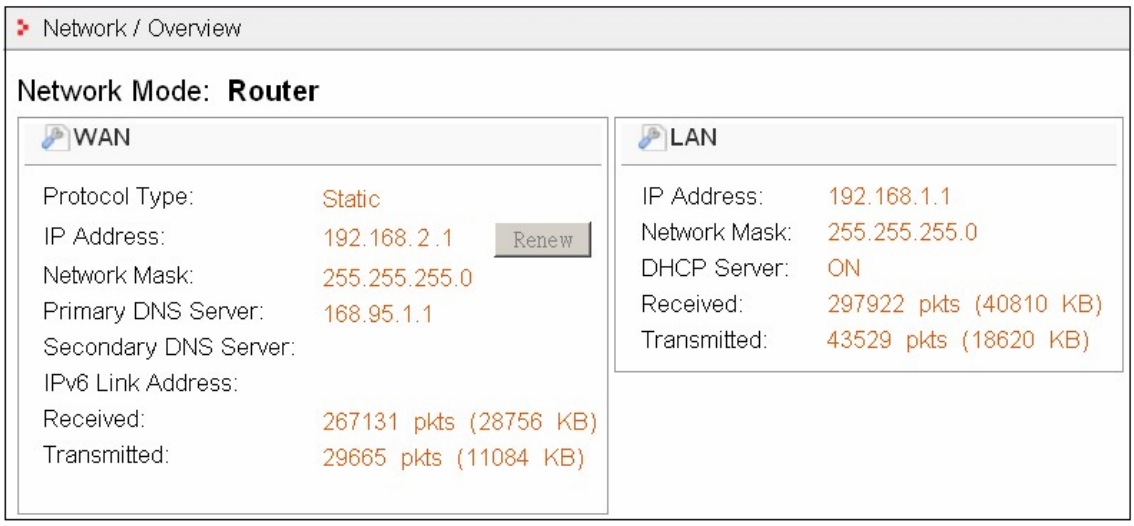
Router Mode



Bridge Mode

5.2.2. Network / Overview

Overview shows the current connecting status.



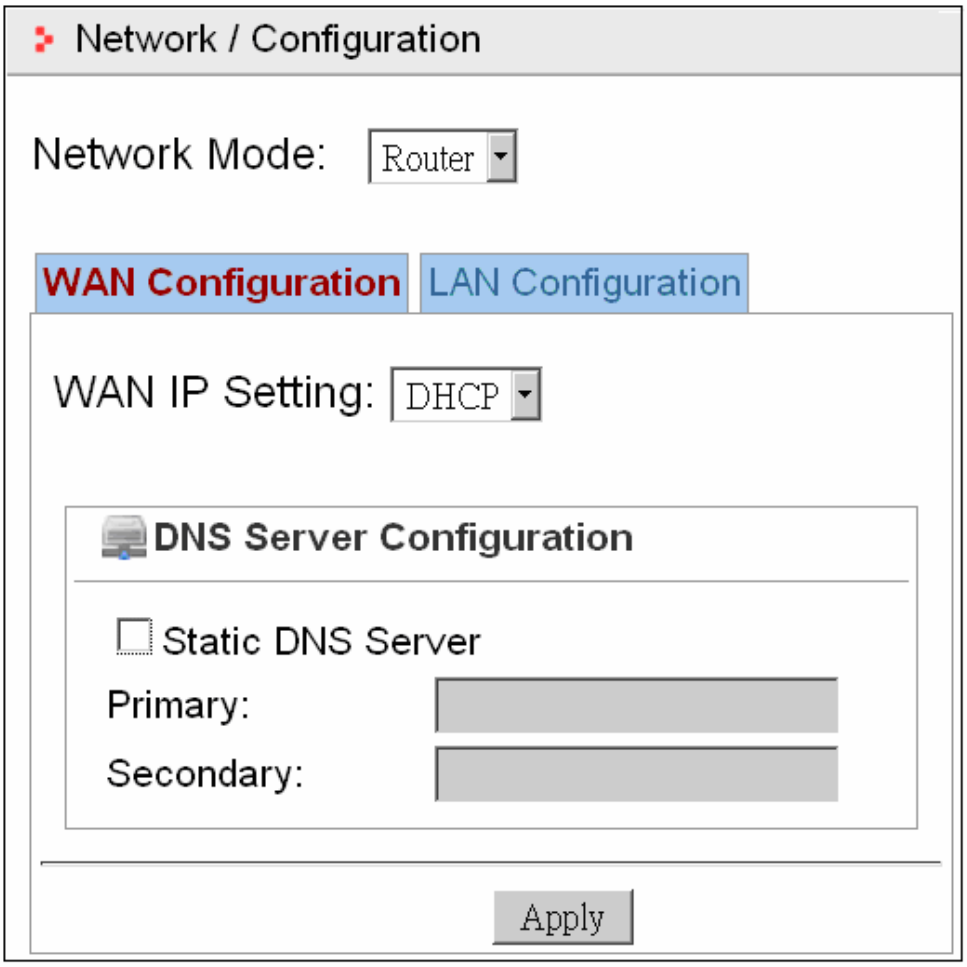
5.2.3. Network / Configuration

Network Mode:

Click configuration and select your Network Mode.

You can choose “**Bridge”** mode or “**Router”** mode.

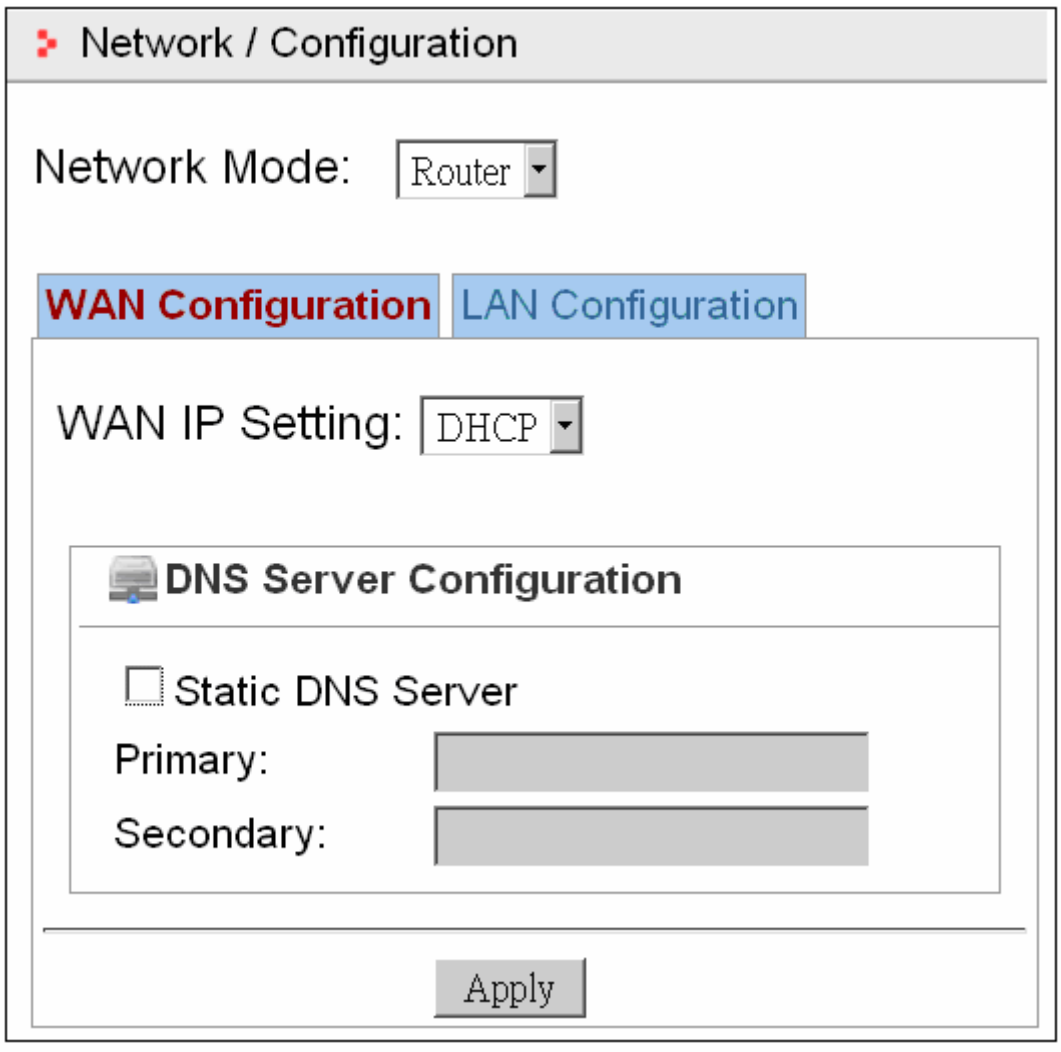
Default setting is “**Router”** mode.



* Router Mode:

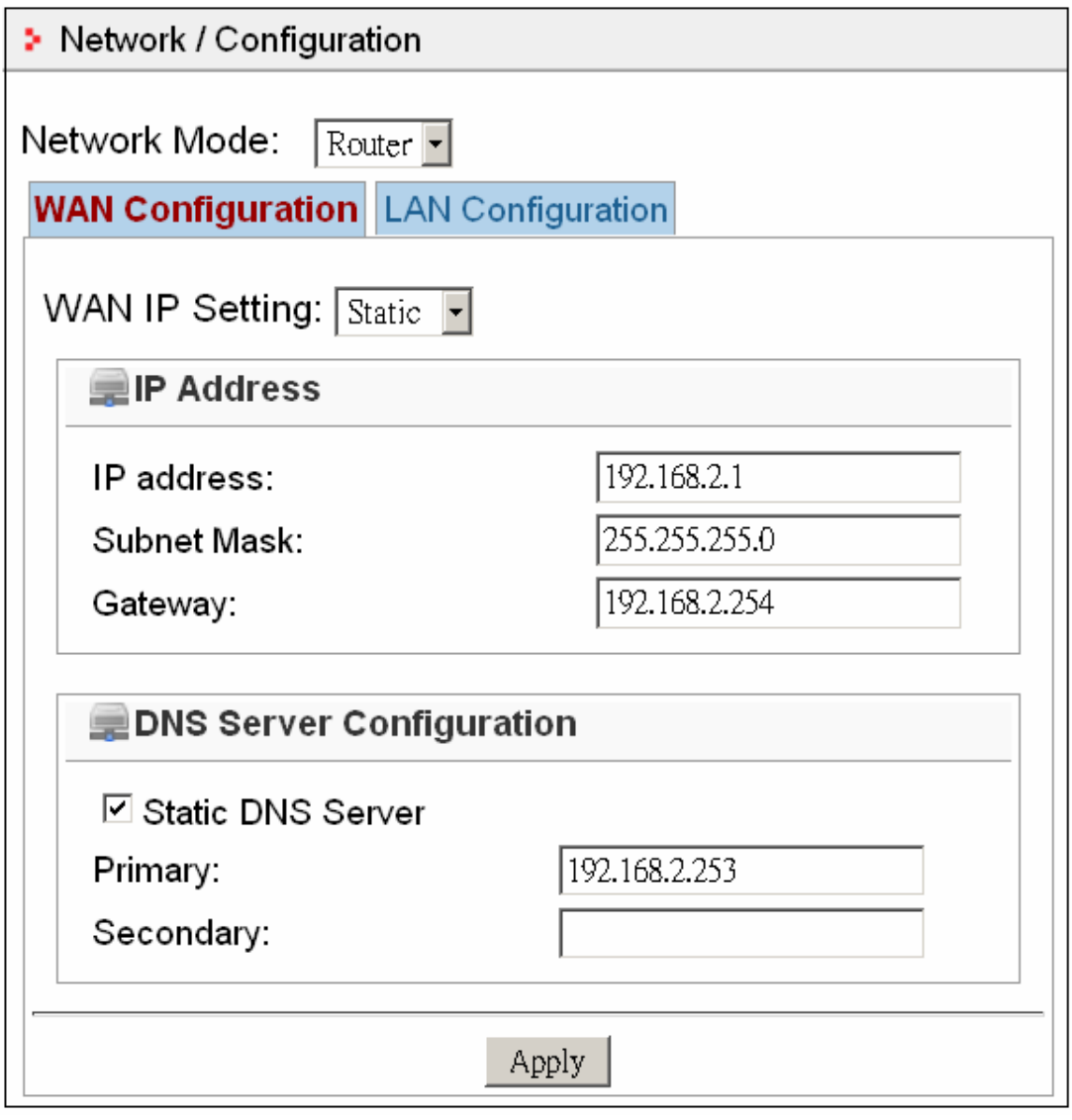
WAN Configuration (Router Mode)

Select "**DHCP"** client to be assigned an IP address automatically by DHCP server and then click "**Apply"** to validate the setting.



Or, select “**Static”** to input your own static IP that was provided by network administrator or by ISP. You may have to fill in subnet mask and gateway in this case.

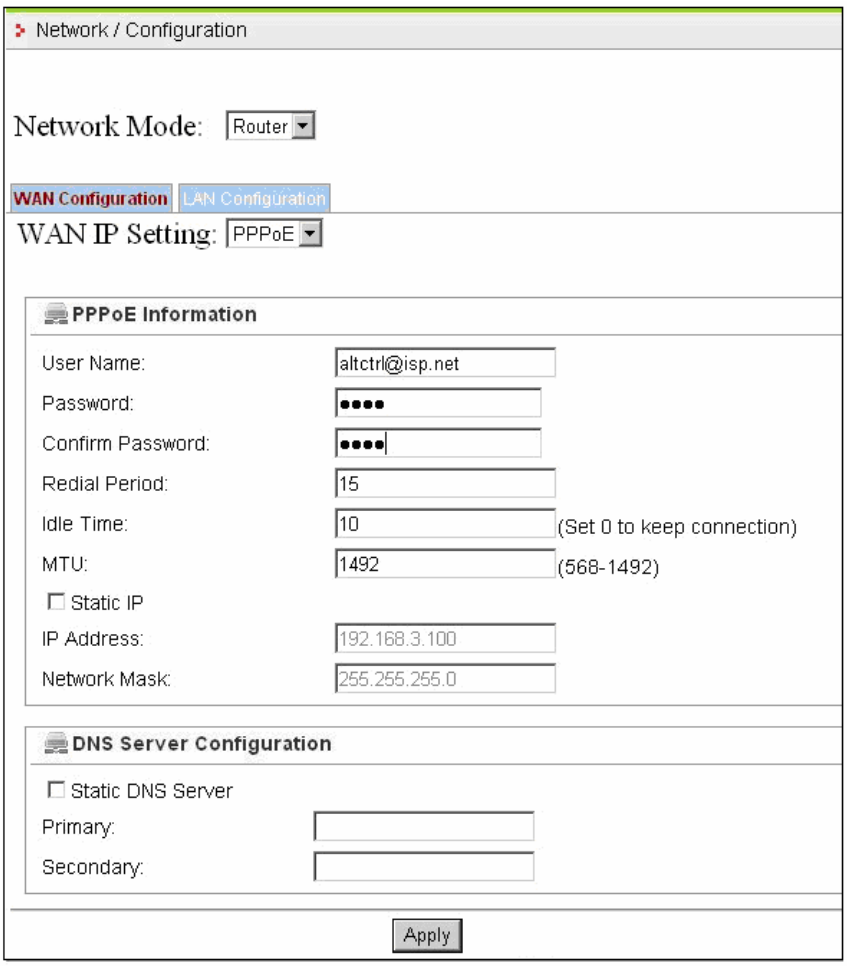
Then click “**Apply”** to validate the setting.



Or, select “**PPPoE”** to access WAN IP by entering PPPoE information.

User Name	PPPoE user information
Password	PPPoE password
Confirm Password	Confirm user password
Redial Period (secs)	Re-connection time period if failed
Idle Time (mins)	Auto disconnecting if network idle for some time
MTU	Maximum Transmission Unit is the size (in bytes) of the largest protocol data unit.

In PPPoE, users can enter static IP address and network mask information if applicable.

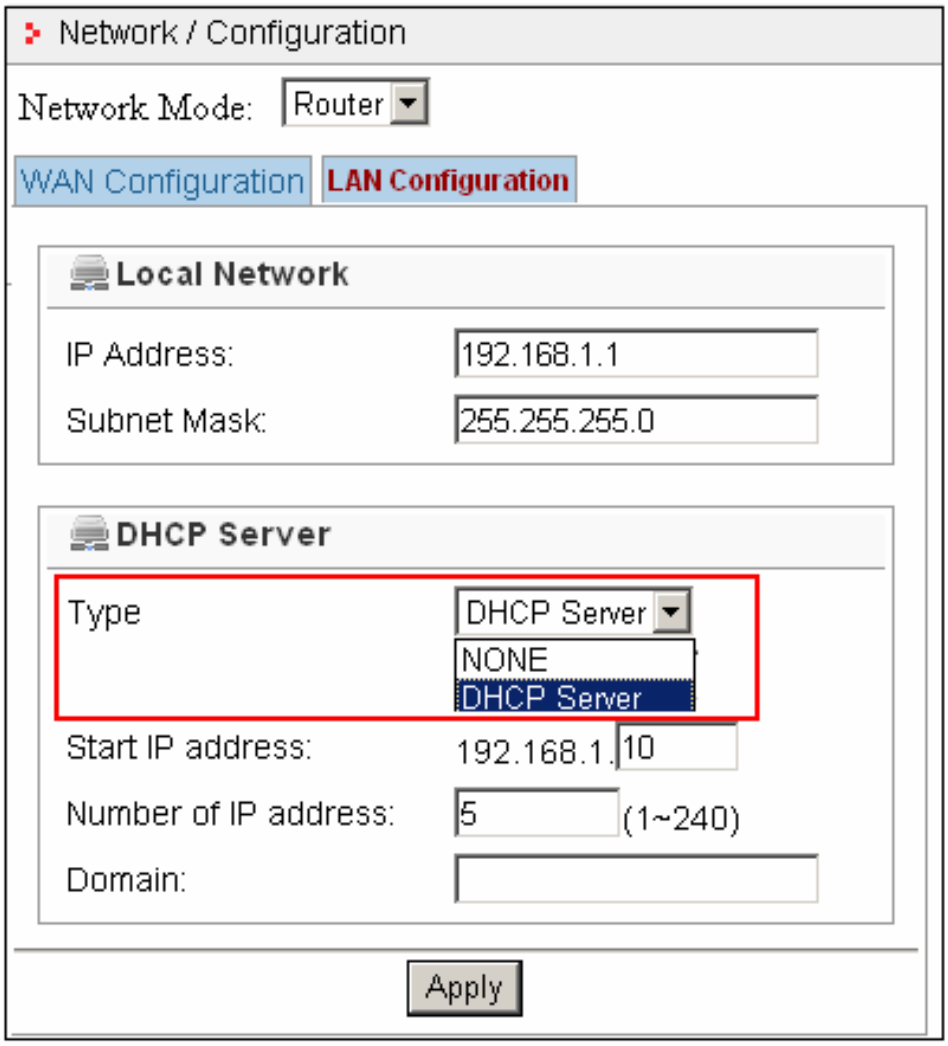


Click “**Apply”** to validate the setting.

LAN Configuration (Router Mode)

To change the default LAN setting, setup your IP address and subnet mask then click "**Apply".**

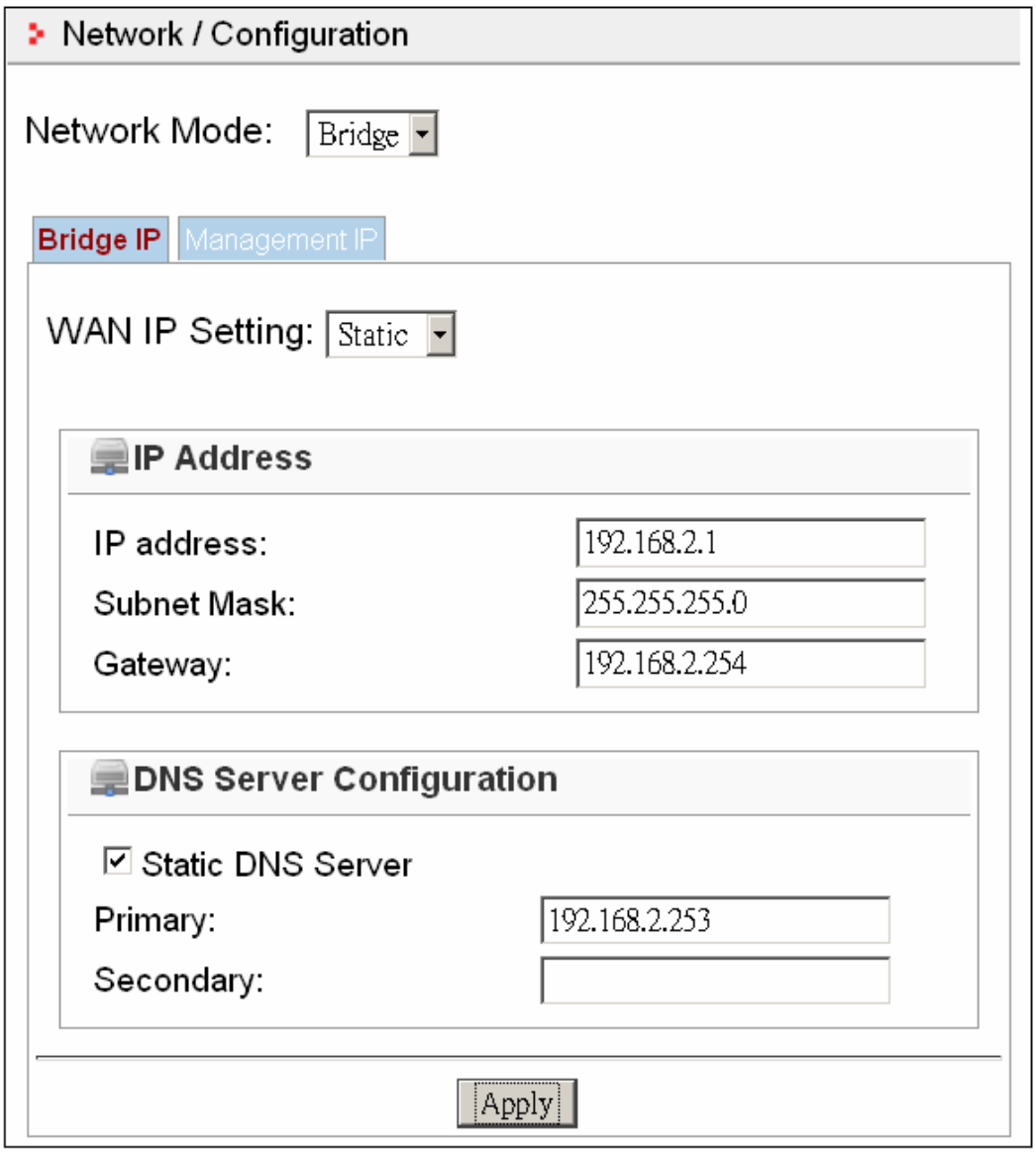
AC-FW0514W can function as a DHCP server in Router mode. Please choose "**DHCP Server**" in "**Type**" and input the Start IP address and the number of DHCP client range from 1 to 240.



* Bridge Mode:

Bridge IP (Bridge Mode):

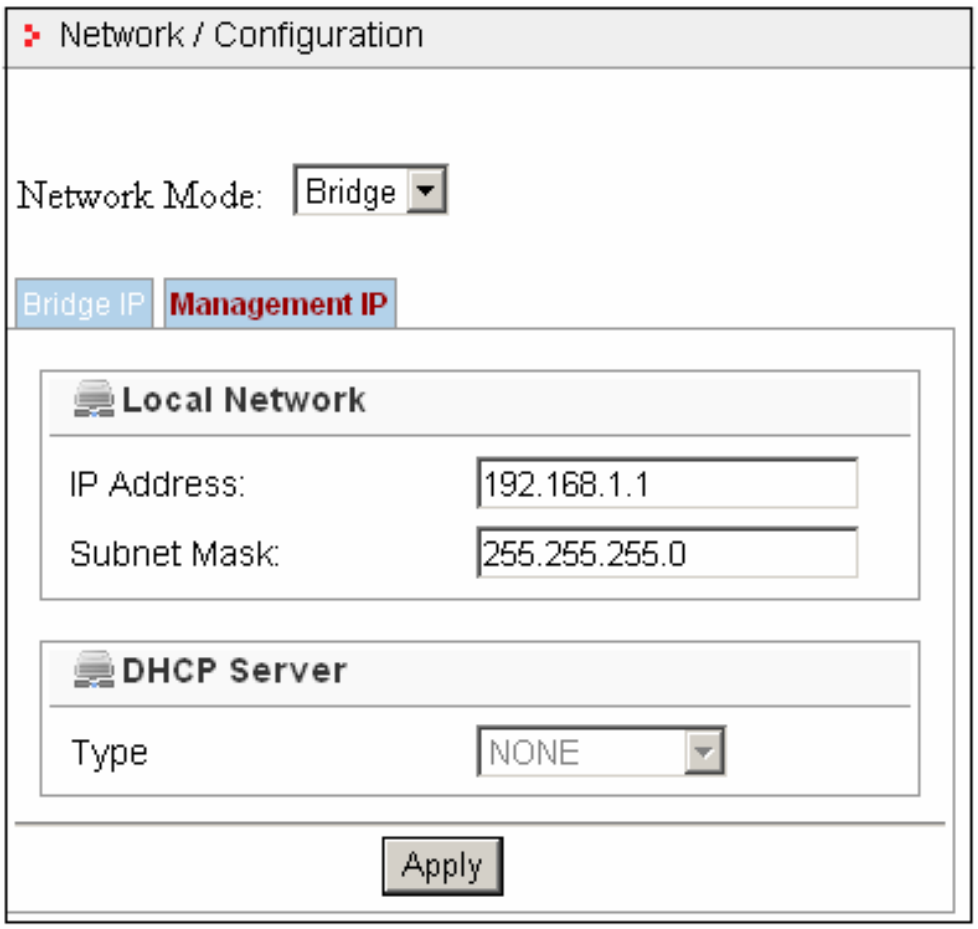
Select "**DHCP"** client to be assigned an IP address by DHCP server.
Or select "**Static"** to input effective static IP provided by network administrator or by ISP. You may have to fill in subnet mask and gateway in this case. Click "**Apply"** to activate the setting.



Management IP (Bridge Mode):

If you choose "**Bridge**" mode and select "**DHCP**" client to be assigned an IP address by DHCP server, you do not know what IP address that AC-FW0514W get. So you can assign another "**Management IP**" on AC-FW0514W. You can access it with "**Management IP**".

To change the default "**Management IP**" settings like IP address, subnet mask then click "**Apply".**



5.2.4. Network / Wireless

Wireless communication is supported by 802.11b / g / n draft.

Enable Wireless

Enable / Disable Wireless function to display the setting.

Network Mode

This identifies the networking standards available to your network.

SSID

SSID is a 32-character alphanumeric key uniquely identifying a wireless LAN.

Hide SSID

Enable this Hide SSID feature to improve the security of your WLAN.

Frequency

Choose you wireless radio channel or auto Channel by default.

Security Mode

We provide WEP / WPAPSK / WPA2PSK Encryption Protocols**.**

WPAPSK / WPA2PSK is more secure than WEP.

WPA Algorithm

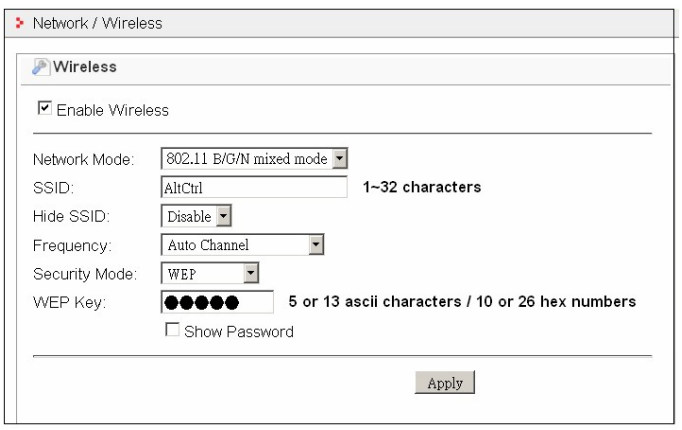
WPA Algorithm is the encryption algorithm of Security mode.

You can choose TKIP / AES / TKIP+AES encryption algorithm.

WEP / WPA Key

The WEP / WPA key is used for authentication.

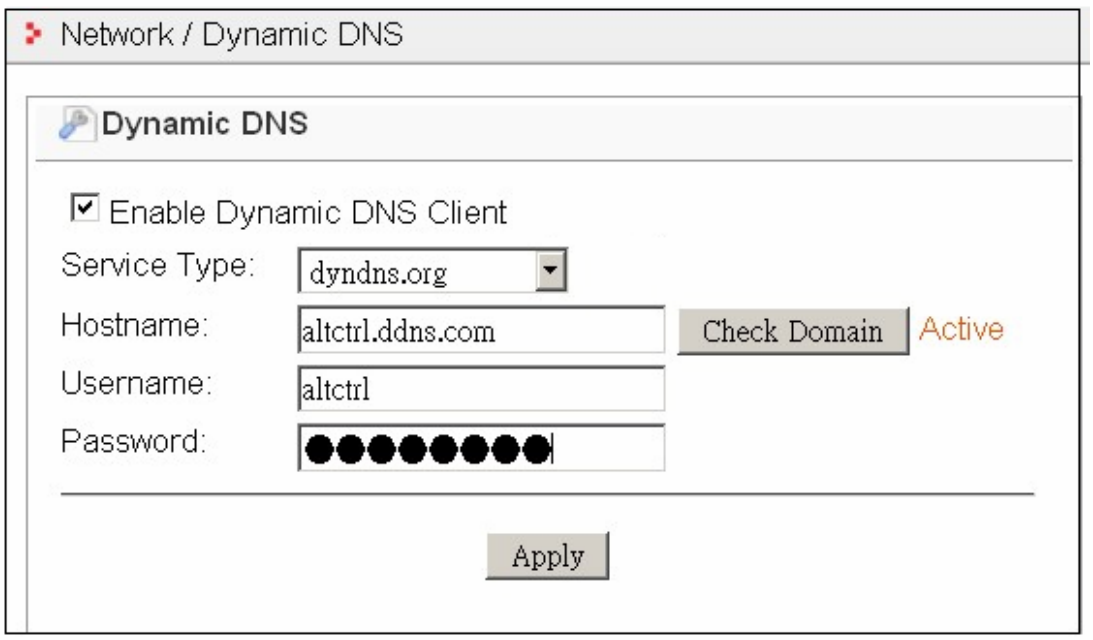
Click “**Apply”** to activate the wireless settings.



5.2.5. Network / Dynamic DNS

Dynamic DNS is a domain name service allowing aliasing of dynamic IP addresses to static hostnames.

If you have registered with a DDNS service provider, select the "**Enable Dynamic DNS Client**" check box, and fill out hostname / username / password provided by DDNS service provider.
You can click "**Check Doman"** to test your DDNS is "**Active"** or "**Inactive"** .



5.2.6. Network / IPv6

The AC-FW0514W provides basic IPv6 function support.
Include IPv6 DHCP server and IPv6 routing.

All security protections of AC-FW0514W are base on IPv4, not on IPv6.
AC-FW0514W can not filter and protect IPv6 network traffic.

* Preparation:

Make sure your ISP has supported IPv6, Reference follow steps:

1. Get all information about your IPv6 address from ISP.
2. Connect xDSL with your PC (Only PC to xDSL Router).
3. Try to use **ping6 ipv6.google.com** to get response.
4. Try to visit **http://ipv6.google.com** web site.
5. If you can see web page, it's normally work on IPv6.
6. If not, pleases contact your ISP to enable IPv6 support.

* IPv6 Feature:

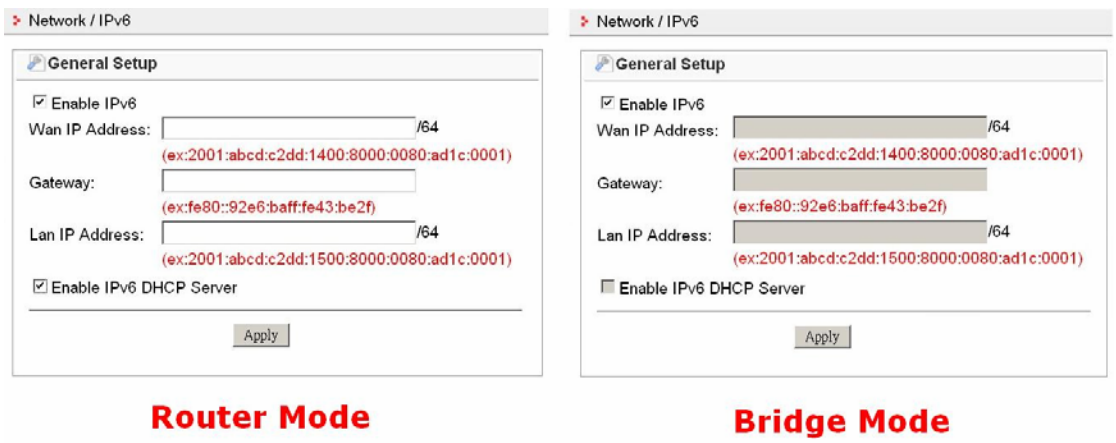
The AC-FW0514W providers based IPv6 support function:

In Bridge mode :

1. All network interface to support IPv6 Agreement.
2. AC-FW0514W can recognize IPv6 packets.

In Router mode :

1. All network interface to support IPv6 Agreement.
2. AC-FW0514W can recognize IPv6 packets.
3. Provide IPv6 based DHCP server.
4. IPv6 routing support.



* Router Mode:

Note: Your client PC can get IPv6 address, use DHCP and working in LAN area only in "Router" Mode with "Static" WAN IP.
With "DHCP" or "PPPoe" WAN IP in "Router" Mode can only "Enable IPv6" for AC-FW0514W, your client PC can not work for IPv6.

You can tick the "Enable IPv6" and set IPv6 address to:

Wan IP Address: Example: **2001:abcd:c2dd:1400:8000:0080:ad1c:0001**
Gateway: Example: **fe80::92e6:baff:fe43:be2f**
Lan IP Address: Example: **2001:abcd:c2dd:1500:8000:0080:ad1c:0001**

And you can tick the **"Enable IPv6 DHCP Server"** to enable DHCP Server.
Click "**Apply**" to validate the setting.

You can connect to AC-FW0514W LAN Port with your client PC and setting IPv6 use DHCP. Your client PC will get IPv6 address from AC-FW0514W.
When your client PC get IPv6 address , try to ping ipv6.google.com with DOS command:
"**ping6 ipv6.google.com**" can get result.

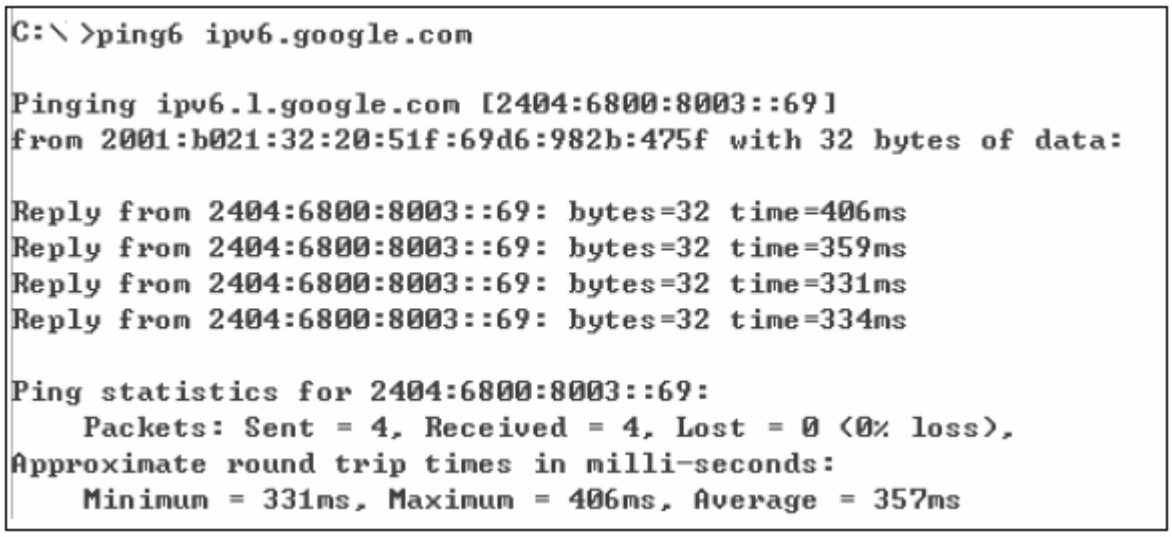
```
C:\>ping6 ipv6.google.com

Pinging ipv6.l.google.com [2404:6800:8003::69]
from 2001:b021:32:20:51f:69d6:982b:475f with 32 bytes of data:

Reply from 2404:6800:8003::69: bytes=32 time=406ms
Reply from 2404:6800:8003::69: bytes=32 time=359ms
Reply from 2404:6800:8003::69: bytes=32 time=331ms
Reply from 2404:6800:8003::69: bytes=32 time=334ms

Ping statistics for 2404:6800:8003::69:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 331ms, Maximum = 406ms, Average = 357ms
```

Open **http://ipv6.google.com** web site.
If you can see ipv6.google.com web page, it's normally work on your client PC.
If not, Please re-check your network setting.

* Bridge Mode:

You just need to tick the **“Enable IPv6”**.
Click “**Apply**” to validate the setting.

You can connect AC-FW0514W WAN Port to xDSL Router and LAN Port with your client PC, and client PC setting IPv6 address which get from ISP.
When your client PC get IPv6 address , try to ping ipv6.google.com with DOS command:
“**ping6 ipv6.google.com**” can get result.



Open **http://ipv6.google.com** web site.
If you can see ipv6.google.com web page, it’s normally work on your client PC.
If not, Please re-check your network setting.

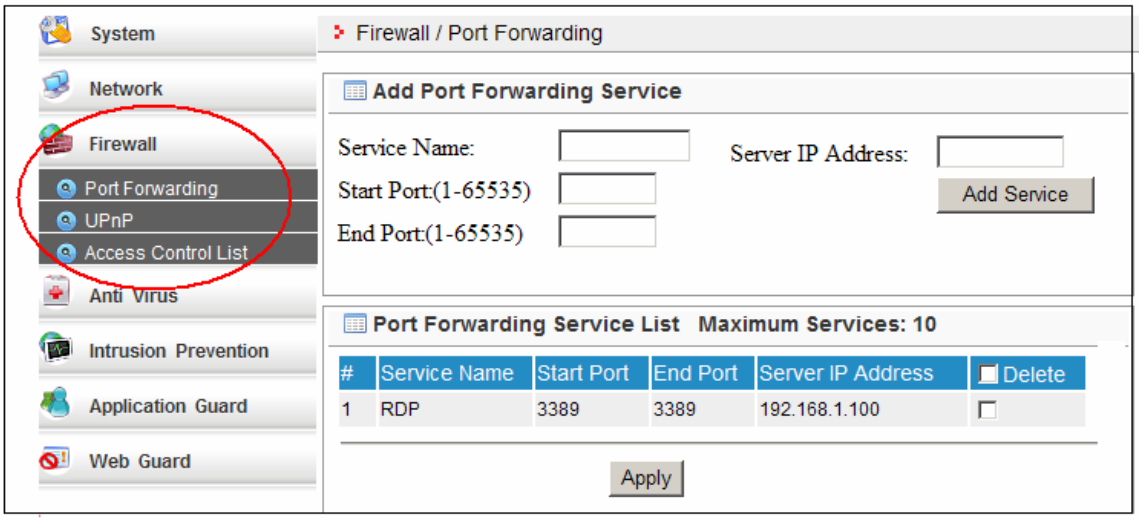
5.3. Firewall

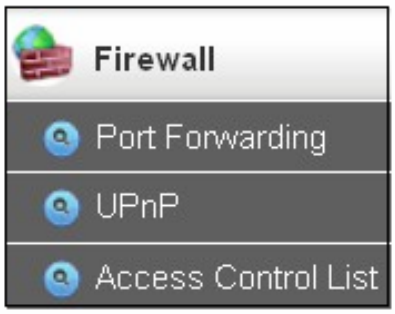
The firewall category provides three kinds of function:

Port forwarding.

UPnP.

Access Control List.

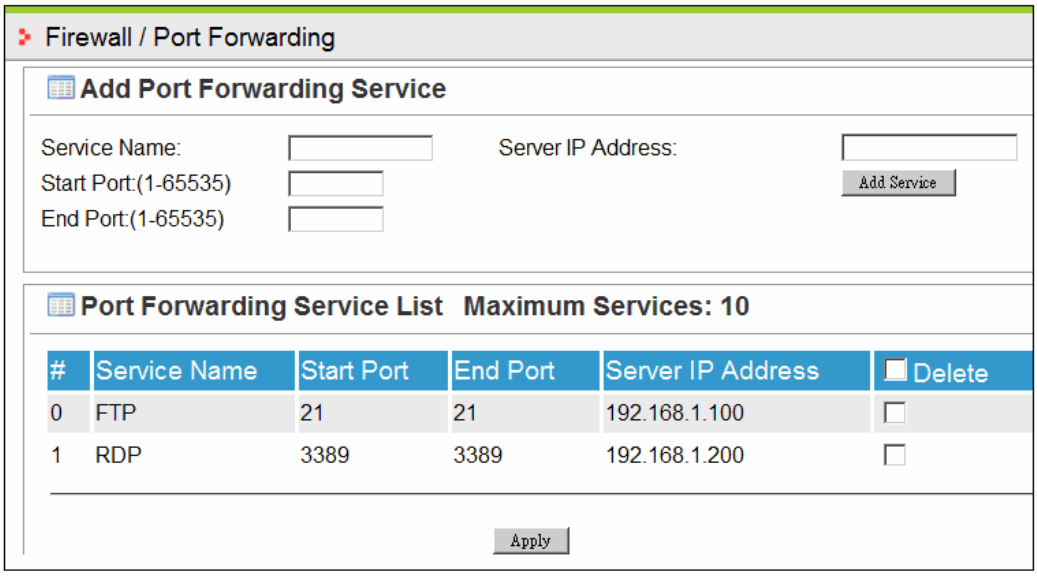




5.3.1. Firewall / Port Forwarding

“Port Forwarding” can help you to access those servers which are behind the LAN port of AC-FW0514W.
But the function is only enabled automatically when the network is set as “**Router”** mode.

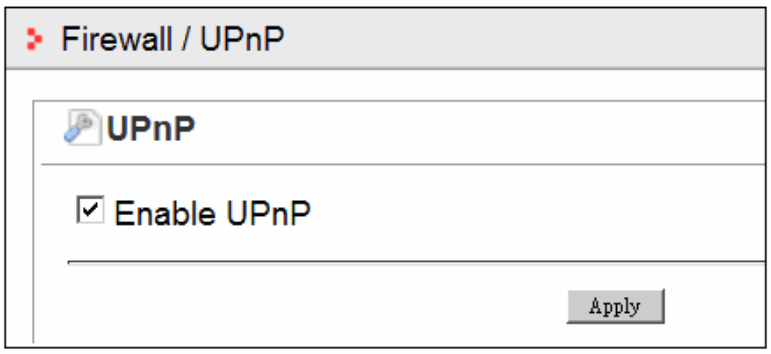
Input the port forwarding information and click “**Add Service”** to add Port Forwarding Service List entry.
Tick “**Delete”** and click “**Apply**” to delete the selected services.
The maximum port forwarding is 10 services.



5.3.2. Firewall / UPnP

UPnP can do automatically NAT traversal, enumerate existing port mappings, and adding and removing port mappings automatically.

The function is enabled automatically when the network is set as “**Router”** mode.



5.3.3. Firewall / Access Control List

Access Control List (ACL) allows you to set firewall rules.

You need to choose **"Priority"** for ACLs first.

The Priority range is 1~10. 1 is the highest priority.

Choose **"LAN -> WAN"** or **"WAN -> LAN"** for **"Direction" .**

Choose **"Any"** or **"Specific"** one IP address or subnet for **"Source Address" and "Destination Address"**.

Choose **"TCP"** or **"UDP"** for **"Protocol"**.

Choose **"Any"** or **"Range"** to input port range for **"Destination Port"**.

Choose **"ACCEPT", "REJECT"** or **"DROP"** for **"Action"**.

- **ACCEPT** – Allow access
- **REJECT** – Denies access and message will be sent to the source.
- **DROP** – Silently discards.

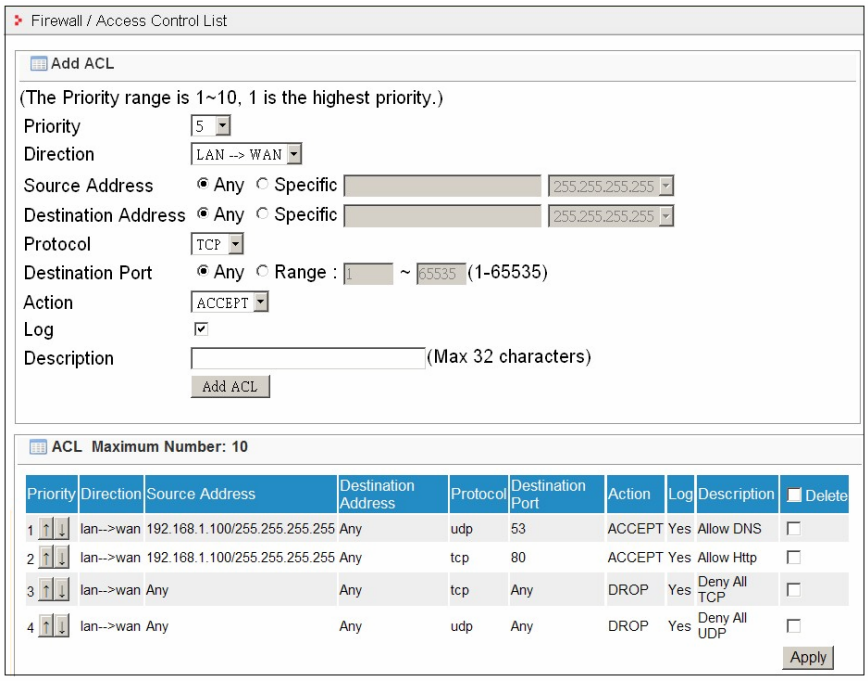
Tick the **"Log"** to record ACL logs.

Specify description of the rule in **"Description"**.

Then click **"Add ACL"** to validate the setting.

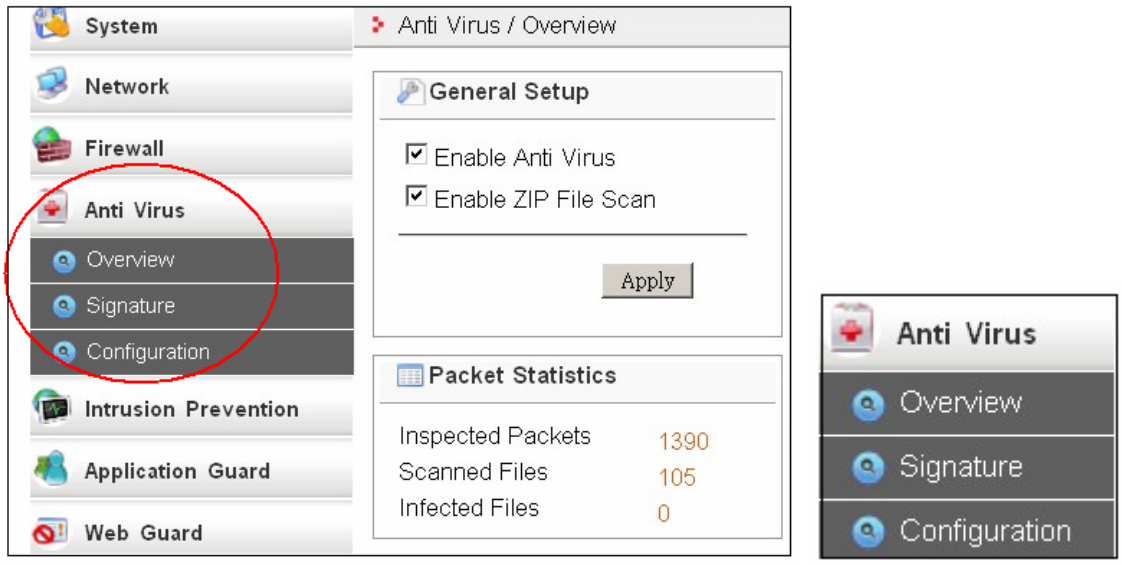
Tick "**Delete"** and click "**Apply**" to delete the selected ACLs.

The maximum number of ACL is 10 rules.



5.4. Anti-Virus

With virus protection, the Anti-Virus screen lets you to setup your category of virus and check the infected severity.



5.4.1. Anti-Virus / Overview

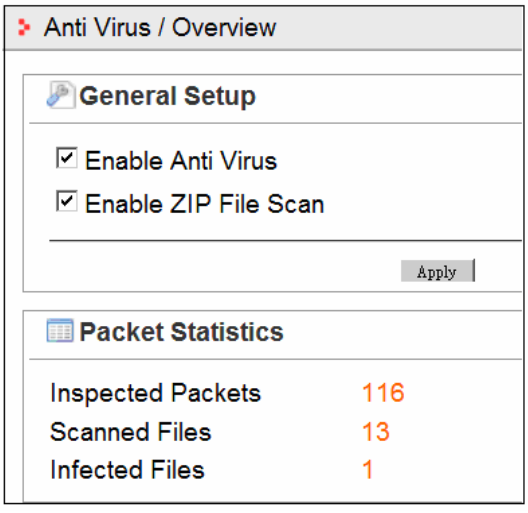
This page displays the overview of the Anti-Virus function, please select the required function and click **"Apply"**.

Enable Anti-Virus: Enable Anti-Virus function.

The default setting is ON.

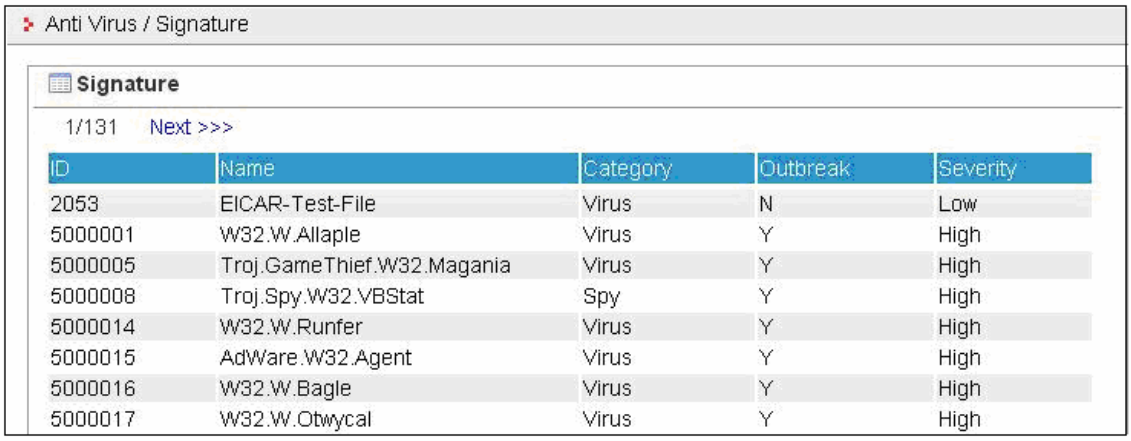
Enable ZIP File Scan: Enable ZIP file (ZIP / RAR / GZ) scan function.

The default setting is ON.



5.4.2. Anti Virus / Signature

You can check AV signature list here.



ID	Name	Category	Outbreak	Severity
2053	EICAR-Test-File	Virus	N	Low
5000001	W32.W.Allaple	Virus	Y	High
5000005	Troj.GameThief.W32.Magania	Virus	Y	High
5000008	Troj.Spy.W32.VBStat	Spy	Y	High
5000014	W32.W.Runfer	Virus	Y	High
5000015	AdWare.W32.Agent	Virus	Y	High
5000016	W32.W.Bagle	Virus	Y	High
5000017	W32.W.Otwycal	Virus	Y	High

5.4.3. Anti Virus / Configuration

Action Configuration

Setup the action of Anti Virus, which includes Log and Destroy file.

Log: Virus detection and record log in the system; you can check the log list at the **Log and Report / Anti Virus** page.

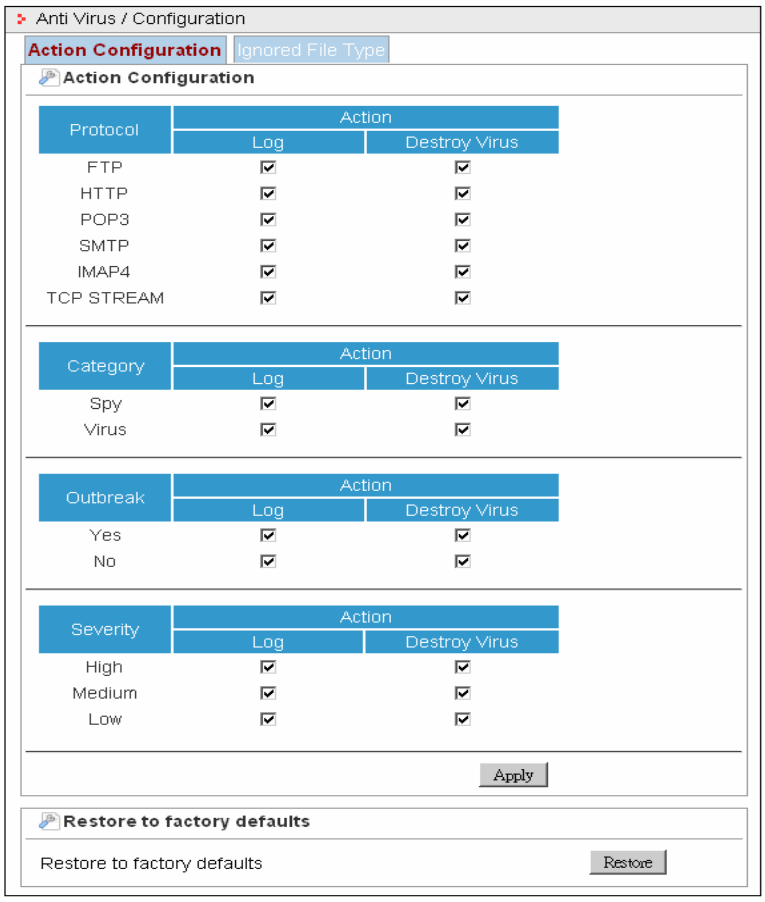
The default setting is ON.

Destroy File: Enable or disable the infected file destroy function.

If this function is on, the infected files by viruses will be destroyed when AC-FW0514W detects them. If this function is OFF, then the destroy file function will not be administered.

The default setting is ON.

Click "**Restore"** to change the settings to factory default values.

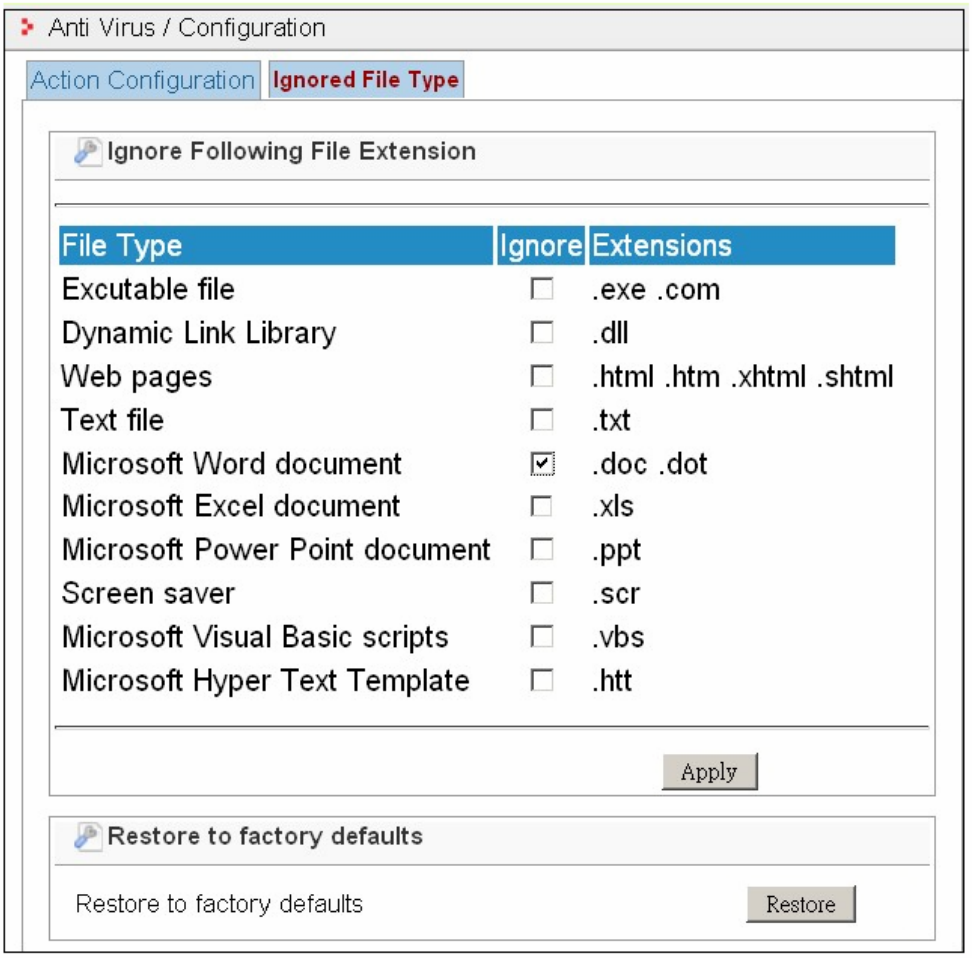


Ignored File Type

You can select or deselect multiple "**File Type/ Extensions"** such as **"Microsoft Word document (.doc .dot)"** to ignore anti-virus scanning.

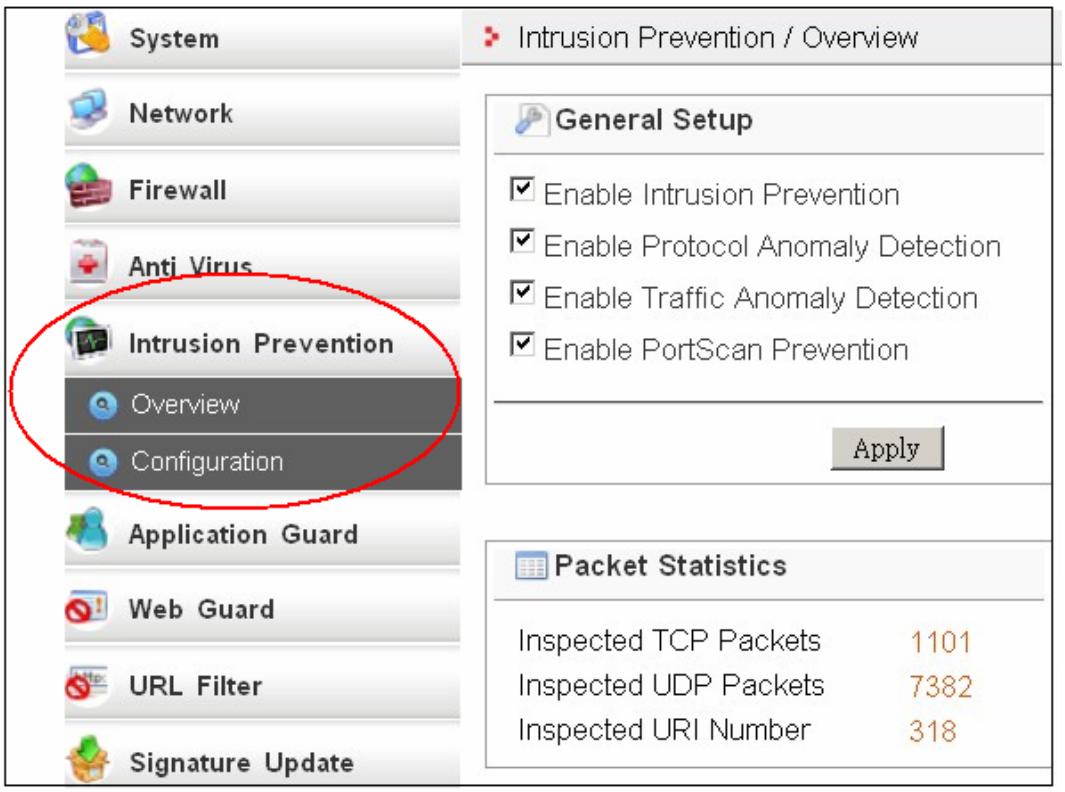
Click "**Apply"** to change the configuration.

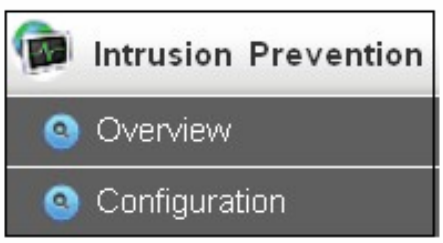
Click "**Restore"** to change the settings to factory default values.



5.5. Intrusion Prevention

Intrusion Prevention screen lets you to enable Intrusion Prevention function and check the infected severity.



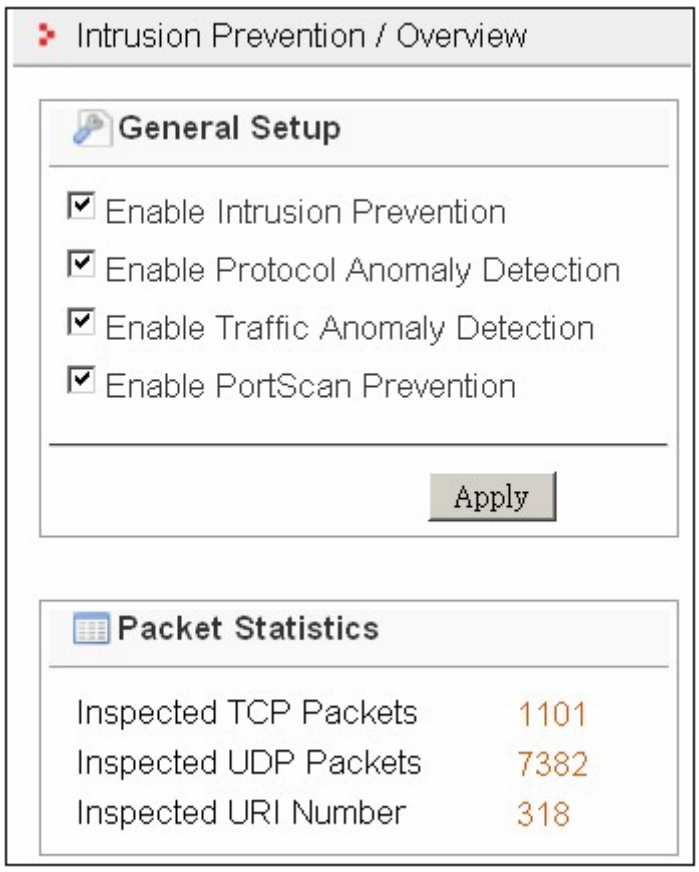


5.5.1. Intrusion Prevention / Overview

Select Intrusion Prevention / Overview to do General Setup.

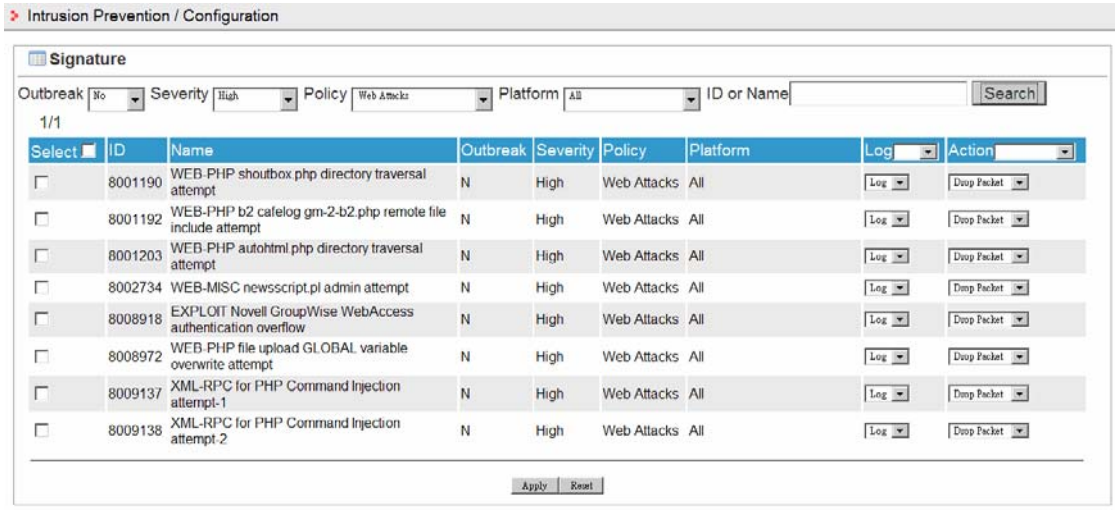
Enable or disable :
Intrusion Prevention.
Protocol Anomaly Detection.
Traffic Anomaly Detection.
PortScan Prevention.

Click **"Apply"** to validate the setting.



5.5.2. Intrusion Prevention / Configuration

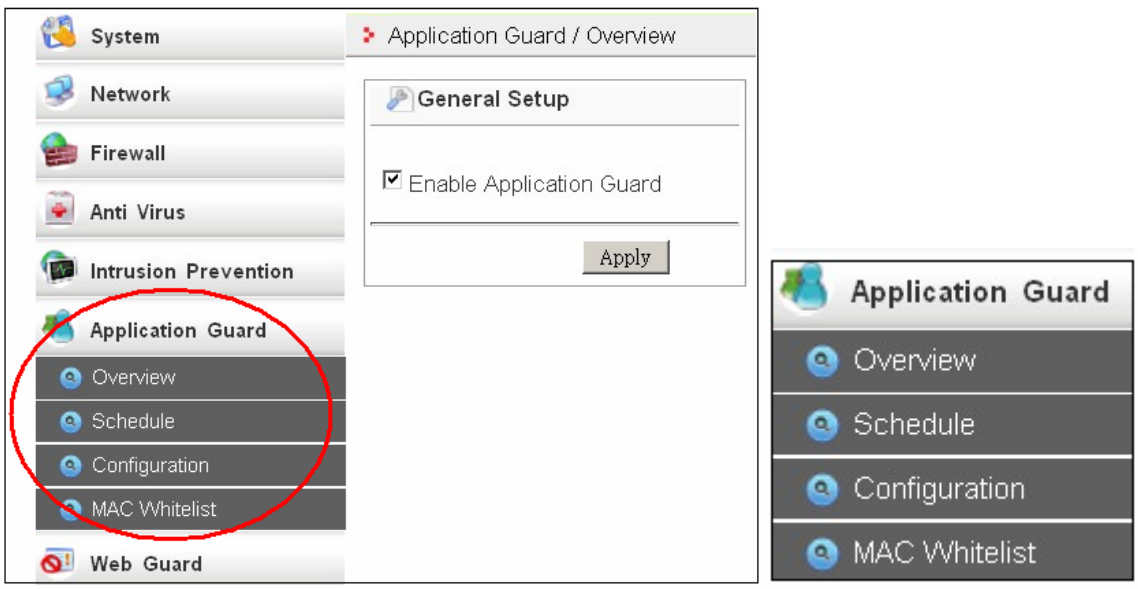
Please follow the entry to configure detailed intrusion prevention rules.



Entry 1		Entry 4	
Outbreak	Yes	**Platform**	All
	No		Win95 / 98
Entry 2			WinNT
Severity	Sever		WinXP / 2000
	High		Linux
	Medium		FreeBSD
	Low		Solaris
	Lowest		SGI
Entry 3			OtherUnix
Policy	Access Control		Network Device
	Suffer Overflow	**Entry 5**	
	DDos	**Type in ID or Name to Search**	
	Scan		
	Trojan House		
	Virus Worm		
	Web Attacks		
	Others		

5.6. Application Guard

This screen lets you to enable Application Guard function and configure the rules of application control.



5.6.1. Application Guard / Overview

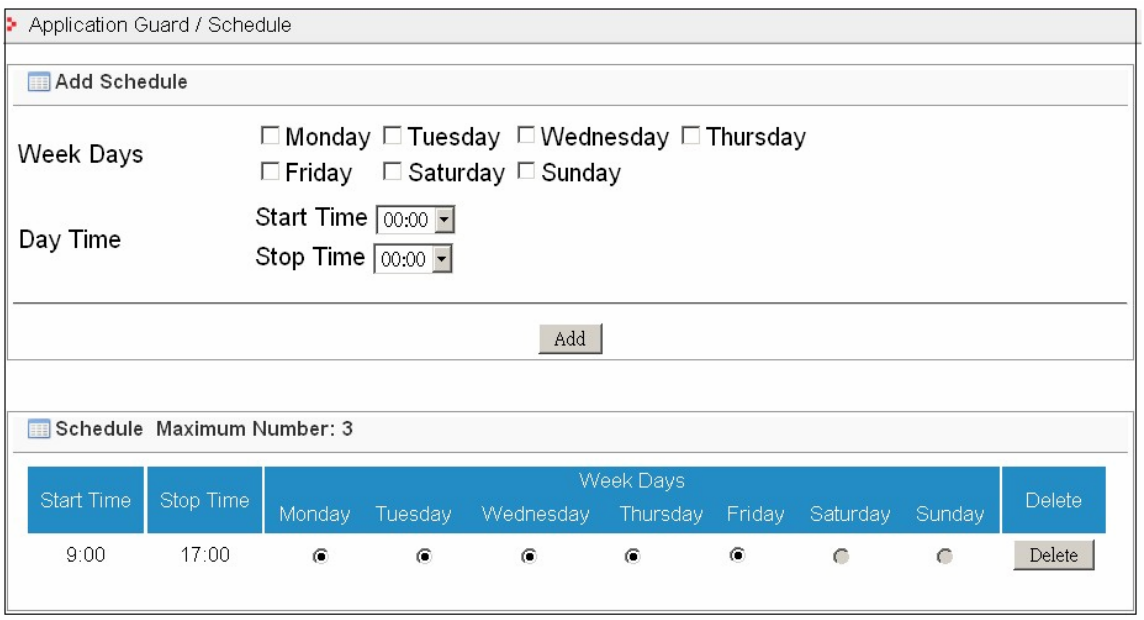
Enable or disable Application Guard and click **“Apply”**.

5.6.2. Application Guard / Schedule

You can set **"Schedule"** to apply to Application Guard configurations.
You can tick multiple **"Week Days"** from Monday to Sunday, then set **"Start Time"** and **"Stop Time"** for **"Day Time"**.
Choose **"Any"** or **"Specific"** one IP address or subnet for **"Source Address" and "Destination Address"**.

Click **"Add"** to add Schedule.

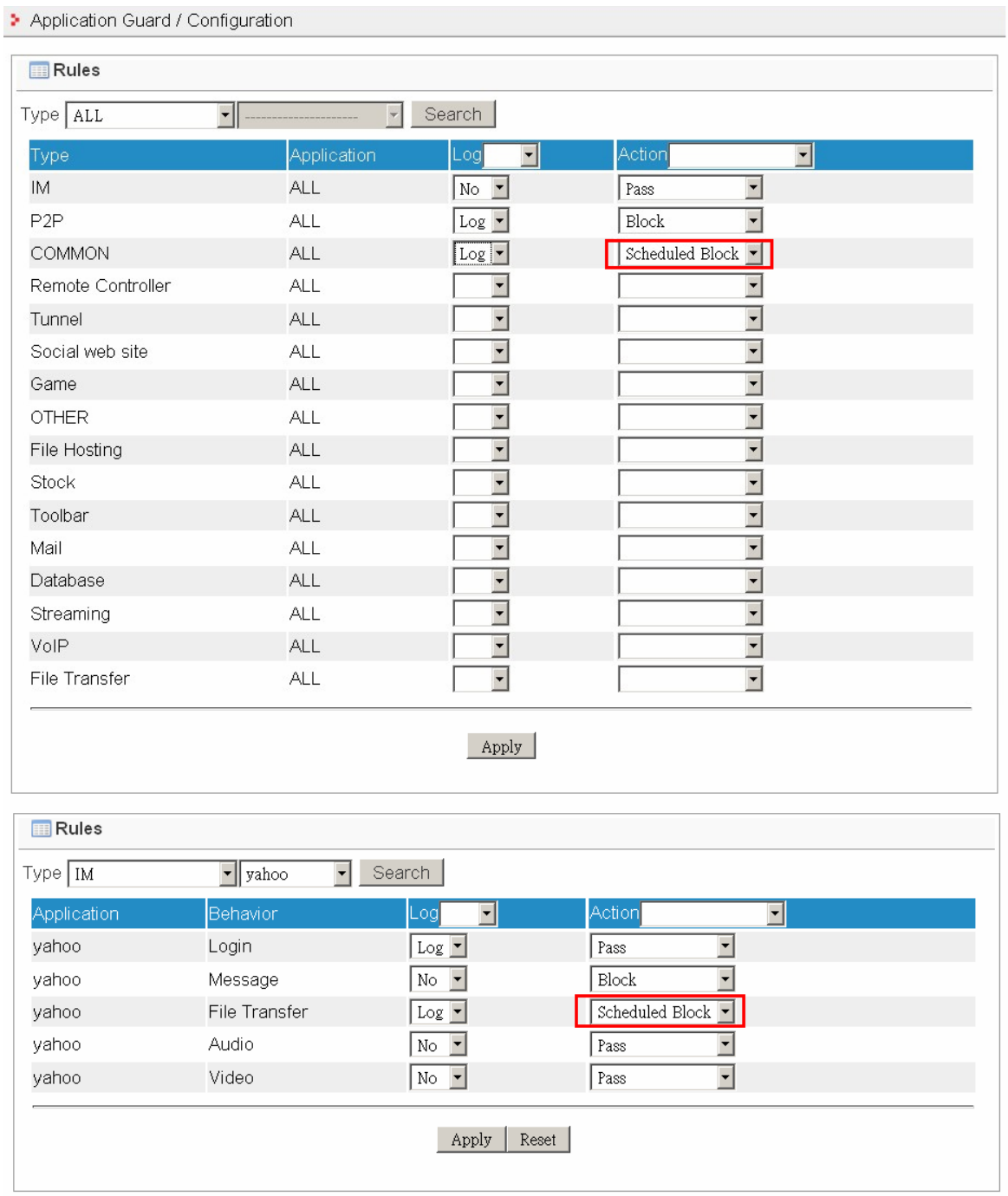
The maximum number of Schedule is 3 schedules.



5.6.3. Application Guard / Configuration

You can search application by choosing **“Type”** and **“Application”** , then choose **“Log”** or **“No”**, and choose **“Action”** by **Pass**, **Block**, or **Scheduled Block**.

Click **“Apply”** to validate the setting.



Here the supported applications are listed as below table.

IM	AOL-ICQ	**COMMON**	DNS	**Social Web Site**	Buboo
	eBuddy		FTP		Facebook
	jabber		HTTP		MySpace
	meebo		ICMP		Plurk
	MSN		irc		Renren
	PoPo		NTP		Twitter
	QQ		POP3	**Game**	610
	Rediff		Radius		Gfstation
	Skype		SMTP		MajiPass
	WangWang		SNMP		OMG
	WebICQ	**Remote Control**	PcAnyWhere		Roomi
	WebMSN		RDC		Tensu
	WebYahoo		SSH		Travian
	Yahoo		TeamViewer	**Streaming**	AppletFLV
P2P	Ares		Telnet		FLV
	BitTorrent		UltraVNC		PodCast
	Clubbox	**Tunnel**	gTunnel		PPLive
	eDonkey		HTTP-Tunnel		PPS
	ezpeer		Hopster		QQLive
	fasttack		RealTunnel		RTSP
	gnutella		SoftEther	**VoIP**	H323
	Kuro		Tor		SIP
	Poco		UltraSurf		
	PP2008		VNN		
	Shareex				
	Soulseek				
	Thumber				
	WinNY				

5.6.4. Application Guard / MAC Whitelist

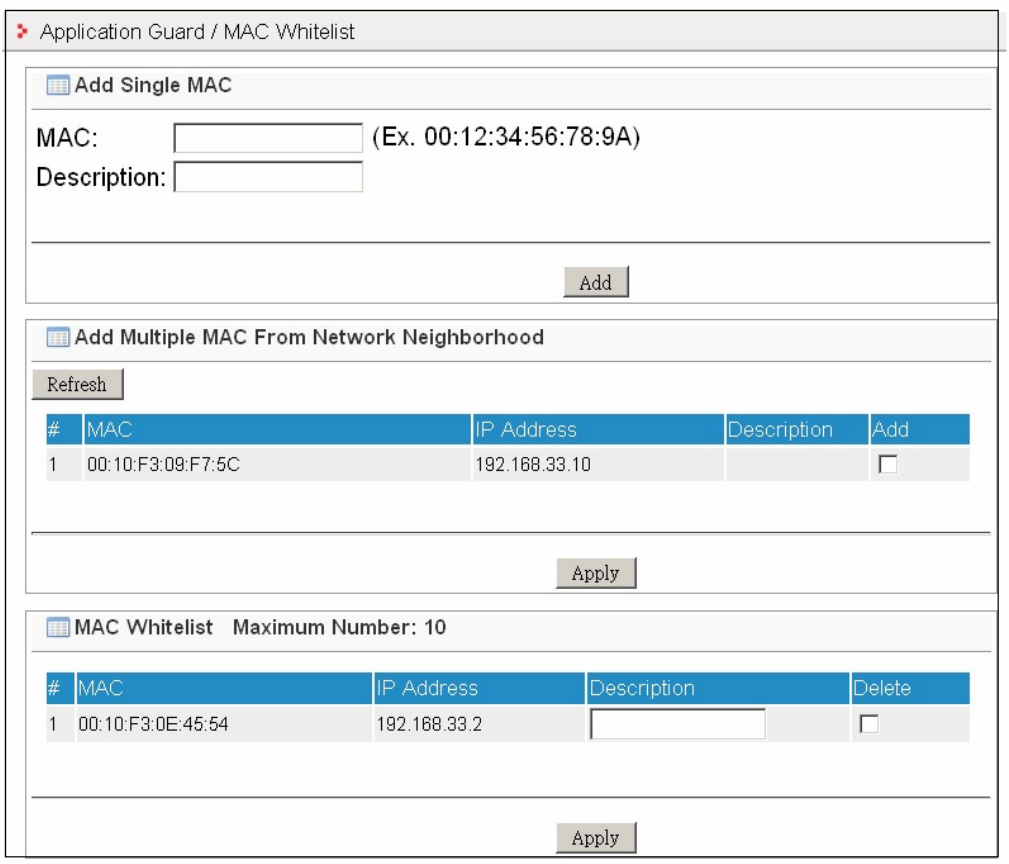
MAC Whitelist allows you to set some exceptional network devices to pass Application Guard even you have blocked the category.

You can add a rule of white list by two methods.

1) Specify MAC address and Description in the **"Add Single MAC"** section. Then click the **"Add"** button.
2) Tick the **"Add"** checkbox after the auto detected network devices in the **"Add Multiple MAC From Network Neighborhood"** section. Then click **"Apply"** to add MAC Whitelist.

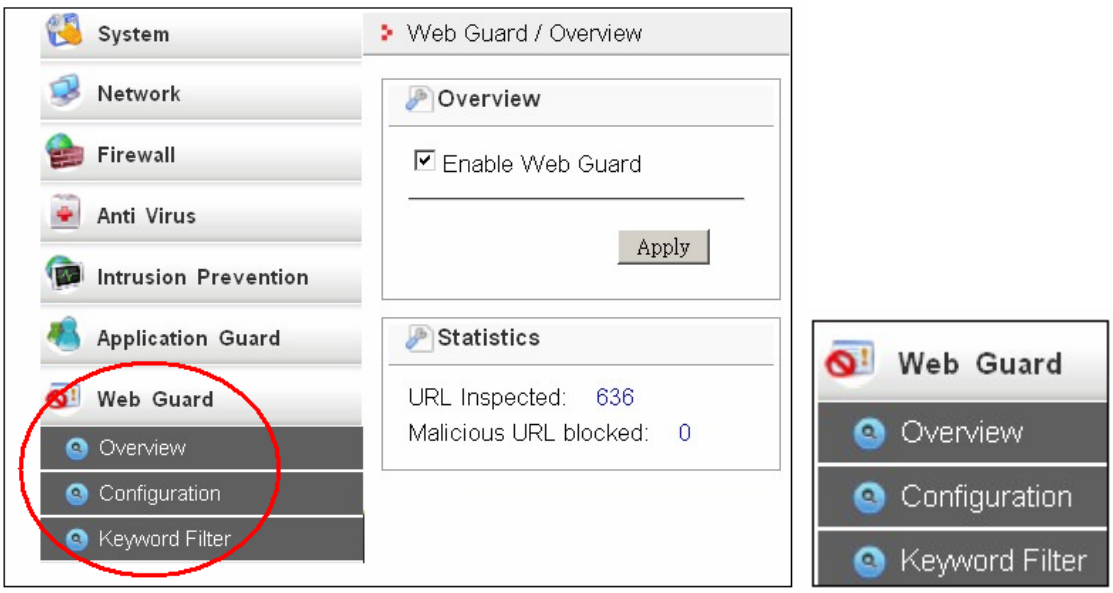
The **"MAC Whitelist"** section shows the current rules.
You can tick the **"Delete"** and click **"Apply"** to delete MAC Whitelist.

The maximum number in whitelist is 10 MAC addresses.



5.7. Web Guard

This screen lets you to enable Web Guard and overview the number of URL inspected and malicious URL blocked.



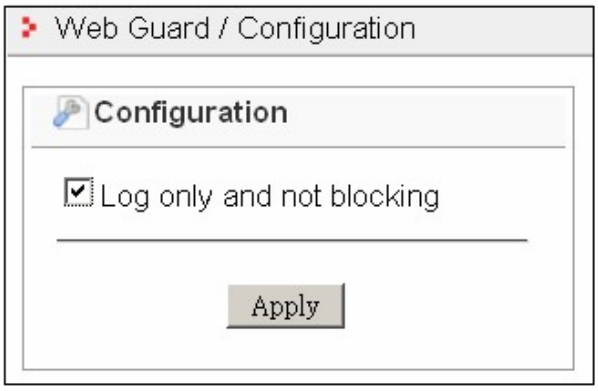
5.7.1. Web Guard / Overview

Enable or disable Web Guard and click "**Apply".**

5.7.2. Web Guard / Configuration

You can just log malicious URL only but don't blocking.

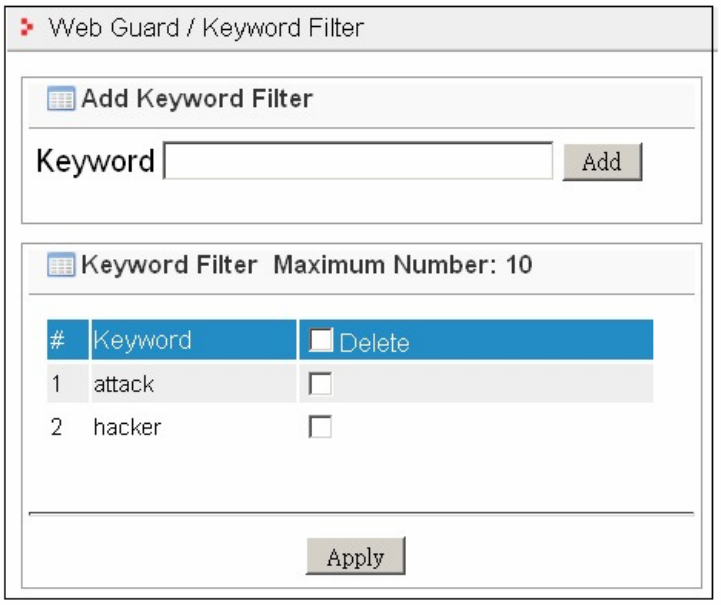
Tick "**Log only and not blocking"** and click **"Apply"** to validate the setting.



5.7.3. Web Guard / Keyword Filter

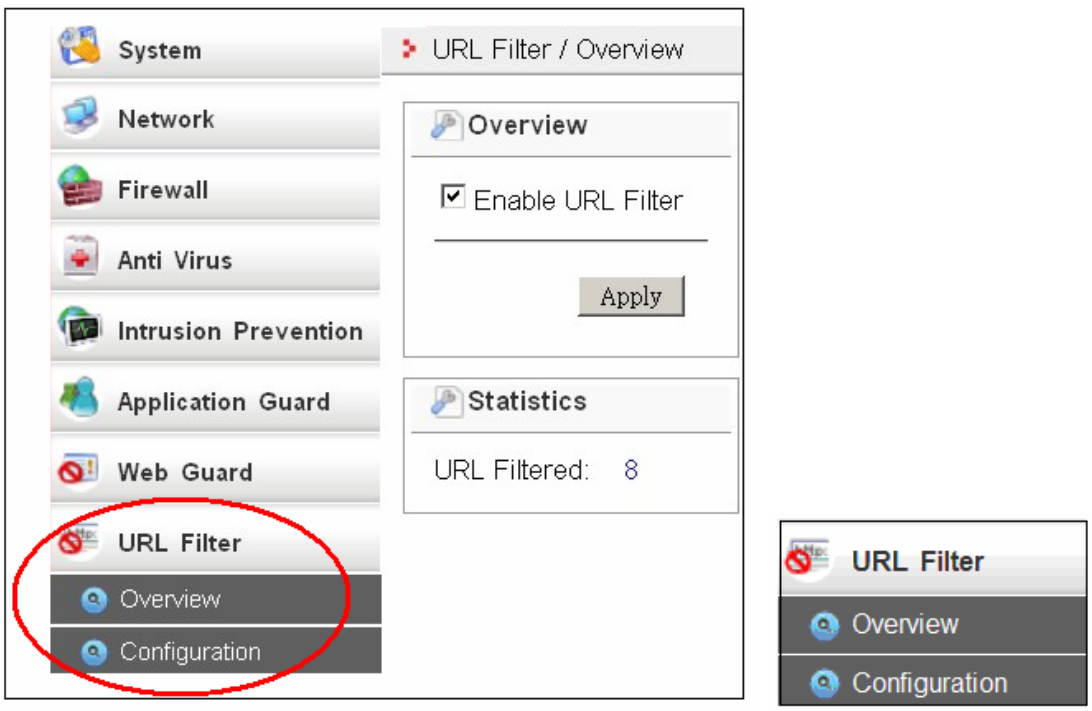
Keyword Filter allows you to set **Keyword** to block URL.
Click **"Apply"** to validate the setting.

The maximum number in Keyword Filter is 10 Keyword.



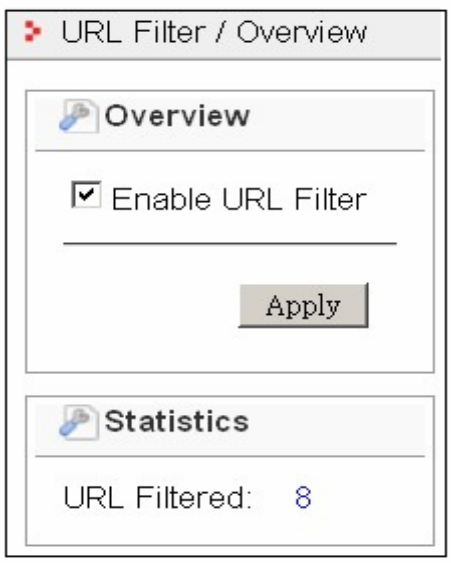
5.8. URL Filter

This screen lets you to enable URL Filter function and configure the rules of web control.



5.8.1. URL Filter / Overview

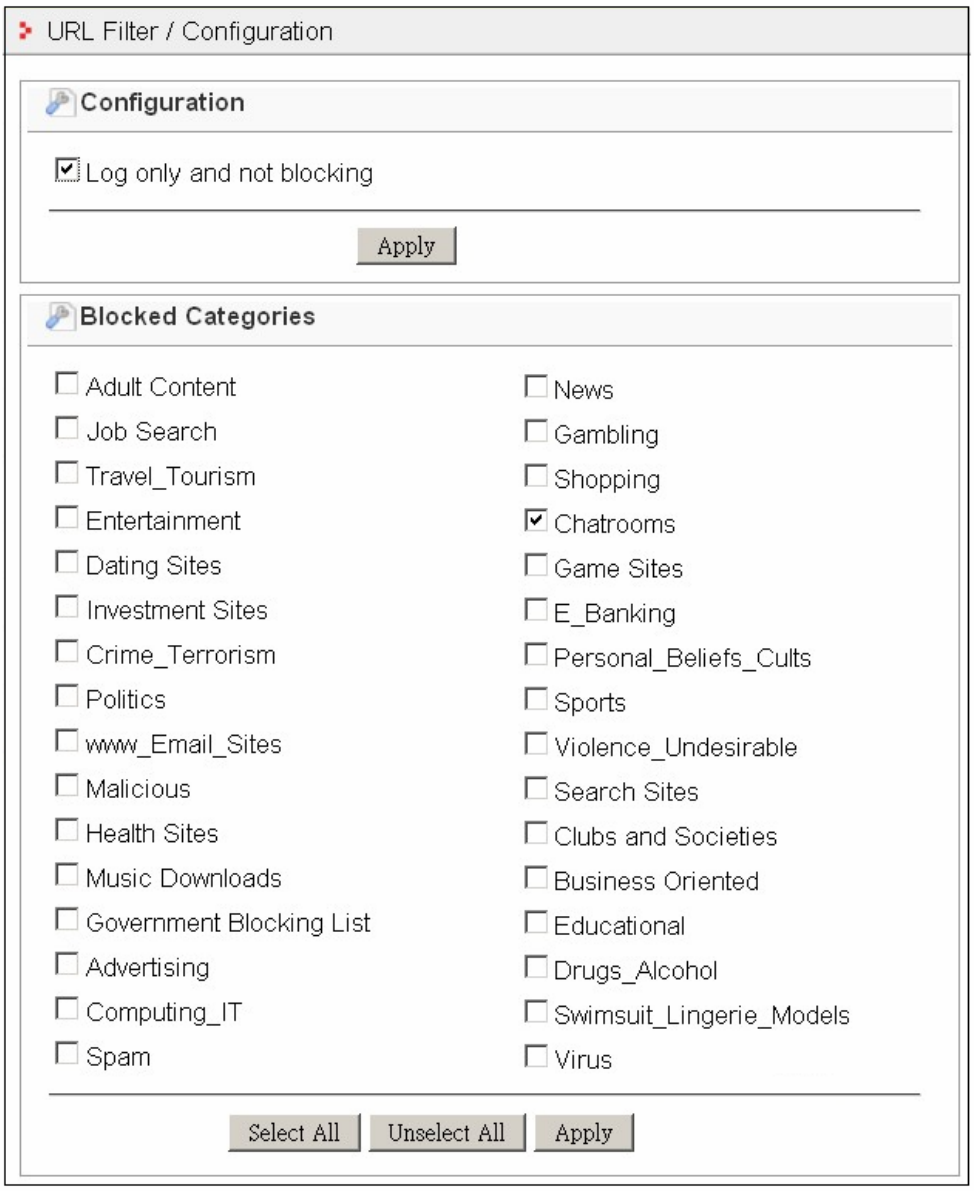
Enable or Disable URL Filter and click “Apply”.



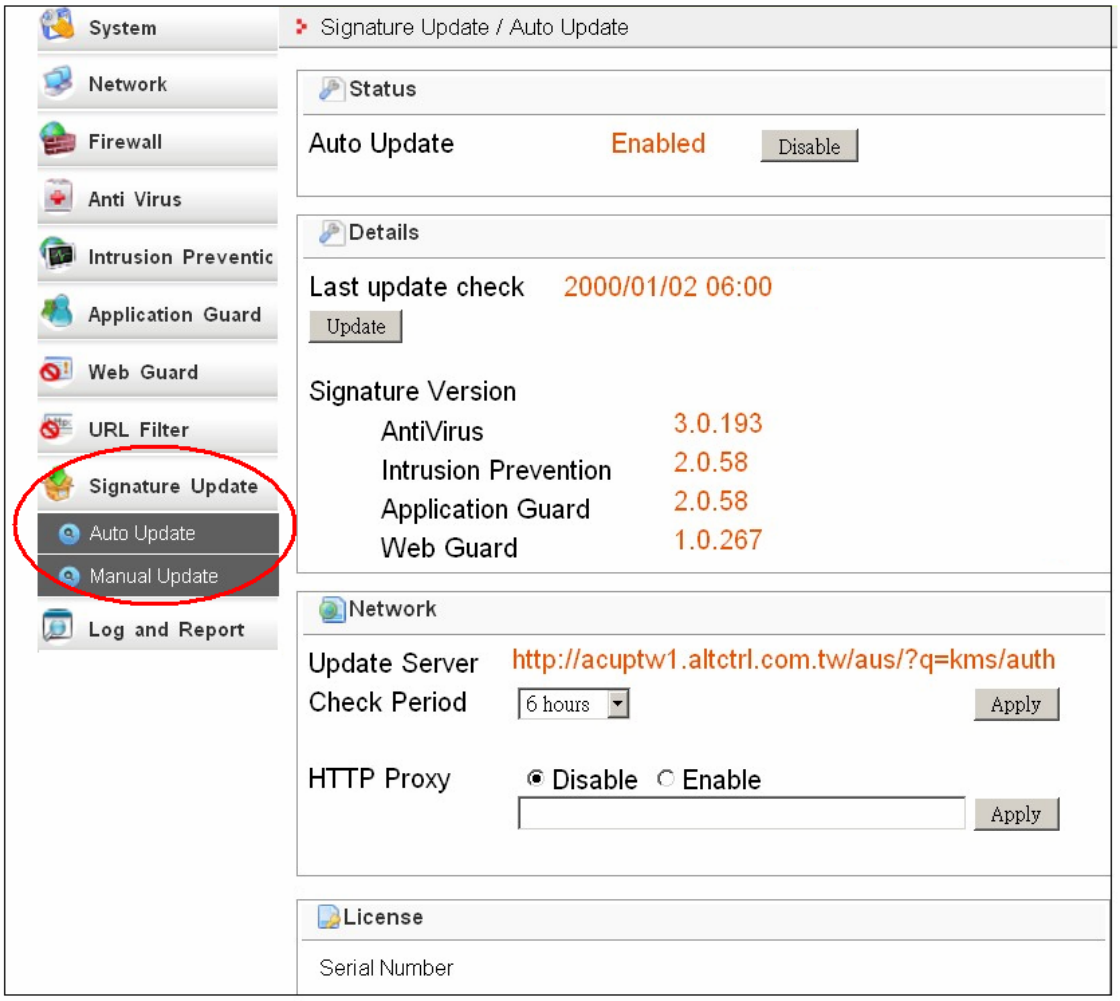
5.8.2. URL Filter / Configuration

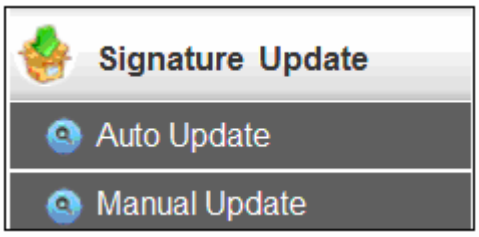
Enable or disable the categories to be blocked. You can select or deselect multiple categories and click "**Apply"** to change the configuration.
Click "**Select All"** will enable all categories.
Click "**Unselect All"** will disable all categories.

You can just log URL only but don't blocking.
Tick "**Log only and not blocking"** and click **"Apply"** to validate the setting.



5.9. Signature Update



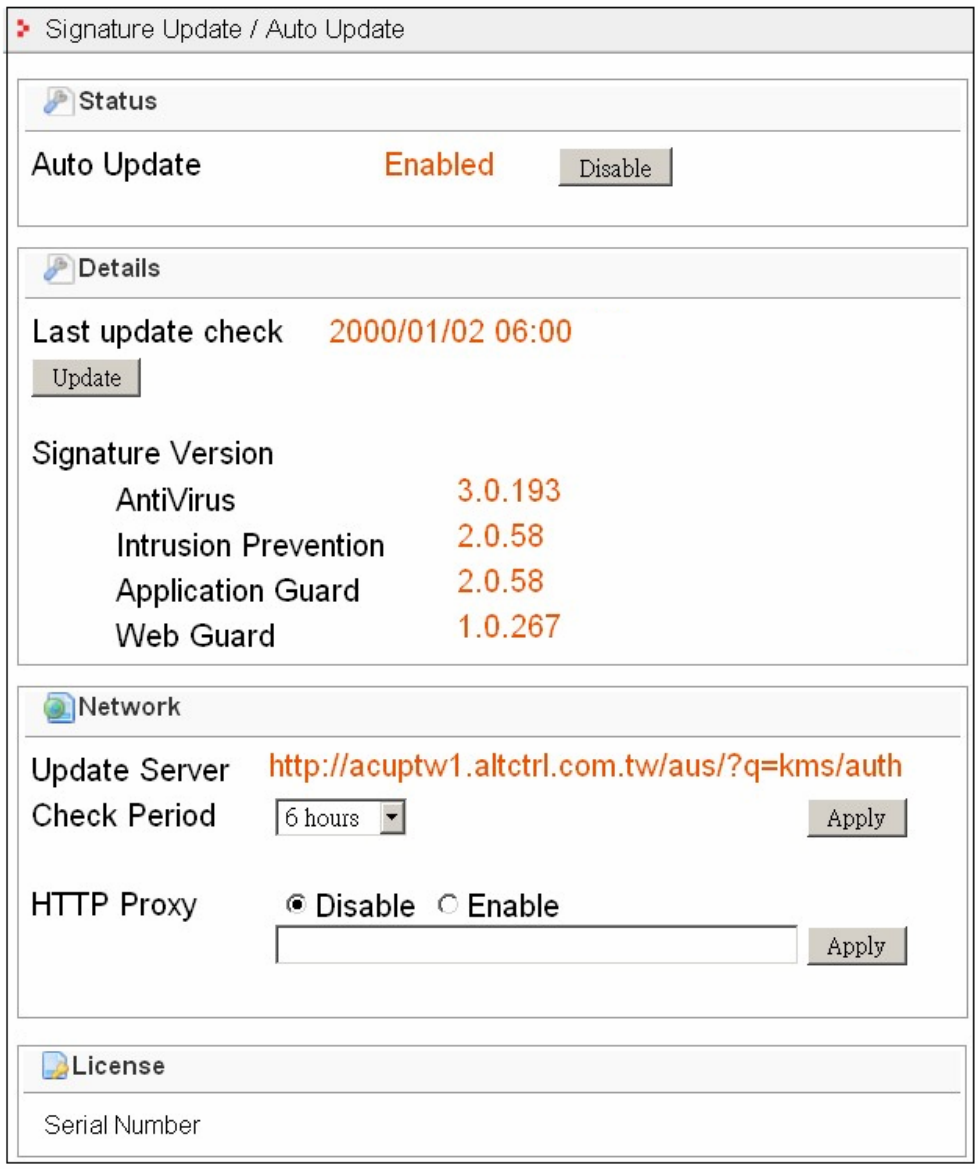


5.9.1. Signature Update / Auto Update

This page shows auto update information.

Click "**Enable / Disable"** to Enable / Disable the Auto Updates.
Click "**Update"** to update signature automatically and view the signature update status.

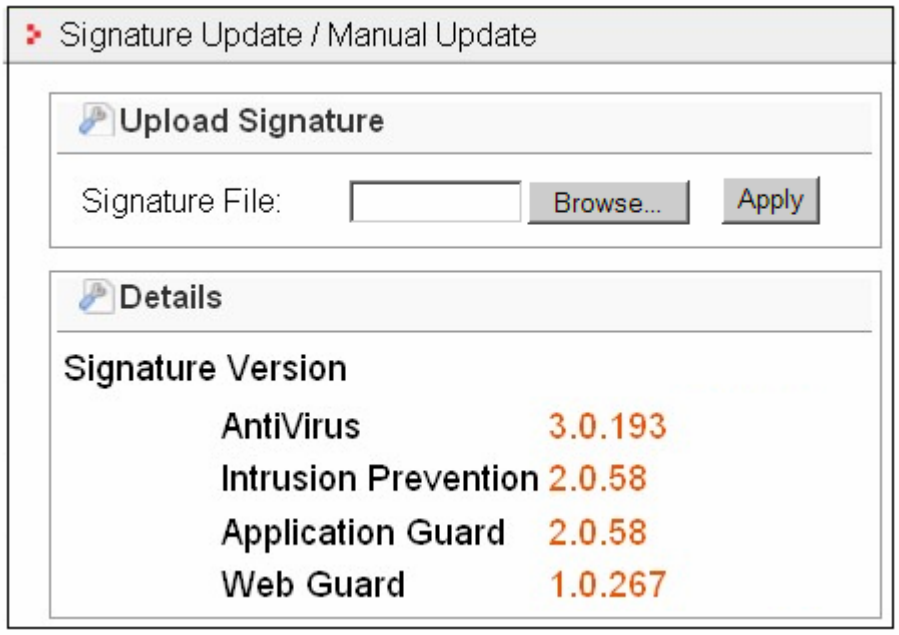
Select the "**Check Period"** stroll for the auto update signature time period, and click "**Apply"** to validate the setting.
Select the "**Enable"** radio button to and input the proxy server to text field then click "**Apply"** to enable HTTP Proxy setting.



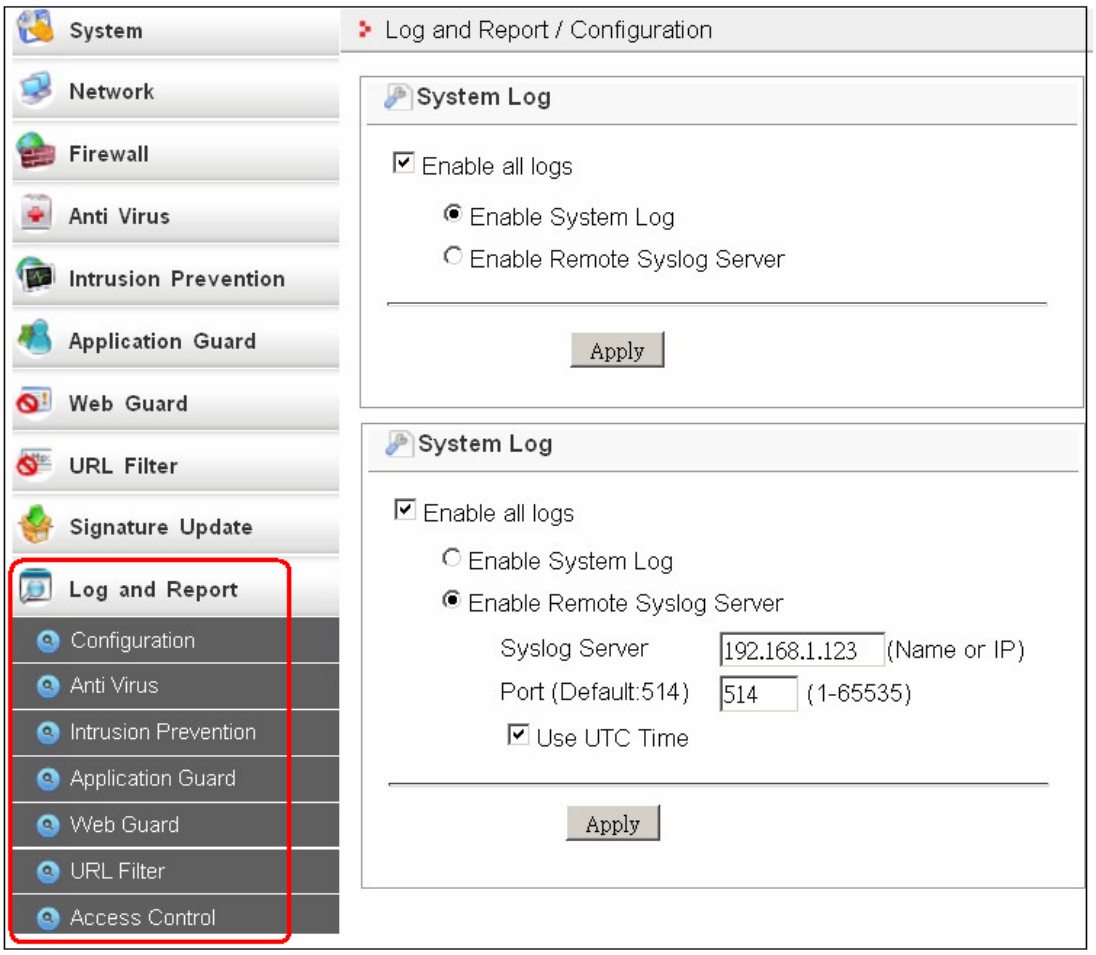
5.9.2. Signature Update / Manual Update

Besides auto update method, AC-FW0514W also supports manually signature update.

By assigning and browsing local signature file and then click "**Apply",** you can update new signature by yourself.

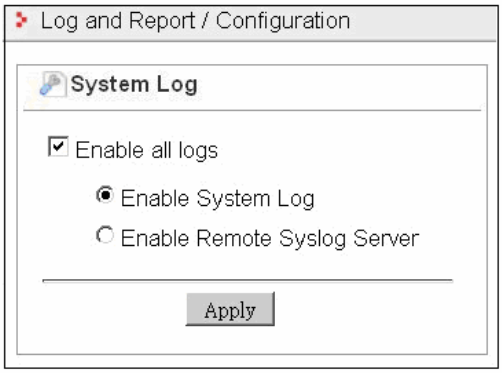


5.10. Log and Report



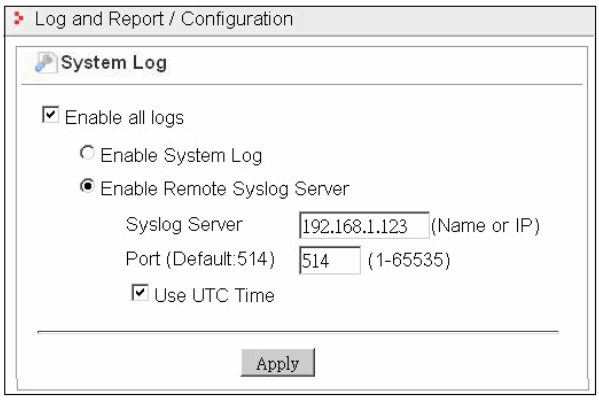
5.10.1. Logs and Report / Configuration

You can choose "**Enable all logs"** to Enable / Disable all logs, and click **"Apply"** to validate the setting.



When you enable all logs, you can choose "**Enable System Log"** to record system logs to the system. Or you can choose "**Enable Remote Syslog Server"** to record system logs to the remote syslog server. You need fill in a server name or IP address, network port information of system log server so that all system logs will be passed to the assigned server(Default syslog port: 514, you can input port from 1 to 65535).
You can enable **"Use UTC Time"** to use UTC: Coordinated Universal Time.

Click **"Apply"** to validate the setting.



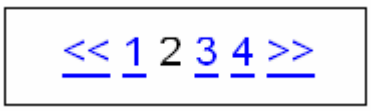
Note: "Enable System Log" just record logs to the system, all logs will erased if you reboot. You need to choose "Enable Remote Syslog Server" if you want to record logs to remote syslog server.

5.10.2. Logs and Report / Anti-Virus

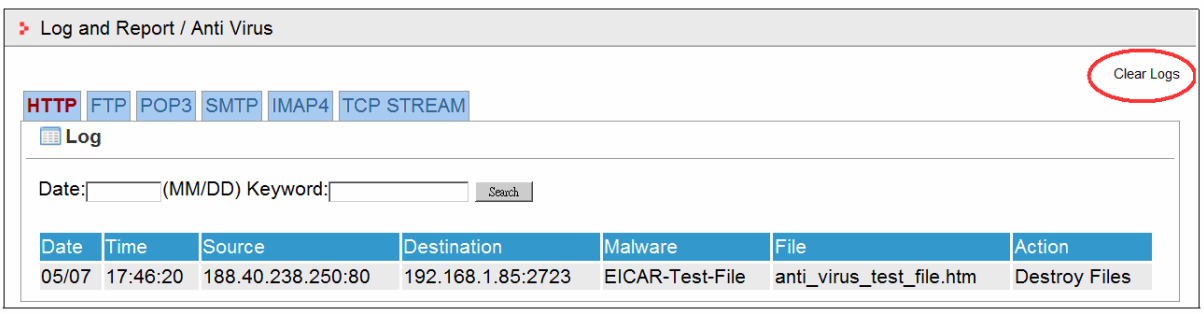
Anti-Virus Log records are distinguished into different protocols and listed. Please check **HTTP / FTP / SMTP / POP3 / IMAP4 / TCP STREAM** pages for each single protocol.

Enter Date information (Format: MM/DD, i.e: 09/30) or keyword and then click "**Search"** to view the logs.

You can click the "**Prev (<<)" / "Next (>>)"** to view the previous / next page of log records, or click any page number in the bottom page when the logs get more than one page.



Click the "**Clear Logs**" to erase log data.

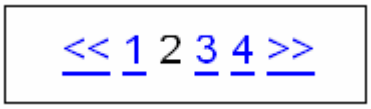


5.10.3. Logs and Report / Intrusion Prevention

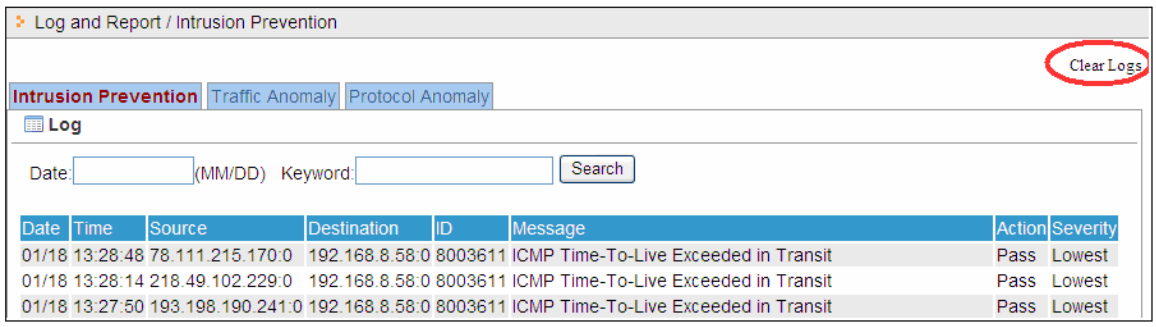
Intrusion Prevention Log records are separated into **Intrusion Prevention**, **Traffic Anomaly** and **Protocol Anomaly**.

Enter Date information (Format: MM/DD, i.e: 09/30) or keyword and then click "**Search"** to view the logs.

You can click the "**Prev (<<)" / "Next (>>)"** to view the previous / next page of log records, or click any page number in the bottom page when the logs get more than one page.



Click the "**Clear Logs**" to erase log data.

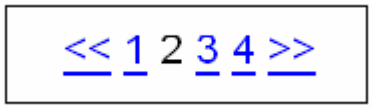


5.10.4. Logs and Report / Application Guard

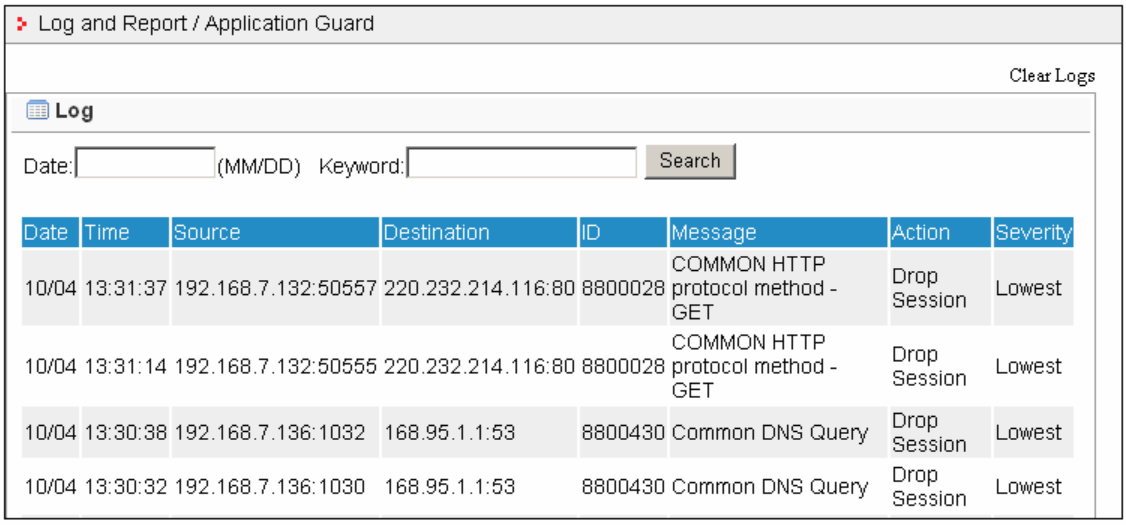
This page shows the log records of Application Guard function.

Enter Date information (Format: MM/DD, i.e: 09/30) or keyword and then click "**Search"** to view the logs.

You can click the "**Prev (<<)" / "Next (>>)"** to view the previous / next page of log records, or click any page number in the bottom page when the logs get more than one page.



Click the "**Clear Logs**" to erase log data.



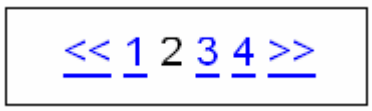
Date	Time	Source	Destination	ID	Message	Action	Severity
10/04	13:31:37	192.168.7.132:50557	220.232.214.116:80	8800028	COMMON HTTP protocol method - GET	Drop Session	Lowest
10/04	13:31:14	192.168.7.132:50555	220.232.214.116:80	8800028	COMMON HTTP protocol method - GET	Drop Session	Lowest
10/04	13:30:38	192.168.7.136:1032	168.95.1.1:53	8800430	Common DNS Query	Drop Session	Lowest
10/04	13:30:32	192.168.7.136:1030	168.95.1.1:53	8800430	Common DNS Query	Drop Session	Lowest

5.10.5. Logs and Report / Web Guard

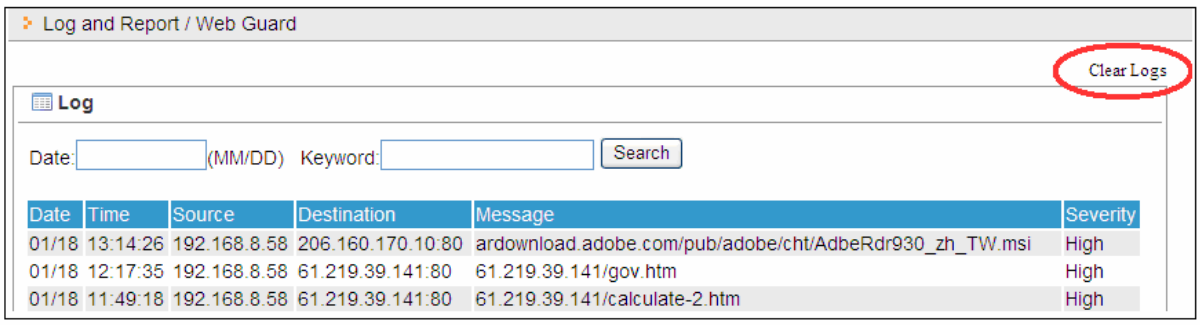
This page shows the log records of Web Guard function.

Enter Date information (Format: MM/DD, i.e: 09/30) or keyword and then click "**Search"** to view the logs.

You can click the "**Prev (<<)" / "Next (>>)"** to view the previous / next page of log records, or click any page number in the bottom page when the logs get more than one page.



Click the "**Clear Logs**" to erase log data.

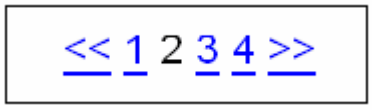


5.10.6. Logs and Report / URL Filter

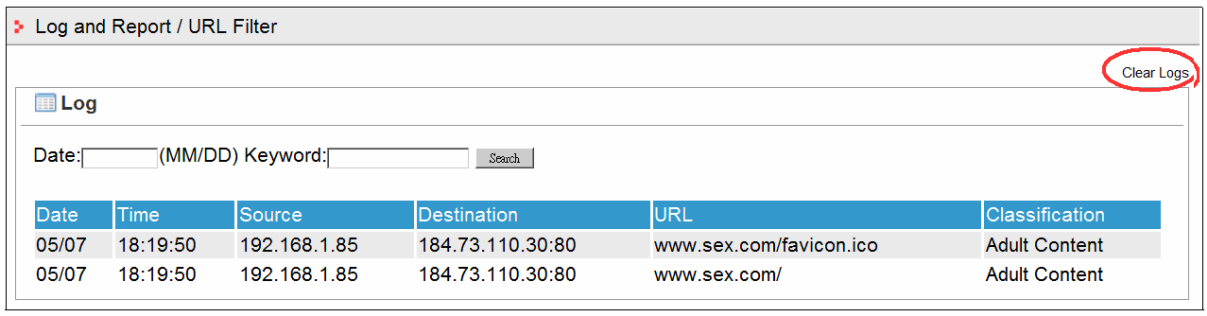
This page shows the log records of URL Filter function.

Enter Date information (Format: MM/DD, i.e: 09/30) or keyword and then click "**Search"** to view the logs.

You can click the "**Prev (<<)" / "Next (>>)"** to view the previous / next page of log records, or click any page number in the bottom page when the logs get more than one page.



Click the "**Clear Logs**" to erase log data.

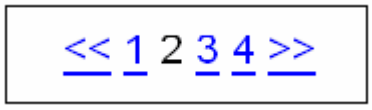


5.10.7. Logs and Report / Access Control

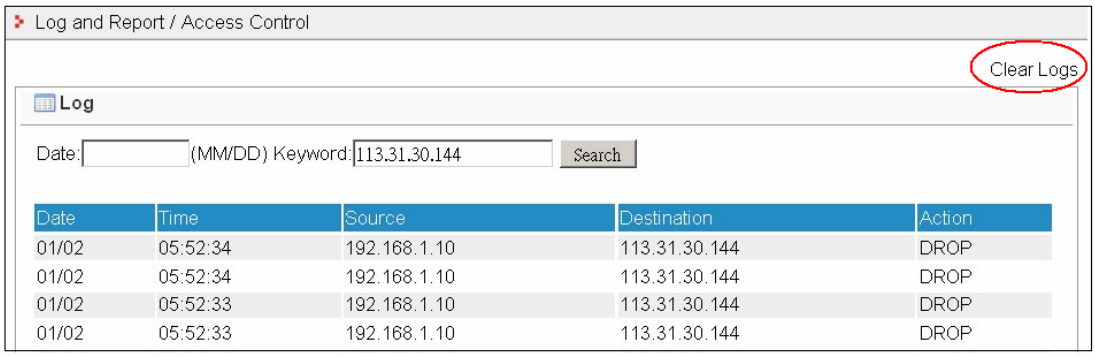
This page shows the log records of Access Control function.

Enter Date information (Format: MM/DD, i.e: 09/30) or keyword and then click "**Search"** to view the logs.

You can click the "**Prev (<<)" / "Next (>>)"** to view the previous / next page of log records, or click any page number in the bottom page when the logs get more than one page.



Click the "**Clear Logs**" to erase log data.



6.Trouble-shooting

Problem	Corrective Action
None of the LEDs turn on when you turn on the AC-FW0514W	❖ Make sure the connection of power adaptor to the AC-FW0514W, and plug the power lead to an appropriate power source. Check all the cable connections. ❖ If LED's still do not turn on, you may have a hardware problem. In this case, please contact with vendor for product service.
Cannot access the AC-FW0514W from LAN	❖ Check the cable connection between the AC-FW0514W and your computer. ❖ Ping the AC-FW0514W (192.168.1.1) from a LAN computer. Make sure your computer's Ethernet card is installed and functioning properly.
Cannot access the internet	❖ Check the AC-FW0514W's connection to the broadband devices such as ADSL / cable modem / Router device. ❖ Check WAN to verify setting.

FCC

Interference Statement:

This device complies with Part 15 of FCC rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operations.

FCC Warning!

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can raditate radio frequency energy and, if not installed and used in accordance with the instruaction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which cause the user will be required to correct the interference at his ownexpense.