



User Manual

AP Manager II v3.0 - Business Class Networking

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Product Overview

MANAGE THE NETWORK

AP Manager II v3.0 is a versatile and convenient software solution for IT staff to manage the network and their routers. The AP Manager is the ideal solution for network infrastructure management. Connect one or many routers to the main management system and control and run IP management from one location.

STREAM DIGITAL MEDIA CONTENT THROUGHOUT THE NETWORK

Managing the backbone of your network couldn't be easier with the AP Manager II v.3.0. Control how data is routed and trafficked throughout the network.

PROTECTION, PERFORMANCE, AND FLEXIBILITY

The AP Manager has fail-safe security built-in. Security is managed at the network layer so data is secure and safe. Manage the speed of a network by throttling the bandwidth. Give priority to users who demand mission critical access. Install new IP topologies from one location and manage its throughput using our great management tools.

Before you Begin

- Check box contents
- Check system requirements
- Ensure that you have the hardware you need for your router

System Requirements

For best results, the following minimum requirements are recommended on any system used to configure a router:

- Computer with: 1Ghz processor / 512MB RAM / 200MB available space / CD-ROM drive
- Windows® XP (with Service Pack 2), Windows Vista®, Windows® 7
- Mac OS® X 10.5.6 or greater
- Installed Ethernet Adapter
- Postgre SQL 8.3

Access Point Requirements

- SNMP must be enabled on Access Points used with AP Manager v3.0

Installation Setup Wizard

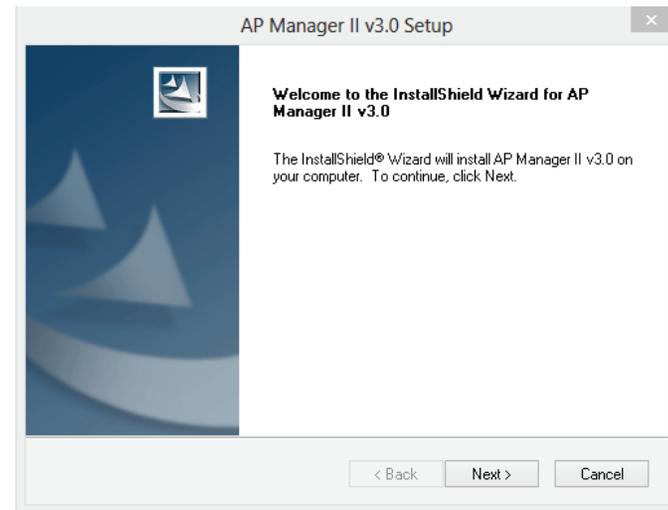
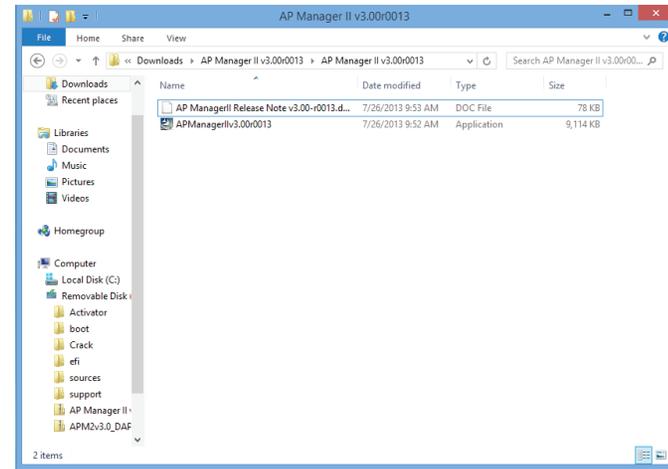
To run the Setup Wizard, insert the CD into your CD-ROM drive.

Step 1 - When the autorun screen appears, click **Install**.
Otherwise, click the AP Manager v3.0 installation icon.

Note: *Windows Firewall presents you with a warning message to unblock the device. Click Unblock to give your computer access to the installation process.*

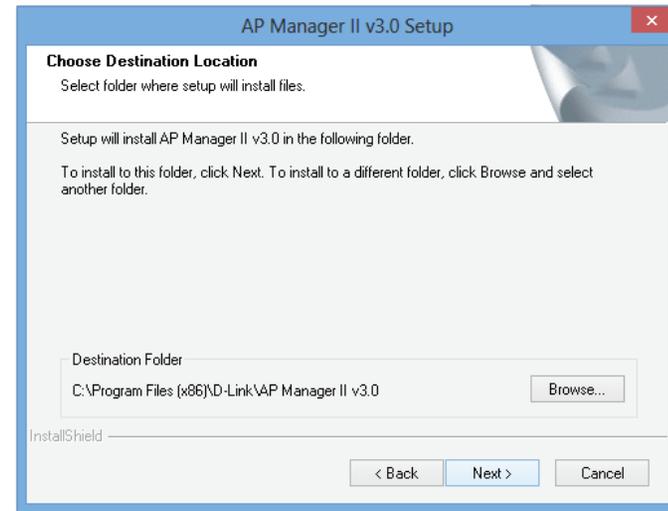
Step 2 - The AP Manager II v3.0 Installation window appears.

Click **Next** to continue.



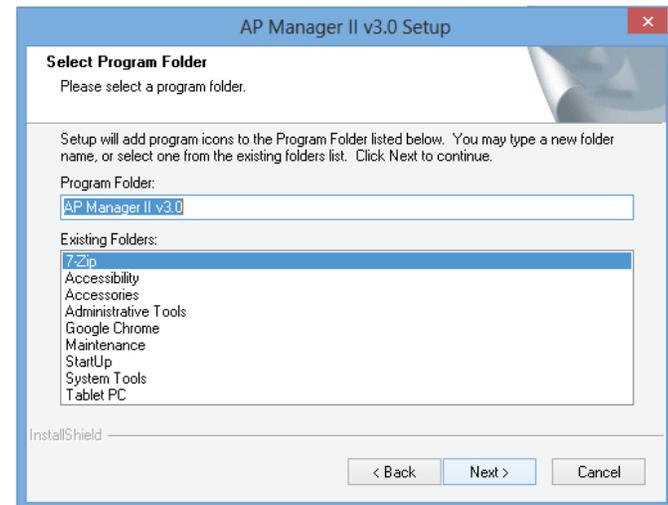
Step 3 - Select the installation location.

Click **Next** to continue.



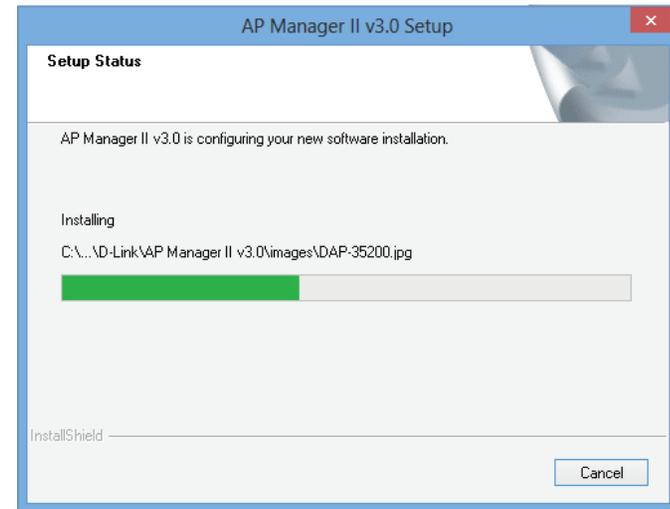
Step 4 - Select the Program Folder

Click **Next** to continue.

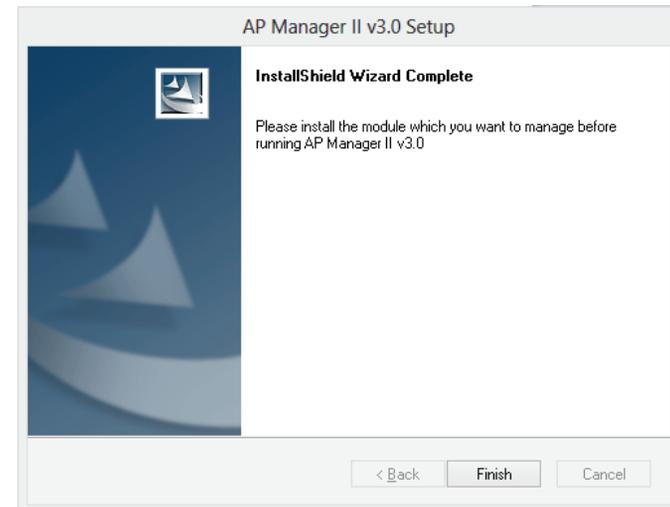


Step 5 - The installation begins.

Please be patient while the installation process takes place (a matter of seconds)



Step 6 - Click Finish to exit the Wizard.

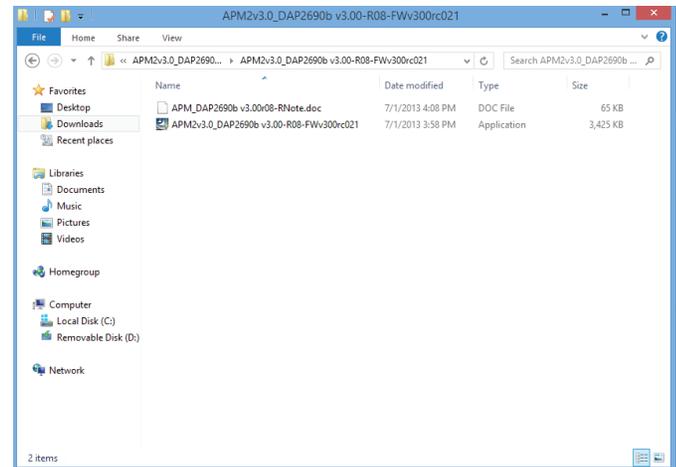


Section 3 - Installation

Step 7 - An AP Manager II v3.0 icon appears automatically on your desktop. Before you click the icon to start the program, install the module

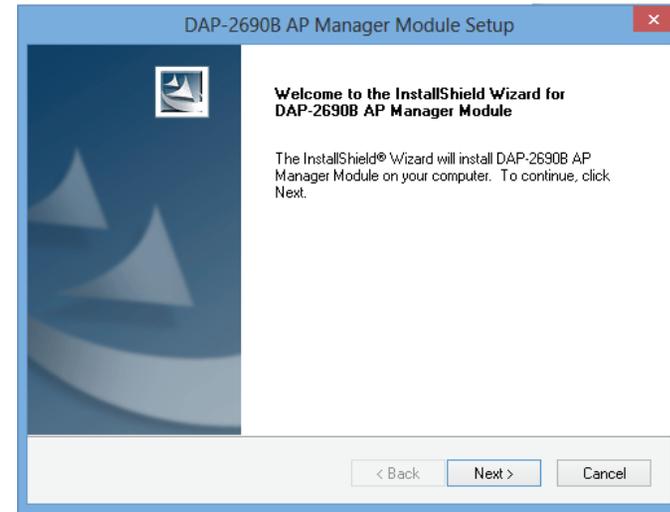


Step 8 - Browse to the location where you have the module. Double-click the module to install.



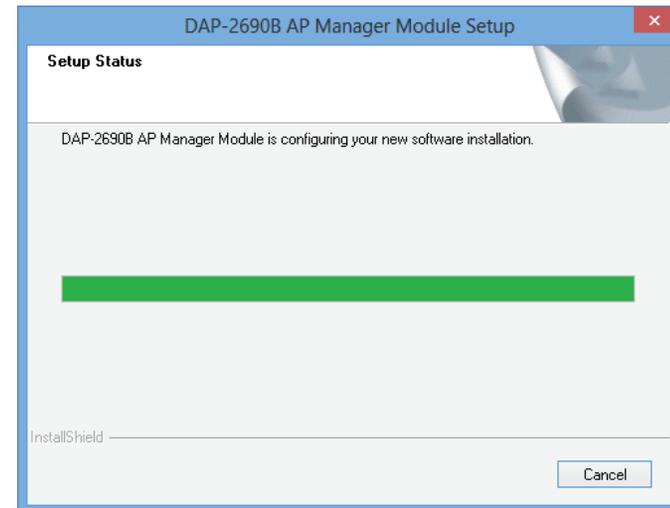
Step 9 - The module Wizard for the DAP-2690 AP Manager v3.0 begins.

Click **Next** to continue.

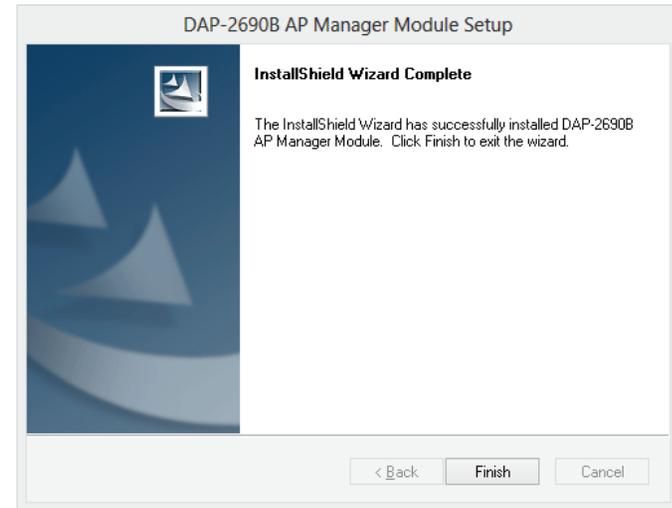


Step 10 - The wizard installs the module momentarily.

Click **Cancel** if you wish to exit otherwise wait for the installation process to complete.



Step 11- Click **Finish** to close the wizard.

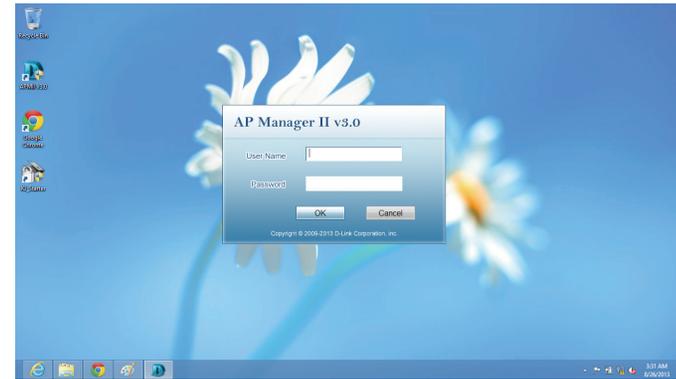


Step 12- Right-click the icon and click **Run as administrator**.



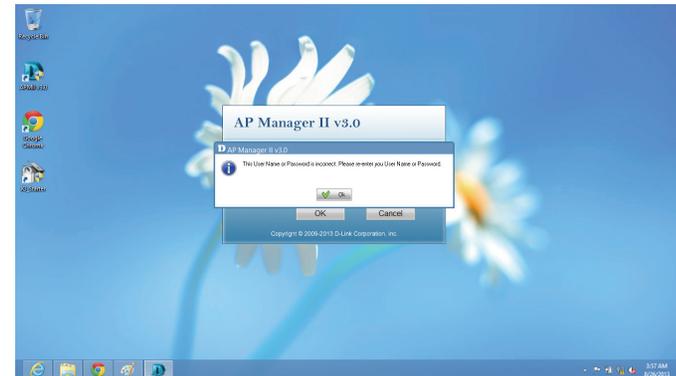
Step 13 - Enter the **Username** and **Password** at the log-in screen.

Click **OK** to continue.



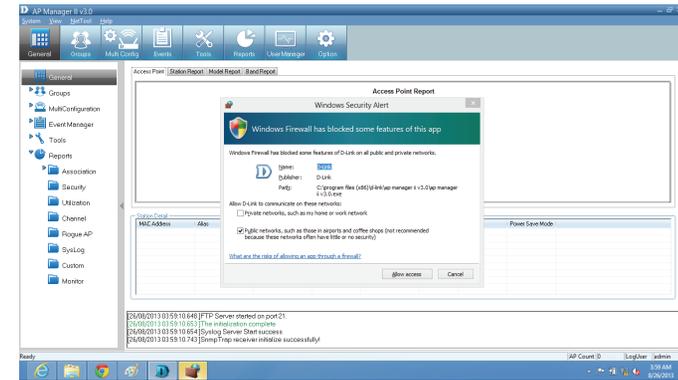
Step 14 - If you have entered the wrong details, the software will warn you and prompt you to enter the correct information.

Click **OK** to continue and enter the correct details once again.

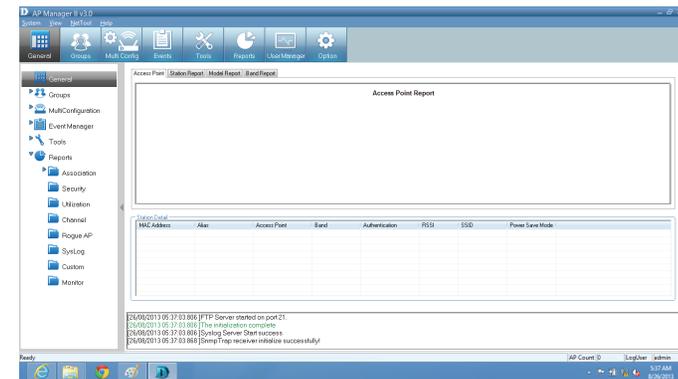


Step 15 - Windows Firewall blocks the program if you do not provide it access.

Click the **Allow access** button to continue.



This completes the installation process for the main software. You are now presented with the **AP Manager II v3.0** main control panel.



The AP Manager II v3.0 Control Panel

The **Main Control Panel** has eight key configuration Windows. **General, Groups, Multi Config, Events, Tools, Reports, User Manager, and Option.** The **General** window offers simple data information on the **Access Point, Station Report(s), Model Report(s), and a Band Report.**

AP Manager II v3.0

System View NetTool Help

General Groups Multi Config Events Tools Reports User Manager Option

General

- Groups
- MultiConfiguration
- Event Manager
- Tools
- Reports
 - Association
 - Security
 - Utilization
 - Channel
 - Rogue AP
 - SysLog
 - Custom
 - Monitor

Access Point Station Report Model Report Band Report

Access Point Report

Station Detail

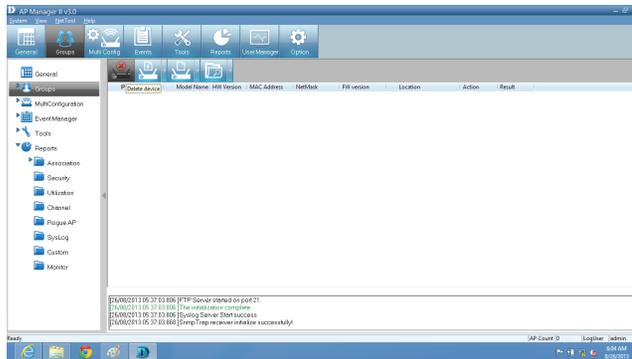
MAC Address	Alias	Access Point	Band	Authentication	RSSI	SSID	Power Save Mode

[26/08/2013 05:37:03.806]FTP Server started on port 21.
[26/08/2013 05:37:03.806]The initialization complete
[26/08/2013 05:37:03.806]Syslog Server Start success
[26/08/2013 05:37:03.868]SnmpTrap receiver initialize successfully!

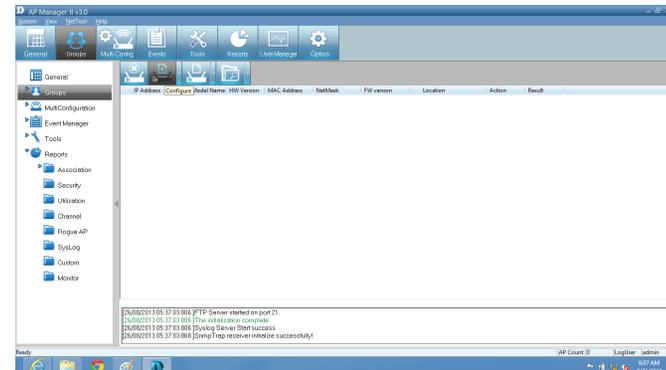
Ready AP Count 0 LogUser admin 5:37 AM 8/26/2013

Discovering Devices

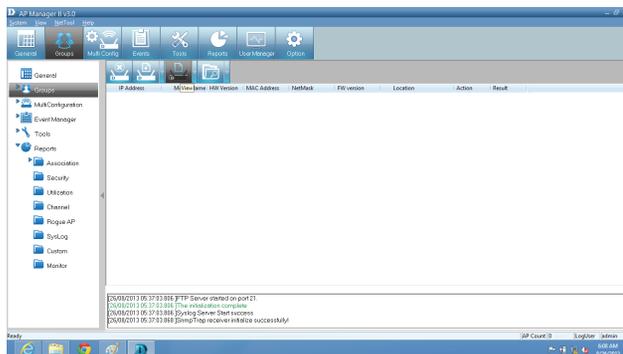
Before you can manage and monitor the **Access Point**, you must discover the device. Click **Groups** on the main menu bar. **Groups** has four main icons. **Delete**, **Configure**, **View**, and **Discover**.



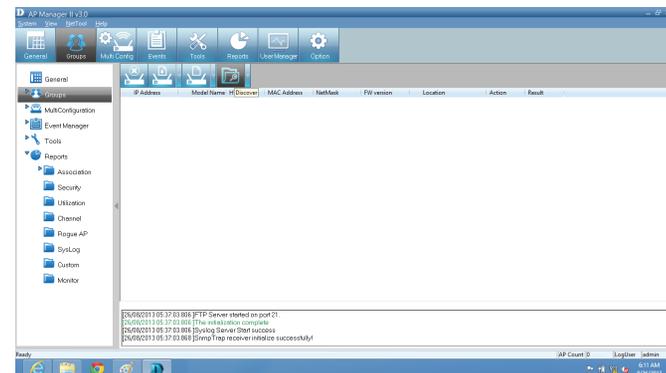
Delete



Configure

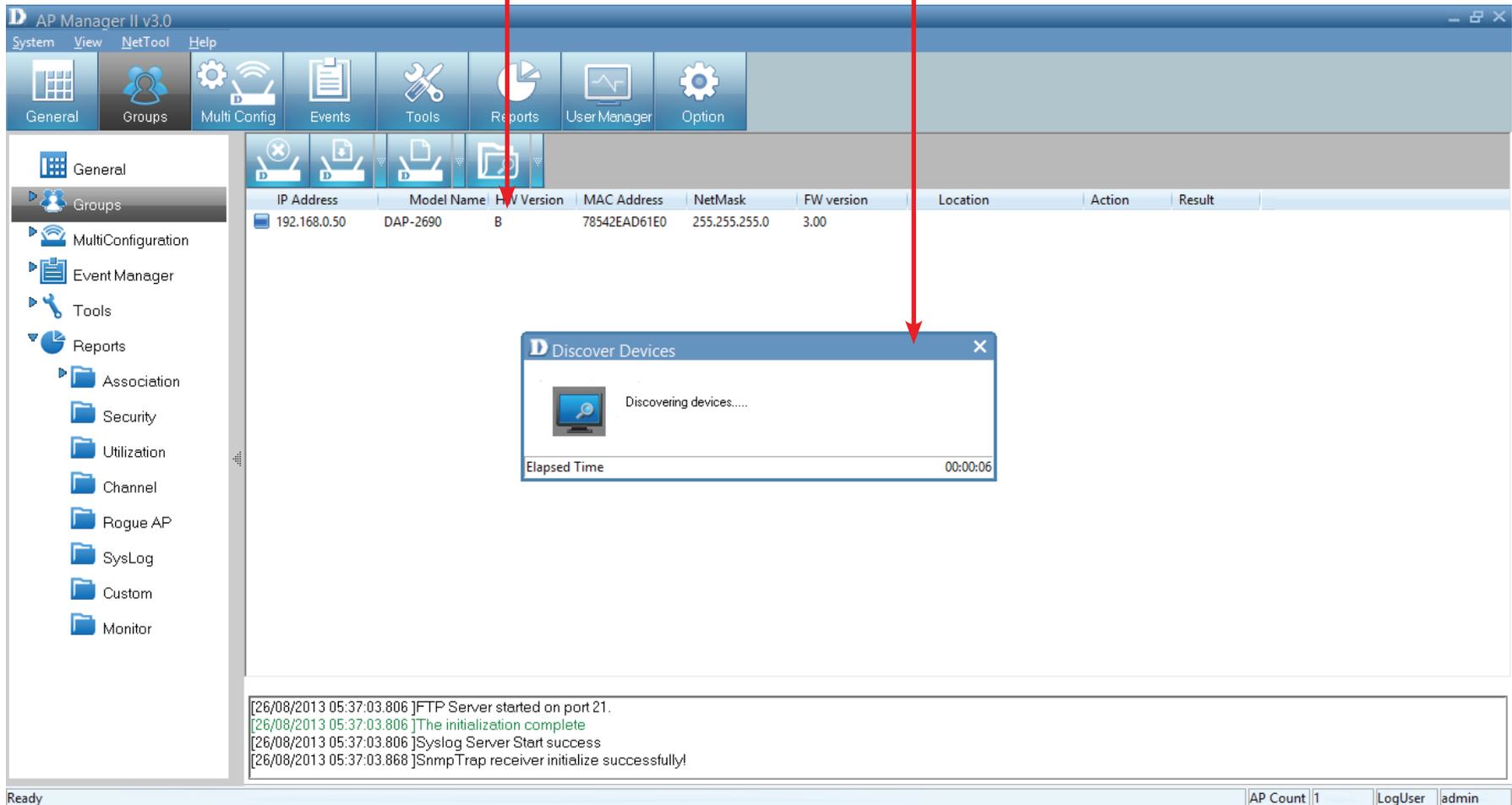


View



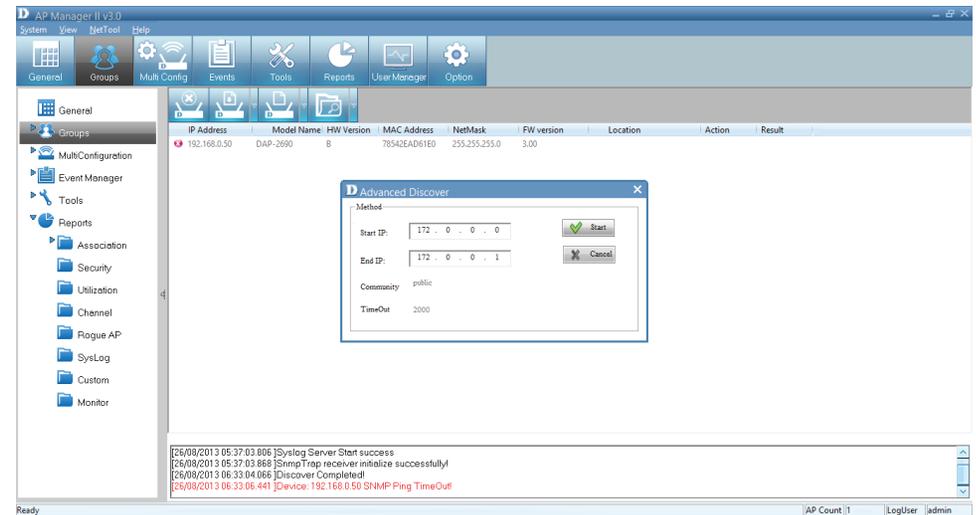
Discover

Click **Discover** to find the **Access Point**. The following dialogue window will appear during the **Discovery process**. If you AP is connected, it is detected and shown on the screen.



Advanced Discovery

The standard discovery can only discover the **Access Point's** in the same sub network. To discover the **Access Points** in the other network segments, click the arrow next to the **Discover** icon and from the drop-down list click **Advanced Discover**.



Under **Advanced Discover**, enter the **Start IP** and the **End IP** and click the **Start** button to search for **Access Points** within the specified **IP range**. Once other **Access Points** are discovered their status will be updated by the icons associated to it.



New Access Point



Managed Access Point



The Access Point cannot be pinged but can be modified.



The Access Point is offline and/or the SNMP engine is disabled.

The Access Point is specified as a Rogue AP

Access Point Report

The **Access Point Report** shows the discovered AP's. Access Points are divided into **Managed Access Points** and **Unmanaged Access Points**. The Managed APs are listed in the **Station Detail** table below the Access Point Report.

AP Manager II v3.0

System View Help

General Groups Multi Config Events Tools Reports User Manager Option

General

Groups

MultiConfiguration

Event Manager

Tools

Reports

Association

Security

Utilization

Channel

Rogue AP

SysLog

Custom

Monitor

Access Point | Station Report | Model Report | Band Report

Access Point Report

Legend

■ Unmanaged AP

Station Detail

MAC Address	Alias	Access Point	Band	Authentication	RSSI	SSID	Power Save Mode

[26/08/2013 06:40:25.340] Search Device:172.0.0.1
 [26/08/2013 06:41:07.342] Find devices:172.0.0.1(SNMPClass) SNMP request timed out
 [26/08/2013 06:41:09.358] Discover Completed!
 [26/08/2013 06:41:35.875] Device: 192.168.0.50 SNMP Ping TimeOut

Ready | AP Count | 1 | LogUser | admin

The **Station Report** table lists the **MAC Address, Alias, Access Point, Band, Authentication type, RSSI, SSID, and Power Save Mode** of all stations connected to the Managed APs.

Remove an **Access Point** from the list by right-clicking it and selecting **Kick Off**.

AP Manager II v3.0

System View Help

General Groups Multi Config Events Tools Reports User Manager Option

General

Groups

Model

Category1

Category2

Category3

MultiConfiguration

Event Manager

Tools

Reports

Association

Security

Utilization

Channel

Rogue AP

SysLog

Custom

Monitor

Access Point | Station Report | Model Report | Band Report

Station Report

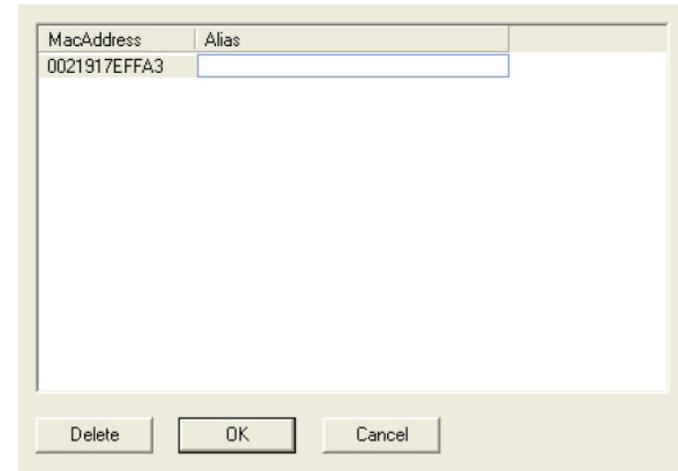
Station Detail

MAC Address	Alias	Access Point	Band	Authentication	RSSI	SSID	Power Save Mode

[26/08/2013 06:41:09.358] Discover Completed!
 [26/08/2013 06:41:35.875] Device: 192.168.0.50 SNMP Ping TimeOut
 [26/08/2013 07:39:35.188] Discover Completed!
 [26/08/2013 07:39:37.204] Device: 192.168.0.50 SNMP Ping TimeOut

Ready | AP Count | 1 | LogUser | admin

Create an **Alias** by right-clicking the **Access Point** and selecting **Alias**. In the Alias management window, type the new name. Click **OK** to continue.



MacAddress	Alias
0021917EFFA3	

Buttons: Delete, OK, Cancel

Model Report

The **Model Report** displays a graphical representation of the numerical distribution of models the AP Manager II has discovered and is currently managing.

The screenshot shows the AP Manager II v3.0 software interface. The main window displays the 'Model Report' section, which includes a 3D pie chart showing a single slice labeled '1'. A legend on the right indicates that the slice represents 'DAP-2650'. Below the chart is a 'Station Detail' table with the following columns: MAC Address, Alias, Access Point, Band, Authentication, RSSI, SSID, and Power Save Mode. The table is currently empty. The interface also shows a navigation pane on the left with various categories like Groups, MultiConfiguration, Event Manager, and Tools. The status bar at the bottom indicates 'AP Count: 1' and 'LogUser: admin'. A log window at the bottom shows system messages, including a red error message: '[26/08/2013 08:00:05.633]Device: 192.168.0.50 SNMP Ping TimeOut!'.

MAC Address	Alias	Access Point	Band	Authentication	RSSI	SSID	Power Save Mode
-------------	-------	--------------	------	----------------	------	------	-----------------

Band Report

The **Band Report** displays a graphical representation of the 2.4GHz and 5GHz WLAN bands (802.11a, 802.11b/802.11g and 802.11b/g/n) currently being used by the Access Point. It shows the number Access Points on every band.

The screenshot shows the D-Link AP Manager II v3.0 interface. The main window displays the 'Band Report' for an Access Point. The report shows a pie chart with two segments: a blue segment representing 2.4GHz and a pink segment representing 5GHz. Both segments are labeled with the number '1', indicating one AP is on each band. A legend on the right side of the chart identifies the colors: blue for 2.4GHz and pink for 5GHz.

Below the pie chart is a 'Station Detail' table with the following columns: MAC Address, Alias, Access Point, Band, Authentication, RSSI, SSID, and Power Save Mode. The table is currently empty.

At the bottom of the interface, there is a log window showing the following messages:

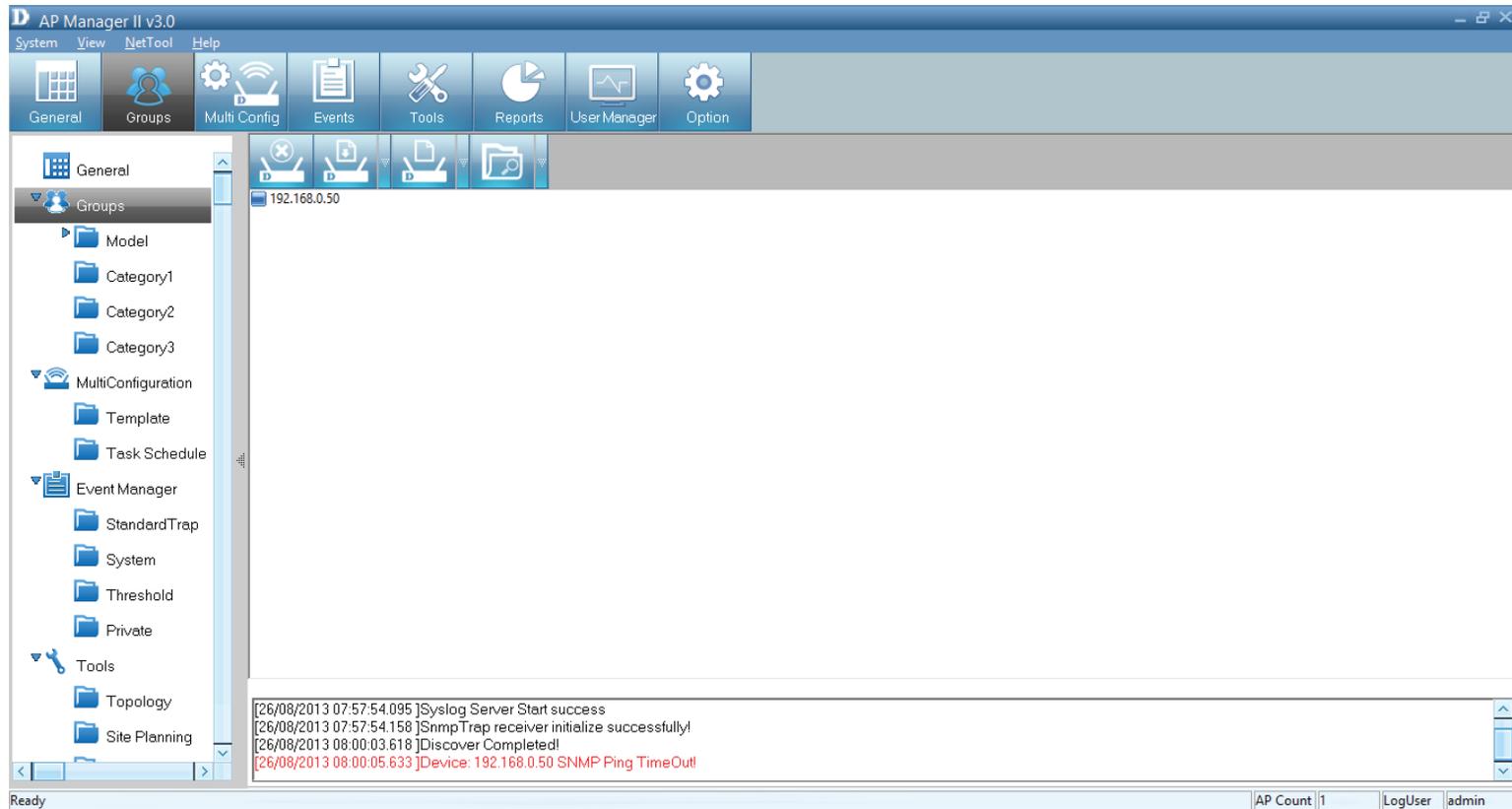
```
[26/08/2013 07:57:54.095]Syslog Server Start success
[26/08/2013 07:57:54.158]SnmpTrap receiver initialize successfully!
[26/08/2013 08:00:03.618]Discover Completed!
[26/08/2013 08:00:05.633]Device: 192.168.0.50 SNMP Ping TimeOut
```

The status bar at the bottom right shows 'AP Count: 1' and 'LogUser: admin'.

Group View

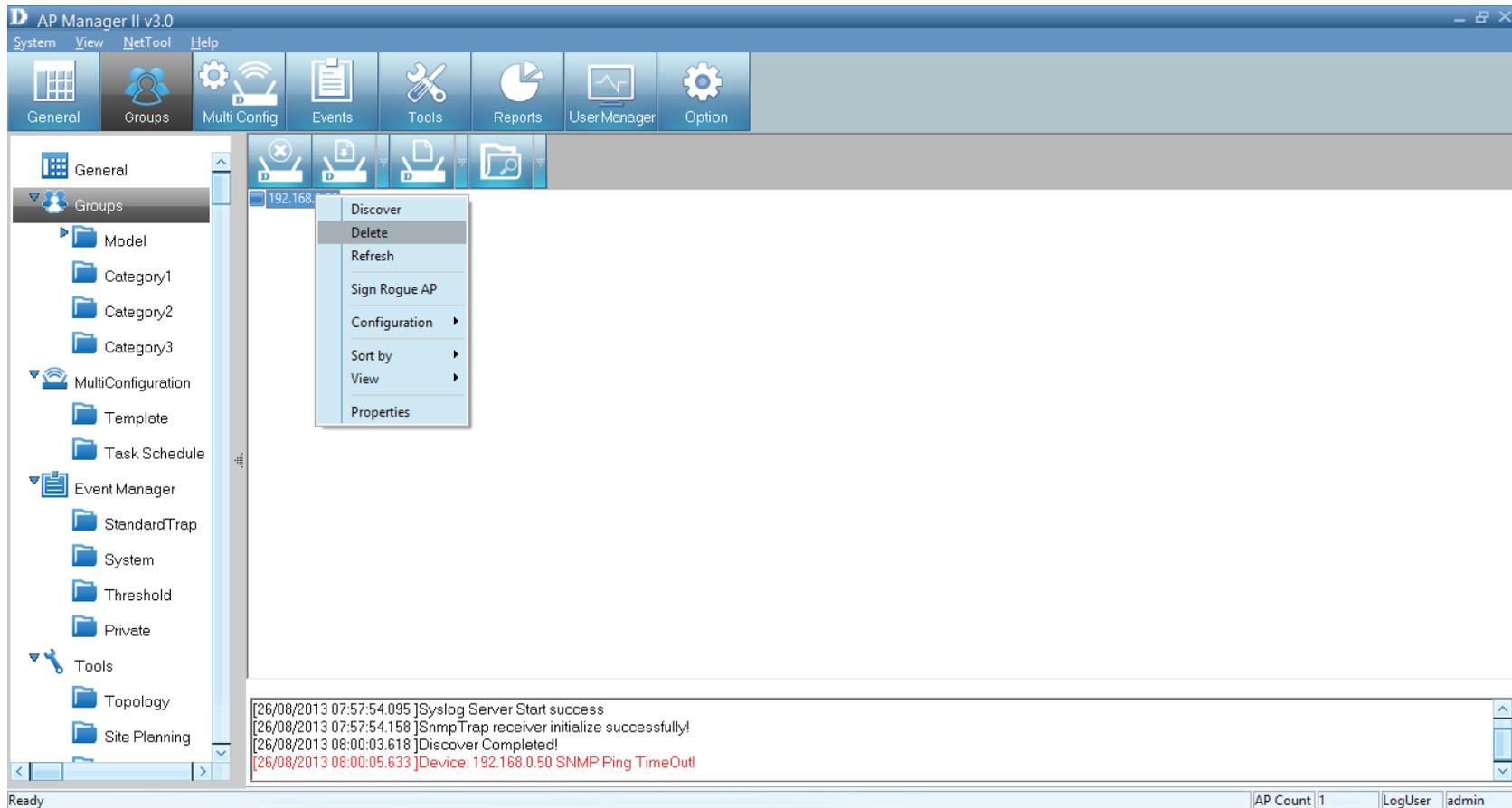
The **Group View Panel** displays the access points the AP Manager II v3.0 discovers and currently manages. You can group these access points by model or into categories that can make their distribution easier to visualize.

The AP Manager II v3.0 can actively monitor and manage several D-Link Access Points. They are installed as plug-ins under the installation directory. Add or remove supported model freely and once access points are detected during the discovery process, its listed in the main **Group View Panel**.



To **Delete** an access point.

Highlight it in **Group View** mode, right-click the access point, and select **Delete**.



Note: To view a list of supported access points, please go to the Frequently Asked Questions page at <http://support.dlink.com/faq>

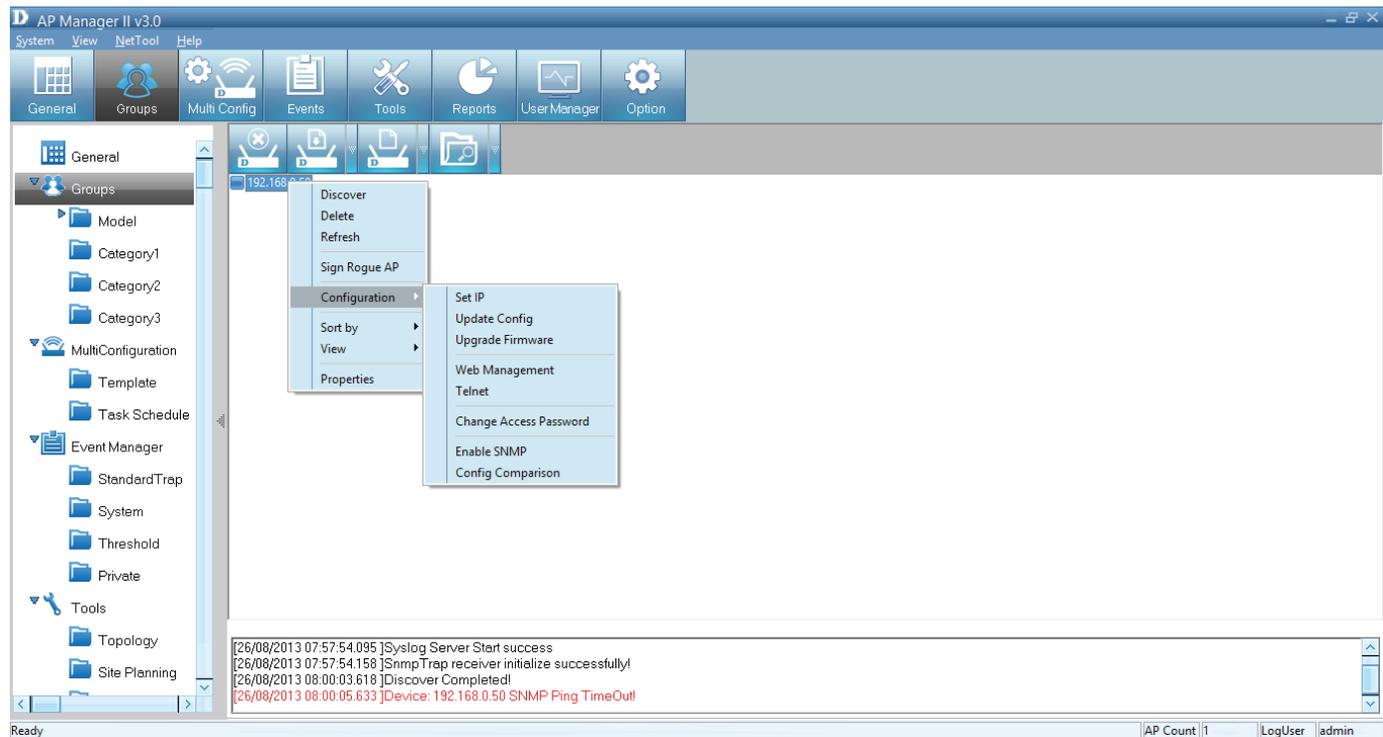
Group - Configuration

There are three main ways to configure an Access Point.

Right-click the **Access Point** and click **Configuration**. A new list of configurational options are available.

The options available from the drop-down menu are:

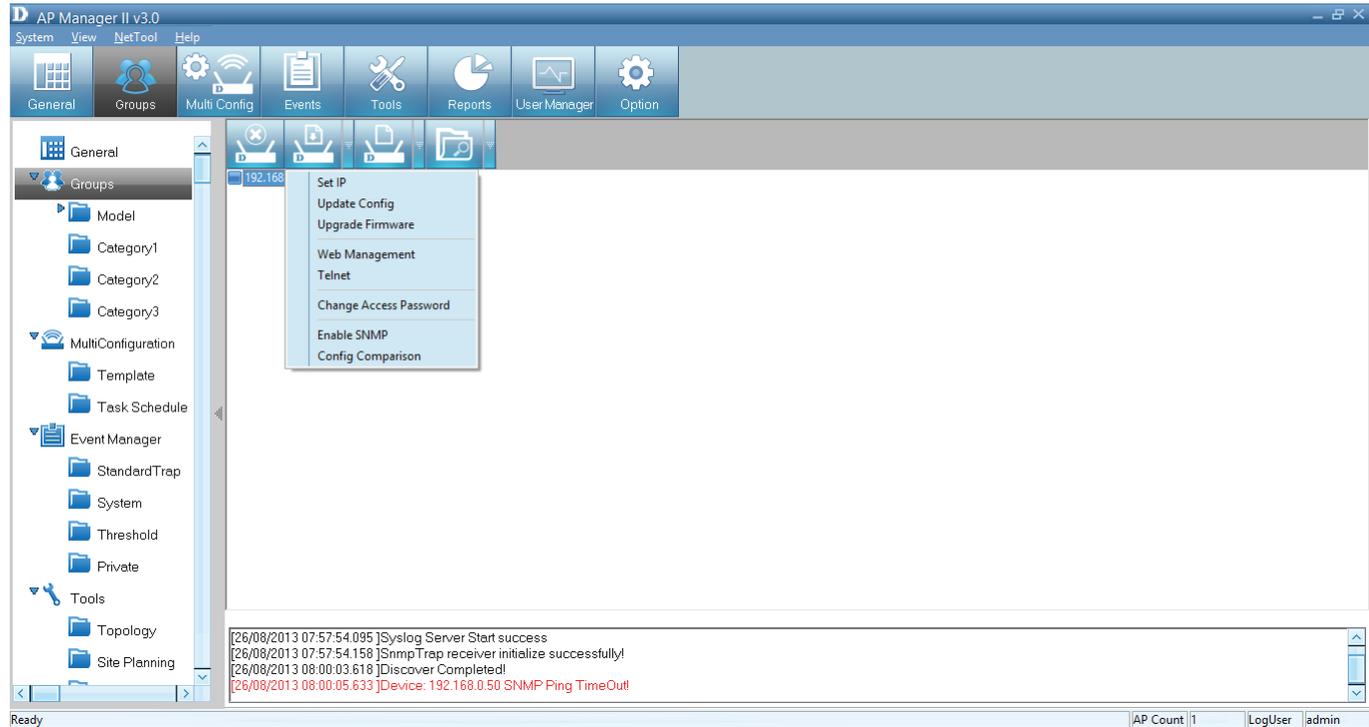
- Set IP**
- Update Config**
- Upgrade Firmware**
- Web Management**
- Telnet**
- Change Access Password**
- Enable SNMP**
- Config Comparison**



The second option is to click the arrow next to the **Configure** button.

Use this option to provide the same choices as done in the first selection.

Set IP
Update Config
Upgrade Firmware
Web Management
Telnet
Change Access Password
Enable SNMP
Config Comparison



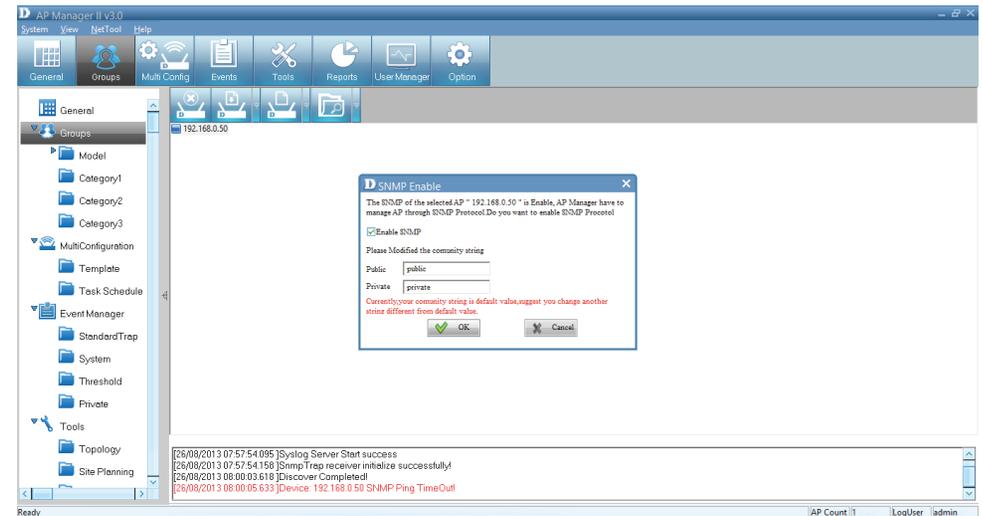
Group - Configuration - Set IP

You can manually set the IP Address of a selected Access Point.

To quickly access IP configuration tools, double-click the Access Point.

Set the **IP address**, **Subnet Mask**, and **Default Gateway**. Click **OK** to continue.

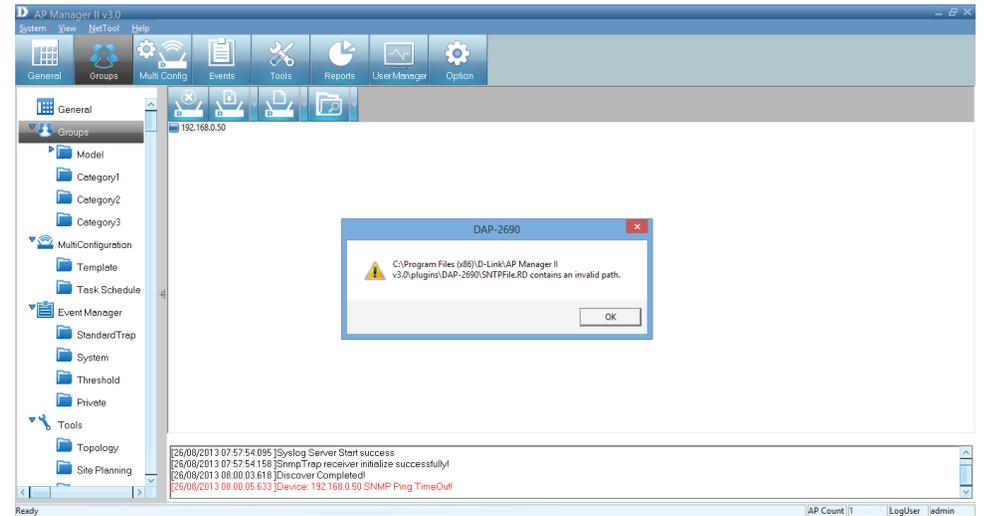
When a new Access Point is discovered, you can use this function to assign it a new IP address, Subnet Mask and Default Gateway to the device.



The Action column show the executing operation, while the Results column shows the progress by percentage. You can set the IP addresses of multiple devices this way. If the operation fails, please check the physical connections, and the username and password settings. (Refer to the Set Password section for details)

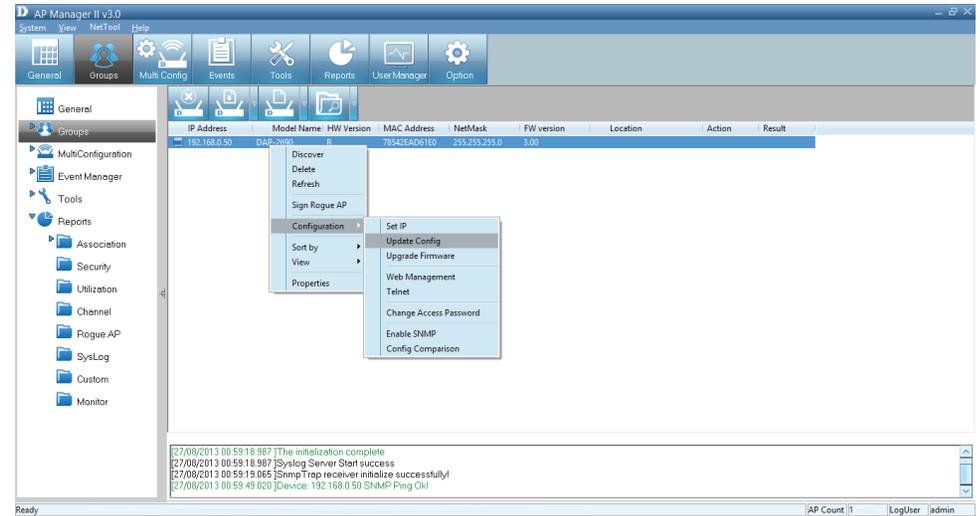
Section 3 - Installation

If you have entered the wrong IP information, you are prompted to re-enter new details. Click **OK** to try again.

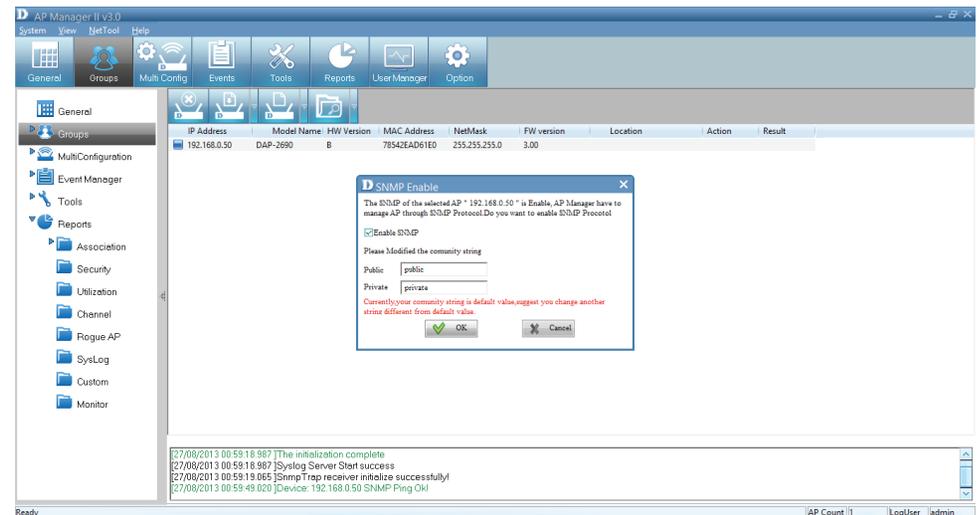


Group - Configuration Update

Right-click the device, go to **Configuration**, and click **Update Config**.

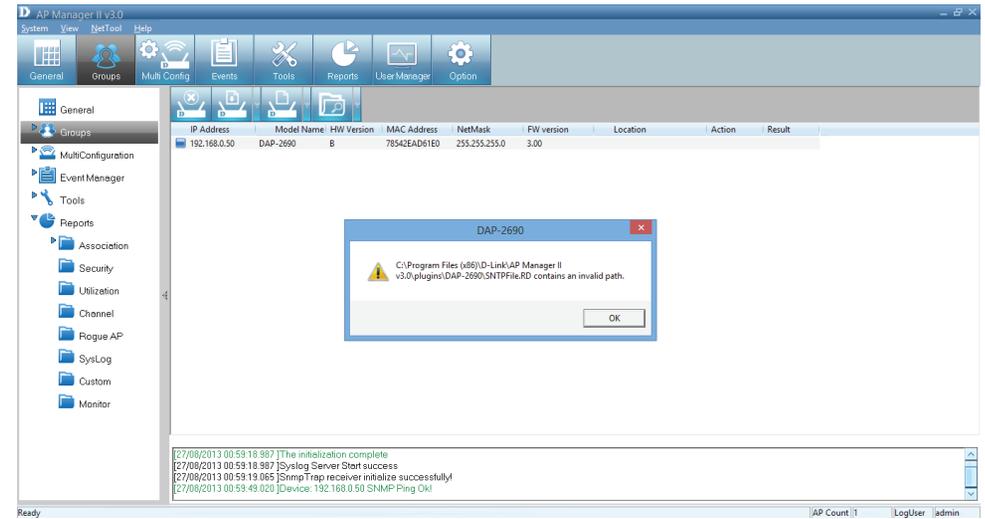


The **SNMP** preview window prompts you to **enable SNMP**. Click OK to continue.

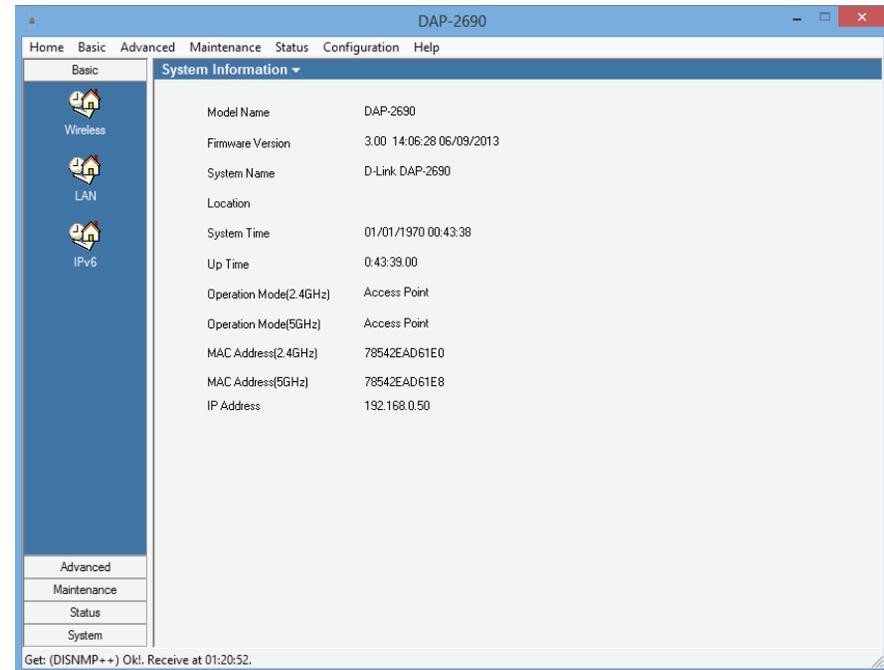


Section 3 - Installation

If the original settings are not clear an invalid path notice will appear.

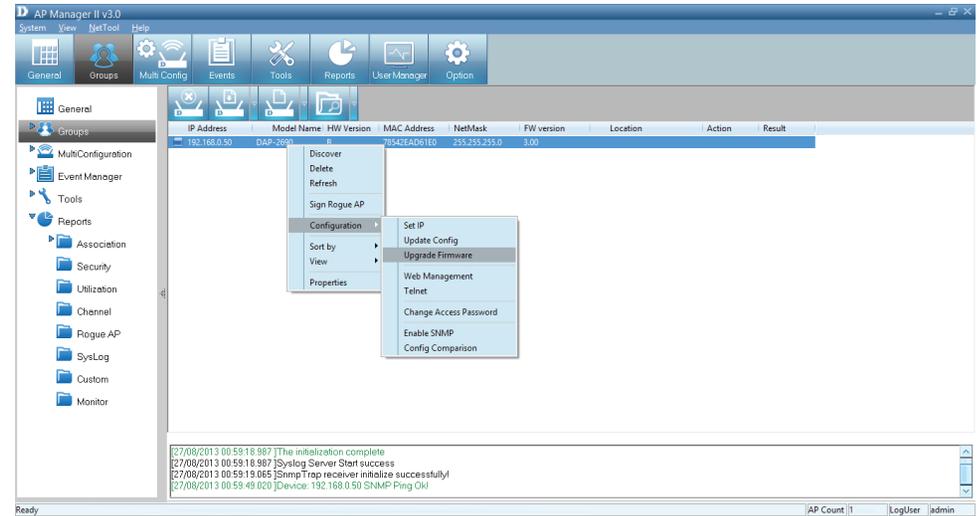


The program redirects you to the Access Point's configuration tools.

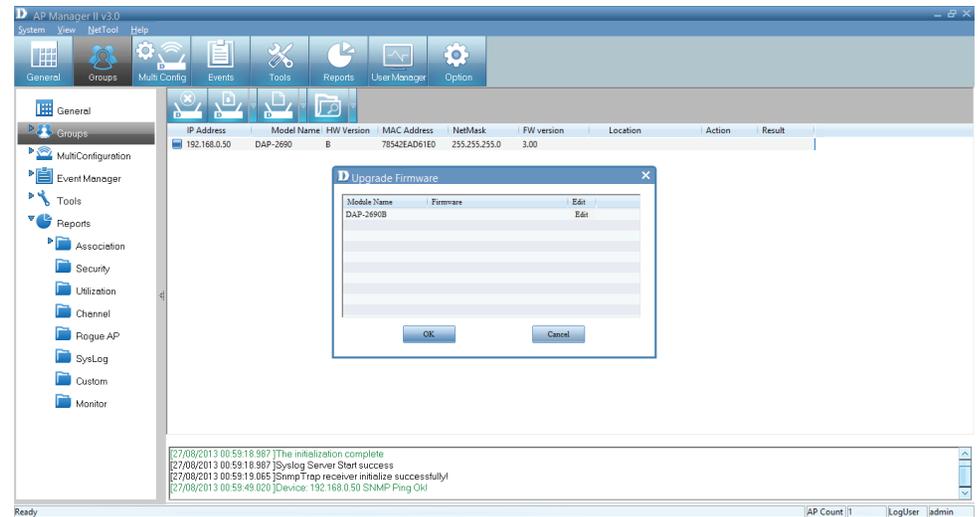


Configuration - Firmware Upgrade

Right-click the device, go to **Configuration**, and click **Upgrade Firmware**.

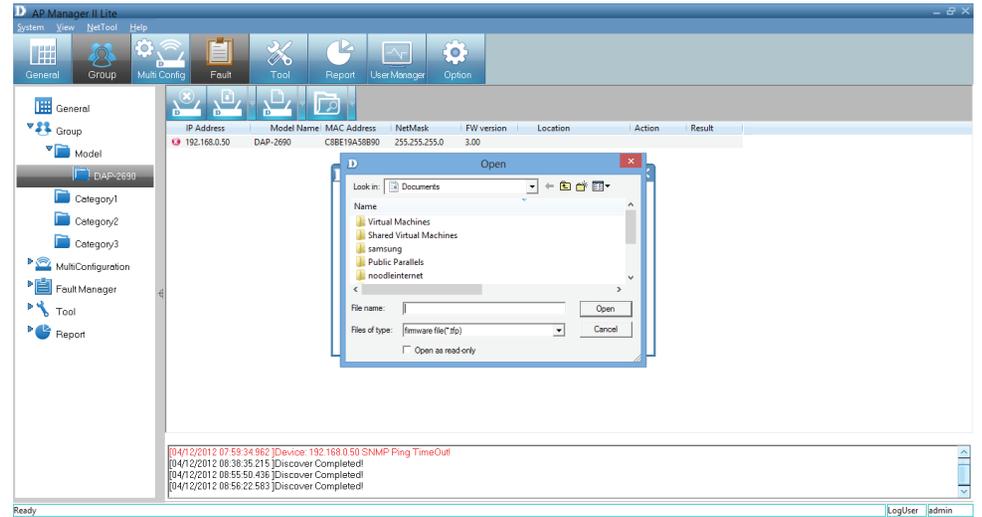


The **Upgrade Firmware** configuration window opens.

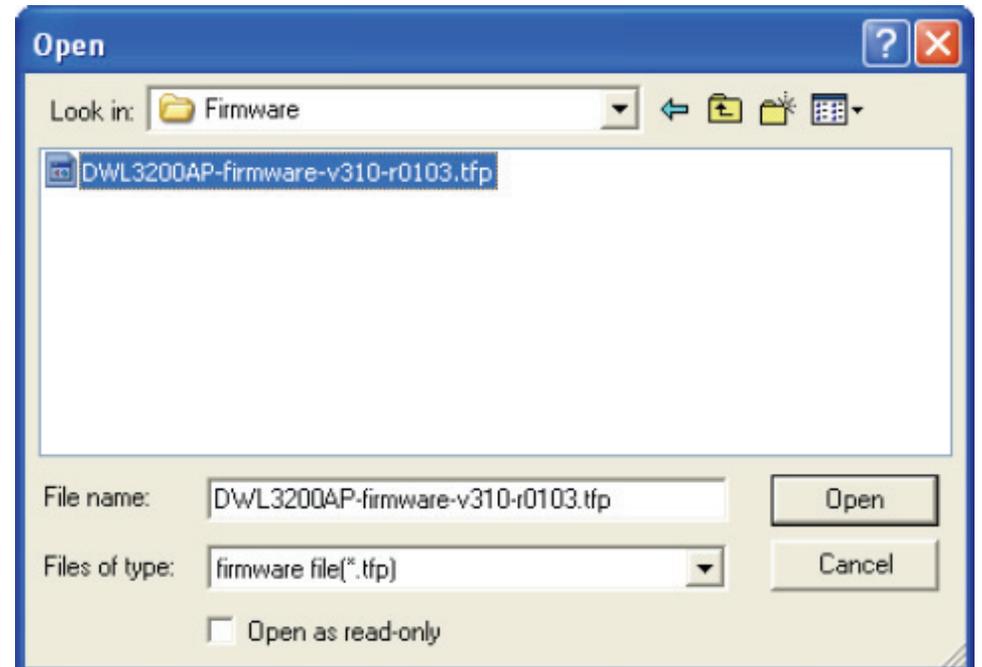


Section 3 - Installation

Select the Access Point's firmware you wish to upgrade. Click the **Edit** field. A new window opens prompting you to search for the new firmware on your PC.

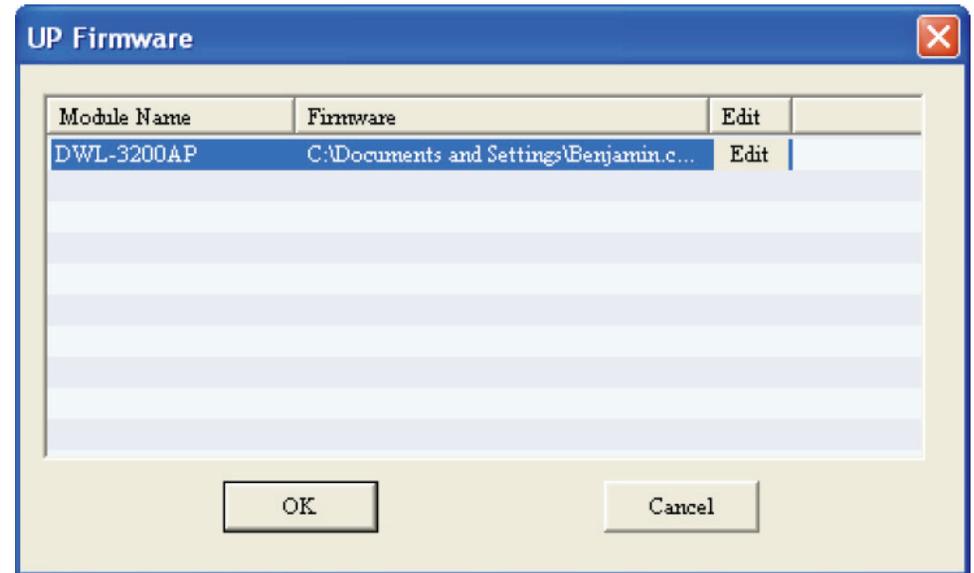


Once you have located the firmware, select it and click **Open**.



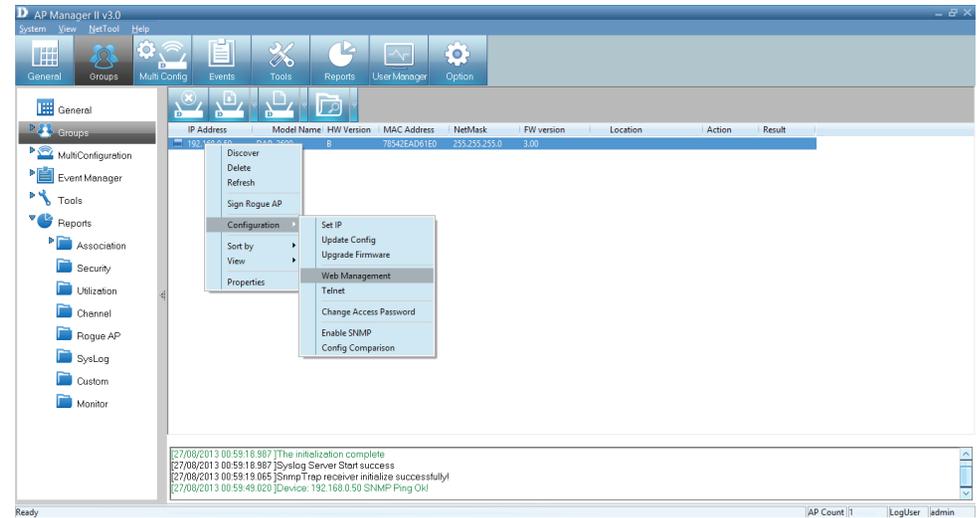
Section 3 - Installation

Upload the firmware to the Access Point. Click **OK** to continue.

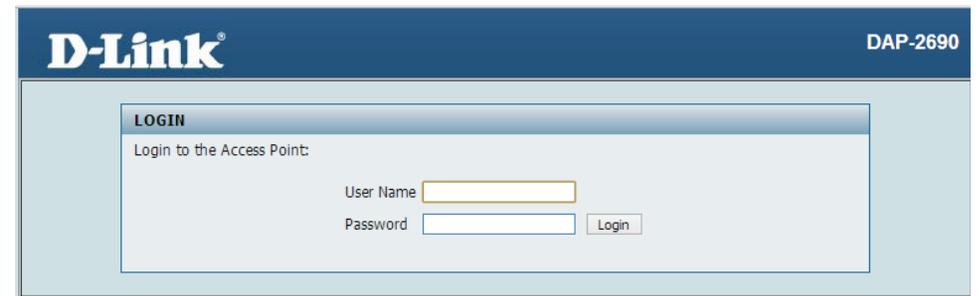


Configuration - Web Management

Right-click the device, go to **Configuration**, and click **Web Management**.

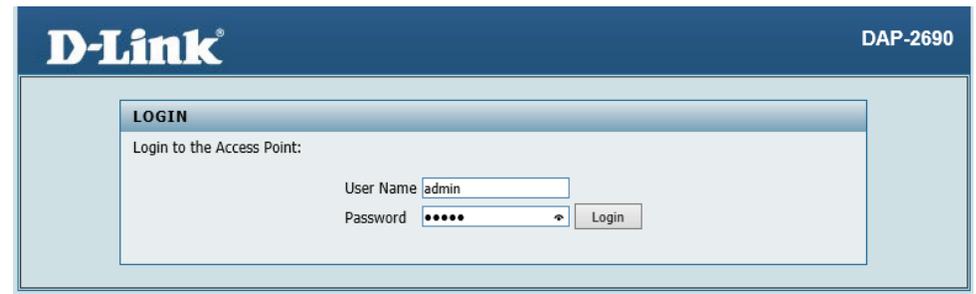


Enter a User name and Password into the fields provided and click OK. Your PC's web browser will open and the Access Point's IP address will be entered into the address field. You can configure the Access Point using its built-in web-based manager as you would normally.



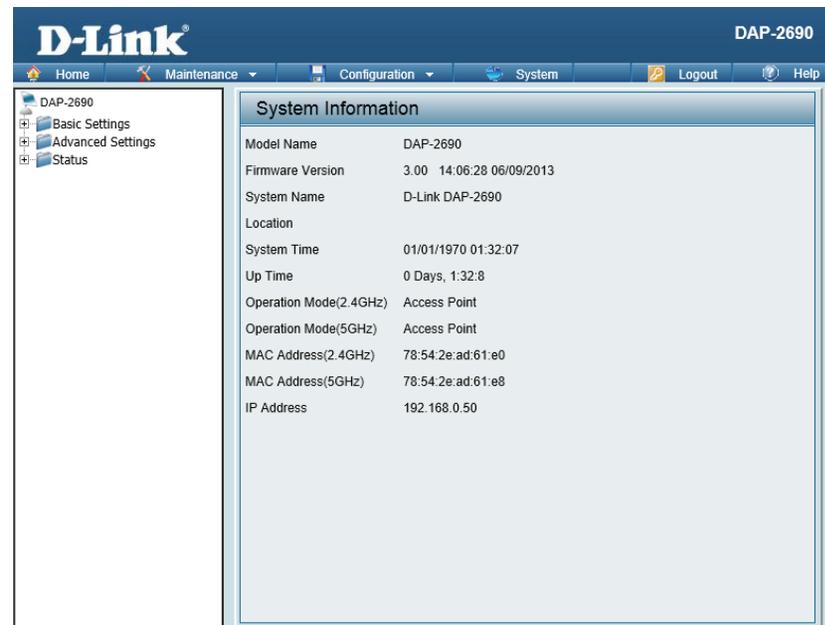
Section 3 - Installation

Enter the Username and Password details.



The image shows the login page of the D-Link DAP-2690 web interface. The page has a blue header with the D-Link logo on the left and 'DAP-2690' on the right. Below the header is a white box with a blue border containing the 'LOGIN' section. The text 'Login to the Access Point:' is followed by two input fields: 'User Name' with the value 'admin' and 'Password' with masked characters '••••'. A 'Login' button is positioned to the right of the password field.

This launches the browser interface.

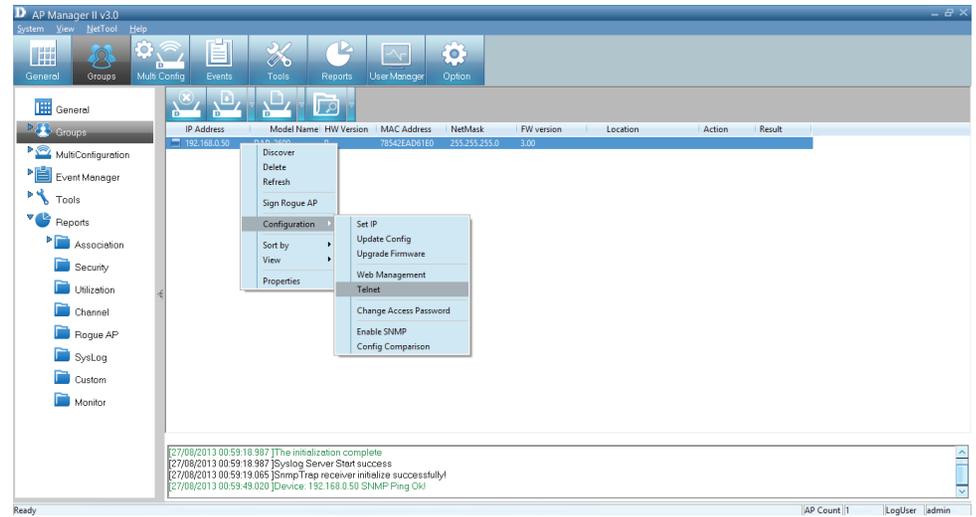


The image shows the 'System Information' page of the D-Link DAP-2690 web interface. The page has a blue header with the D-Link logo on the left and 'DAP-2690' on the right. Below the header is a navigation bar with tabs for 'Home', 'Maintenance', 'Configuration', 'System', 'Logout', and 'Help'. On the left side, there is a sidebar menu with 'DAP-2690' selected, and sub-items for 'Basic Settings', 'Advanced Settings', and 'Status'. The main content area displays the following system information:

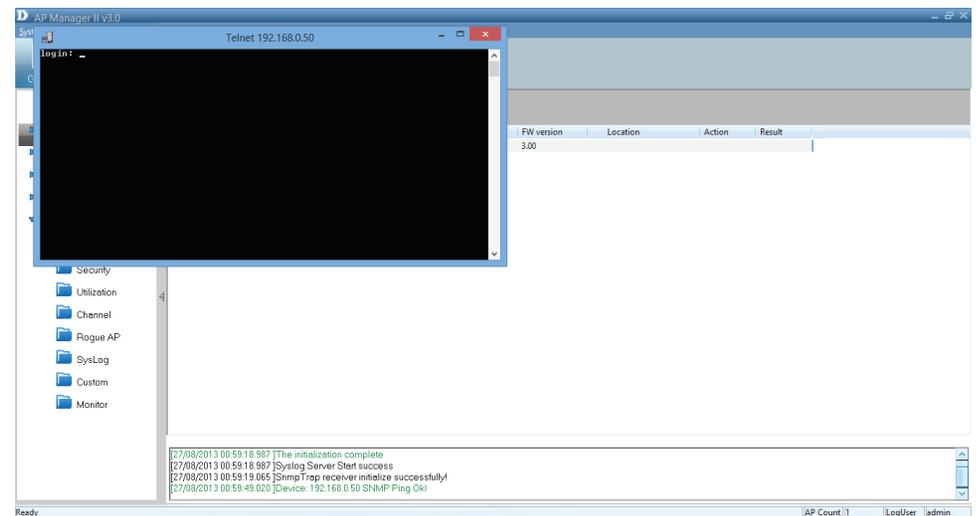
Model Name	DAP-2690
Firmware Version	3.00 14:06:28 06/09/2013
System Name	D-Link DAP-2690
Location	
System Time	01/01/1970 01:32:07
Up Time	0 Days, 1:32:8
Operation Mode(2.4GHz)	Access Point
Operation Mode(5GHz)	Access Point
MAC Address(2.4GHz)	78:54:2e:ad:61:e0
MAC Address(5GHz)	78:54:2e:ad:61:e8
IP Address	192.168.0.50

Configuration - Telnet

Right-click the device, go to **Configuration**, and click **Telnet**.

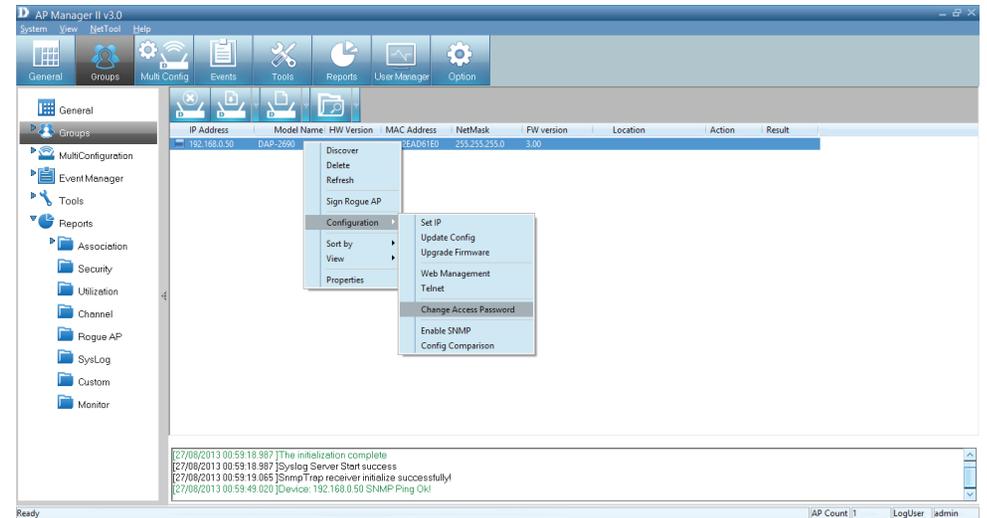


Once you have clicked Telnet, it opens the Command Prompt. This gives you access to the built-in Telnet CLI Manager. Type in the Username and Password in the console manager.

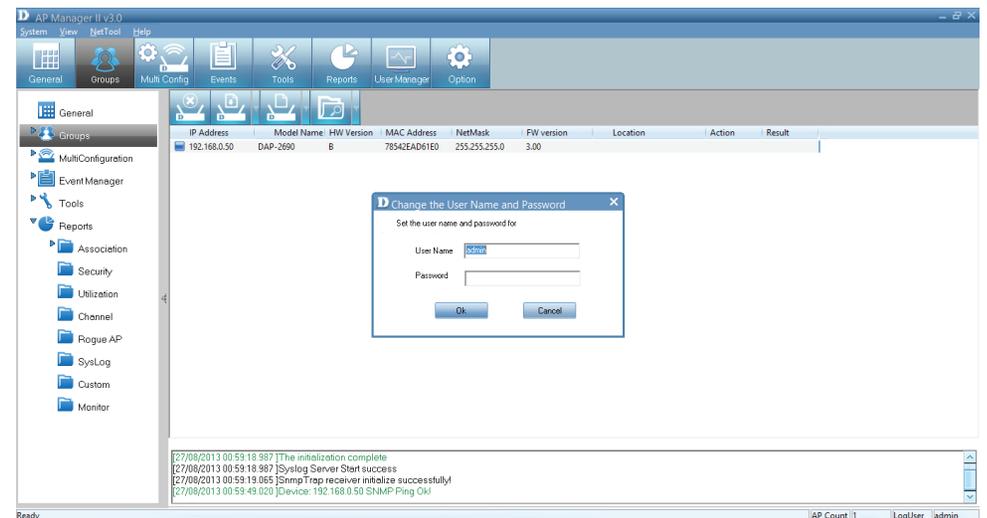


Configuration - Change Access Password

Right-click the device, go to **Configuration**, and click **Change Access Password**.

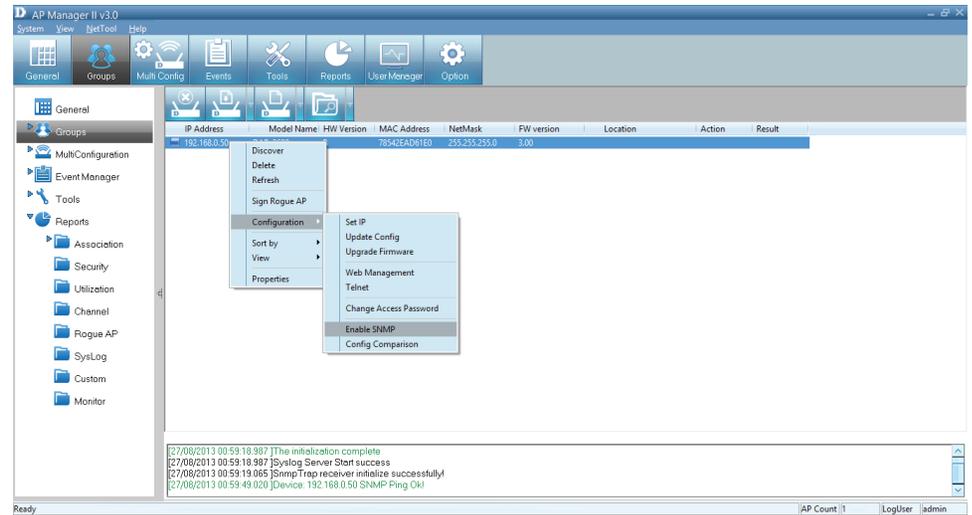


The **Change Username and Password** window asks you to enter the new **Username and Password** details. Click **OK** when complete to continue.

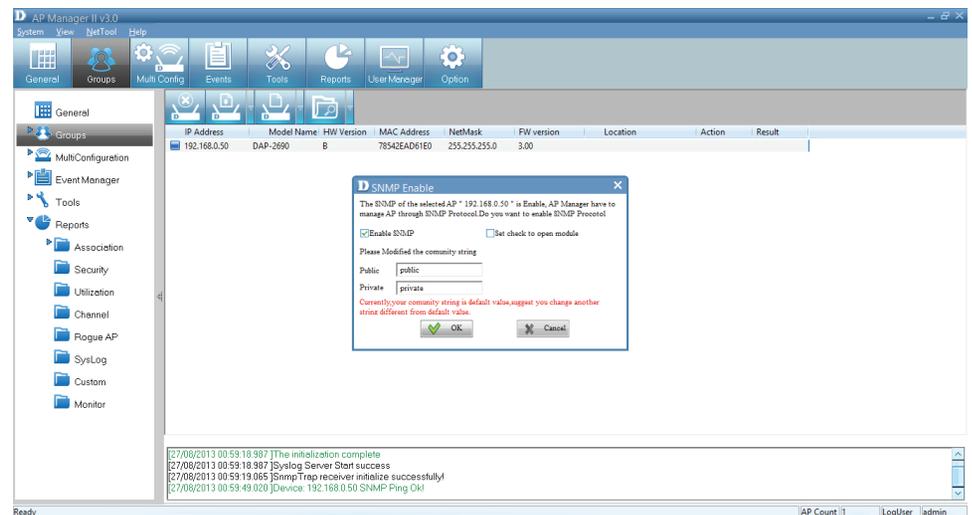


Configuration - Enable SNMP

Right-click the device, go to **Configuration**, and click **Enable SNMP**.

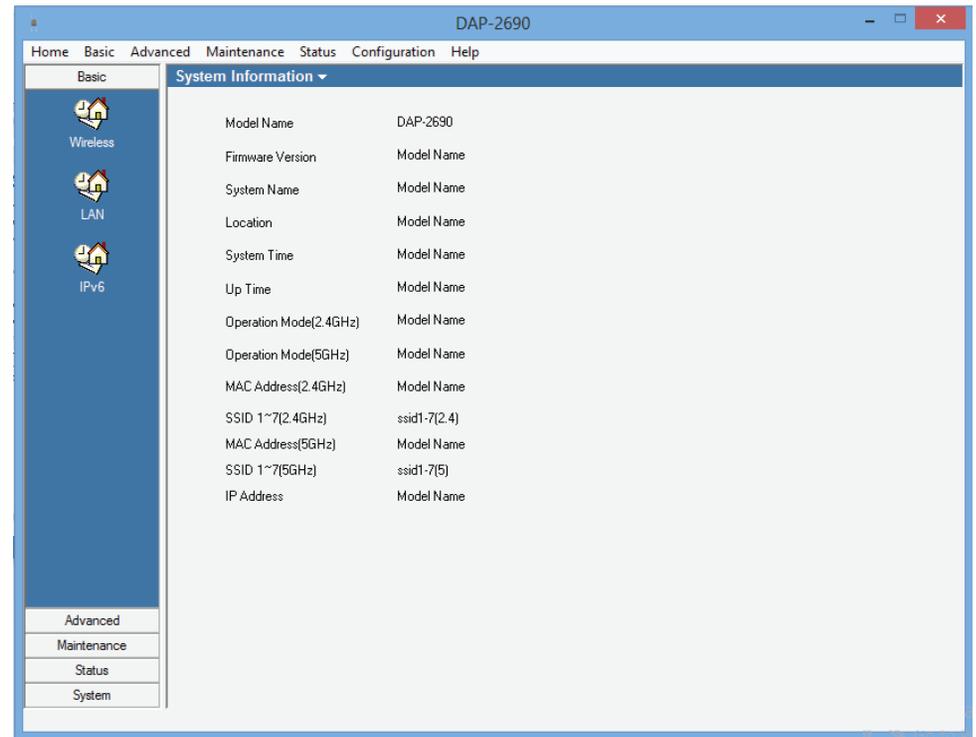


Under the **SNMP Enable Manager**, click the checkbox to **Enable SNMP**. Click the **Set check to open module** checkbox if you need this application. Enter the **Public** and **Private** data in the fields provided and click **OK** to complete.



Section 3 - Installation

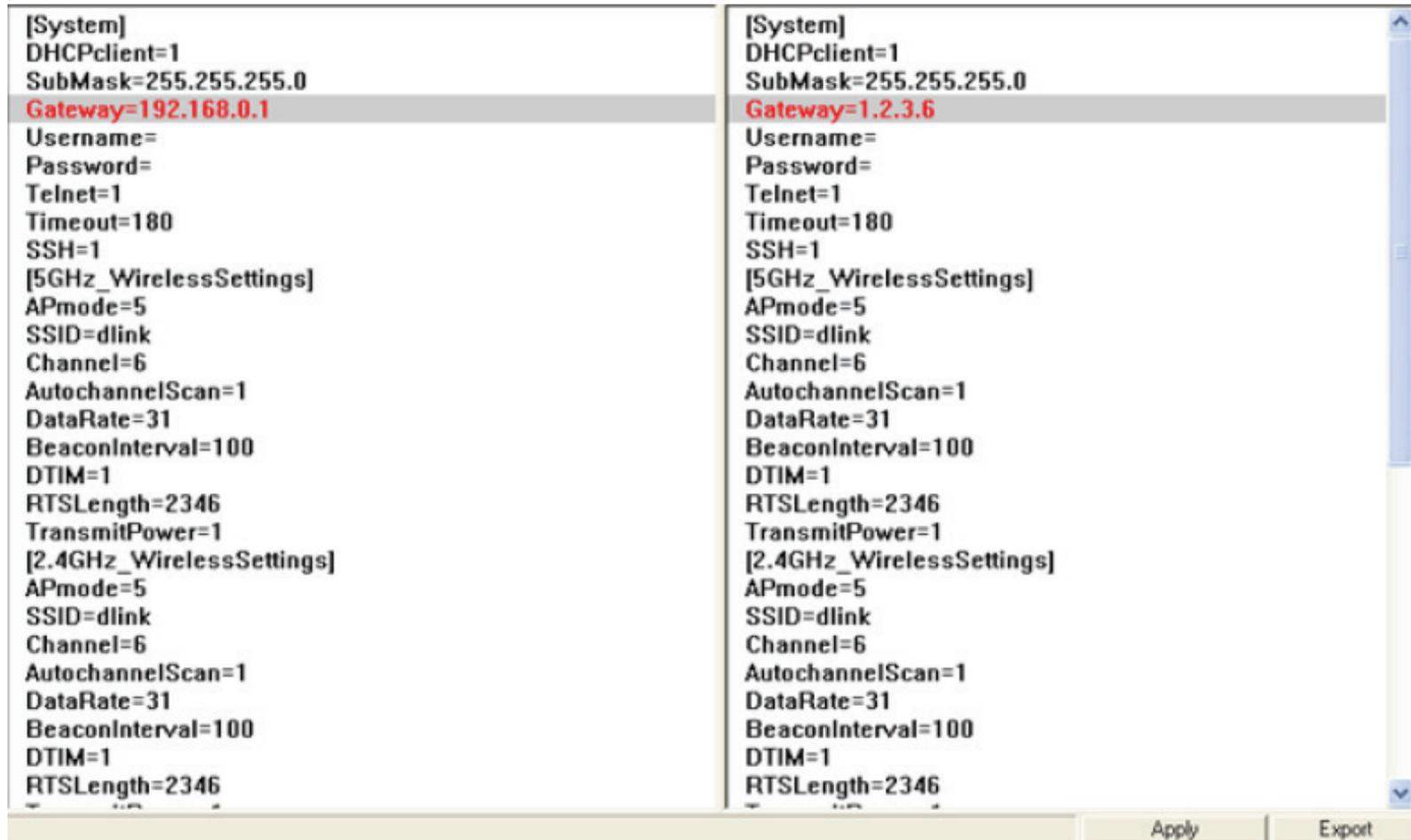
The D-Link Manager software opens and you can configure it using this tool.



Configuration - Configuration Comparison

Right-click the device, go to **Configuration**, and click **Config Comparison**.

Config Comparison needs two Access Points to work. Compare each configuration option against the other Access Point. Click **Apply** to continue.



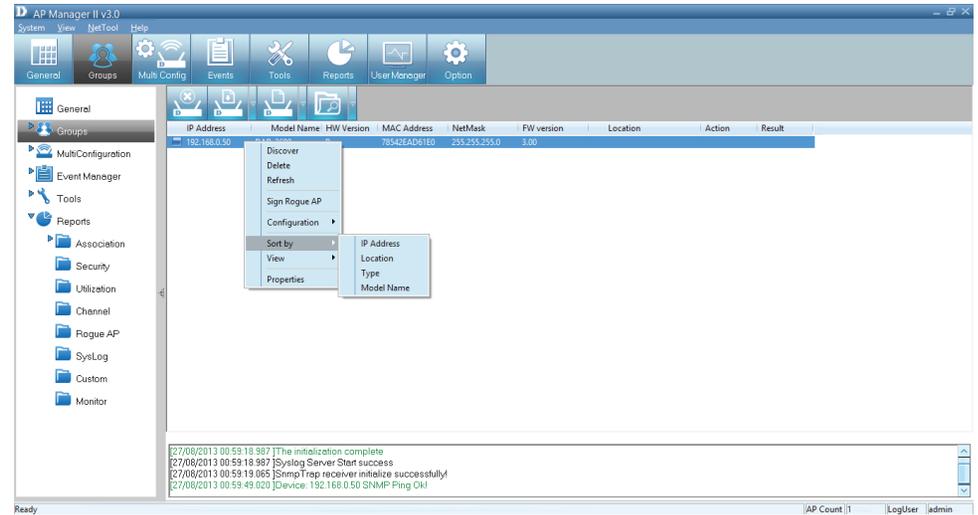
Configuration 1 (Left)	Configuration 2 (Right)
[System]	[System]
DHCPclient=1	DHCPclient=1
SubMask=255.255.255.0	SubMask=255.255.255.0
Gateway=192.168.0.1	Gateway=1.2.3.6
Username=	Username=
Password=	Password=
Telnet=1	Telnet=1
Timeout=180	Timeout=180
SSH=1	SSH=1
[5GHz_WirelessSettings]	[5GHz_WirelessSettings]
APmode=5	APmode=5
SSID=dlink	SSID=dlink
Channel=6	Channel=6
AutochannelScan=1	AutochannelScan=1
DataRate=31	DataRate=31
BeaconInterval=100	BeaconInterval=100
DTIM=1	DTIM=1
RTSLength=2346	RTSLength=2346
TransmitPower=1	TransmitPower=1
[2.4GHz_WirelessSettings]	[2.4GHz_WirelessSettings]
APmode=5	APmode=5
SSID=dlink	SSID=dlink
Channel=6	Channel=6
AutochannelScan=1	AutochannelScan=1
DataRate=31	DataRate=31
BeaconInterval=100	BeaconInterval=100
DTIM=1	DTIM=1
RTSLength=2346	RTSLength=2346

Buttons: Apply, Export

Sorting

Right-click the device, go to **Sort By**

You can change the order of the **Access Points** by **IP Address, Location, Type, and Model Name.**



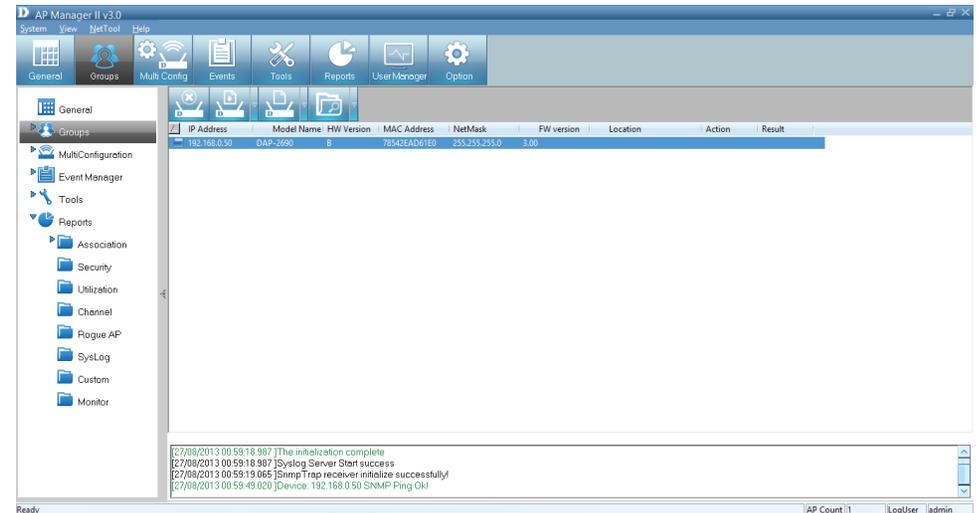
Once you have selected the sorting option, a **grey arrow** is placed beside it to represent its designation.

IP Address: Sorts by IP Address column

Location: Sorts by Location column

Type: Sorts by either Managed, Unmanaged or Rogue Access Point.

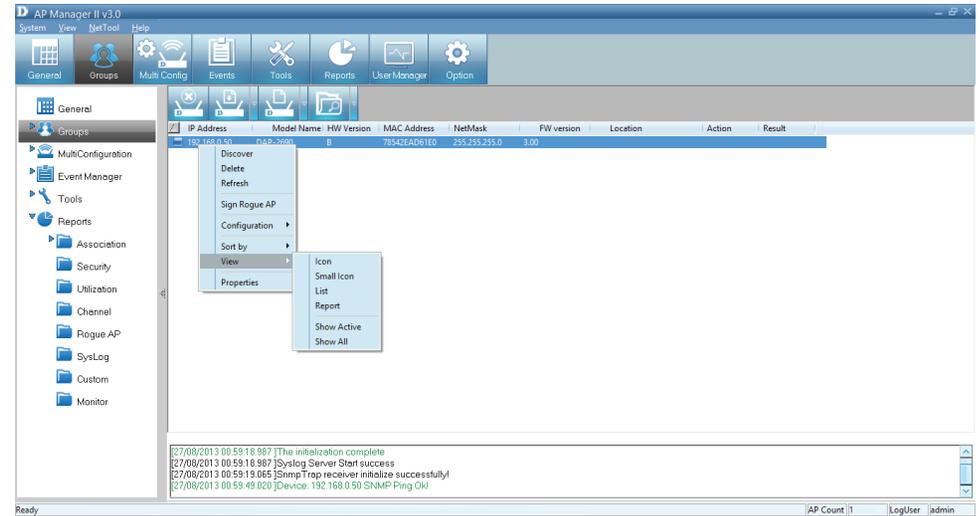
Model Name: Sorts by Access Point model name.



View Mode

Right-click the device, go to **View**

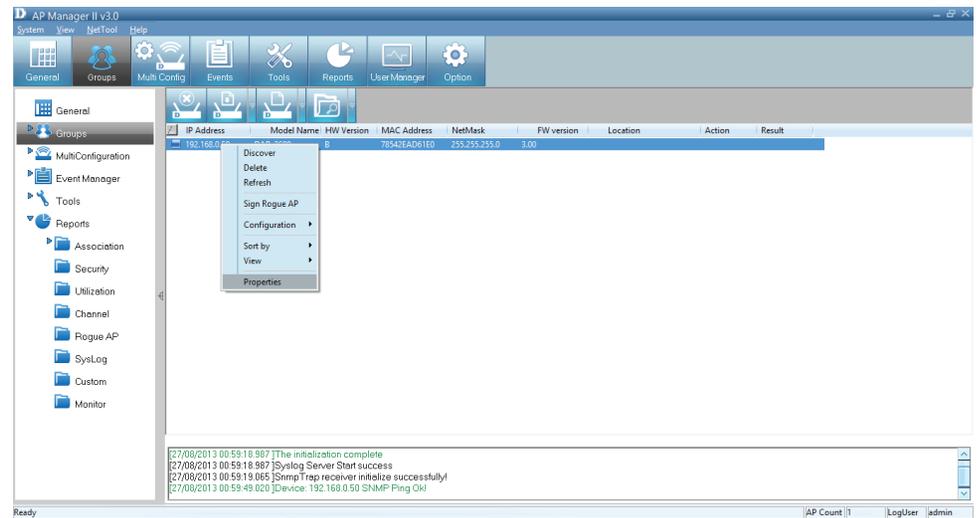
You can **view** the Access Points based on different parameters. The options are: **Icon**, **Small Icon**, **List**, **Report**, **Show Active**, and **Show All**.



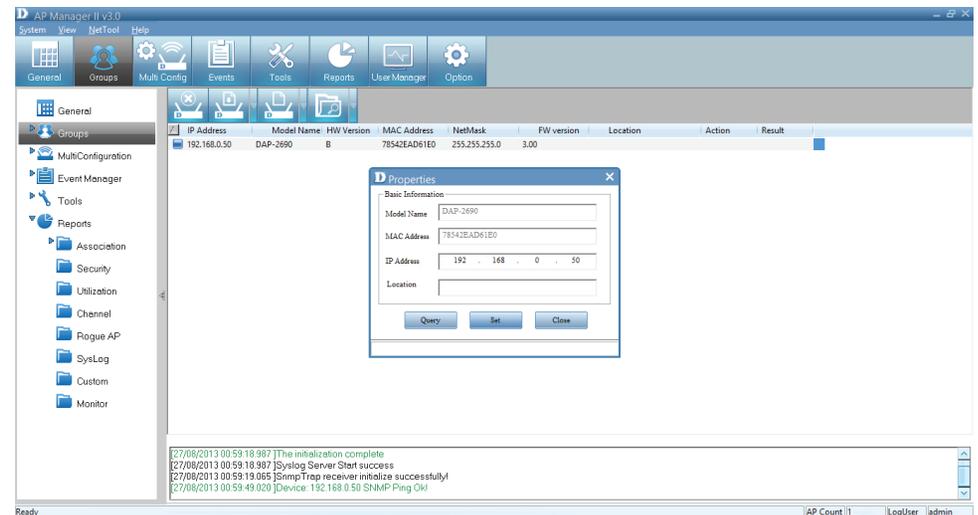
Properties

Right-click the device, go to **Properties**

The **Properties** parameter allows you to manage and view the properties of each Access Point on the network.

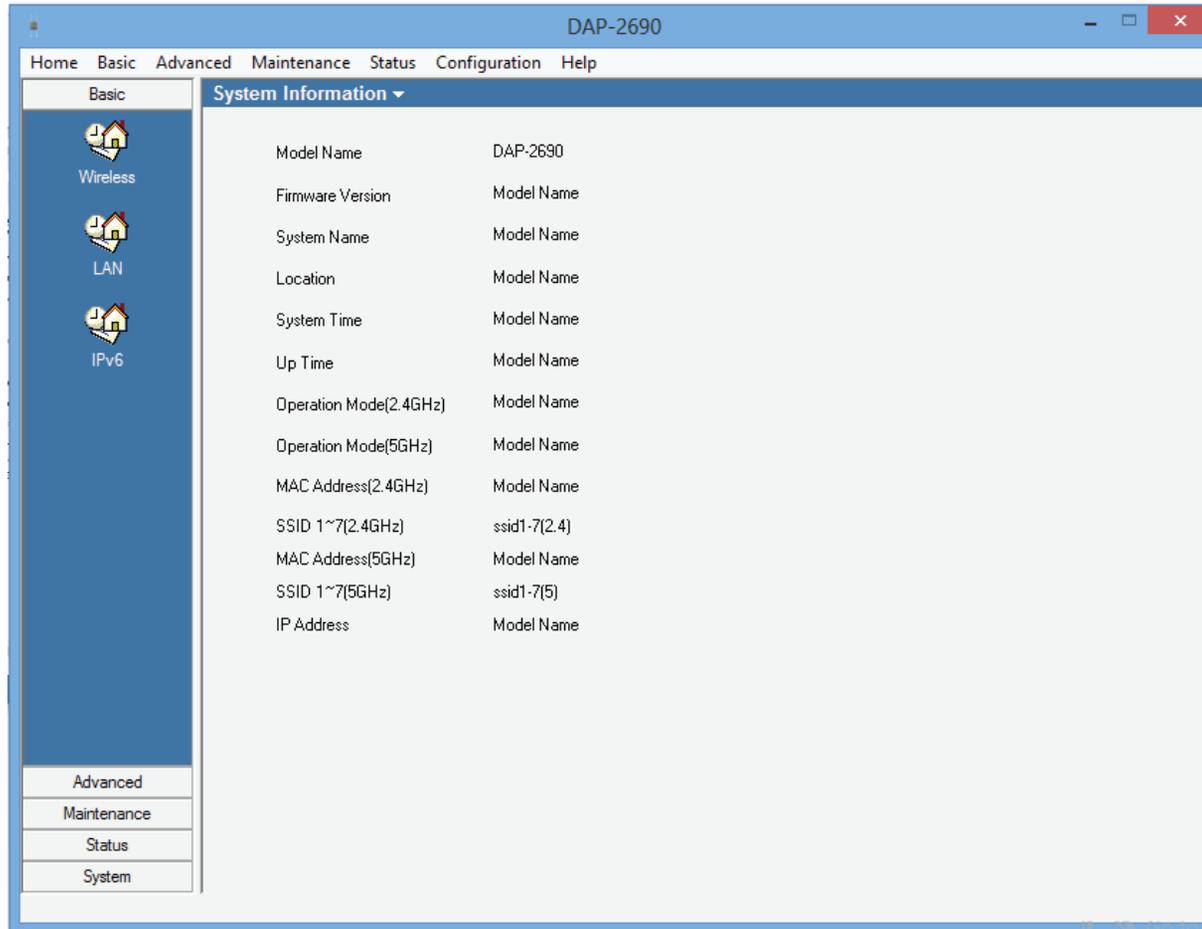


You can enter a description string in the **Location** textbox to describe the Access Point and then click the **Set** button to apply the changes.



The Access Point Manager II v3.0

The Access Point Manager is the main tool used to configure each Access Point. Users can save and load configuration files. When the files are loaded, you must click Apply if you want the settings to be applied to the selected device(s).

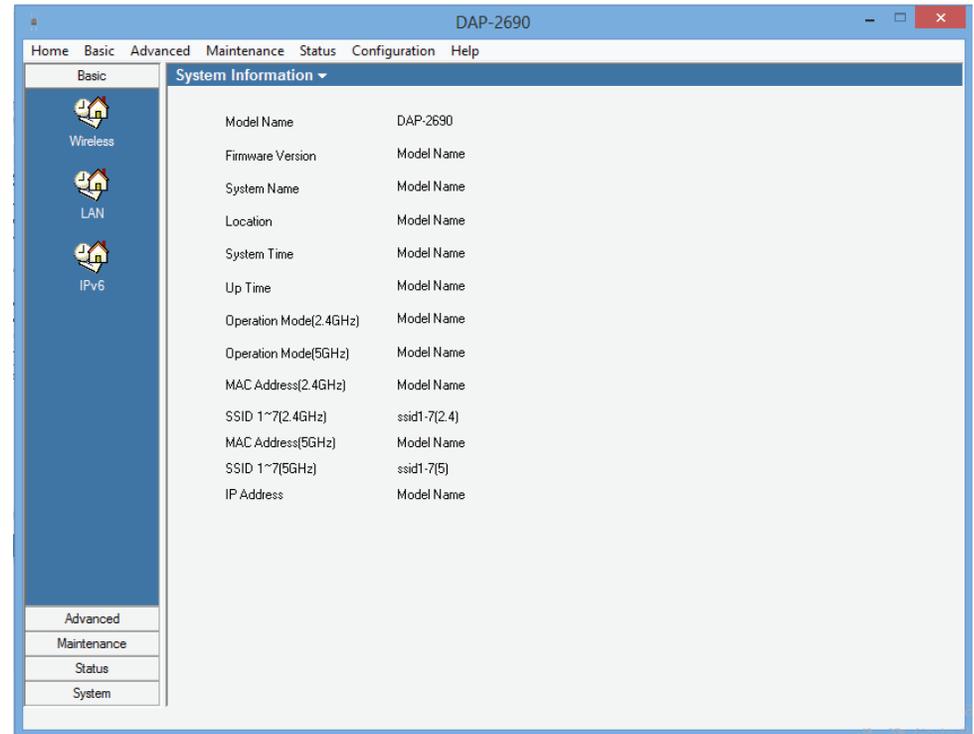


Navigate any Access Point configuration using the menu on the left side of the window. This menu contains the following sections: **Basic**, **Advanced**, **Maintenance**, **Status**, and **System**. These sections and their menus will be discussed in detail in the following pages.

The Home Panel

The Home > System Information page contains basic configuration information about the Access Point being configured. The information available are:

Model Name
Firmware Version
System Name
Location
System Time
Up Time
Operation Mode (2.4GHz)
Operation Mode (5GHz)
MAC Address (2.4GHz)
SSID 1~7 (2.4GHz)
MAC Address (5GHz)
SSID 1~7 (5GHz)
IP Address



There will be minor differences when using AP Manager II with a single band AP and a dual band AP.

This manual references both 802.11g and 802.11n configuration settings.

Basic - Wireless

The screenshot displays the DAP-2690 web interface. The title bar shows 'DAP-2690'. The navigation menu includes 'Home', 'Basic', 'Advanced', 'Maintenance', 'Status', 'Configuration', and 'Help'. The 'Basic' section is expanded, showing 'Wireless', 'LAN', and 'IPv6' options. The 'Wireless' configuration page is active, showing the following settings:

- Wireless Band: 2.4GHz
- Mode: Access Point
- Network Name (SSID): Default
- SSID Visibility: Enable
- Auto Channel Selection: Enable
- Channel: 1
- Channel Width: 20MHz
- Authentication: Open System

The 'Key Settings' section is expanded, showing the following options:

- Encryption: Disable Enable
- Key Type: HEX
- Key Size: 64 Bits
- Key Index(1~4): 1
- Network Key: [Empty text box]
- Confirm Key: [Empty text box]

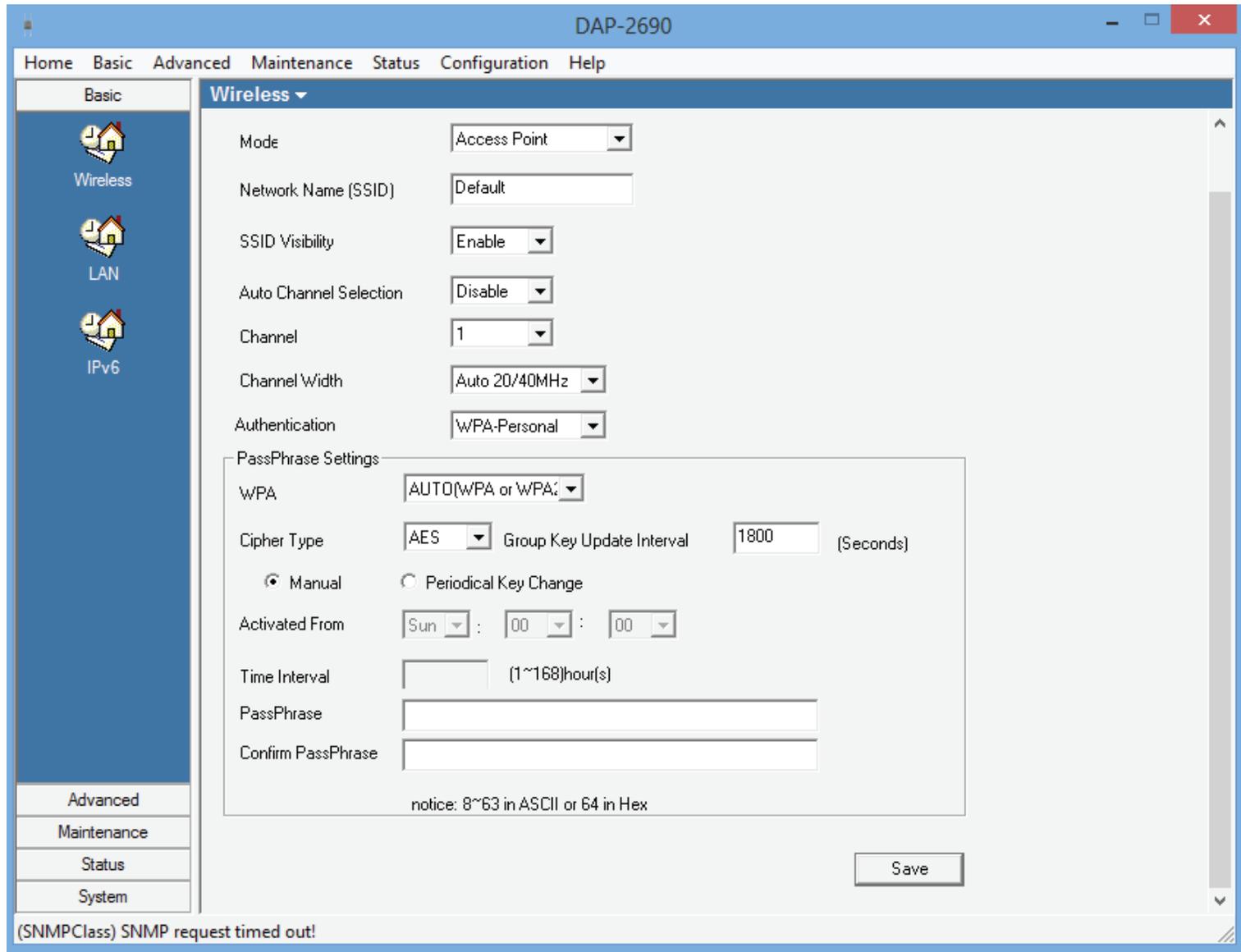
A 'Save' button is located at the bottom right of the configuration area.

Section 3 - Installation

COMPONENT	DESCRIPTION
Wireless Band	Select between 2.4GHz or 5GHz frequency
Mode	Select the Wireless mode. Options include, Access Point, WDS with AP, WDS, and Wireless Client
Network Name (SSID)	The Service Set (network) Identifier of your wireless network
SSID Visibility	Enable to allow others to see it or select Disable to make it invisible to others
Auto Channel Selection	Select Enable for it to be auto select. Select Disable to manually select channels
Channel	Select between 1-3 Allows you to select a channel or set the Access Point to auto scan channels. 802.11g may not be set manually in certain regions (e.g. Europe and USA) in order to comply with DFS (Dynamic Frequency Selection) regulations.
Channel Width	Select the frequency range 20MHz or Auto 20/40MHz
Authentication	Select the security method: Open System, Shared Key, WPA-Personal, WPA-Enterprise, and 802.1x Select Open System/Shared Key to allow either form of data encryption. Select WPA-Enterprise to secure your network with the inclusion of a RADIUS server. Select WPA-Personal to secure your network using a password and dynamic key changes. (No RADIUS server required.) Select WPA2-Enterprise to secure your network with the inclusion of a RADIUS server and upgrade the encryption of data with the Advanced Encryption Standard (AES). Select WPA2-Personal to secure your network using a password and dynamic key. No RADIUS server is required and encryption of data is upgraded with the Advanced Encryption Standard (AES). Select WPA-Auto-Enterprise to allow the client to either use WPA-Enterprise or WPA2-Enterprise. Select WPA-Auto-Personal to allow the client to either use WPA-Personal or WPA2-Personal.
Key Settings Encryption	Select Disable or Enable
Key Type	When enabled, select between ASCII and HEX and the key size either 64bit or 128bit
Key Index (1-4)	Select between 1-4
Network Key	Ask your administrator about this or type in the details provided in the field
Confirm Key	Repeat the details as entered above
Save	Click this button to save your work

WIRELESS - AUTHENTICATION

If one changes the Authentication method under Wireless, one would notice, that when you switch between methods the window below changes. Toggle between different network authentication methods to determine your settings. For WPA-Personal, the image below shows the options available.



Section 3 - Installation

COMPONENT	DESCRIPTION
PassPhrase Settings	Toggle between Auto (WPA or WPA2), WPA2 only and WPA only.
Cipher Type	Select Auto, TKIP, or AES from the drop-down menu
Group Key Update Interval	Select the interval validity. 1800 is the recommended setting. A lower interval may reduce transfer rates.
Passphrase	Enter a PassPhrase between 8-63 characters in length.

PassPhrase Settings

WPA

Cipher Type Group Key Update Interval (Seconds)

Manual Periodical Key Change

Activated From : :

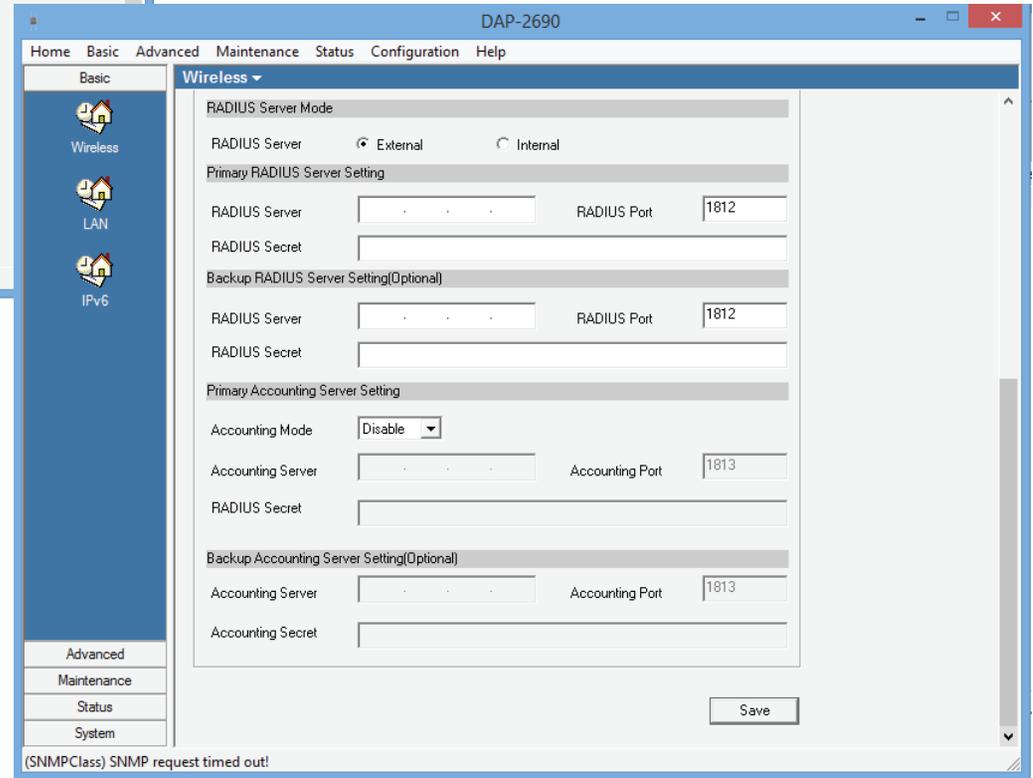
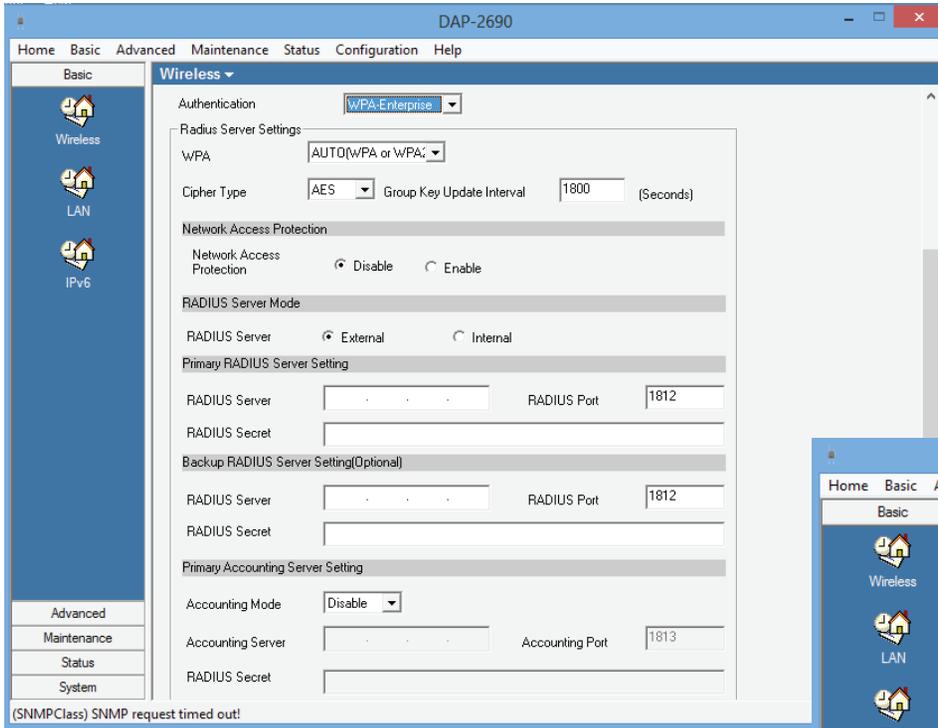
Time Interval (1~168)hour(s)

PassPhrase

Confirm PassPhrase

notice: 8~63 in ASCII or 64 in Hex

WPA-ENTERPRISE



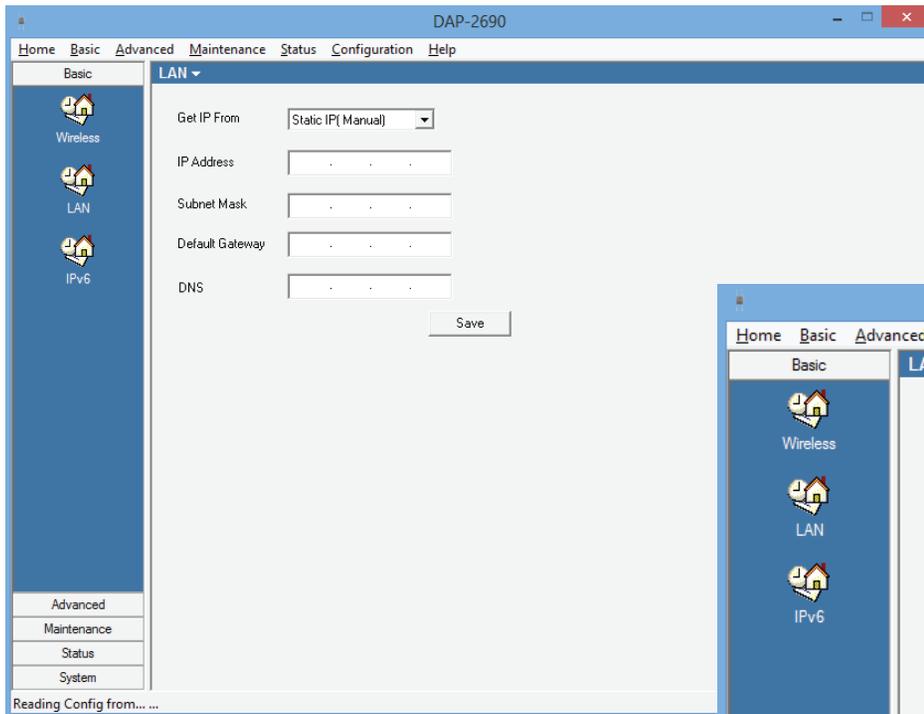
WPA-ENTERPRISE

COMPONENT	DESCRIPTION
WPA	Toggle between Auto (WPA or WPA2), WPA2 only and WPA only.
Cipher Type	AES
Group Key Update Interval	Select the interval validity. 1800 is the recommended setting. A lower interval may reduce transfer rates.
Network Access Protection	Select to Enable or Disable this function
Radius Server Mode	RADIUS Server - Select External or Internal
Primary RADIUS Server Settings	Enter the IP address of the RADIUS server
RADIUS Port	Enter the port used on the RADIUS server
RADIUS Secret:	Enter the RADIUS secret.
Accounting Mode	Click to Enable or Disable
Accounting Server:	Enter the IP address of the Accounting server.
Accounting Port:	Enter the port used on the Accounting server.
Backup Accounting Server Settings	Accounting Server, Accounting Port, and Accounting Secret

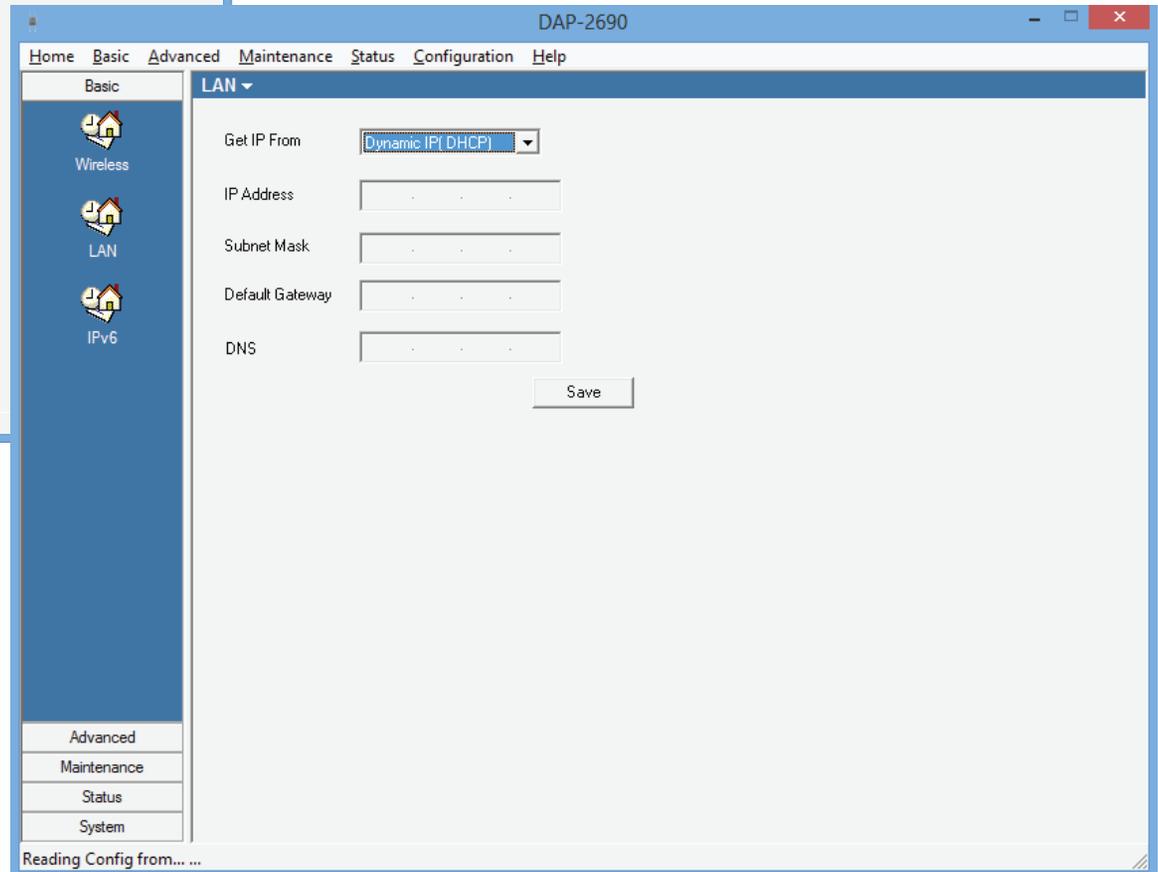
Basic - LAN

Connect your Access Point to a LAN connection with Static IP or Dynamic IP. With Static you will need to enter the details manually. Whereas with Dynamic, setting IP's are automatic, assigned by your default router.

Note: Before beginning with Static configuration, know the following: **IP range, Subnet Mask, Default Gateway, and DNS settings.**

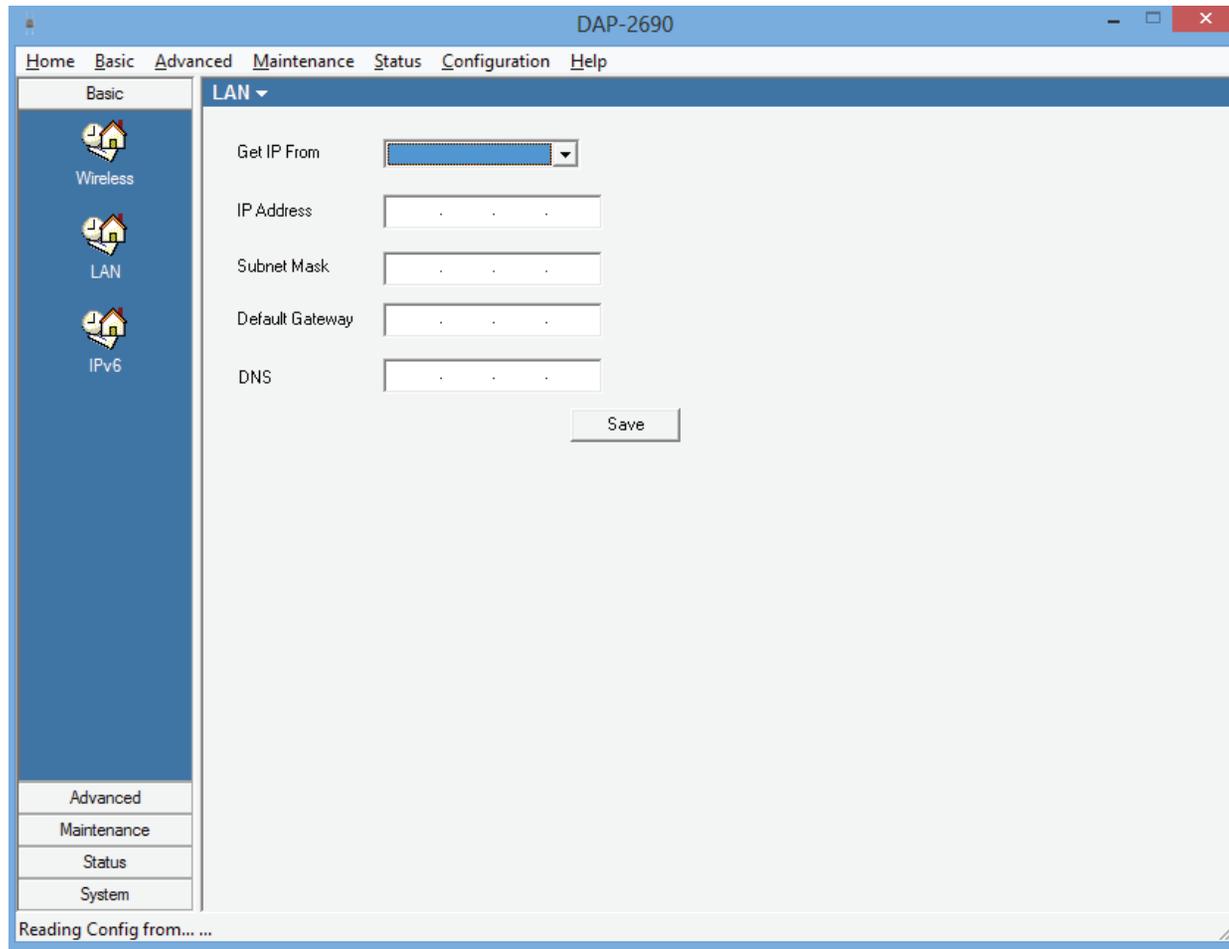


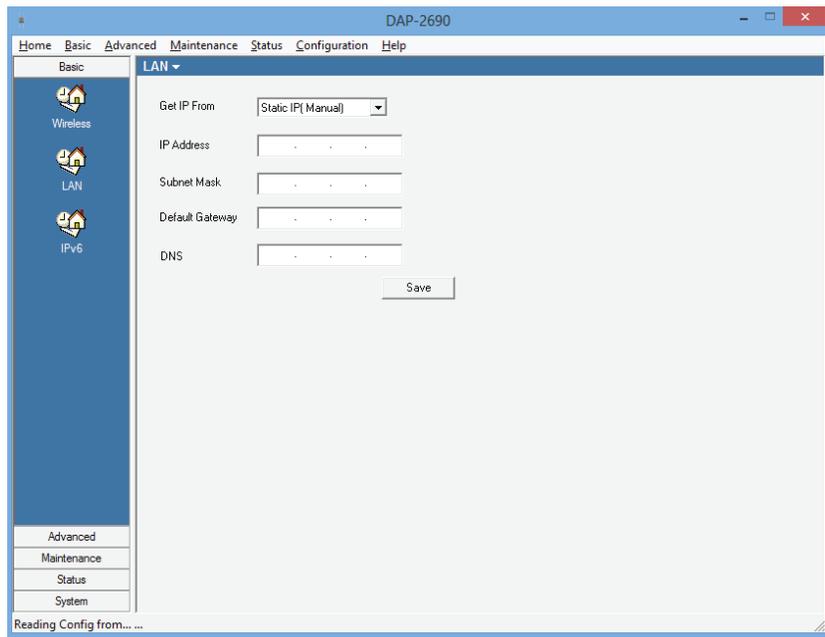
Note: The Access Point acts as a DHCP client, receiving its IP from the DHCP server.



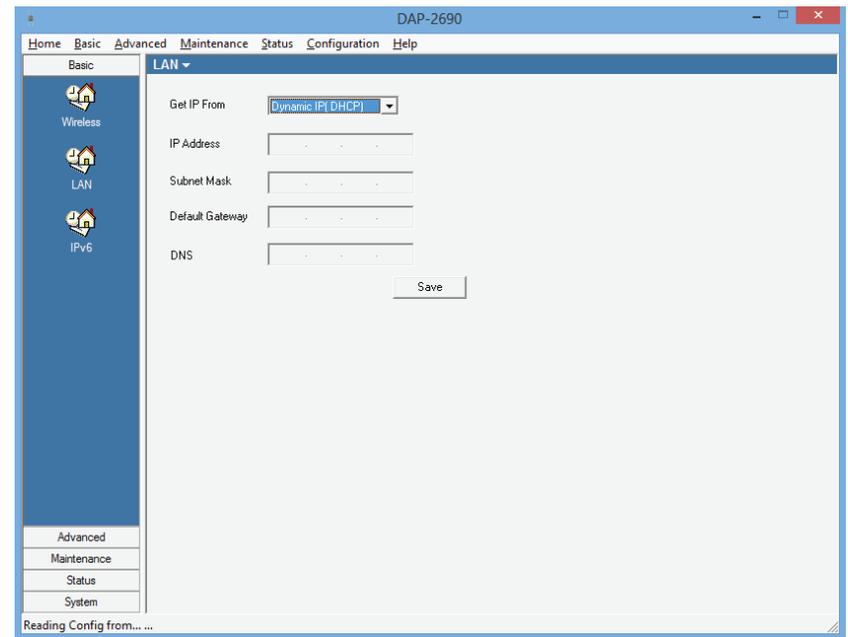
Basic - IPv6

What is IPv6? - The familiar IP addresses that are assigned to practically every device that can access the Internet— computers, smartphones, cameras—follow the IPv4 naming scheme which was developed in 1977. The 32-bit system, which follows the xxx.xxx.xxx.xxx pattern, with each set of numbers ranging from 0 to 254, is capable of generation up to 4.3 billion possible addresses. IPv4 systems and IPv6 systems can run in parallel, the newer standard is not backwards-compatible. A user on the IPv6 network with an IPv6 address is limited to accessing Websites and services that also have an IPv6 address.





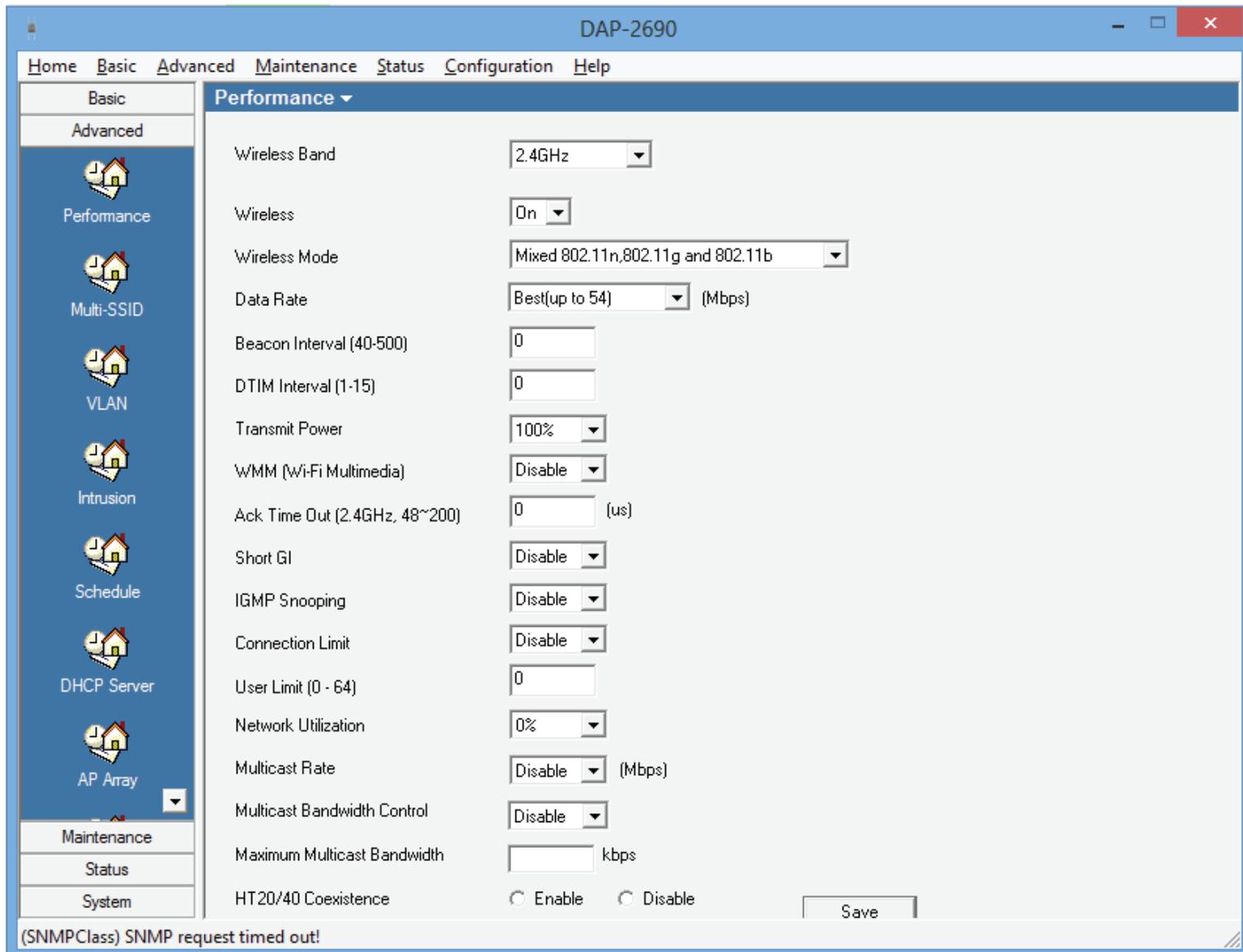
Static IP - Enter the details manually.



Dynamic IP - Have the DHCP server assign an IP to the Access Point

Advanced - Performance

Handles the connection speed options.



Section 3 - Installation

COMPONENT	DESCRIPTION
Wireless Band	Select between 2.4GHz and 5GHz
Wireless	Select On/Off
Wireless Mode	Mixed 802.11n, 802.11g, and 802.11b/ 802.11g, and 802.11b/ 802.11n Only
Data Rate	up to 54Mbps
Beacon Interval	Beacons are packets sent by an access point to synchronize a network. Specify the beacon value for the selected device(s) here. The default value of 100 is recommended
DTIM Interval (1-15)	DTIM (Delivery Traffic Indication Message) is a countdown informing clients of the next listening window for broadcast and multicast messages.
Transmit Power	Range from 12.5% - 100%
WMM (Wi-Fi Multimedia)	Select Enable/Disable, (Wi-Fi Multimedia) Improves the user experience for audio, video, and voice applications over a Wi-Fi network. WMM is based on a subset of the IEEE 802.11e WLAN QoS standard.
Ack Time Out (2.4GHz, 48-200)	Select the time-out range
Short GI	Select Enable/Disable
IGMP Snooping	Select Enable/Disable
Connection Limit	Select Enable/Disable
User Limit (0-64)	Limit the number of users that access this AP
Network Utilization	Limit how the network is used
Multicast Rate	Select between Disable/ 1/2Mbps
Multicast Bandwidth Control	Select between Enable/Disable
Maximum Multicast Bandwidth	Enter a rate in kbps
HT20/40 Coexistence	Select to Enable or Disable
Save	Click to save all configuration changes

Advanced - Multi-SSID

SSID Configuration - Click the checkbox to Enable Multi-SSID and Enable Priority

The screenshot shows the DAP-2690 web interface with the 'Multi-SSID' configuration page. The 'Enable Multi-SSID' and 'Enable Priority' checkboxes are checked. The 'Wireless Settings' section includes fields for Band (2.4GHz), Index (Primary SSID), SSID (dlink), SSID Visibility (Disable), Security (Open System), Priority (0), and WMM (Wi-Fi Multimedia) (Disable). The 'Key Settings' section includes radio buttons for Encryption (Disable/Enable), Key Type (HEX), Key Size (64 Bits), Key Index (1), Network Key, and Confirm Key. An 'Add' button is visible below the key settings. A table with columns for Index, SSID, Band, Encryption, Edit, and Delete is partially visible at the bottom.

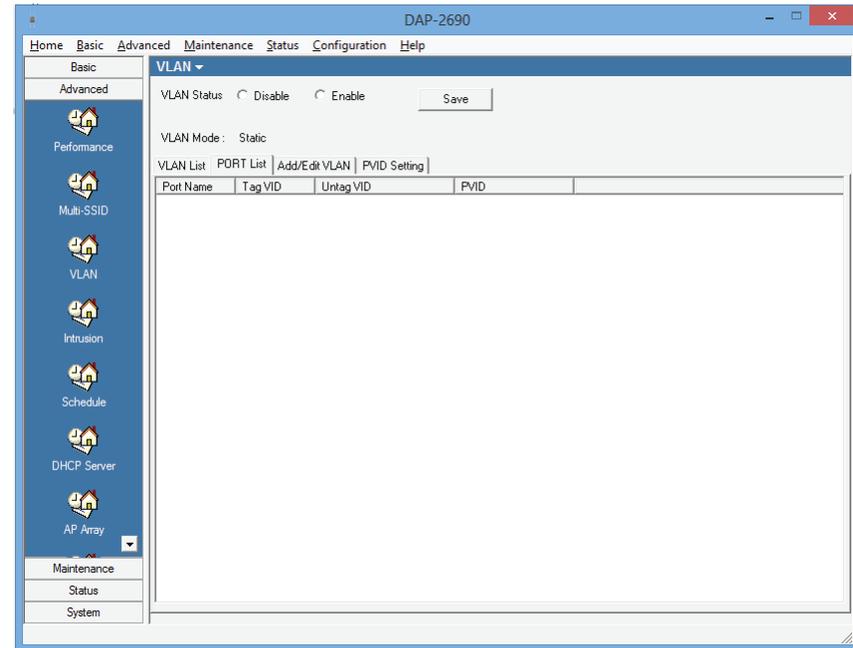
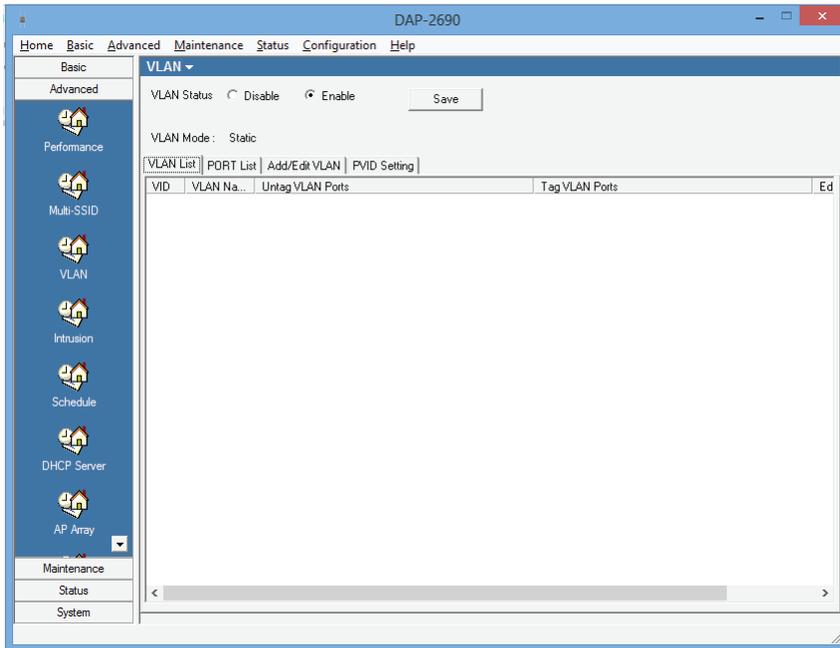
Index	SSID	Band	Encryption	Edit	Delete
-------	------	------	------------	------	--------

Section 4 - Configuration

COMPONENT	DESCRIPTION
Wireless Settings - Band	Select between 2.4GHz and 5GHz
Index	Select between the Primary SSID, SSID 1/2/3/4/5/6/7
SSID	Enter a name in the field provided
SSID Visibility	Select to Enable/Disable
Security	Select between Open System/ WPA-Personal/ WPA-Enterprise/ 802.1x
Priority	Select between 1-7
WMM (Wi-Fi Multimedia)	Select Enable/Disable, (Wi-Fi Multimedia) Improves the user experience for audio, video, and voice applications over a Wi-Fi network. WMM is based on a subset of the IEEE 802.11e WLAN QoS standard.
Key Settings - Encryption	Select to Enable/Disable
Key Type	Select ASCII or HEX
Key Size	64 /128 Bits
Key Index (1-4)	Select between 1-4
Network Key	Enter a key value
Confirm Key	Repeat the key value entry
Add	Click Add to add it to the SSID table
Save	Click Save to activate your configuration options

Advanced - VLAN

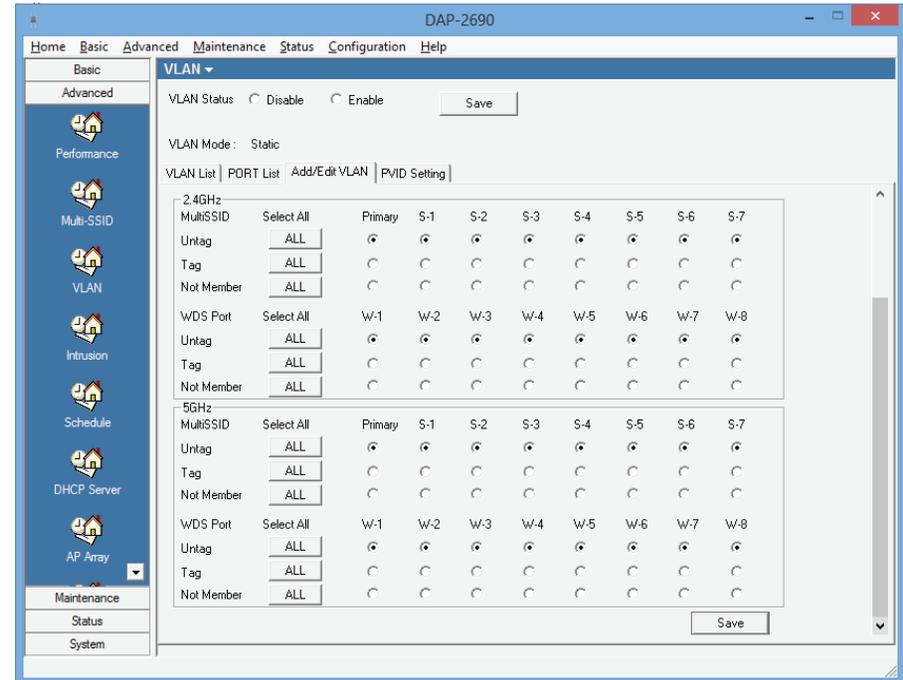
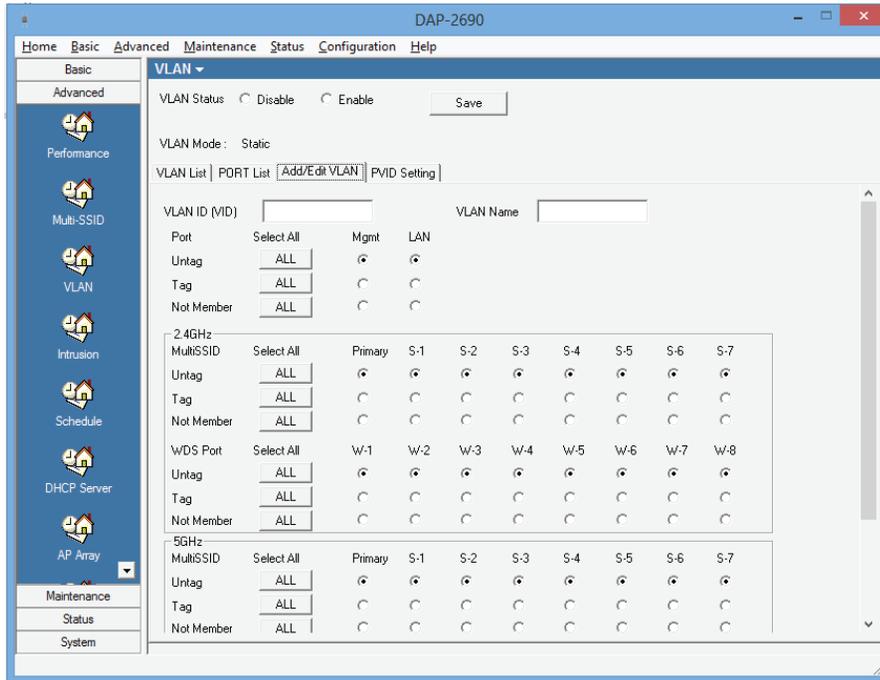
VLAN Configuration - Select to Enable or Disable VLAN settings. VLAN allows for the partitioning of physical networks.



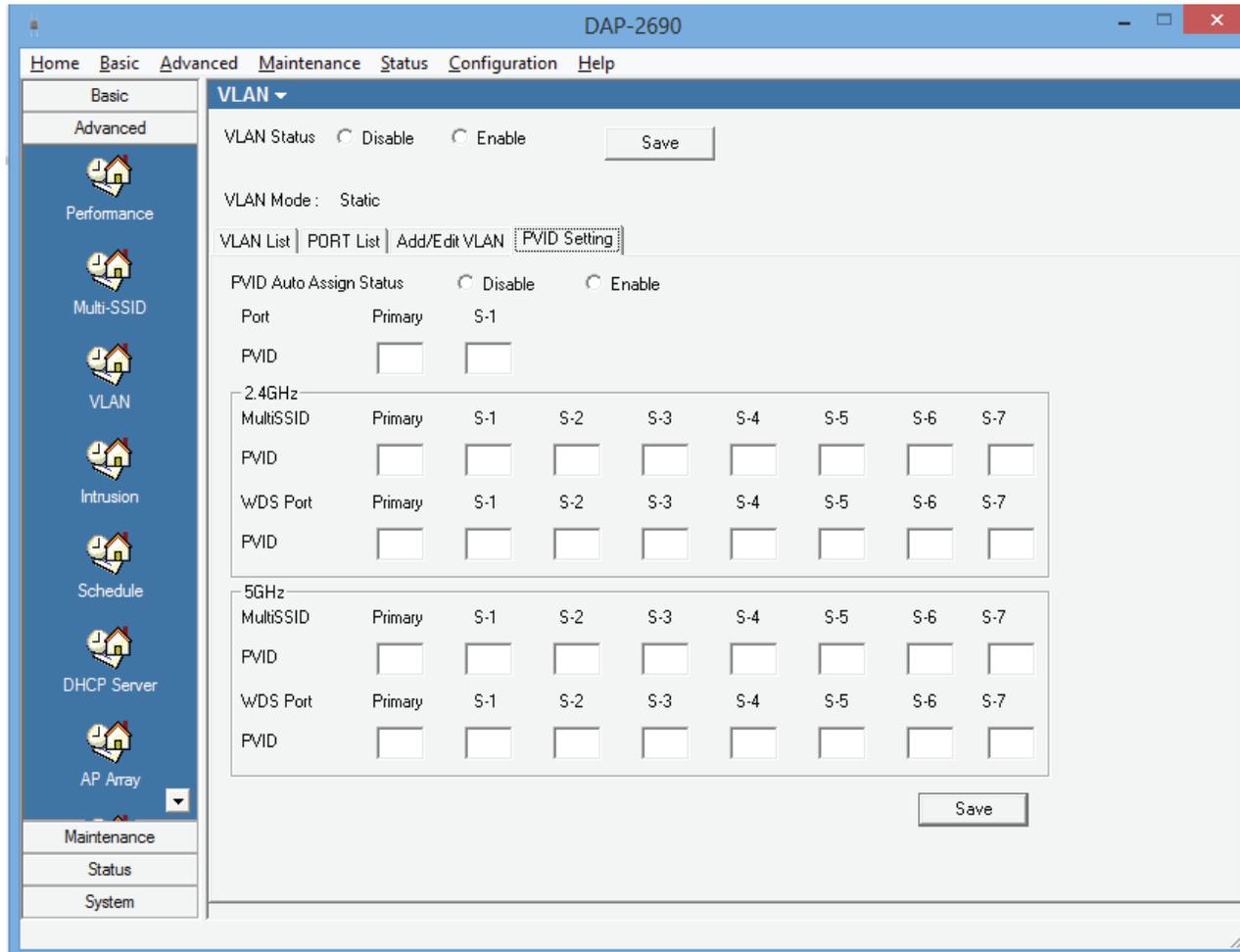
VLAN List - Adding VLAN's populates the VLAN List table.

Port List - Adds ports to the list as it becomes populated.

Advanced - Add/Edit VLAN's



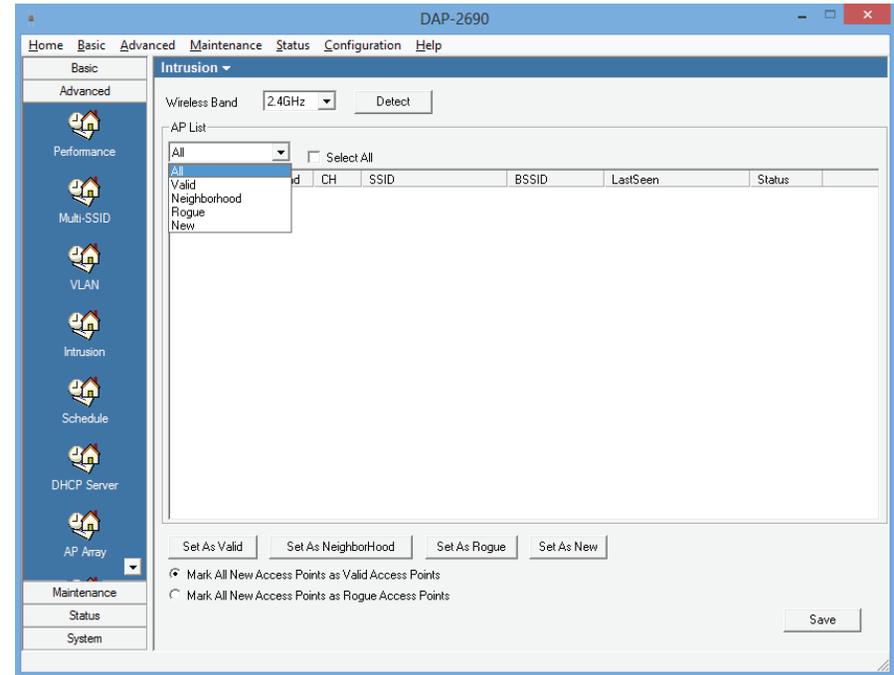
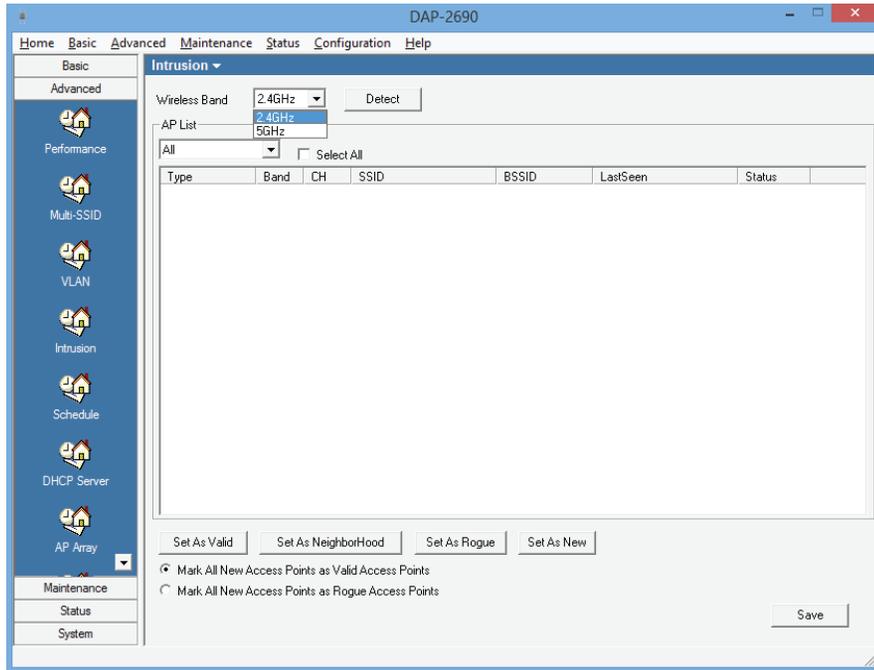
COMPONENT	DESCRIPTION
VLAN ID	Enter an ID for the VLAN
VLAN Name	Enter a name for the VLAN
Port	Select a Port number or select all
2.4GHz MultiSSID	Select an SSID to add to the VLAN
5GHz MultiSSID	Select an SSID to add to the VLAN



COMPONENT	DESCRIPTION
PVID Auto Assign Status	Select Enable/Disable to activate the feature
Port	Select Primary or S-1
PVID	Enter the specific updates
2.4GHz	Select between MultiSSID PVID settings and WDS Port settings
5GHz	Select between MultiSSID PVID settings and WDS Port settings

Advanced - Intrusion

Intrusion Configuration - Select tools to monitor the networks security



COMPONENT	DESCRIPTION
Wireless Band	Select between 2.4GHz and 5GHz then click Detect
AP List	From the drop-down list select All, Valid, Neighborhood, Rogue, and New / Alternatively, click the Select All checkbox

Once you have populated the Intrusion table, select your option by choosing either the **Set as Valid**, **Set as Neighborhood**, **Set as Rogue**, or **Set as New** button. The intrusion data is monitored by **Type**, **Band**, **Channel**, **SSID**, **BSSID**, **Last Seen**, and **Status**.

Advanced - Schedule

Scheduling - Select a schedule for each SSID

DAP-2690

Home Basic **Advanced** Maintenance Status Configuration Help

Basic
Advanced

Performance
Multi-SSID
VLAN
Intrusion
Schedule
DHCP Server
AP Array

Maintenance
Status
System

Schedule

Wireless Schedule

Add Schedule Rule

Name

Index

SSID

Day(s) All Week Select Day(s)
 Sun Mon Tue Wed Thu Fri Sat

All Day(s)

Start Time : (hour:minute, 24 hour time)

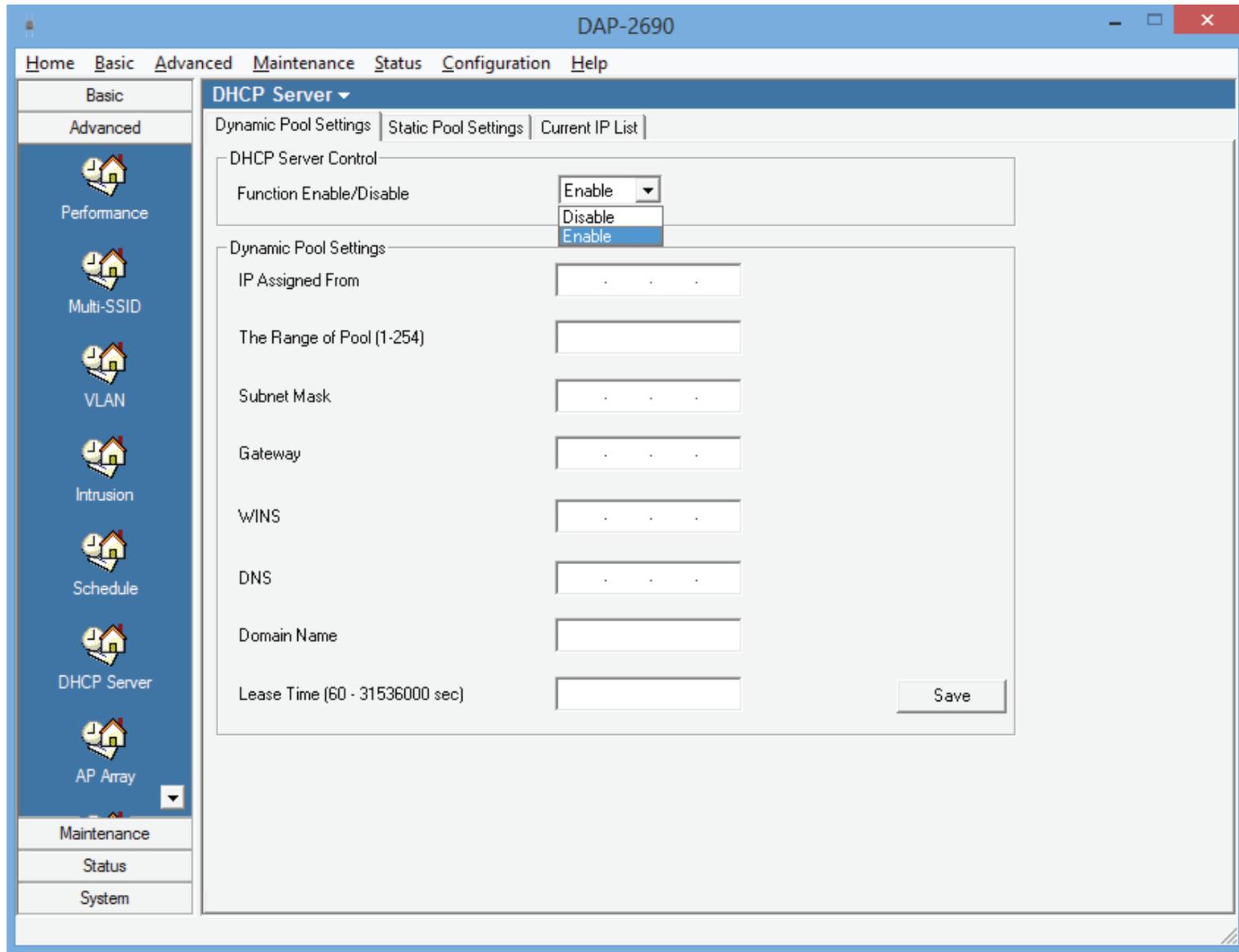
End Time : (hour:minute, 24 hour time)

Schedule Rule List

Name	SSID Index	SSID	Day(s)	Time Frame	Wireless	Edit	Delete
------	------------	------	--------	------------	----------	------	--------

Advanced - DHCP Server

DHCP Server - Control and configure the DHCP server.



Dynamic Pool Settings

COMPONENT	DESCRIPTION
DHCP Server Control	Select to Enable/Disable
IP Assigned From	Enter an IP to start from
The Range of Pool	Enter the IP pool range
Subnet Mask	Enter an subnet mask
Gateway	Enter a Gateway IP
WINS	Enter a WINS address
DNS	Enter a DNS address
Domain Name	Enter a Domain Name
Lease Time	Enter the IP duration
Save	Click Save to saving your configuration settings

Static Pool Settings

COMPONENT	DESCRIPTION
DHCP Server Control	Select to Enable/Disable
IP Assigned From	Enter an IP to start from
The Range of Pool	Enter the IP pool range
Subnet Mask	Enter an subnet mask
Gateway	Enter a Gateway IP
WINS	Enter a WINS address
DNS	Enter a DNS address
Domain Name	Enter a Domain Name
Lease Time	Enter the IP duration
Save	Click Save to saving your configuration settings

DAP-2690

Home Basic **Advanced** Maintenance Status Configuration Help

Basic
Advanced

Performance
Multi-SSID
VLAN
Intrusion
Schedule
DHCP Server
AP Array

Maintenance
Status
System

DHCP Server ▾

Dynamic Pool Settings | Static Pool Settings | Current IP List

Current DHCP Dynamic Pools

Host Name	Binding MAC Address	Assigned IP Address	Lease Time

Current DHCP Static Pools

Host Name	Binding MAC Address	Assigned IP Address

Current IP List

COMPONENT	DESCRIPTION
Current DHCP Dynamic Pools	
Host Name	The host name is the main DHCP host provider
Binding MAC Address	These are the MAC addresses of the connected AP's
Assigned IP Address	These are the IP addresses assigned by the DHCP server
Lease Time	The IP life span

COMPONENT	DESCRIPTION
Current DHCP Static Pools	
Host Name	The host name is the main DHCP Static host provider
Binding MAC Address	These are the MAC addresses of the connected AP's
Assigned IP Address	These are the IP addresses assigned by the DHCP server
Lease Time	The IP life span

Advanced - AP Array

AP Array is enabling one or more Access Points to form a team of network devices. These Access Points amount to an array. They can be used as backup devices for when one or more than one goes down.

The screenshot shows the 'AP Array' configuration page in the DAP-2690 web interface. The page is titled 'AP Array' and has a navigation menu on the left. The main content area includes the following elements:

- Enable AP Array
- Master Backup Master Slave
- AP Array Name:
- AP Array Password:
- Scan AP Array List:
- Connection Status: Disconnect
- AP Array List table:

Array Name	Master IP	MAC	Master	Back...	Slave	Total
- Current Members table:

Index	Role	IP Address	MAC Address	Location
- Synchronized Parameters:
- Wireless Basic Settings:

At the bottom of the window, it says 'Reading Config from... ..'

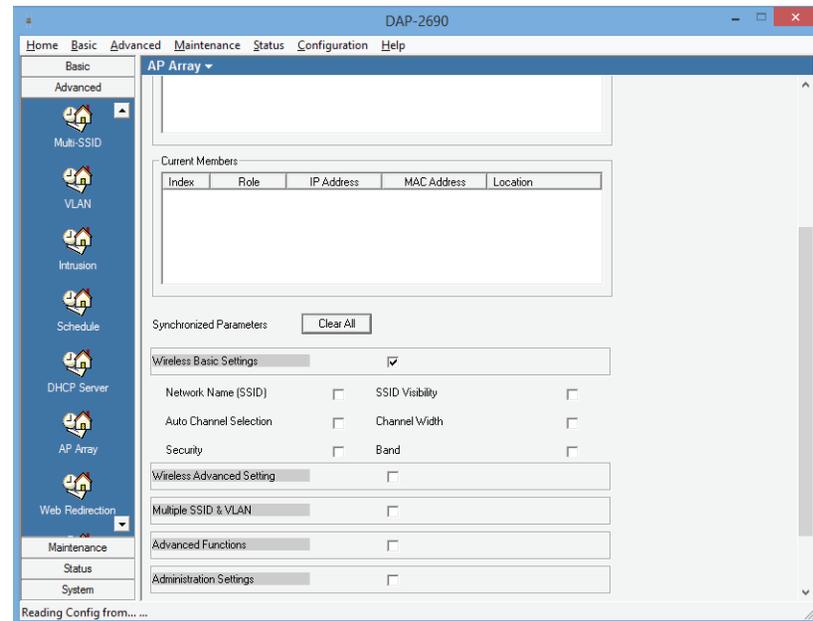
Section 4 - Configuration

COMPONENT	DESCRIPTION
Enable AP Array	Click the checkbox to start the AP Array
Master	Select this to make the Access Point the main device
Backup Master	Select this option to make this Access Point the backup to the main device
Slave	Select this option to make this Access Point the slave to either the Master or the Backup Master
AP Array Name	Enter a name for the Access Point array
AP Array Password	Enter a password for the Access Point
Scan AP Array List	Click the Scan button to scan the network
Connection Status	This will mention if you are connected or disconnected
AP Array List	This list is populated once arrays are added
Current Members	This is a list of the Access Point Array members
Synchronize Parameters	Click Clear All to clear the list

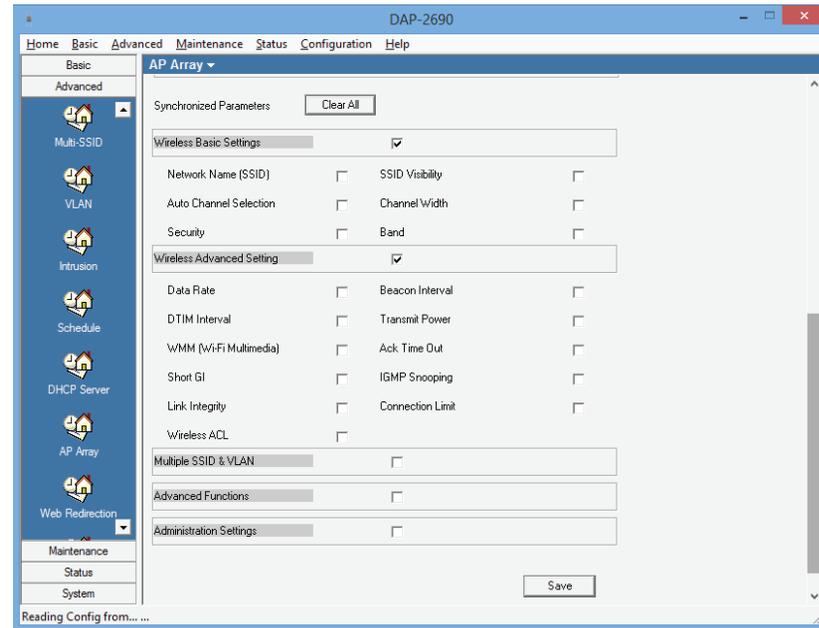
Advanced - AP Array - Alternative Settings

Under the main Array Settings there is also settings for Wireless Basic Settings, Wireless Advanced Settings, Multiple SSID & VLAN settings, Advanced Functions, and Administrative Settings. Let's take a closer look.

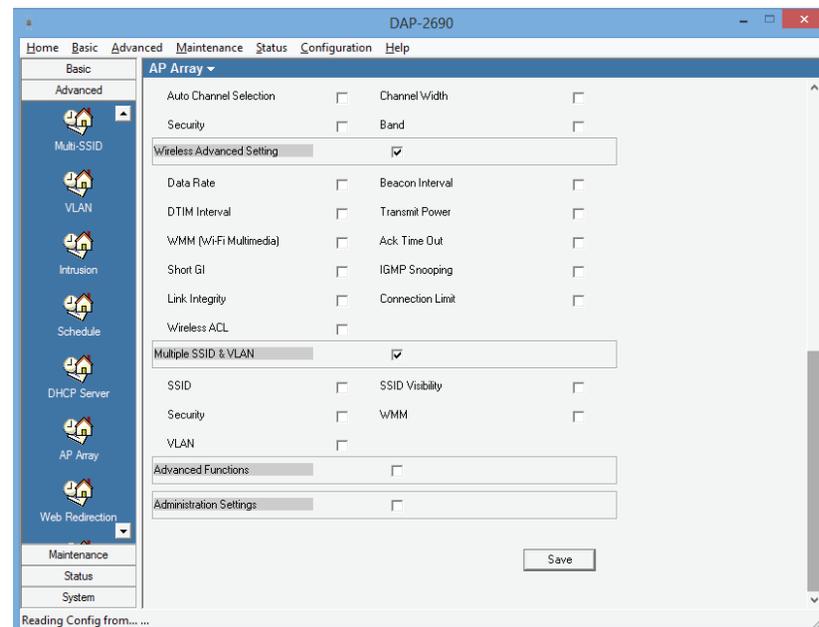
Click the checkbox next to Wireless Basic Settings. The options expand to include: Network Name (SSID), SSID Visibility, Auto Channel Selection, Channel Width, Security, and Band. Select the options you need in your configuration.



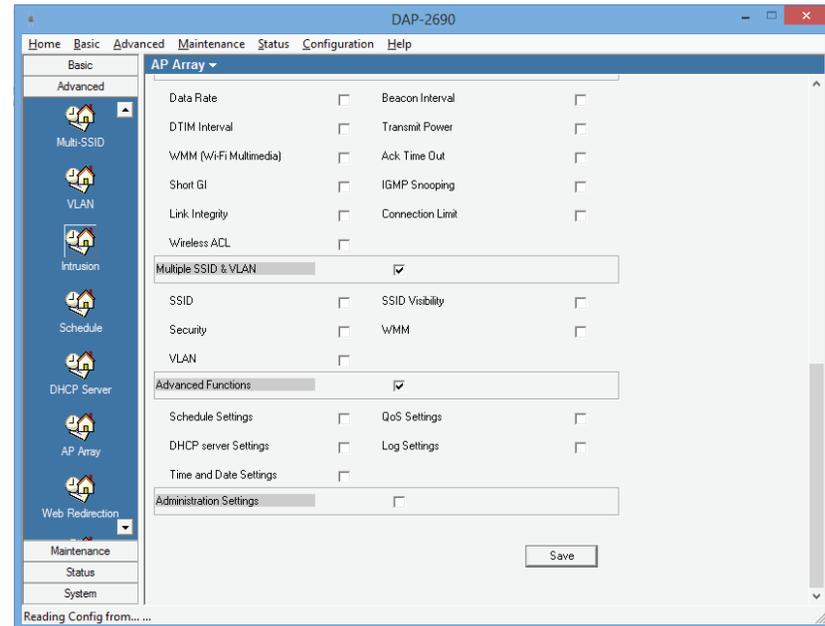
Click the checkbox next to Wireless Advanced Settings. The options expand to include: Data Rate, Beacon Interval, DTIM Interval, Transmit Power, WMM (Wi-Fi Multimedia), Ack Time Out, Short GI, IGMP Snooping, Link Integrity, Connection Limit, Wireless ACL. Select the options you need in your configuration.



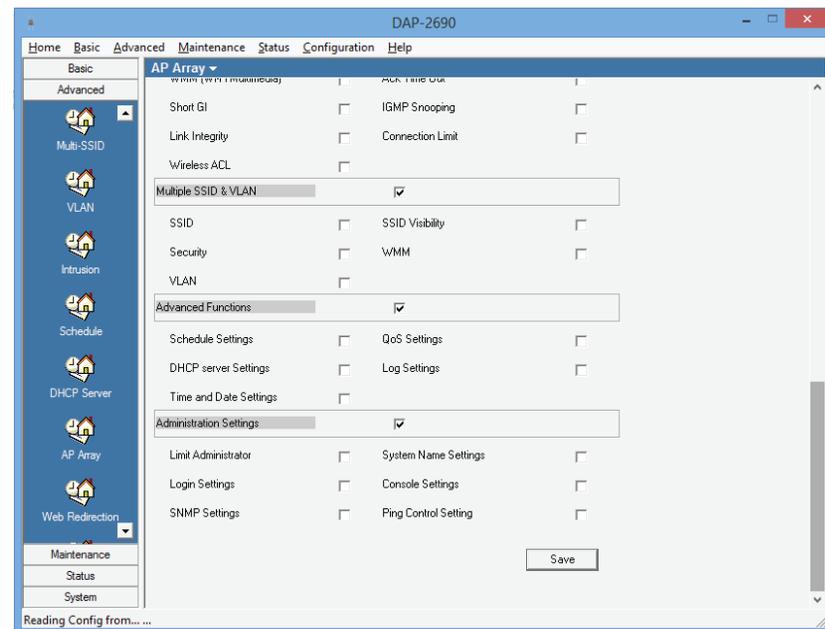
Click the checkbox next to Multiple SSID & VLAN. The options expand to include: SSID, SSID Visibility, Security, WMM, or VLAN. Select the options you need in your configuration.



Click the checkbox next to Advanced Functions. The options expand to include: Schedule Settings, QoS Settings, DHCP server Settings, Log Settings, Time and Date Settings. Select the options you need in your configuration.

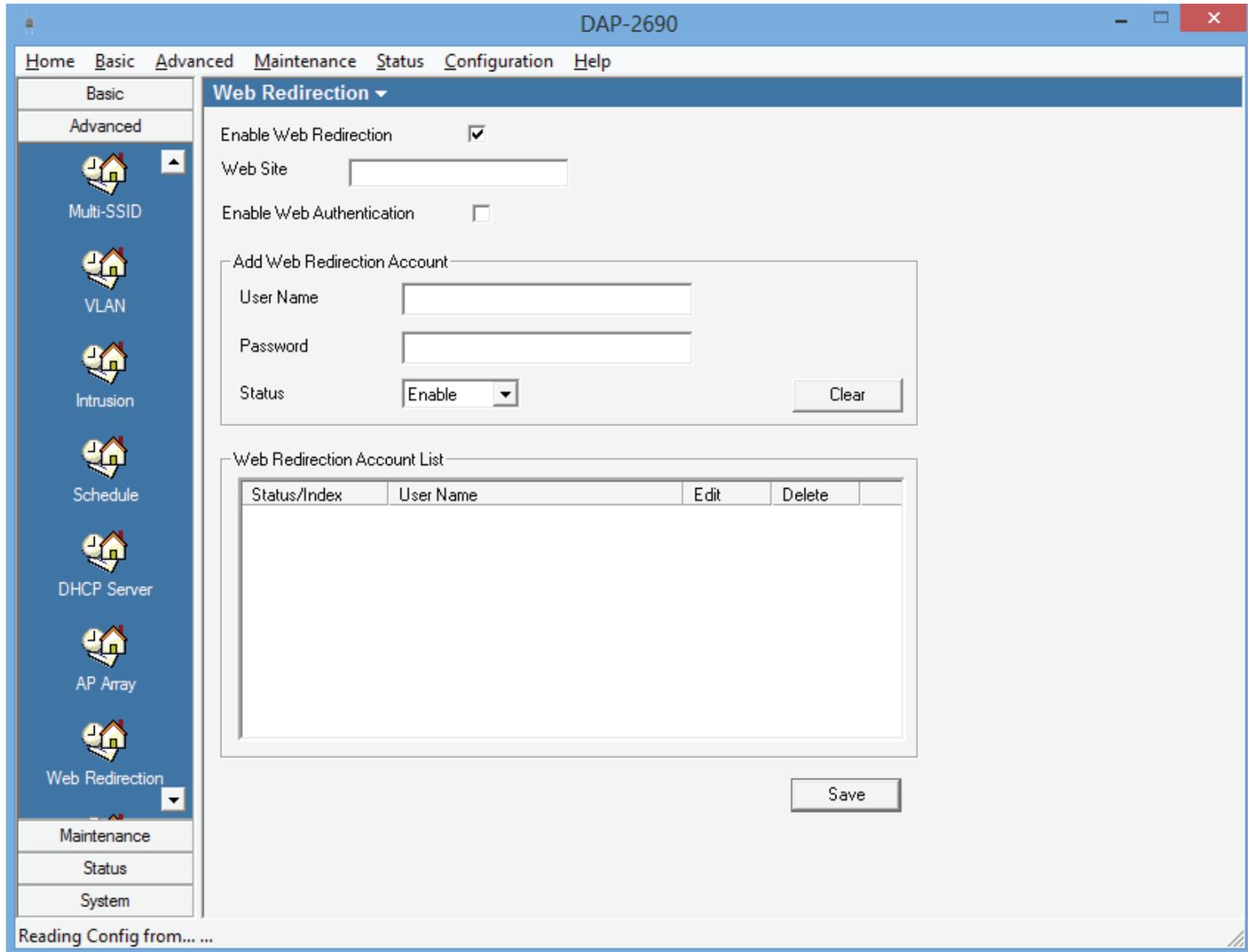


Click the checkbox next to Administrative Settings. The options expand to include: Limit Administrator, System Name Settings, Login Settings, Console Settings, SNMP Settings, and Ping Control Settings. Select the options you need in your configuration.



Advanced - Web Redirection

Web redirection is what the name implies. It will redirect data to a web address or web IP.

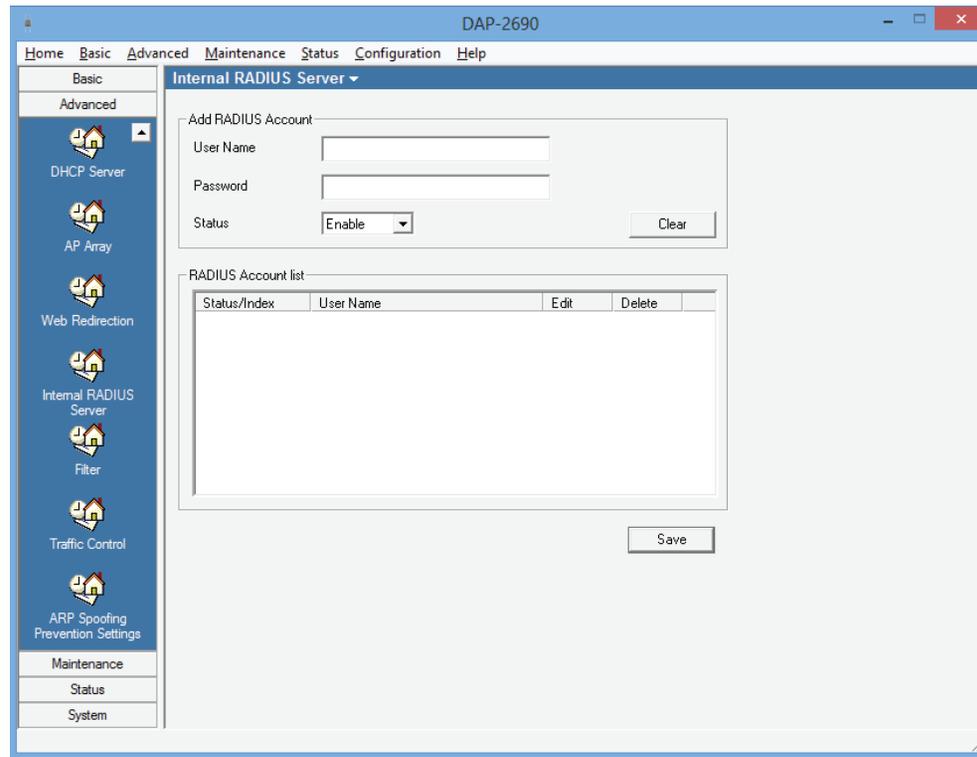


Section 4 - Configuration

COMPONENT	DESCRIPTION
Enable Web Redirection	Click the checkbox to enable this function
Web Site	Enter the website details
Enable Web Authentication	Check this checkbox to enable authentication on the web server
Add Web Redirection Account	
Username	Enter a username for the account details
Password	Enter a password for the redirection
Status	Select between Enable or Disable
Clear	Click clear to erase data
Web Redirection Account List	Data entered into earlier will promulgate in this list
Save	Click Save to save settings

Advanced - Internal RADIUS Server

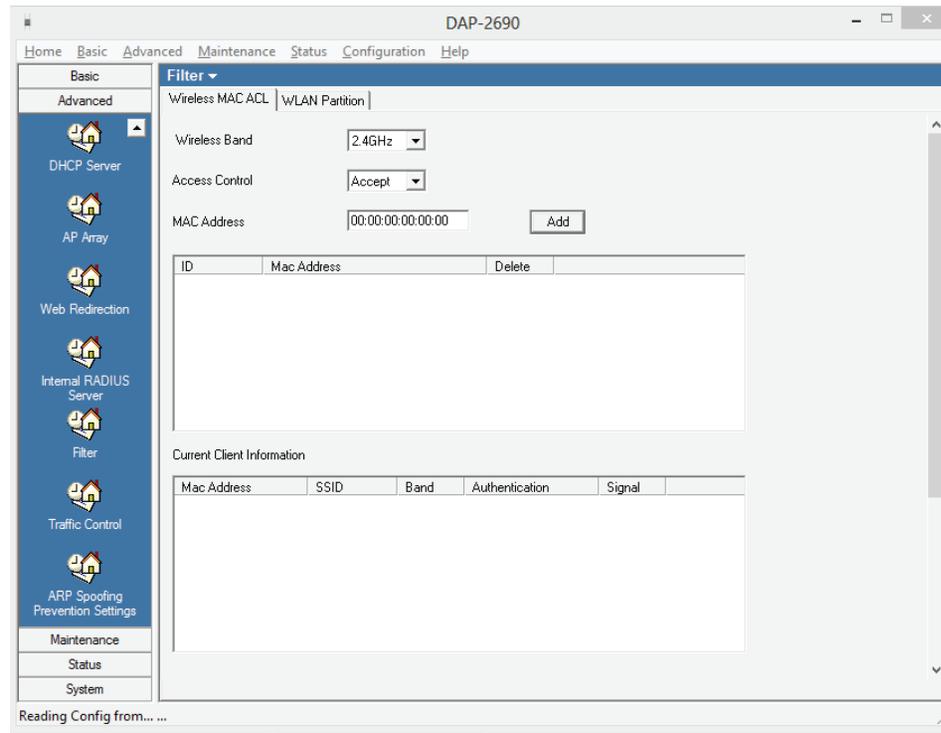
The Access Point allows you to set RADIUS Server



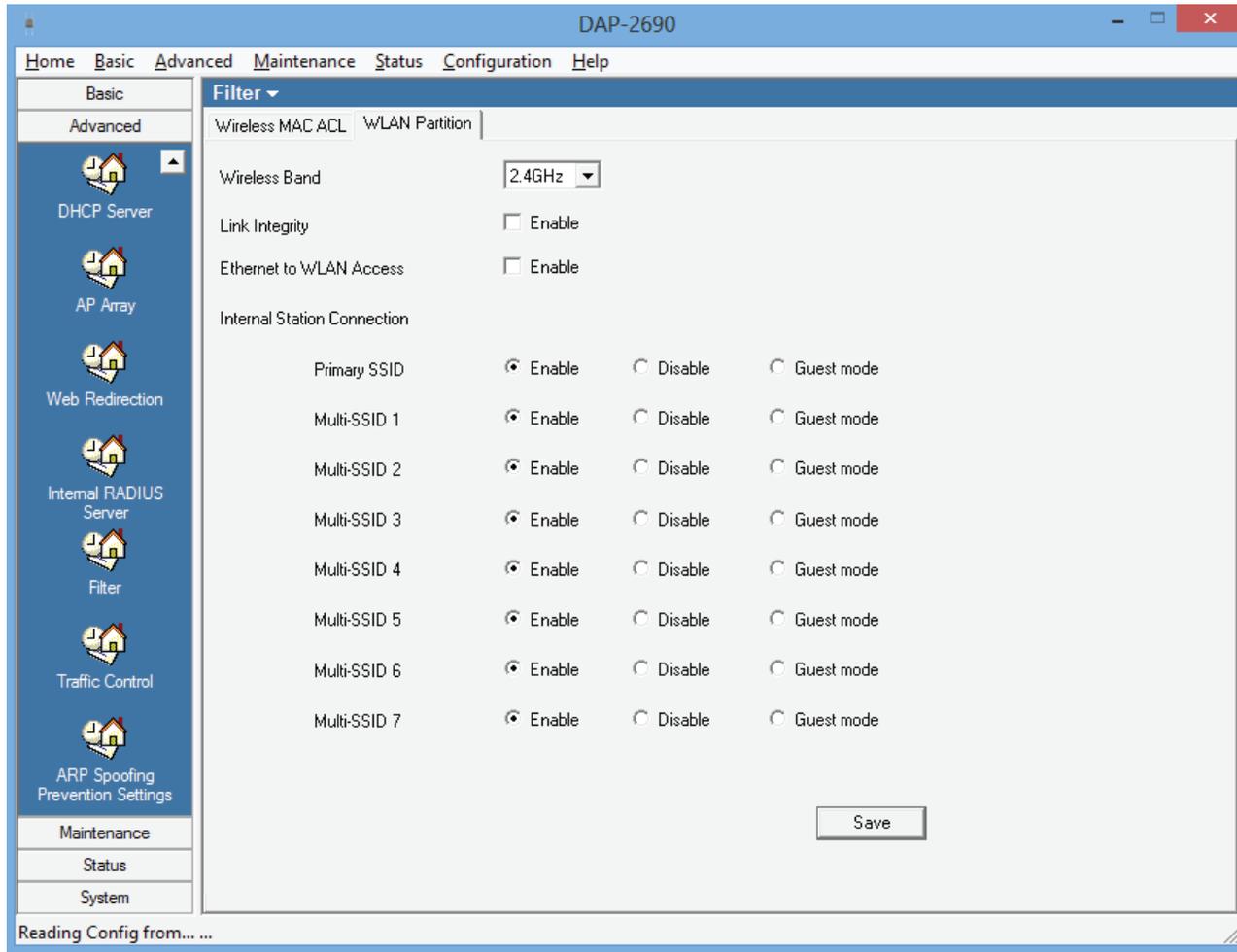
COMPONENT	DESCRIPTION
Add RADIUS Account	
User Name	Enter a username for the account
Password	Enter a password for the RADIUS Account
Status	Click to enable or disable
Clear	Click clear to erase data
RADIUS Account List	Data entered into earlier will promulgate in this list
Save	Click Save to save settings

Advanced - Filters

The Filter protects your Access Point on two fronts: MAC addressing and WLAN partitioning.



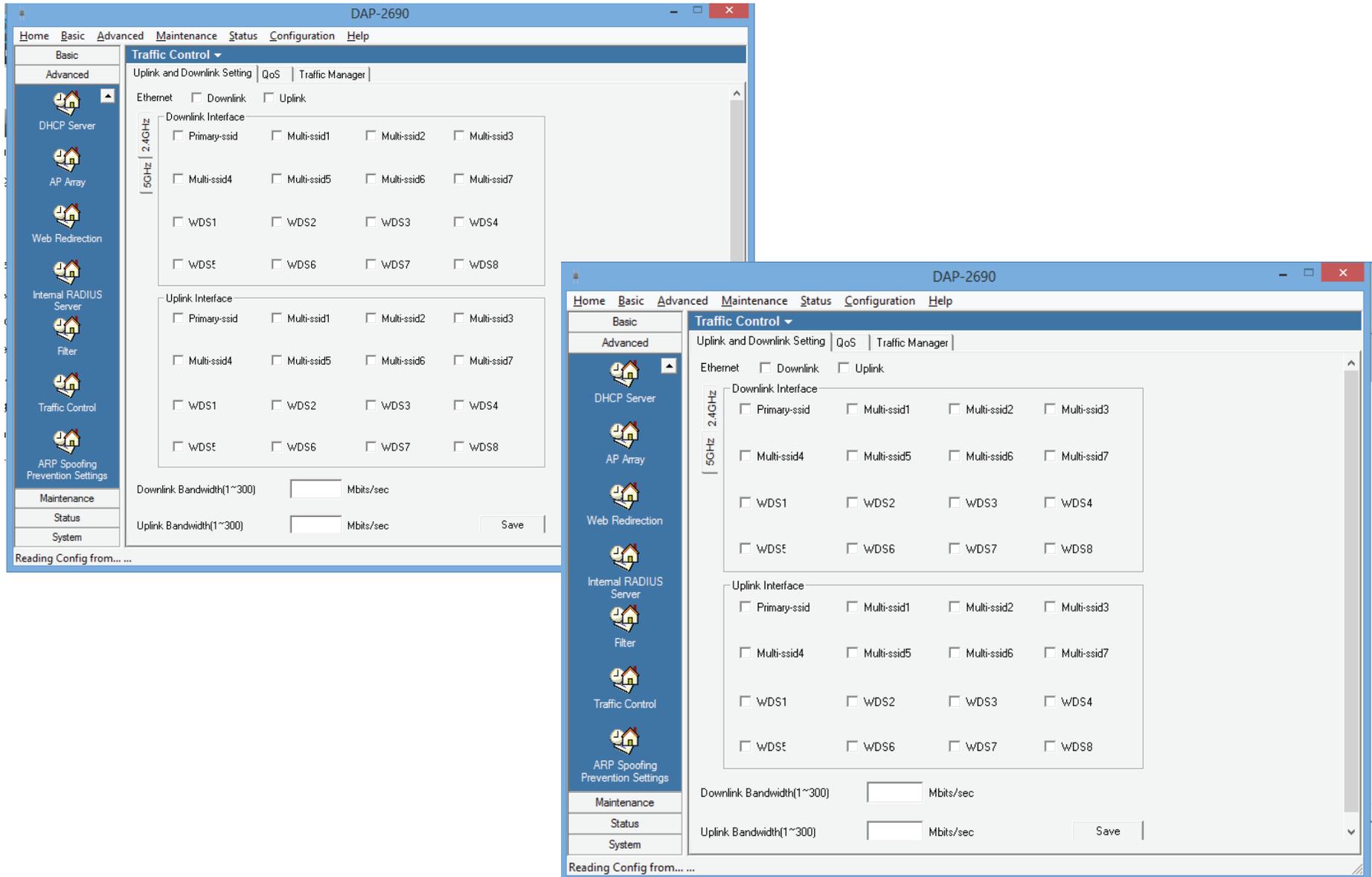
COMPONENT	DESCRIPTION
Wireless Band	Select between 2.4GHz or 5GHz
Access Control	Select between Accept, Reject, or Disable
MAC Address	Enter the MAC address details
Add	Click the Add button to add it to the list
Current Client Information	This list is populated as devices are added
Upload ACL File	Click Browse to add an ACL file to the list and click Upload when ready
Download ACL File	Click the Download button to download the file to your local hard drive
Save	Click Save to save settings



COMPONENT	DESCRIPTION
Wireless Band	Select between 2.4GHz or 5GHz
Link Integrity	Click the checkbox to enable
Ethernet to WLAN Access	Click the checkbox to enable
Internal Station Connection	For each SSID, either select to Enable/ Disable/ or set in Guest mode
Save	Click Save to save settings

Advanced - Traffic Control

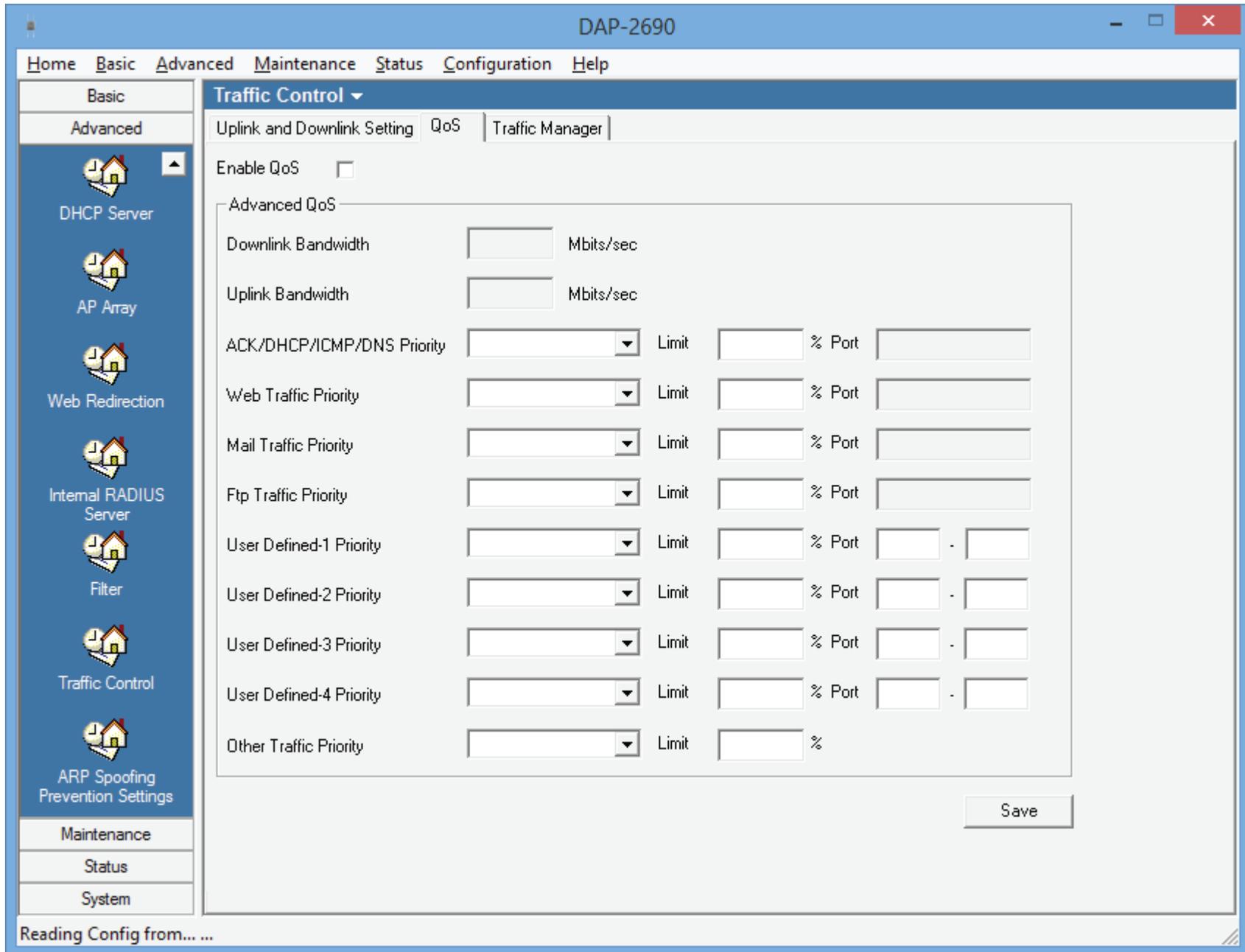
Control downloads and uploads to or from the Access Point. These network links can be controlled in 2.5GHz or 5GHz modes. Toggle between the two modes.



Uplink and Downlink Settings

COMPONENT	DESCRIPTION
Ethernet	Click either the Downlink or Uplink checkboxes to configure the settings
For Downlink Interface	Click the checkbox to enable any of the SSID's
Select between	Primary-ssid, Multi-ssid1, Multi-ssid2, Multi-ssid3, Multi-ssid4, Multi-ssid5, Multi-ssid6, Multi-ssid7, WDS1, WDS2, WDS3, WDS4, WDS5, WDS6, WDS7, WDS8
For Downlink Interface	Click the checkbox to enable any of the SSID's
Select between	Primary-ssid, Multi-ssid1, Multi-ssid2, Multi-ssid3, Multi-ssid4, Multi-ssid5, Multi-ssid6, Multi-ssid7, WDS1, WDS2, WDS3, WDS4, WDS5, WDS6, WDS7, WDS8
Download Bandwidth (1~300)	Enter a value in Mbits/sec
Uplink Bandwidth (1~300)	Enter a value in Mbits/Sec
Save	Click Save to save your settings

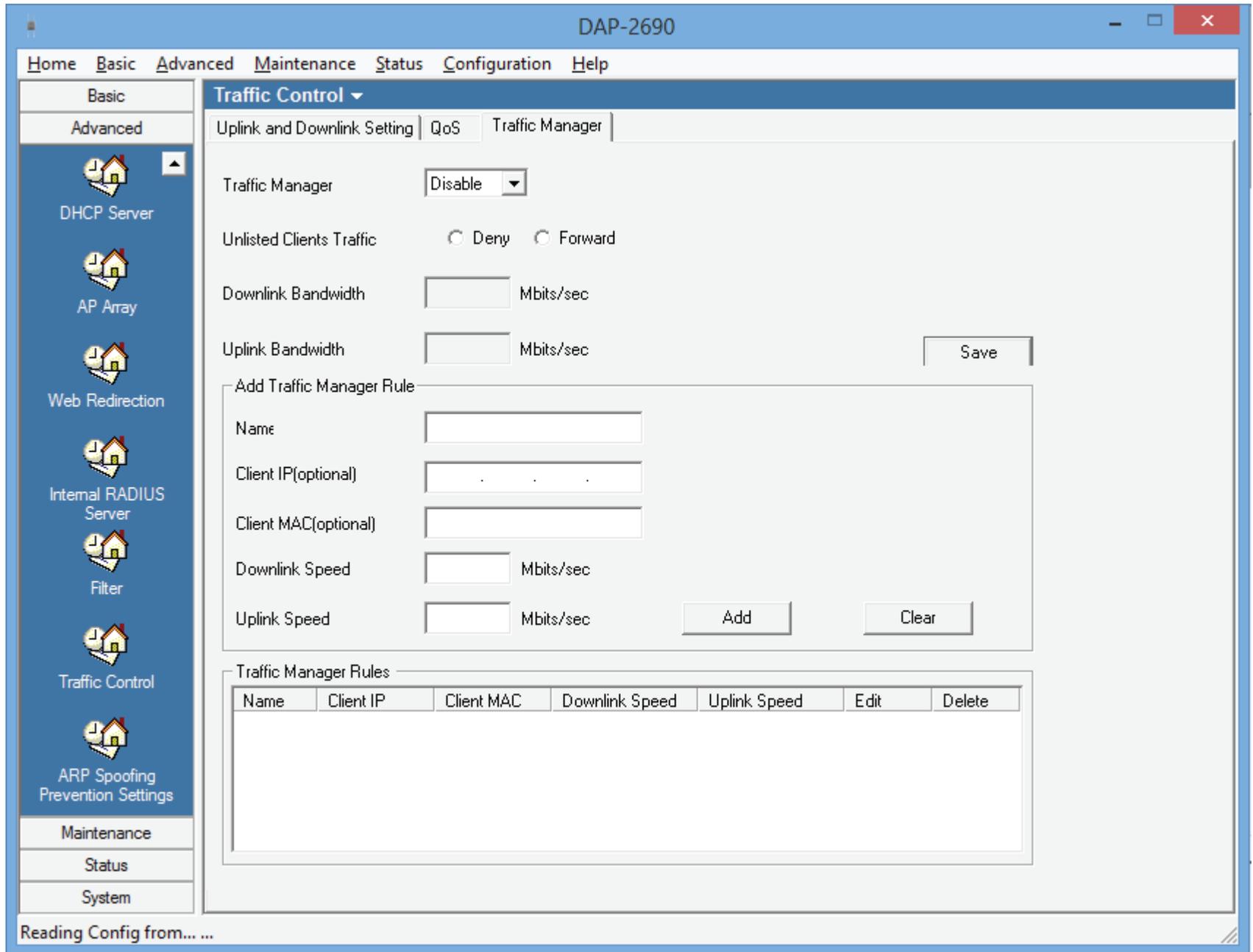
QoS



Section 4 - Configuration

COMPONENT	DESCRIPTION
Enable QoS	Click the checkbox to enable this function (this function does not work unless you have set uplink and downlink parameters)
Advanced QoS	
Downlink Bandwidth	Enter a value Mbits/sec
Uplink Bandwidth	Enter a value Mbits/sec
ACK/DHCP/ICMP/ DNS Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
Web Traffic Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
Mail Traffic Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
FTP Traffic Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
User Defined-1 Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
User Defined-2 Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
User Defined-3 Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
User Defined-4 Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction and the Port number
Other Traffic Priority	Select between Highest Priority, Second Priority, Third Priority, and Low Priority. Enter the amount traction
Save	Click the save button to save settings

Traffic Manager

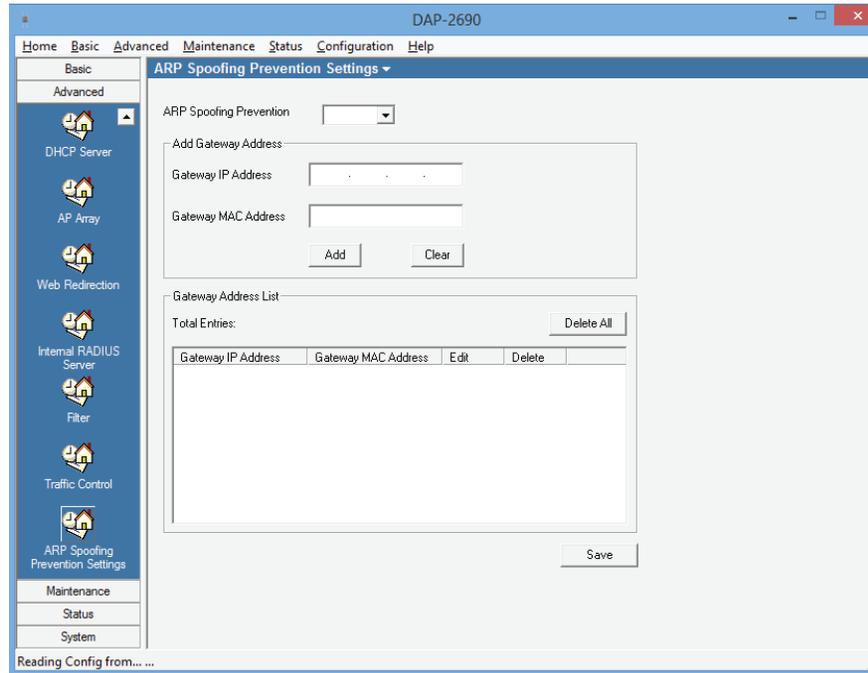


Section 4 - Configuration

COMPONENT	DESCRIPTION
Traffic Manager	Click to Enable or Disable
Unlisted Client Traffic	Select Deny or Forward
Downlink Bandwidth	Enter a value Mbits/sec
Uplink Bandwidth	Enter a value Mbits/sec
Save	Click the save button to save settings
Add Traffic Manager Rule	
Name	Enter a name in the field provided
Client IP (optional)	Enter the IP specifics
Client MAC (optional)	Enter the MAC specifics
Downlink Speed	Enter a value in Mbits/sec
Uplink Speed	Enter a value in Mbits/sec
Add	Click Add to add it to the Traffic Manager Rules
Clear	Click Clear to discard the information

Advanced - ARP Spoofing Prevention Settings

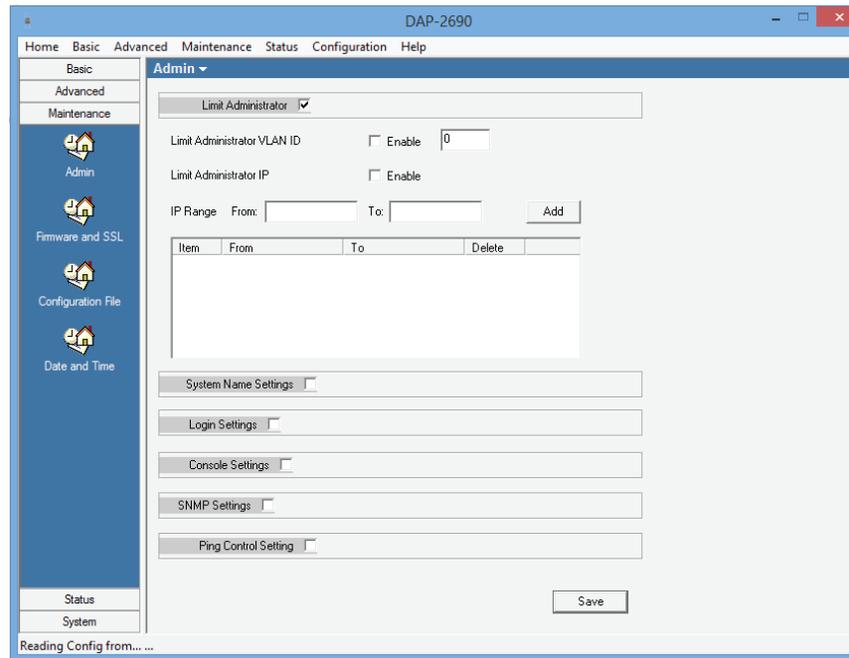
This provides ARP Spoofing prevention techniques to provide an added feature to the router.



COMPONENT	DESCRIPTION
ARP Spoofing Prevention	Click to Enable or Disable
Add Gateway Address	
Gateway IP Address	Enter the Gateway IP
Gateway MAC Address	Enter the MAC address
Add	Click Add to include it to the Gateway Address List
Clear	Click Clear to discard the information
Delete All	Select a device and delete one or all
Save	Click the Save button to save settings

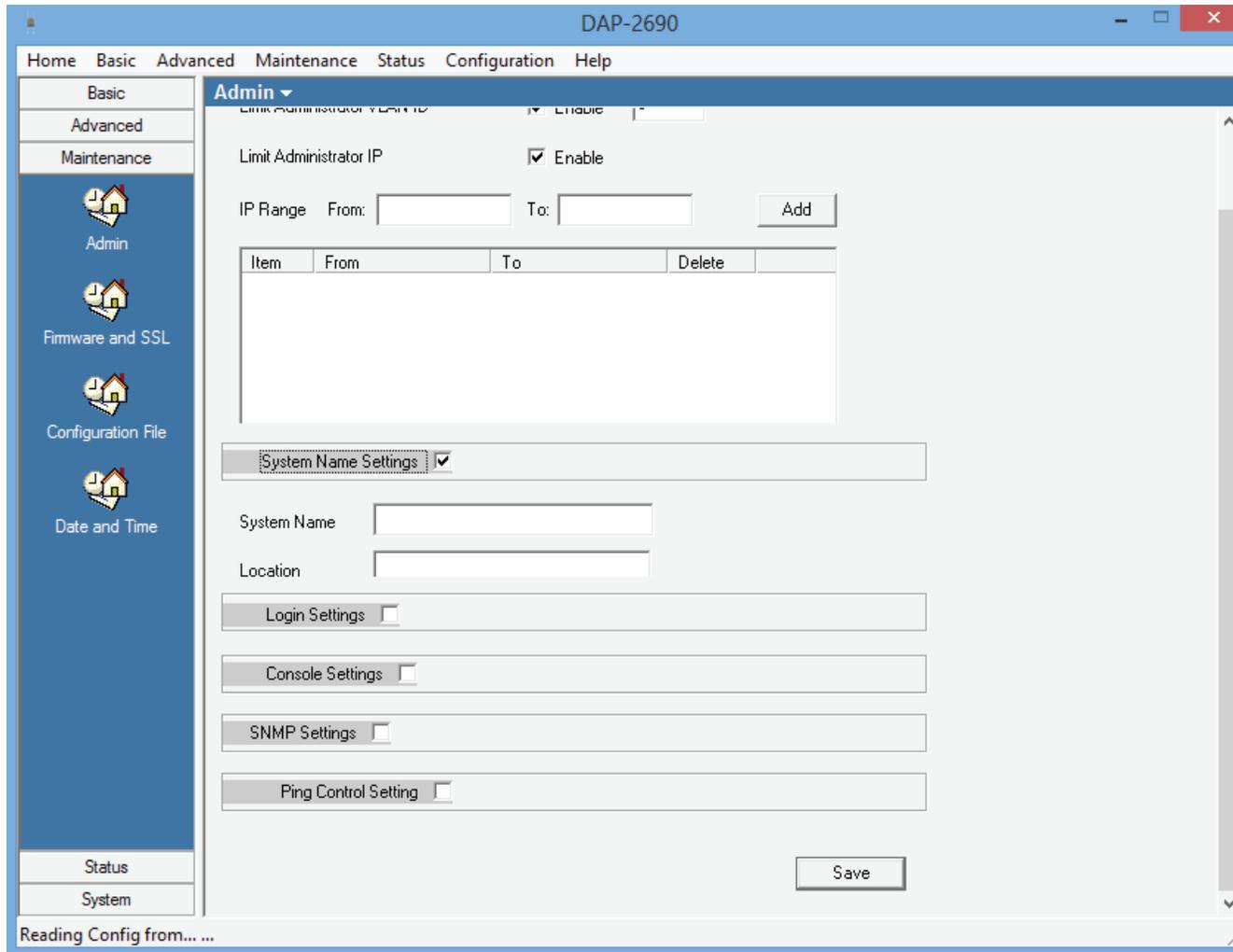
Maintenance - Admin

All devices need to be maintained and managed. Click on the link to proceed.



COMPONENT	DESCRIPTION
Limit Administrator	Click to Enable or Disable
Limit Administrator VLAN ID	Click the checkbox to enable this function and enter a value in the field provided
Limit Administrator IP	Click the checkbox to enable this function
IP Range	Enter a value in the From field, to the To field
Add	Click Add to include it to the Administration limitations
Save	Click the Save button to save settings

System Name Settings



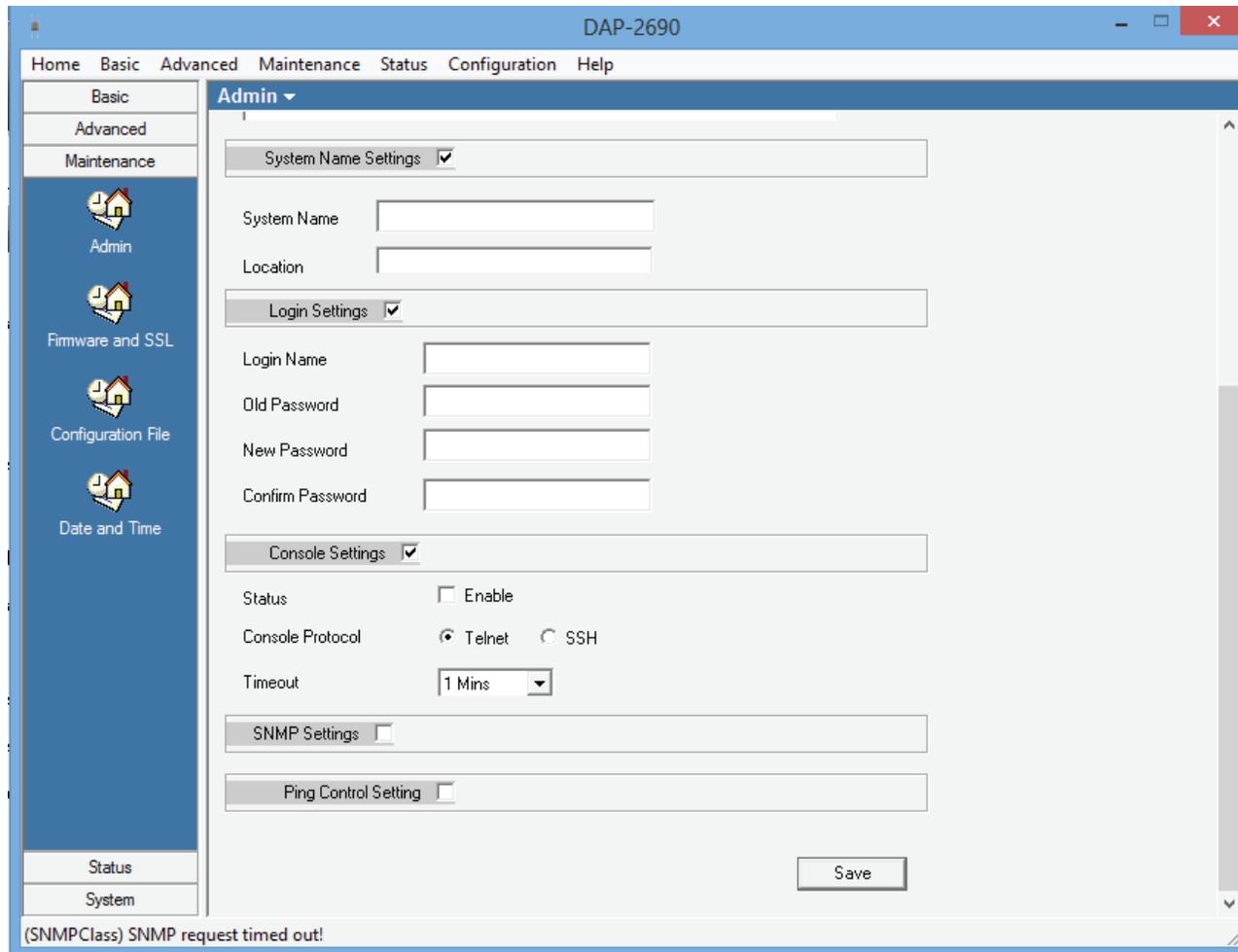
COMPONENT	DESCRIPTION
System Name Settings	Click to Enable or Disable
System Name	Enter a system name in the field provided
Location	Enter a location in the field provided
Save	Click the Save button to save settings

Login Settings

The screenshot shows the configuration interface for a DAP-2690 device. The 'Admin' menu is selected, and the 'Login Settings' section is active. The 'Login Settings' checkbox is checked. The fields for 'Login Name', 'Old Password', 'New Password', and 'Confirm Password' are empty. The 'Console Settings', 'SNMP Settings', and 'Ping Control Setting' checkboxes are unchecked. A 'Save' button is visible at the bottom right of the configuration area.

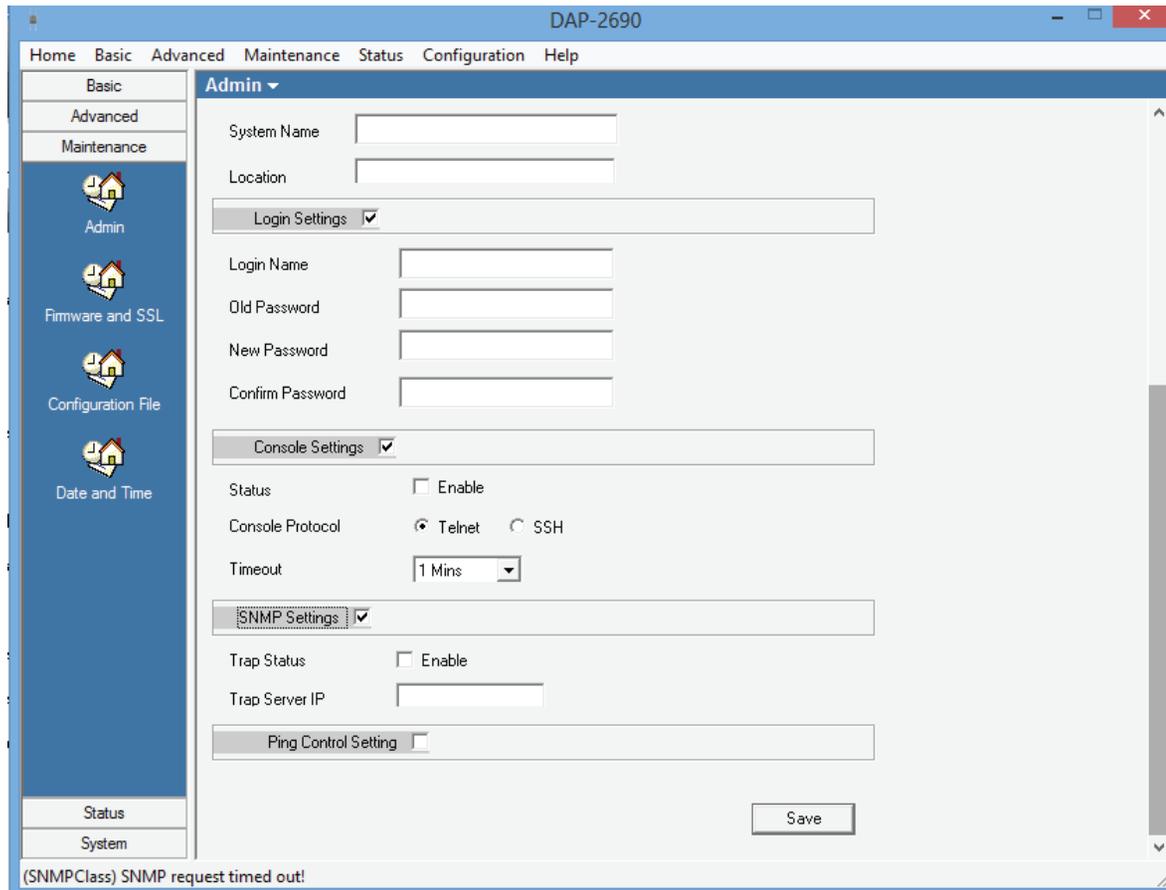
COMPONENT	DESCRIPTION
Login Settings	Click to Enable or Disable
Login Name	Enter a login name in the field provided
Old Password	Enter the old password details
New Password	Enter the new password details
Confirm Password	Enter the details to confirm your password details
Save	Click the Save button to save settings

Console Settings



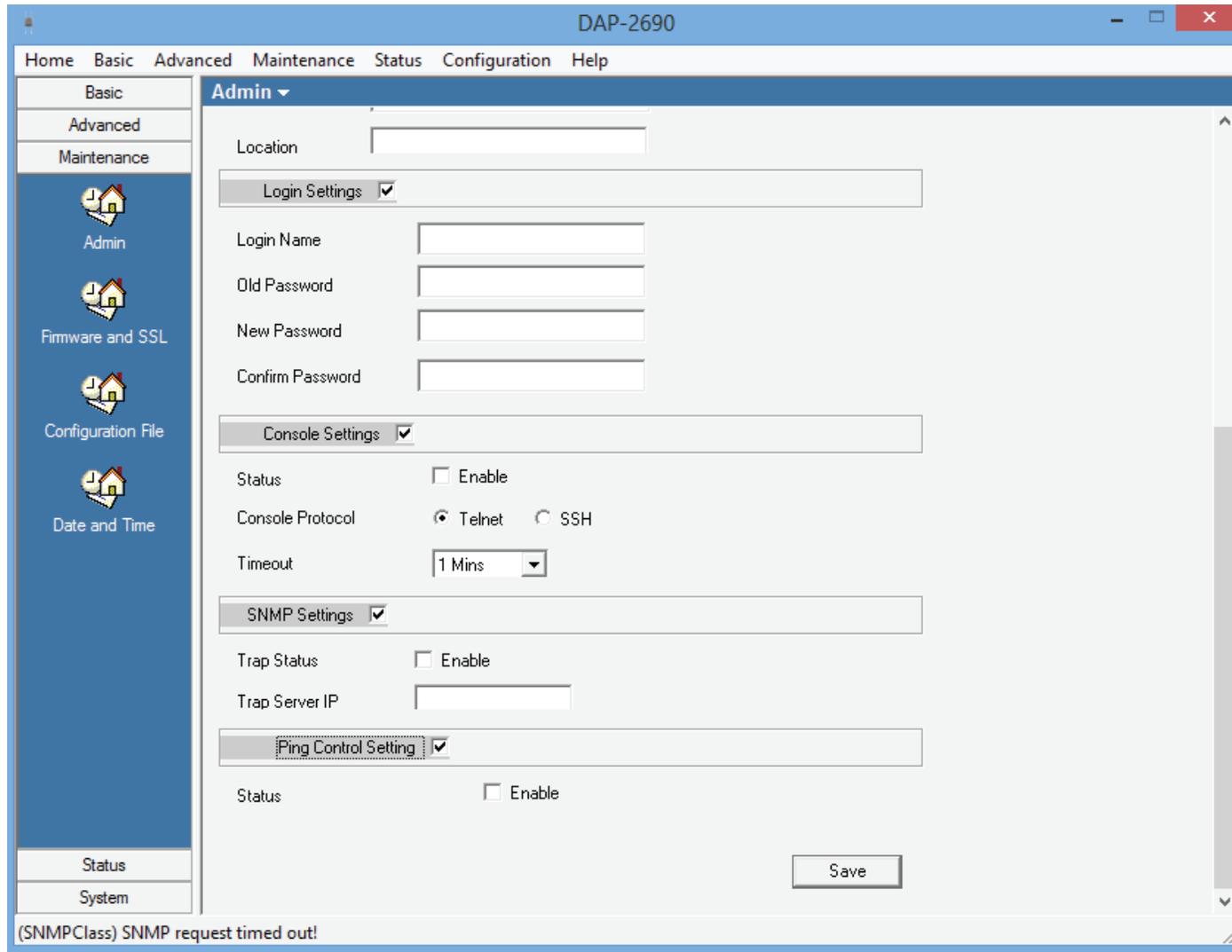
COMPONENT	DESCRIPTION
Console Settings	Click to Enable or Disable
Status	Click the checkbox to enable this feature
Console Protocol	Select between Telnet or SSH
Timeout	From the drop-down list, select from 1,3,5,10, 15 minutes or never
Save	Click the Save button to save settings

SNMP Settings



COMPONENT	DESCRIPTION
SNMP Settings	Click to Enable or Disable
Trap Status	Click the checkbox to enable this feature
Trap Server IP	Enter an IP address for trap messages
Save	Click the Save button to save settings

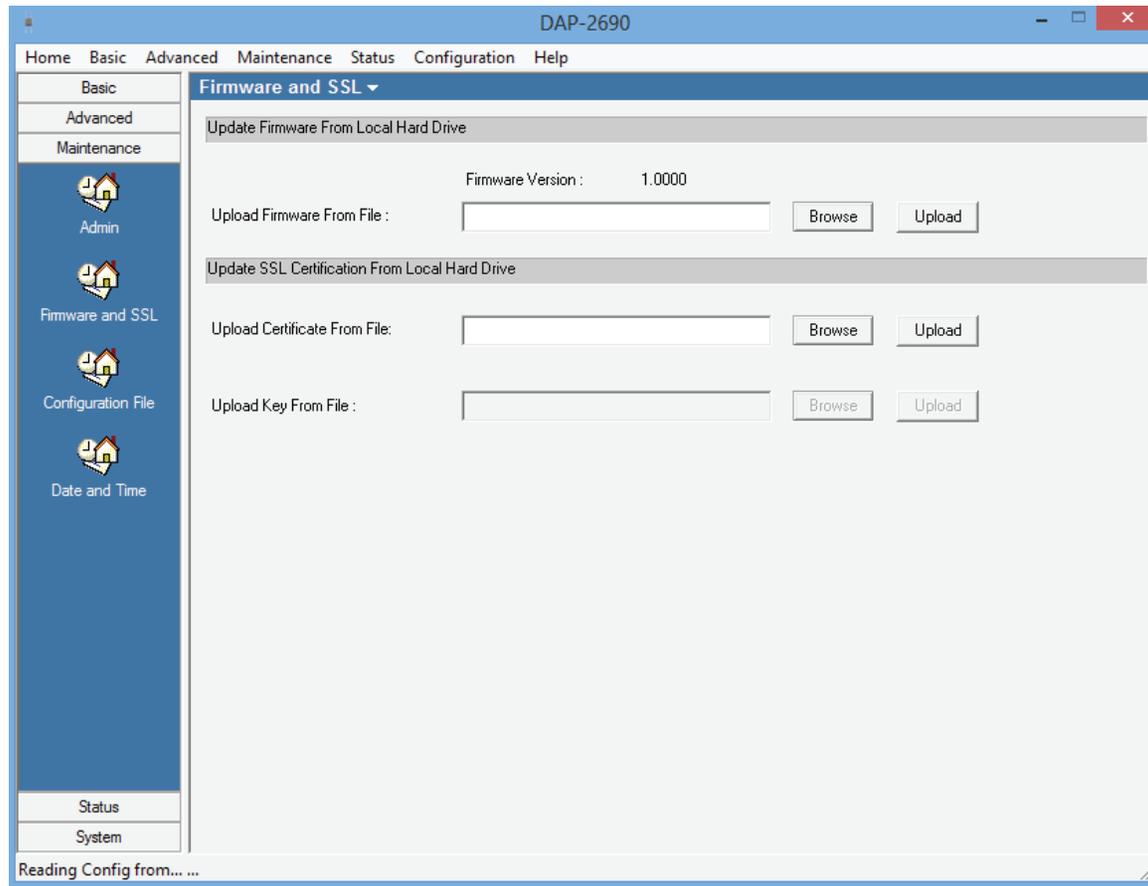
Ping Control Settings



COMPONENT	DESCRIPTION
Ping Control Settings	Click to Enable or Disable
Status	Click the checkbox to enable this feature
Save	Click the Save button to save settings

Maintenance - Firmware and SSL

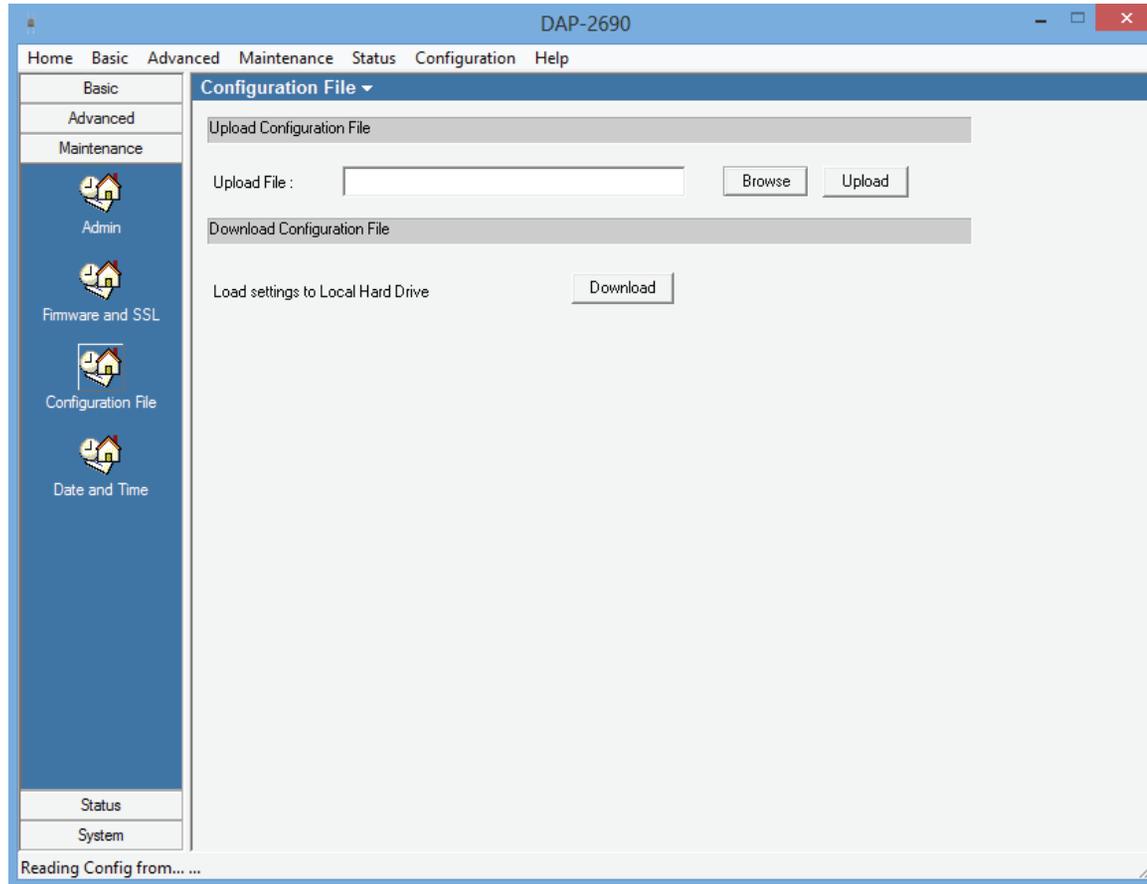
Use this function to update the firmware of the Access Point.



COMPONENT	DESCRIPTION
Update Firmware from Local Hard Drive	Click the Browse button to find the new firmware, select it, and upload the new firmware.
Upload Certificate from File	Click the Browse button to find the new SSL certificate, select it, and upload the new SSL certificate to the system
Upload Key From File	Click the Browse button to find the key, select it, and upload it to the Access Point

Maintenance - Configuration File

Use this function to configure one or many (in an array or separately) Access Points.



COMPONENT	DESCRIPTION
Upload Configuration File	Click the Browse button to find the Configuration file, select it, and upload the new firmware.
Download Configuration File	Click the Download button to download this file to your hard drive

Maintenance - Date and Time

Use this function to configure the Date and Time settings

The screenshot displays the web interface for a DAP-2690 device, specifically the 'Date and Time' configuration page. The interface is organized into several sections:

- Navigation:** A top menu bar includes 'Home', 'Basic', 'Advanced', 'Maintenance', 'Status', 'Configuration', and 'Help'. A left sidebar contains icons for 'Admin', 'Firmware and SSL', 'Configuration File', and 'Date and Time' (the active page).
- Time Configuration:**
 - Current Time:** 12/31/1999 16:39:45
 - Time Zone:** A dropdown menu.
 - Enable Daylight Saving:** An unchecked checkbox.
 - Daylight Saving Dates:** A table with columns for 'Month', 'Week', 'Day of Week', and 'Current Time'. It contains two rows: 'DST Start' and 'DST End', each with four corresponding dropdown menus.
- Automatic Time Configuration:**
 - Enable NTP Server:** An unchecked checkbox.
 - NTP Server:** A text input field.
- Set the Date and Time Manually:**
 - Date And Time:** A row of dropdown menus for 'Year', 'Month', and 'Day'.
 - Hour, Minute, Second:** A second row of dropdown menus for 'Hour', 'Minute', and 'Second'.
 - Copy Your Computer's Time Settings:** A button.
 - Save:** A button.

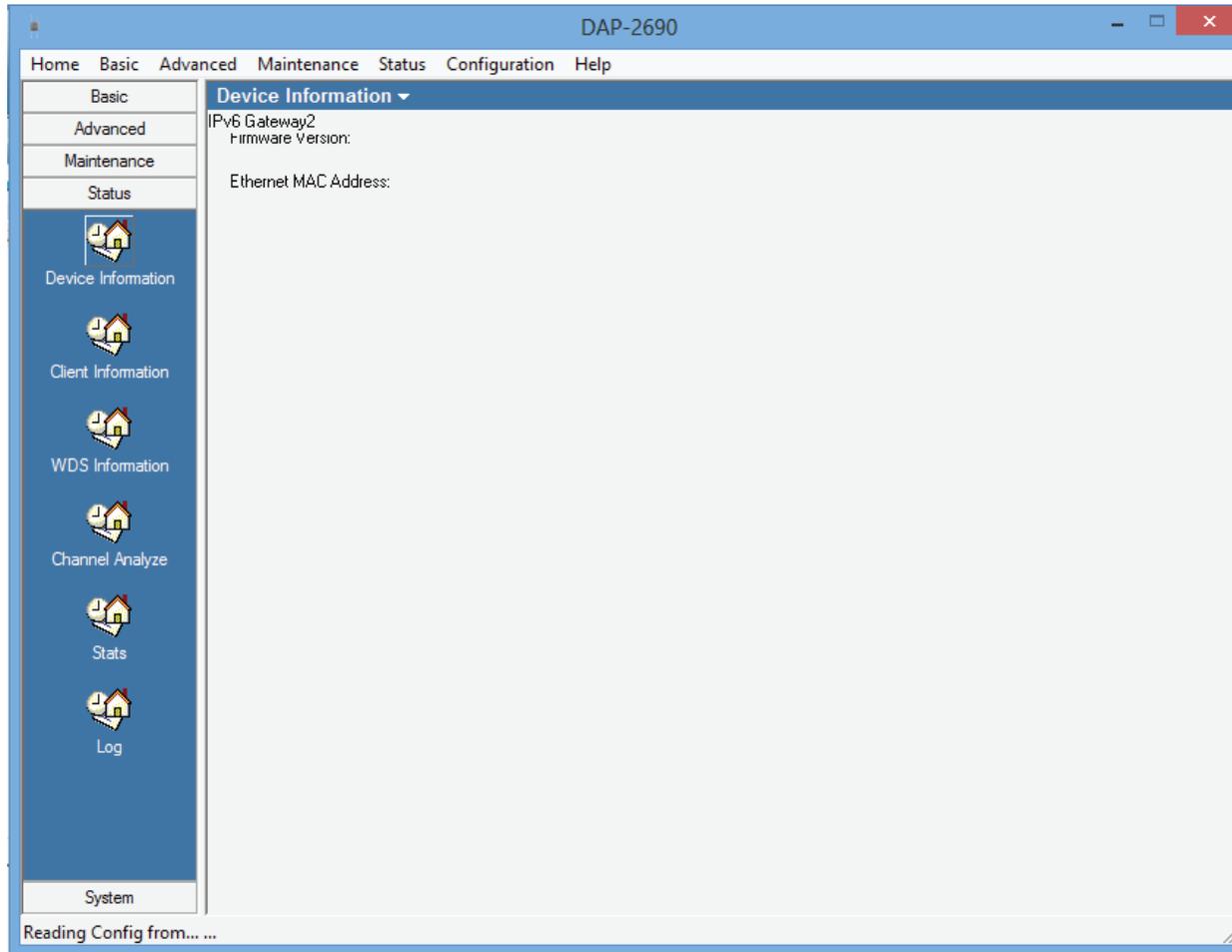
At the bottom left, a status bar reads 'Reading Config from... ..'.

Section 4 - Configuration

COMPONENT	DESCRIPTION
Current Time	This is automatically set
Time Zone	Select a time zone from the drop-down list
Enable Daylight Saving	Click the checkbox to enable daylight savings time. Adjust the Daylight Saving Dates according to Month, Week, Day of the Week, and Current Time
Automatic Time Configuration	
Enable NTP Server	Click the checkbox to enable the NTP Server
NTP Server	Enter the NTP Server IP address
Set the Date and Time Manually	Enter the date and time settings according to the year/month/day, hour/minute/second to manually configure the time
Copy Your Computer's Time Settings	Click this button to have the time synced with your computer
Save	Click the Save button to save settings

Status - Device Information

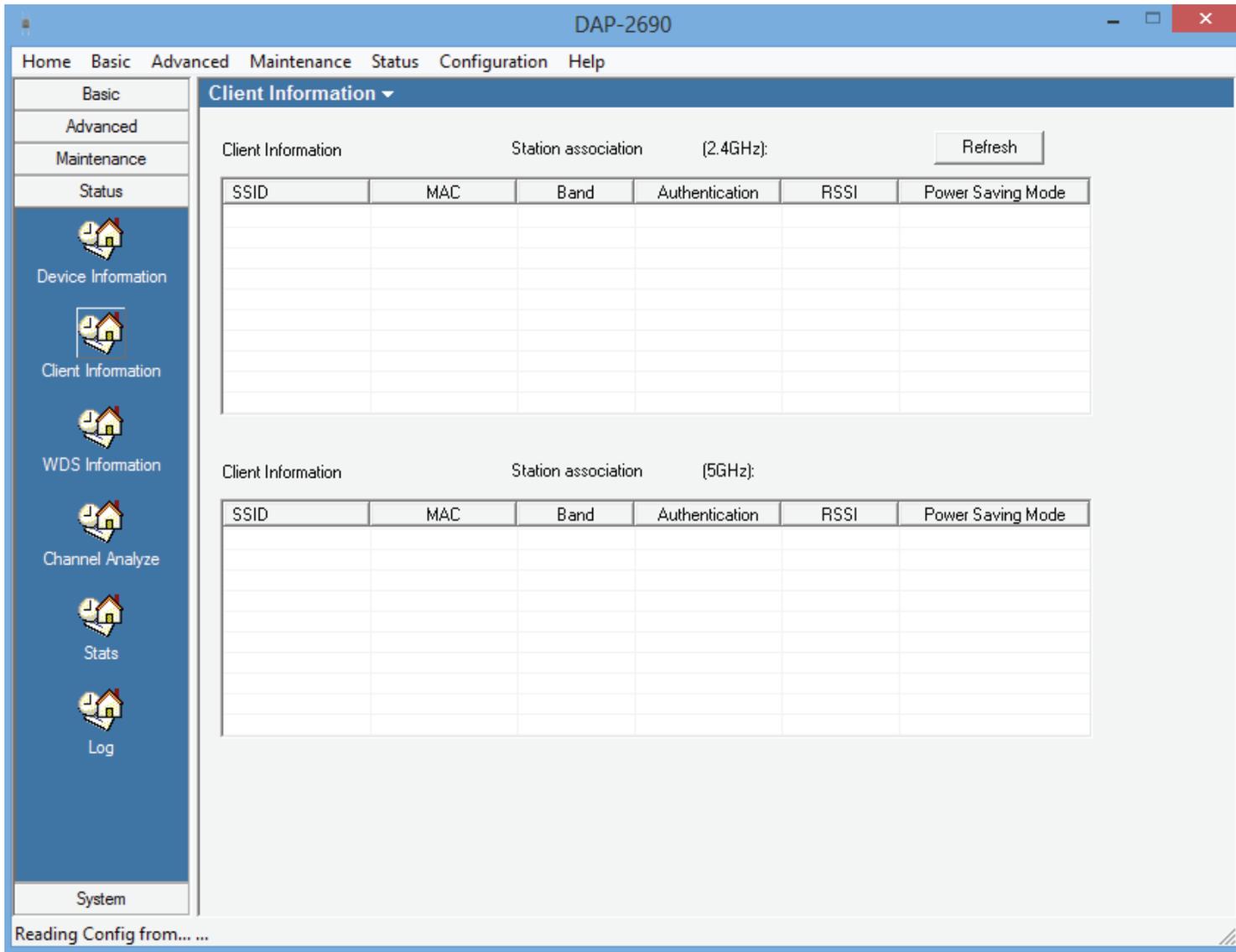
The Status section allows you to configure parameters pertaining to the current conditions of your Access Point. All statistics and functions can be analysed for clarity.



COMPONENT	DESCRIPTION
IPv6 Gateway2 Firmware Version	Describes the firmware version and number
Ethernet MAC Address	Describes the Access Points MAC details

Status - Client Information

The Client Information section denotes all information about the clients attached to the main Access Point. The table below shows all client access points attached to it. It provides information on SSID, MAC address, Band, Authentication, RSSI, and Power Saving Mode. Click the Refresh button to keep monitoring the devices. You can view the 2.4GHz and 5GHz spectrum.



The screenshot displays the web interface for a DAP-2690 device. The main navigation menu includes Home, Basic, Advanced, Maintenance, Status, Configuration, and Help. The left sidebar contains icons for Basic, Advanced, Maintenance, Status, Device Information, Client Information, WDS Information, Channel Analyze, Stats, Log, and System. The main content area is titled 'Client Information' and is divided into two sections: '2.4GHz' and '5GHz'. Each section has a 'Refresh' button and a table with the following columns: SSID, MAC, Band, Authentication, RSSI, and Power Saving Mode. The tables are currently empty.

Client Information Station association (2.4GHz): Refresh

SSID	MAC	Band	Authentication	RSSI	Power Saving Mode

Client Information Station association (5GHz):

SSID	MAC	Band	Authentication	RSSI	Power Saving Mode

Reading Config from... ..

Status - WDS Information

Wireless Distribution System is a technology that reads the wireless interconnection of Access Points. It allows for the expansion of multiple access points. This section displays information on the Channel name, the MAC address details, the Authentication, the Signal strength, and the Status.

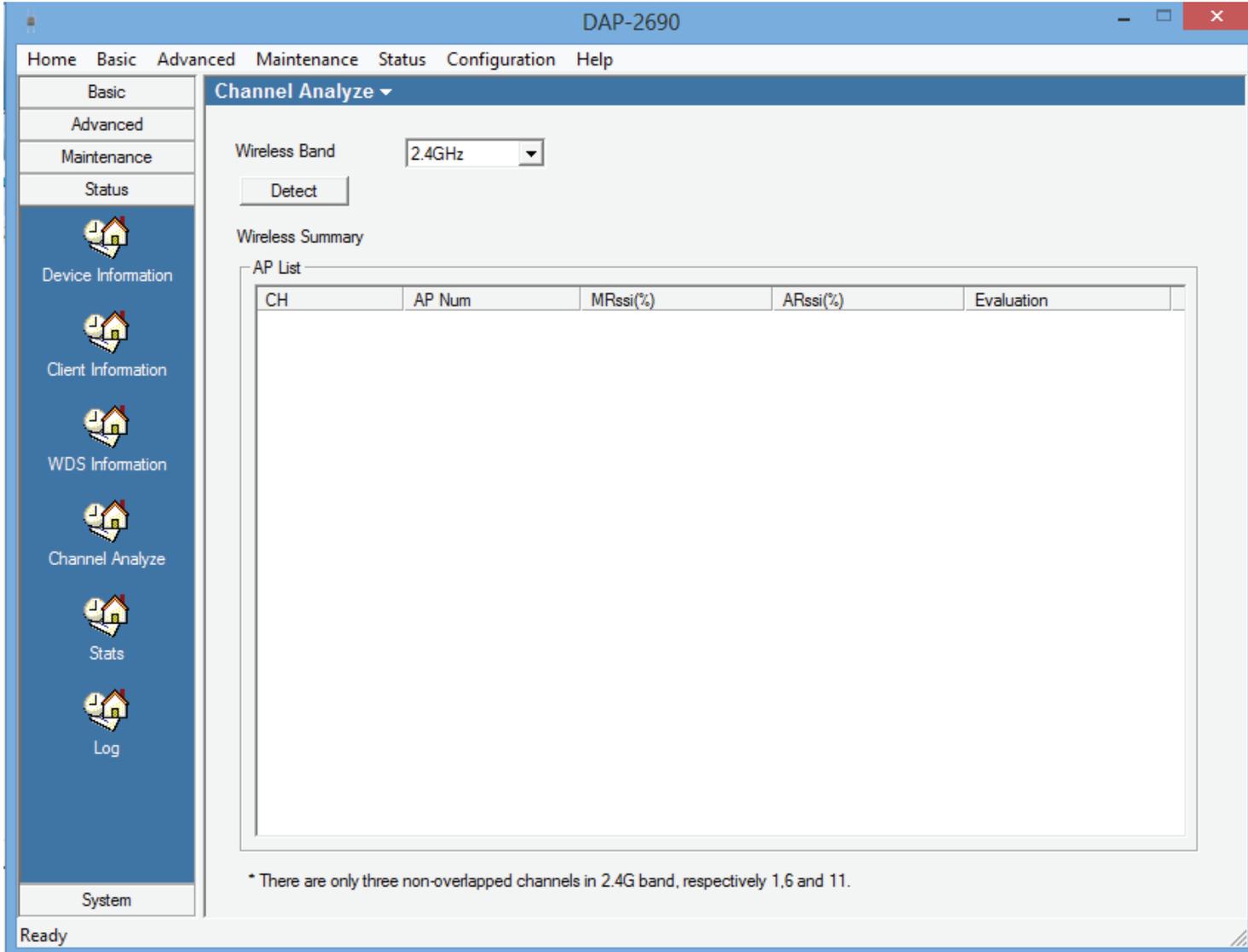
The screenshot shows the DAP-2690 web interface. The title bar indicates the device model. The navigation menu on the left includes: Home, Basic, Advanced, Maintenance, Status, Configuration, and Help. The 'Status' menu item is selected, and its sub-menu is expanded to show: Basic, Advanced, Maintenance, Status, Device Information, Client Information, WDS Information, Channel Analyze, Stats, Log, and System. The 'WDS Information' sub-menu is selected, and the main content area displays two identical empty tables. Each table has a 'Refresh' button to its right. The tables have the following columns: Name, MAC, Authentication, Signal, and Status. The status bar at the bottom left reads 'Reading Config from... ..'.

WDS Information Channel :				
Name	MAC	Authentication	Signal	Status

WDS Information Channel :				
Name	MAC	Authentication	Signal	Status

Status - Channel Analyze

Channel Analyze is a section where each wireless band is analyzed for quality and strength. Select either 2.4GHz or 5GHz. Click the Detect button. All summarized information will be displayed on the AP list. Information displayed are: Channel, Access Point number, MRssi percentage, and Evaluation.

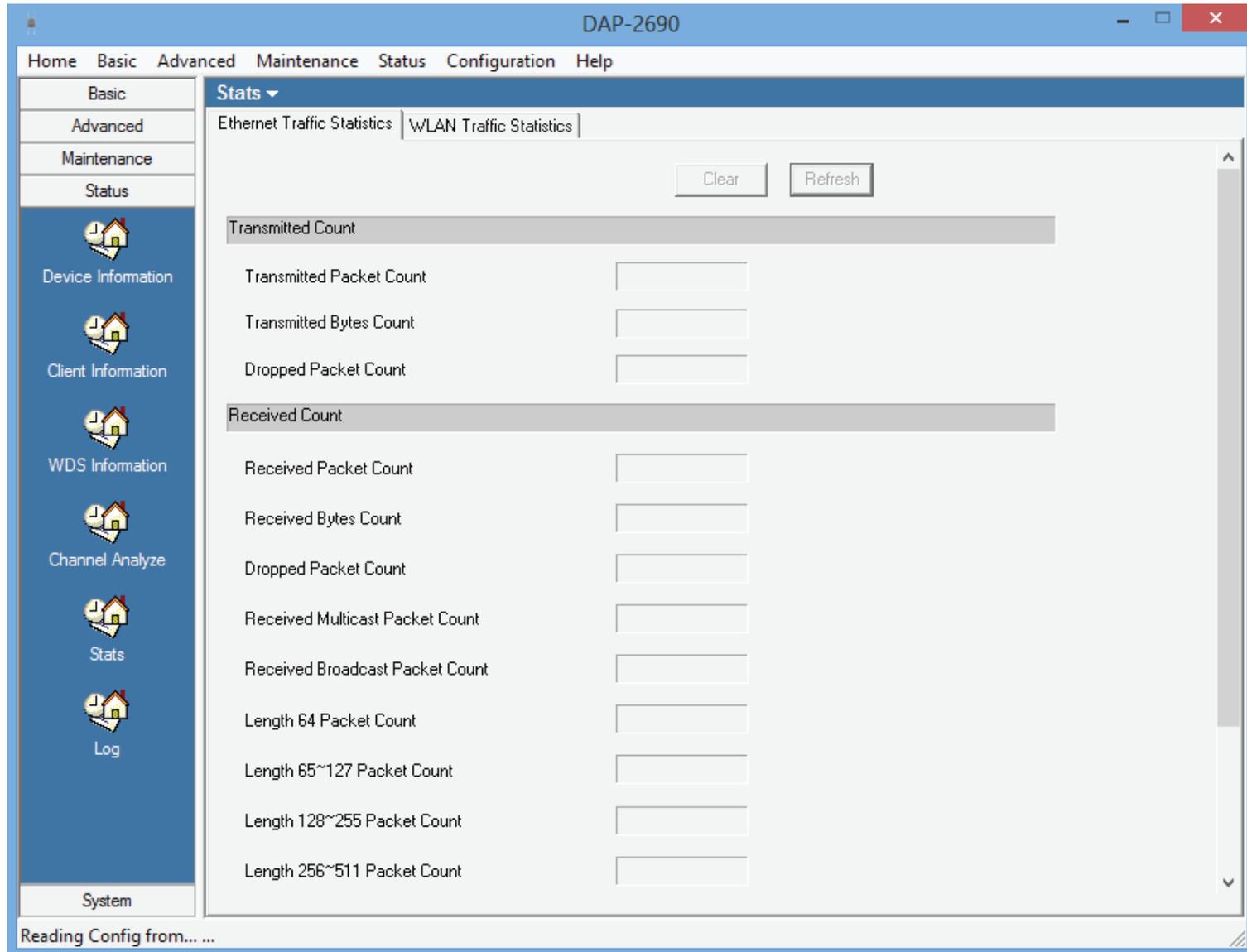


The screenshot displays the DAP-2690 web interface. The top navigation bar includes Home, Basic, Advanced, Maintenance, Status, Configuration, and Help. The left sidebar contains menu items: Basic, Advanced, Maintenance, Status, Device Information, Client Information, WDS Information, Channel Analyze (highlighted), Stats, Log, and System. The main content area is titled 'Channel Analyze' and contains a 'Wireless Band' dropdown menu set to '2.4GHz' and a 'Detect' button. Below this is a 'Wireless Summary' section with an 'AP List' table. The table has columns for CH, AP Num, MRssi(%), ARssi(%), and Evaluation. A note at the bottom states: '* There are only three non-overlapped channels in 2.4G band, respectively 1, 6 and 11.'

CH	AP Num	MRssi(%)	ARssi(%)	Evaluation
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Status - Stats - Ethernet Traffic Statistics

The Stats section provides information on Ethernet Traffic Statistics and WLAN Traffic Statistics.



The screenshot displays the web interface for a DAP-2690 device. The main menu includes Home, Basic, Advanced, Maintenance, Status, Configuration, and Help. The left sidebar contains navigation options: Basic, Advanced, Maintenance, Status, Device Information, Client Information, WDS Information, Channel Analyze, Stats, and Log. The 'Stats' section is active, showing 'Ethernet Traffic Statistics' and 'WLAN Traffic Statistics' tabs. Below the tabs are 'Clear' and 'Refresh' buttons. The main content area is divided into two sections: 'Transmitted Count' and 'Received Count'. Each section contains a list of statistics with corresponding input fields.

Transmitted Count	
Transmitted Packet Count	<input type="text"/>
Transmitted Bytes Count	<input type="text"/>
Dropped Packet Count	<input type="text"/>

Received Count	
Received Packet Count	<input type="text"/>
Received Bytes Count	<input type="text"/>
Dropped Packet Count	<input type="text"/>
Received Multicast Packet Count	<input type="text"/>
Received Broadcast Packet Count	<input type="text"/>
Length 64 Packet Count	<input type="text"/>
Length 65~127 Packet Count	<input type="text"/>
Length 128~255 Packet Count	<input type="text"/>
Length 256~511 Packet Count	<input type="text"/>

Reading Config from... ..

COMPONENT	DESCRIPTION
Clear	Click the Clear button to delete all stats posted
Refresh	Click the Refresh button to display an up-to-date stat report
Transmitted Count	
Transmitted Packet Count	Displays the transmitted packets
Transmitted Byte Count	Displays the transmitted bytes
Dropped Packet Count	Displays the amount of packets dropped
Received Count	
Received Packet Count	Displays the packets received
Received Byte Count	Displays the bytes received
Dropped Packet Count	Displays the amount of packets dropped
Received Multicast Packet Count	Displays the multicast packets
Received Broadcast Packet Count	Displays the broadcasted packets
Length 64 Packet Count	Displays 64 bit packet data
Length 65~127 Packet Count	Displays the packet in that data range
Length 128~255 Packet Count	Displays the packets in that data range
Length 256~511 Packet Count	Displays the packets in that data range
Length 512~1023 Packet Count	Displays the packets in that data range
Length 1024~1518 Packet Count	Displays the packets in that data range
Length 1519~max. Packet Count	Displays the packets in that data range

Status - Stats - WLAN Traffic Statistics

The Stats section provides information on Ethernet Traffic Statistics and WLAN Traffic Statistics.

The screenshot displays the 'Stats' section of the D-Link AP Manager II v3.0 software. It features two tabs: 'Ethernet Traffic Statistics' and 'WLAN Traffic Statistics'. The 'WLAN Traffic Statistics' tab is active. At the top right, there are 'Clear' and 'Refresh' buttons. Below these are two columns for '2.4GHz' and '5GHz'. The statistics are divided into 'Transmitted Count' and 'Received Count' sections. Each section lists various metrics with corresponding numerical values in input fields.

	2.4GHz	5GHz
Transmitted Count		
Transmitted Packet Count	368	10
Transmitted Bytes Count	85511	2510
Dropped Packet Count	11	11
Transmitted Retry Count	0	0
Received Count		
Received Packet Count	0	0
Received Bytes Count	0	0
Dropped Packet Count	0	0
Received CRC Count	1084	1
Received Decryption Error Count	0	0
Received MIC Error Count	0	0
Received PHY Error Count	1164	0

These statistical information are presented in 2.4GHz and 5GHz formats.

COMPONENT	DESCRIPTION
Clear	Click the Clear button to delete all stats posted
Refresh	Click the Refresh button to display an up-to-date stat report
Transmitted Count	
Transmitted Packet Count	Displays the transmitted packets
Transmitted Byte Count	Displays the transmitted bytes
Dropped Packet Count	Displays the amount of packets dropped
Received Count	
Received Packet Count	Displays the packets received
Received Byte Count	Displays the bytes received
Dropped Packet Count	Displays the amount of packets dropped
Received Multicast Packet Count	Displays the multicast packets
Received Broadcast Packet Count	Displays the broadcasted packets
Length 64 Packet Count	Displays 64 bit packet data
Length 65~127 Packet Count	Displays the packet in that data range
Length 128~255 Packet Count	Displays the packets in that data range
Length 256~511 Packet Count	Displays the packets in that data range
Length 512~1023 Packet Count	Displays the packets in that data range
Length 1024~1518 Packet Count	Displays the packets in that data range
Length 1519~max. Packet Count	Displays the packets in that data range

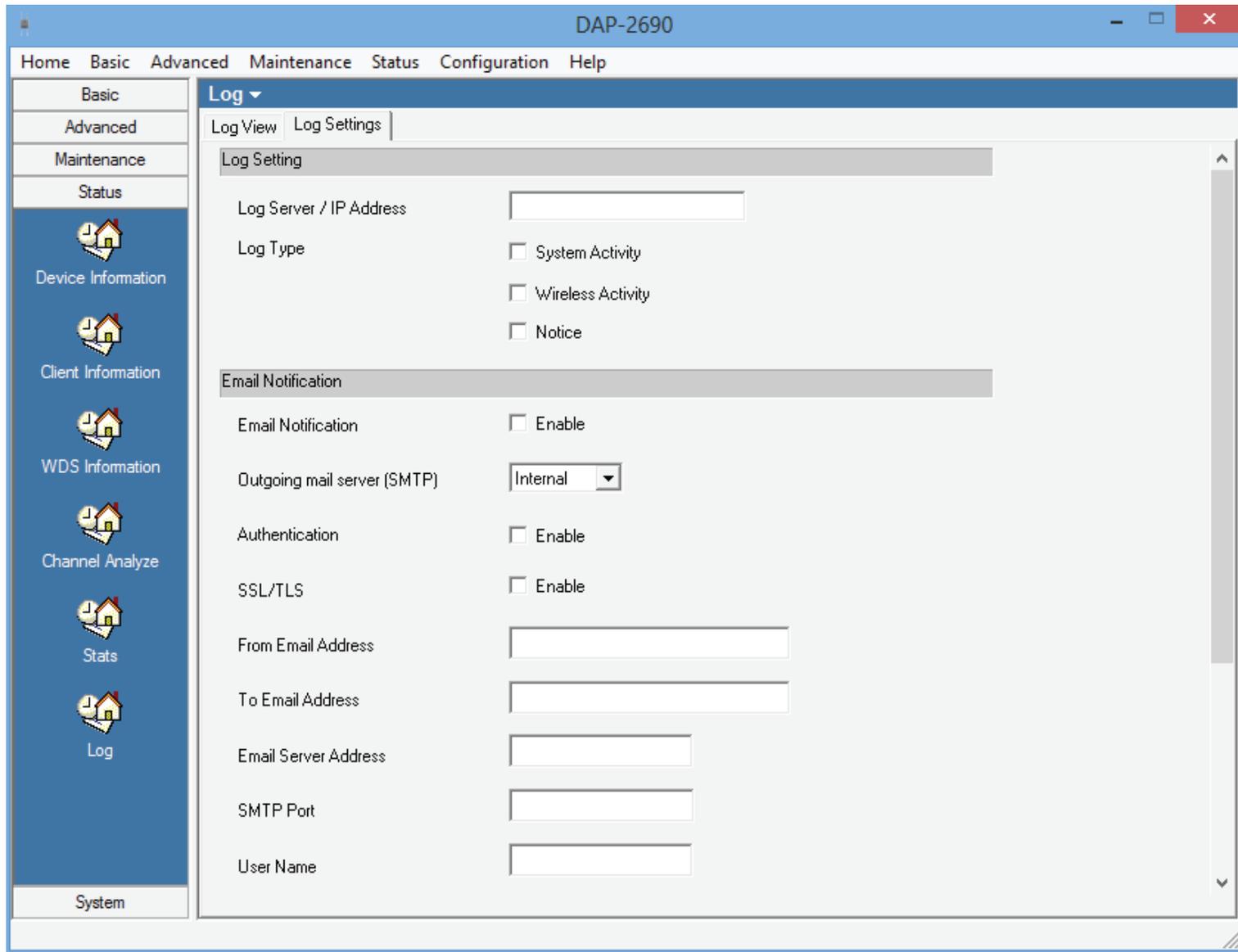
Status - Log - Log View

The Log section is divided into two parts, Log View and Log Settings. Under Log View click Clear to restart the log process and click Refresh to renew log information.

The screenshot displays the web interface for a DAP-2690 device. The title bar shows 'DAP-2690'. The navigation menu on the left includes 'Home', 'Basic', 'Advanced', 'Maintenance', 'Status', 'Configuration', and 'Help'. The 'Status' menu is expanded, showing 'Log' as the selected option. The main content area is titled 'Log' and contains two tabs: 'Log View' (selected) and 'Log Settings'. Below the tabs, it shows 'Total Log: 0' and two buttons: 'Clear' and 'Refresh'. A table with three columns: 'Time', 'Priority', and 'Message' is present but empty. At the bottom of the interface, a status message reads '(SNMPClass) SNMP request timed out!'.

Status - Log - Log Settings

Change the Log Settings here based on the following criteria:



The screenshot displays the DAP-2690 web interface. The top navigation bar includes Home, Basic, Advanced, Maintenance, Status, Configuration, and Help. The left sidebar contains a menu with the following items: Basic, Advanced, Maintenance, Status, Device Information, Client Information, WDS Information, Channel Analyze, Stats, Log, and System. The 'Log' menu item is selected, and the 'Log Settings' sub-tab is active. The main content area is divided into two sections: 'Log Setting' and 'Email Notification'. The 'Log Setting' section includes a text input field for 'Log Server / IP Address', a 'Log Type' section with three checkboxes for 'System Activity', 'Wireless Activity', and 'Notice', and an 'Email Notification' section with several settings: 'Email Notification' (checkbox), 'Outgoing mail server (SMTP)' (dropdown menu set to 'Internal'), 'Authentication' (checkbox), and 'SSL/TLS' (checkbox). Below these are five text input fields for 'From Email Address', 'To Email Address', 'Email Server Address', 'SMTP Port', and 'User Name'.

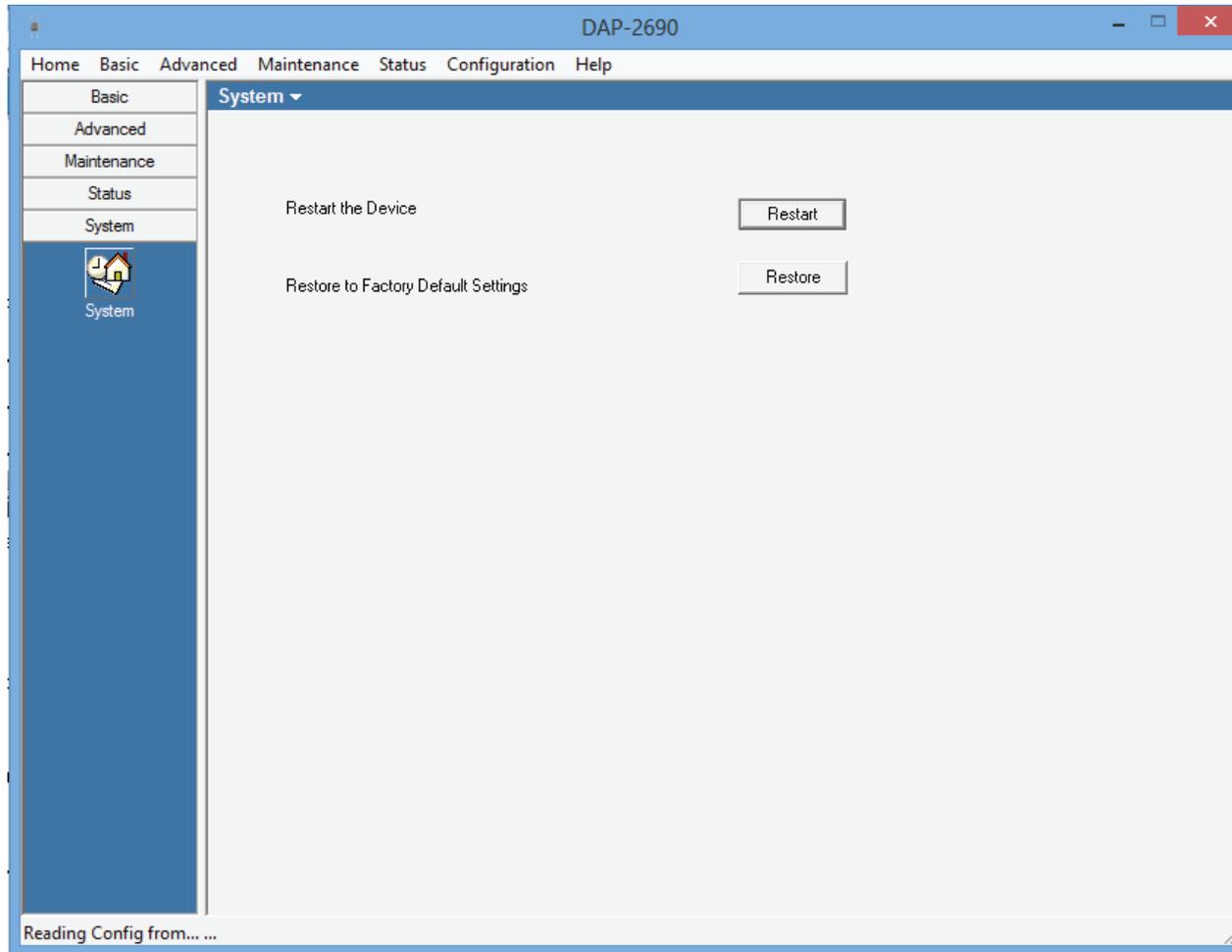
Field	Value / Option
Log Server / IP Address	[Text Input]
Log Type	<input type="checkbox"/> System Activity <input type="checkbox"/> Wireless Activity <input type="checkbox"/> Notice
Email Notification	<input type="checkbox"/> Enable
Outgoing mail server (SMTP)	Internal
Authentication	<input type="checkbox"/> Enable
SSL/TLS	<input type="checkbox"/> Enable
From Email Address	[Text Input]
To Email Address	[Text Input]
Email Server Address	[Text Input]
SMTP Port	[Text Input]
User Name	[Text Input]

Section 4 - Configuration

COMPONENT	DESCRIPTION
Log Server/IP Address	Enter the log server IP address information
Log Type	Click the checkbox to activate logging for System Activity Click the checkbox to activate logging for Wireless Activity Click the checkbox to activate logging for notifications
Email Notifications	
Email Notifications	Click the checkbox to Enable
Outgoing mail server	Select from internal mail server, Gmail server or Hotmail server
Authentication	Click the checkbox to enable
SSL/TLS	Click the checkbox to enable
From Email Address	Enter the email address details in this field
To Email Address	Enter the email address details in this field
Email Server Address	Enter the email server address details here
SMTP Port	Enter the port details here
User Name	Enter the username you wish to use
Password	Enter the password details here
Confirm Password	Enter the password a second time to reconfirm it
Email Log Schedule	
Schedule	Schedule within the time frame provided on the drop-down list
Save	Click the Save button to save your configuration

System

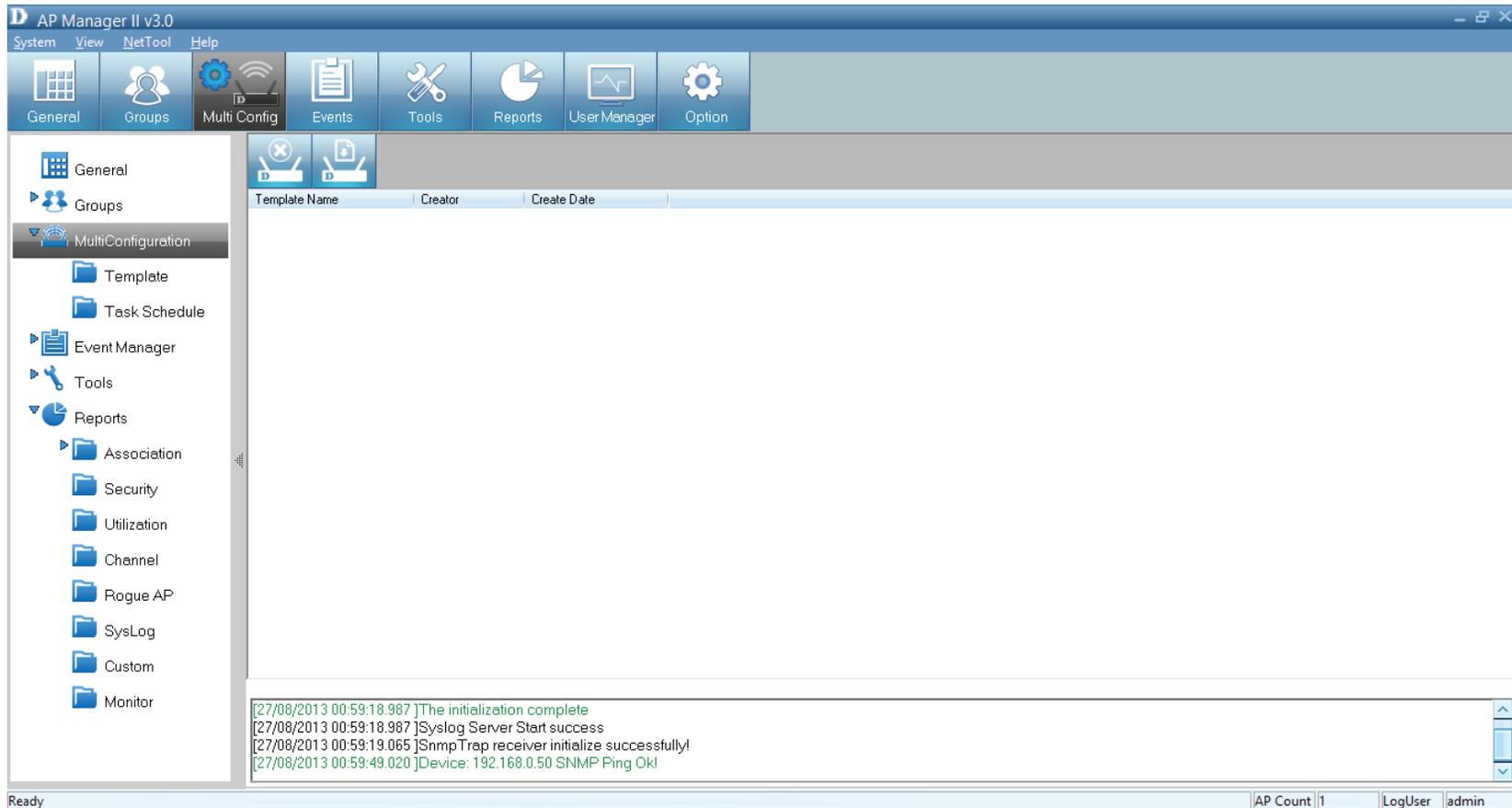
System, allows you to return to factory default and restart the device



COMPONENT	DESCRIPTION
Restart the Device	Click the Restart button to restart the device
Restore to Factory Default Settings	Click the Restore button to go back to factory settings

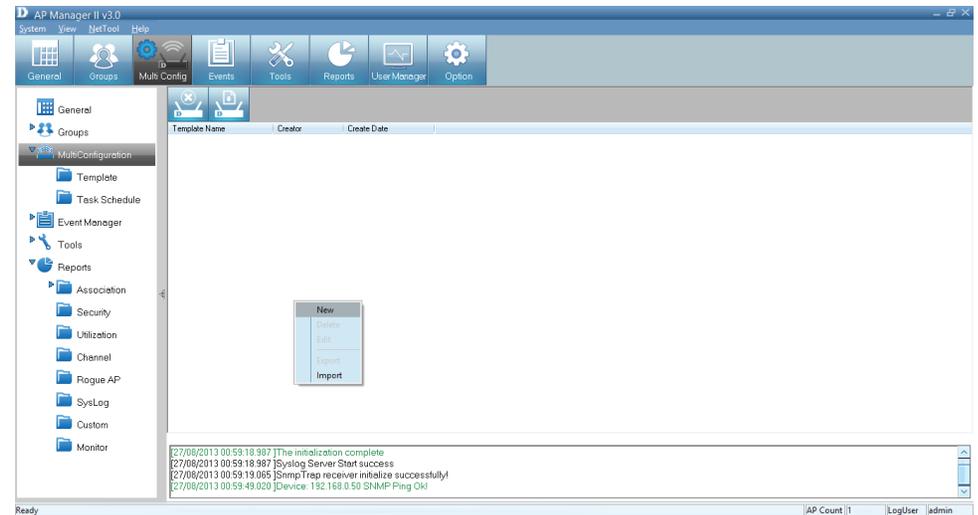
AP Manager II v3.0 - Multi Configuration

Administrators can manage the configuration of Access Points. AP Manager II v3.0 does this using a template. The same profile can be used for multiple Access Points. Each template profile has unique settings which include System, Wireless, Security and Filter settings.



AP Manager II v3.0 - Multi Configuration - Create a new template

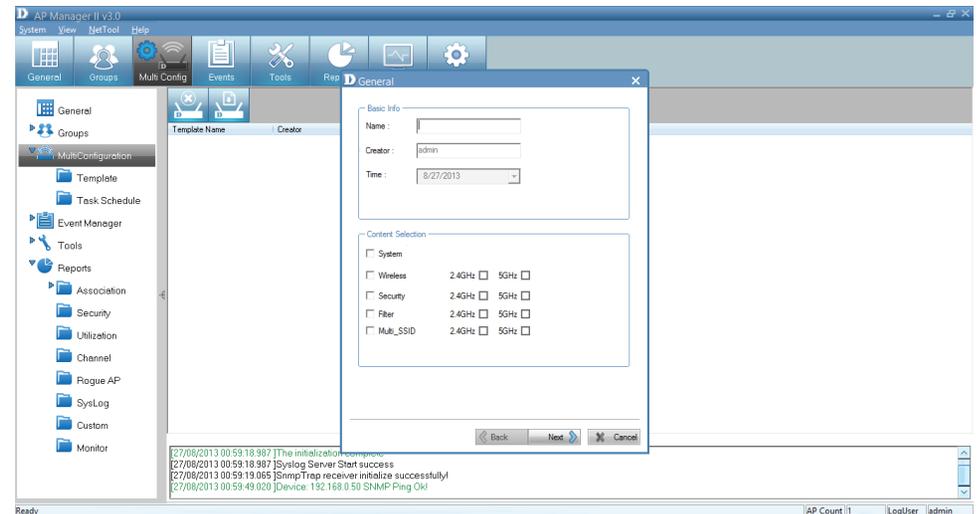
To create a new template, right-click anywhere on the template view window and select the New item.



Under **General, Basic Info** type in a name for the new configuration. A **creator** is already selected under **Admin**, the time is already set.

Under **Content Selection**, click the checkbox to configure. There are **System**, **Wireless** (2.4GHz/5GHz), **Security** (2.4GHz/5GHz), **Filter** (2.4GHz/5GHz), and **Multi_SSID** (2.4GHz/5GHz) options.

Click **Next** to continue.

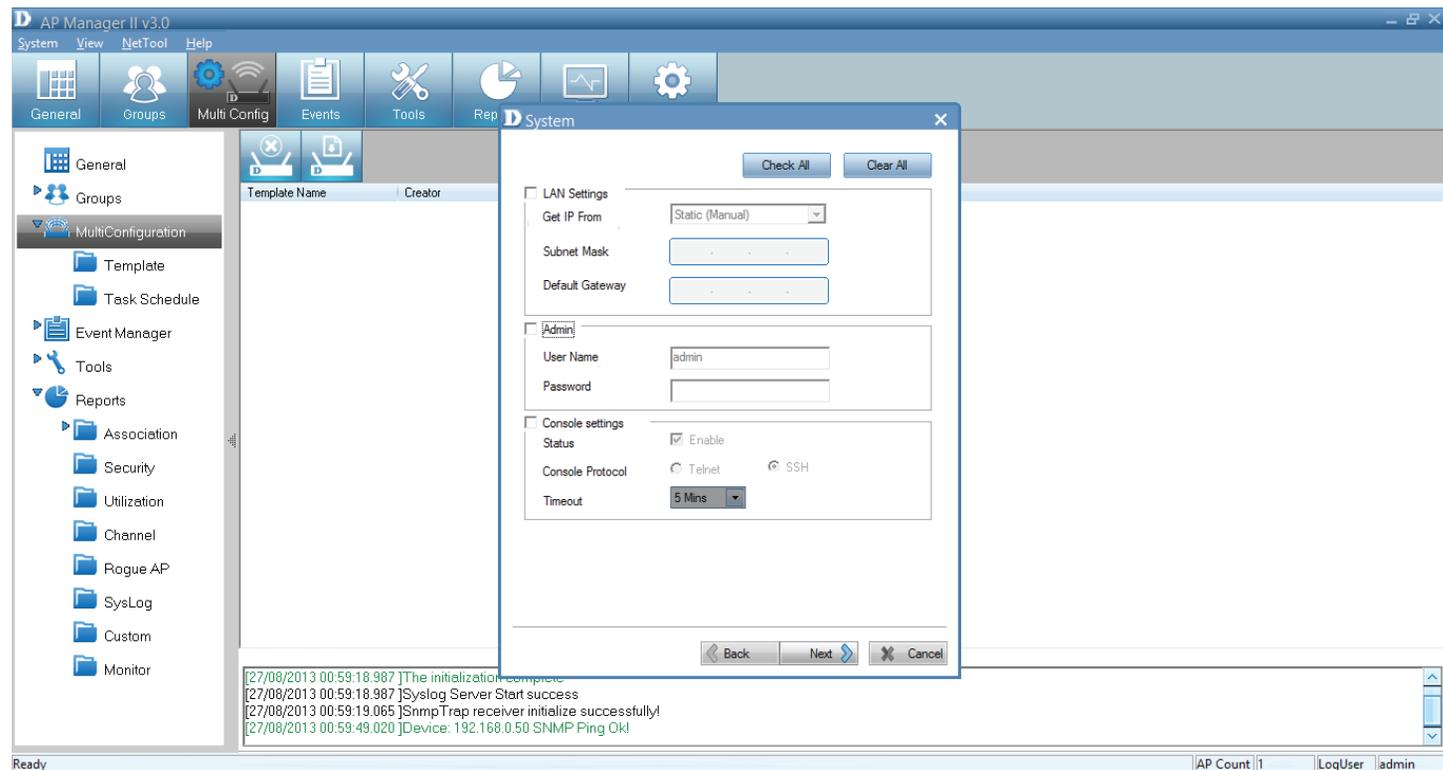


Under **System**, click the **LAN Settings** checkbox and configure the **IP (Static or Dynamic)**, enter **Subnet** details, and **Default Gateway** options.

For **Admin**, enter a **username and password**

For **Console Settings**, select to enable it, select the **Console Protocol** and the **timeout** period.

Click **Next** to continue



Under **Wireless 5GHz**, you have the option to set the following:

- SSID** - Enter a name for the SSID
- Channel** - Select between Auto or a configurable range
- SSID Broadcast** - Click to enable it
- Data Rate** - Select Auto or the speed option
- RTS Length** - Enter a range
- Beacon Interval** - Enter a range
- Fragment Length** - Enter a value
- DTIM** - Enter an appropriate value
- Radio** - Select to turn this feature on or off
- 11n Channel Width** - Select the range

If you are unsure of all the settings, there is also the option to **Check All**.

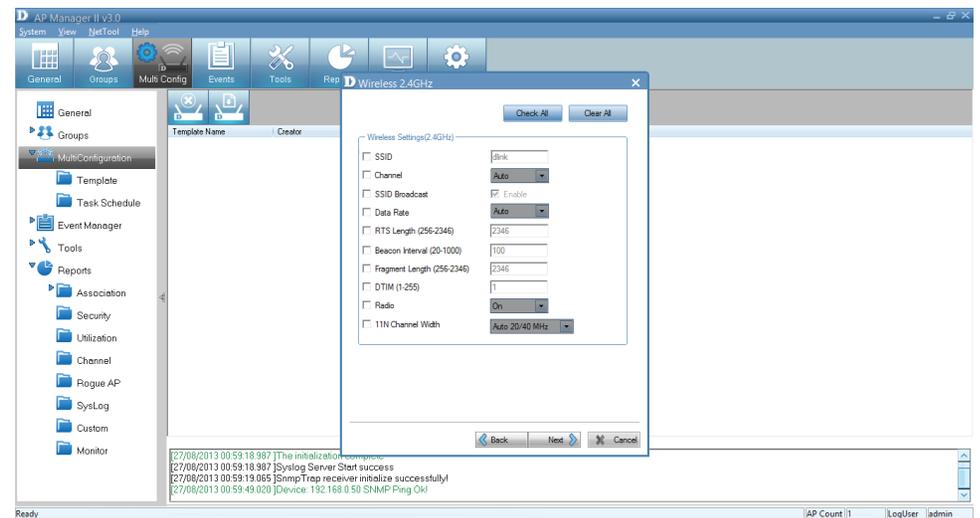
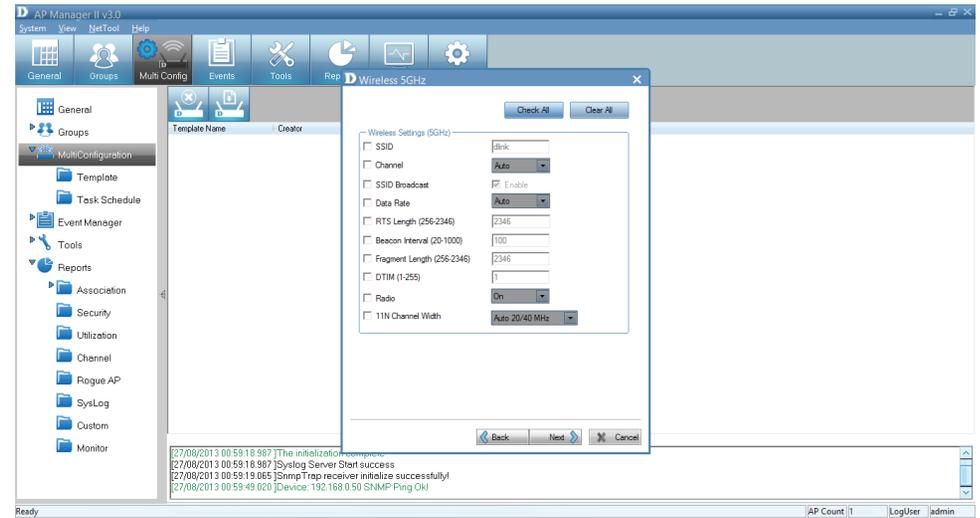
Click **Next** to continue

Under **Wireless 2.4GHz**, you have the option to set the following:

- SSID** - Enter a name for the SSID
- Channel** - Select between Auto or a configurable range
- SSID Broadcast** - Click to enable it
- Data Rate** - Select Auto or the speed option
- RTS Length** - Enter a range
- Beacon Interval** - Enter a range
- Fragment Length** - Enter a value
- DTIM** - Enter an appropriate value
- Radio** - Select to turn this feature on or off
- 11n Channel Width** - Select the range

If you are unsure of all the settings, there is also the option to **Check All**.

Click **Next** to continue



Under **Security 5GHz**, you have the option to set the following:

Authentication - Select between an Open System, Shared Key, Open System/Shared Key, WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WPA-Auto-Personal, and WPA-Auto-Enterprise

Key Settings - Select to enable the device then Key Type, Key Size, Valid Key, and Key Value

WPA - Set the following parameters: Cipher Type, Group Key Update Interval, Pass Phrase, RADIUS Server, Port, and RADIUS Secret.

Click **Next** to continue.

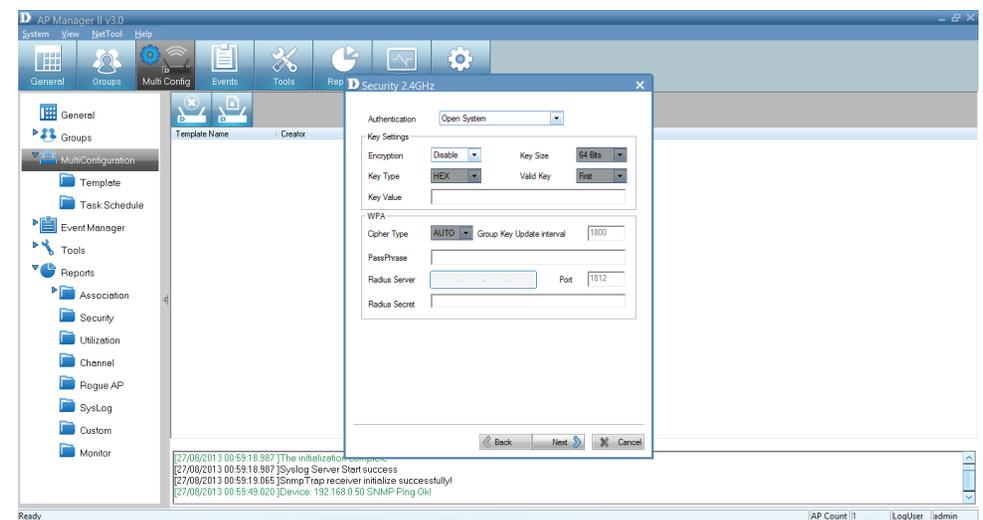
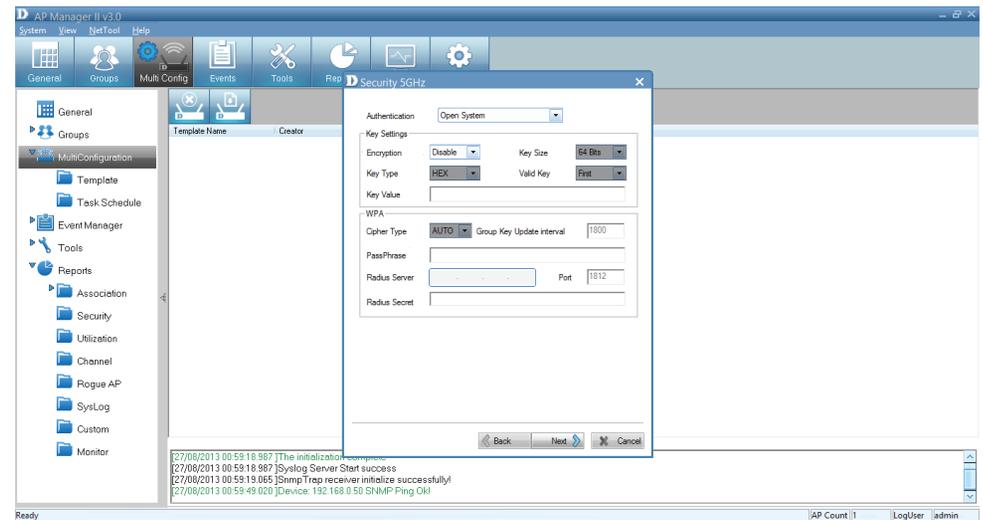
Under **Security 2.4GHz**, you have the option to set the following:

Authentication - Select between an Open System, Shared Key, Open System/Shared Key, WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WPA-Auto-Personal, and WPA-Auto-Enterprise

Key Settings - Select to enable the device then Key Type, Key Size, Valid Key, and Key Value

WPA - Set the following parameters: Cipher Type, Group Key Update Interval, Pass Phrase, RADIUS Server, Port, and RADIUS Secret.

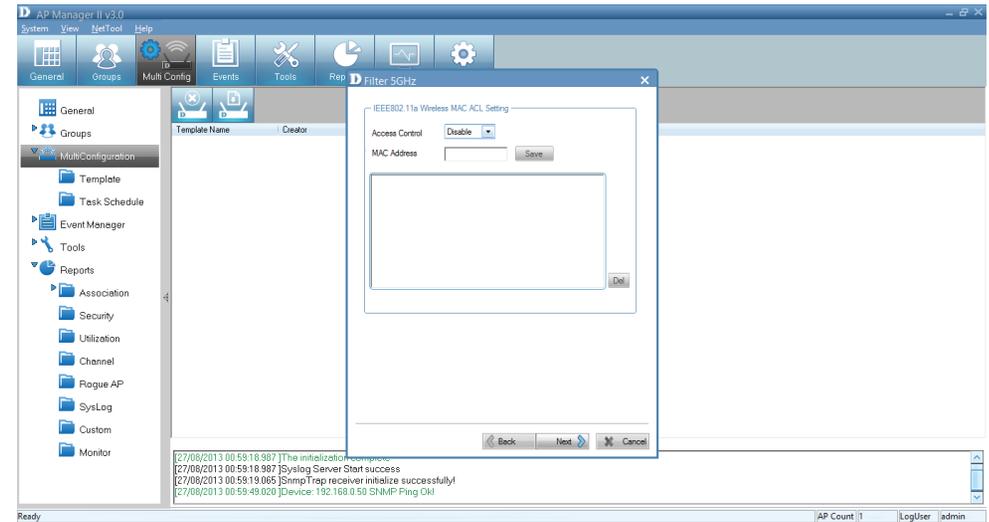
Click **Next** to continue.



Under **Filter 5GHz**, the IEEE802.11a Wireless MAC ACL Settings, select the Access Control method, enter a MAC Address, and click Save.

Use **Del** if you wish to delete an item.

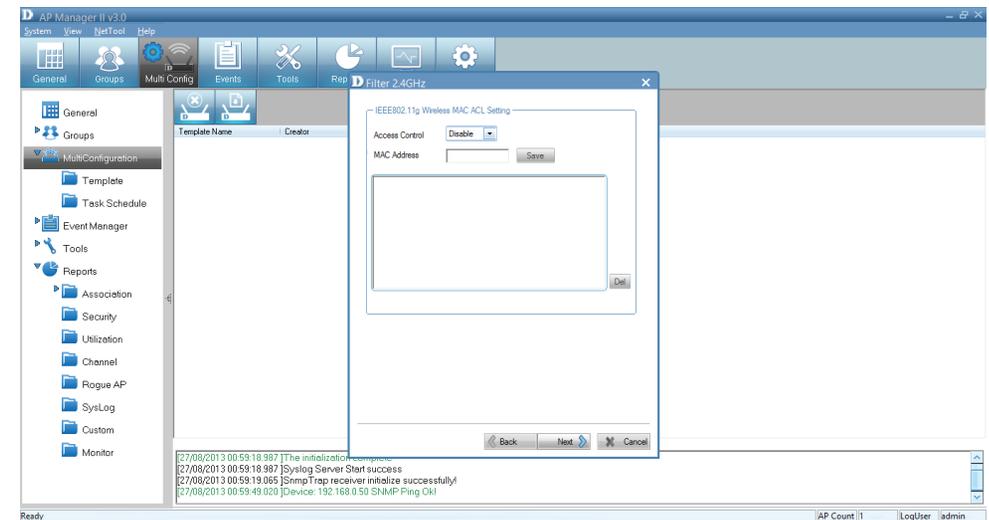
Click **Next** to continue.



Under **Filter 2.4GHz**, the IEEE802.11g Wireless MAC ACL Settings, select the Access Control method, enter a MAC Address, and click Save.

Use **Del** if you wish to delete an item.

Click **Next** to continue.

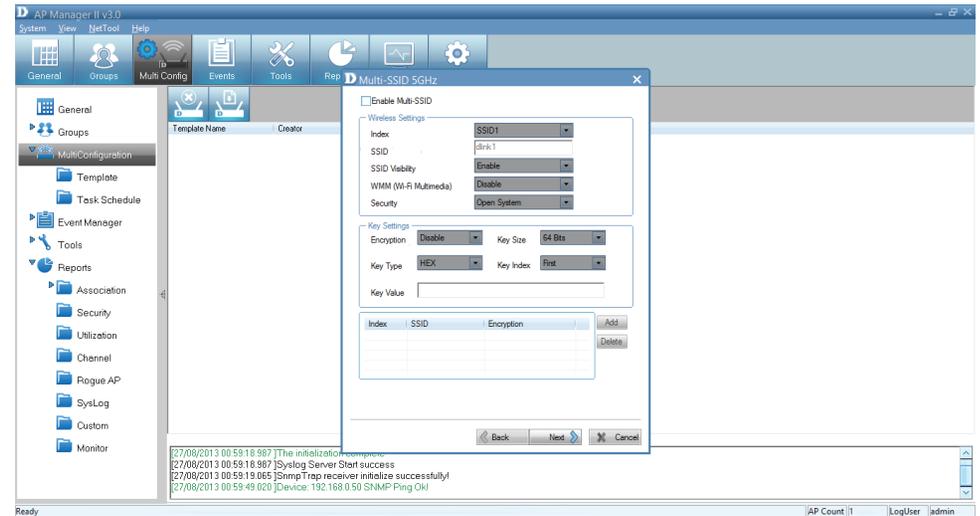


Under **Multi SSID 5GHz**, select to enable the feature. The Wireless Settings allow you to index it by SSID number or name. Enter an SSID name, select the SSID visibility, select to enable/disable WMM settings, and select a Security method.

Key Settings - Select to enable the device then Key Type, Key Size, Valid Key, and Key Value

The table below populates with data. Use the Add button to add info or the Delete button to delete parameters.

Click **Next** to continue.

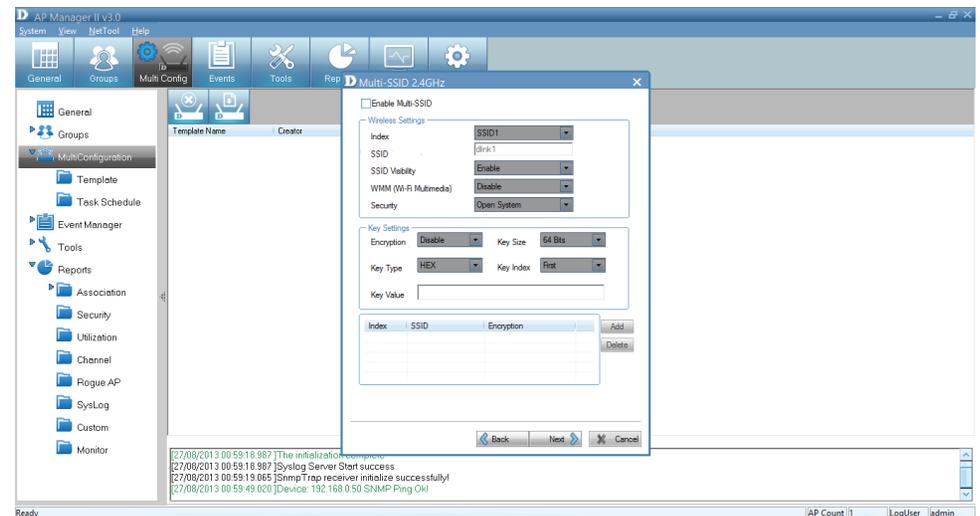


Under **Multi SSID 5GHz**, select to enable the feature. The Wireless Settings allow you to index it by SSID number or name. Enter an SSID name, select the SSID visibility, select to enable/disable WMM settings, and select a Security method.

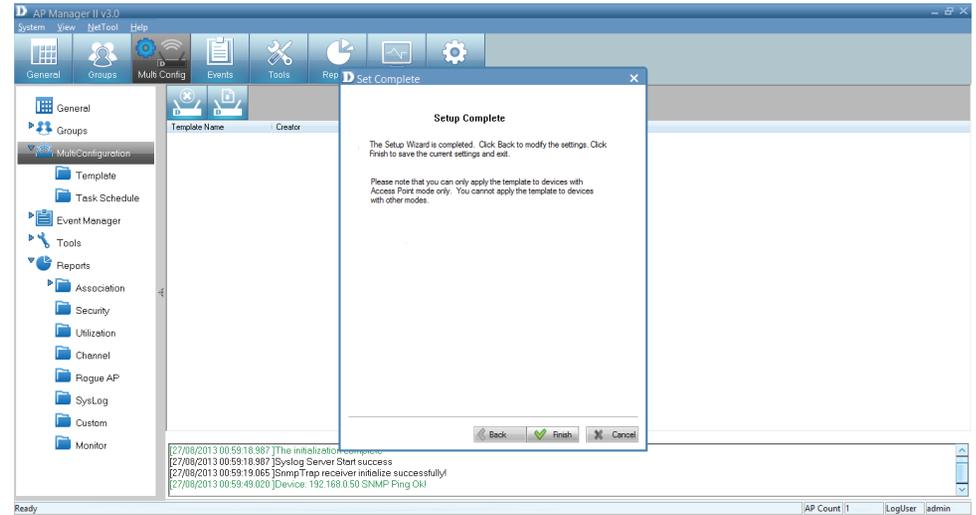
Key Settings - Select to enable the device then Key Type, Key Size, Valid Key, and Key Value

The table below populates with data. Use the Add button to add info or the Delete button to delete parameters.

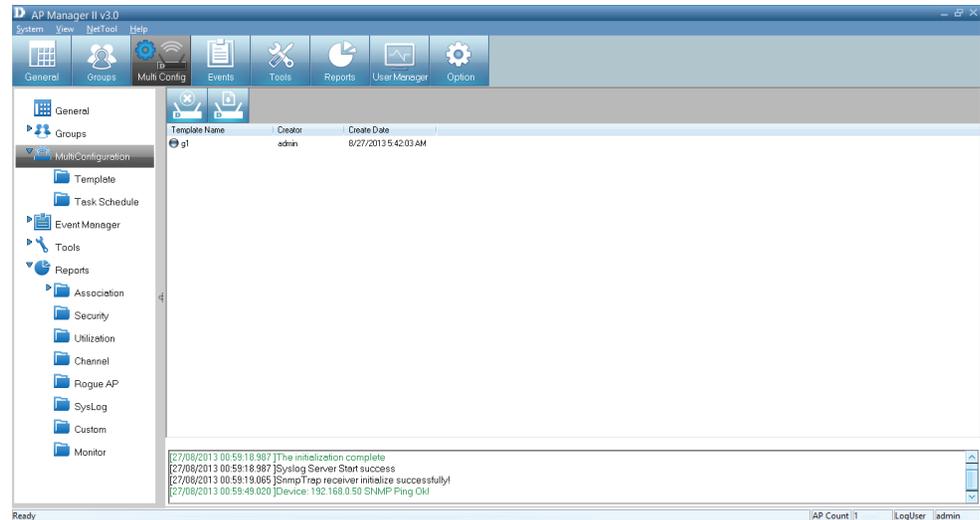
Click **Next** to continue.



The **Template setup** is complete. Read the instructions and click **Finish**.



The new Template is now in the Multi Config window.



AP Manager II v3.0 - Edit a Template

To edit a template, double-click the template or right-click the template and select Edit item from the drop-down menu.

Update

Security 2.4GHz Filter 5GHz Filter 2.4GHz

Multi-SSID 5GHz Multi-SSID 2.4GHz

General System Wireless 5GHz Wireless 2.4GHz Security 5GHz

Basic Info

Name :

Creator :

Time :

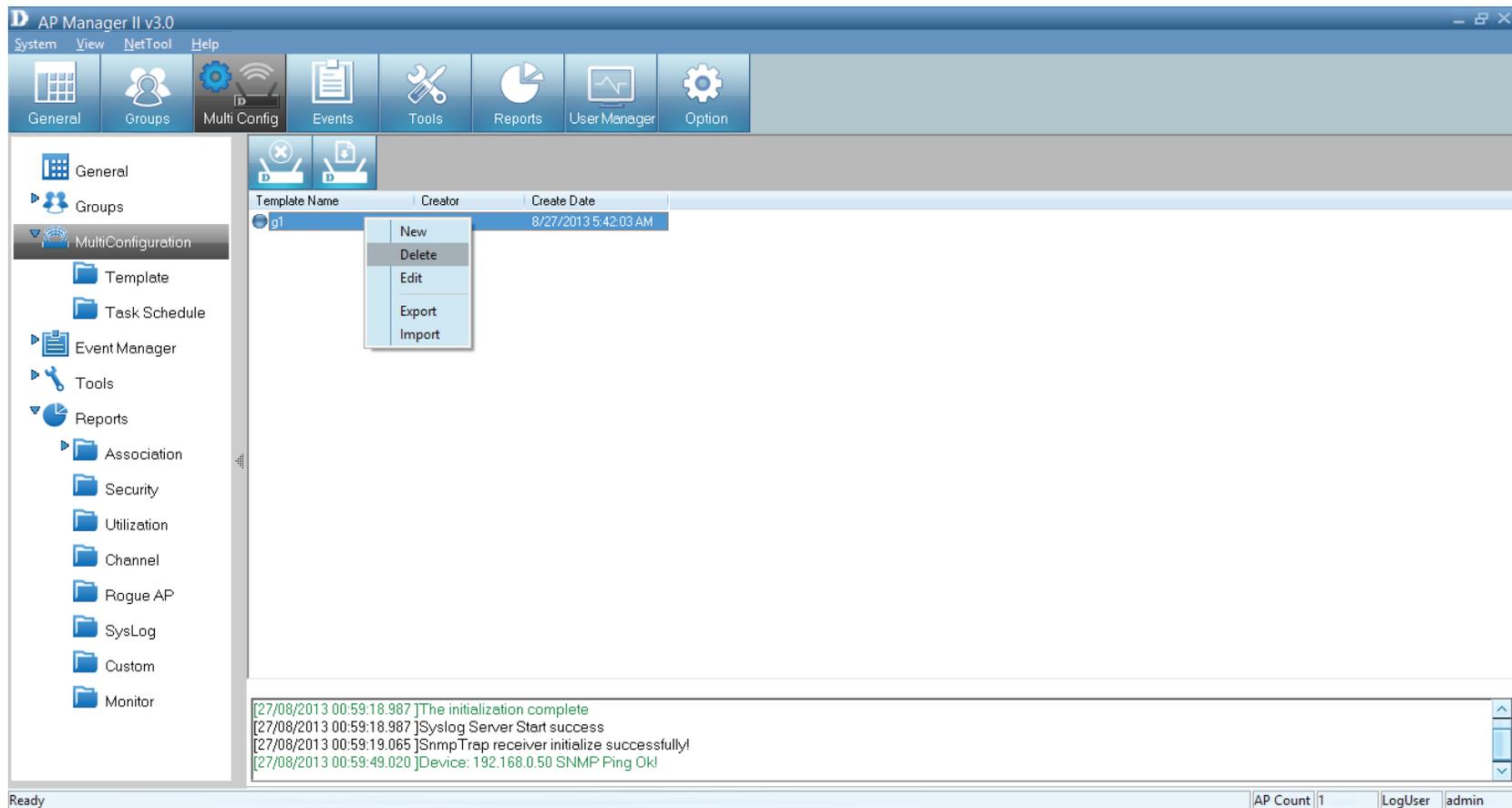
Content Selection

<input checked="" type="checkbox"/> System		
<input checked="" type="checkbox"/> Wireless	2.4GHz <input checked="" type="checkbox"/>	5GHz <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Security	2.4GHz <input checked="" type="checkbox"/>	5GHz <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Filter	2.4GHz <input checked="" type="checkbox"/>	5GHz <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Multi_SSID	2.4GHz <input checked="" type="checkbox"/>	5GHz <input checked="" type="checkbox"/>

Ok Cancel

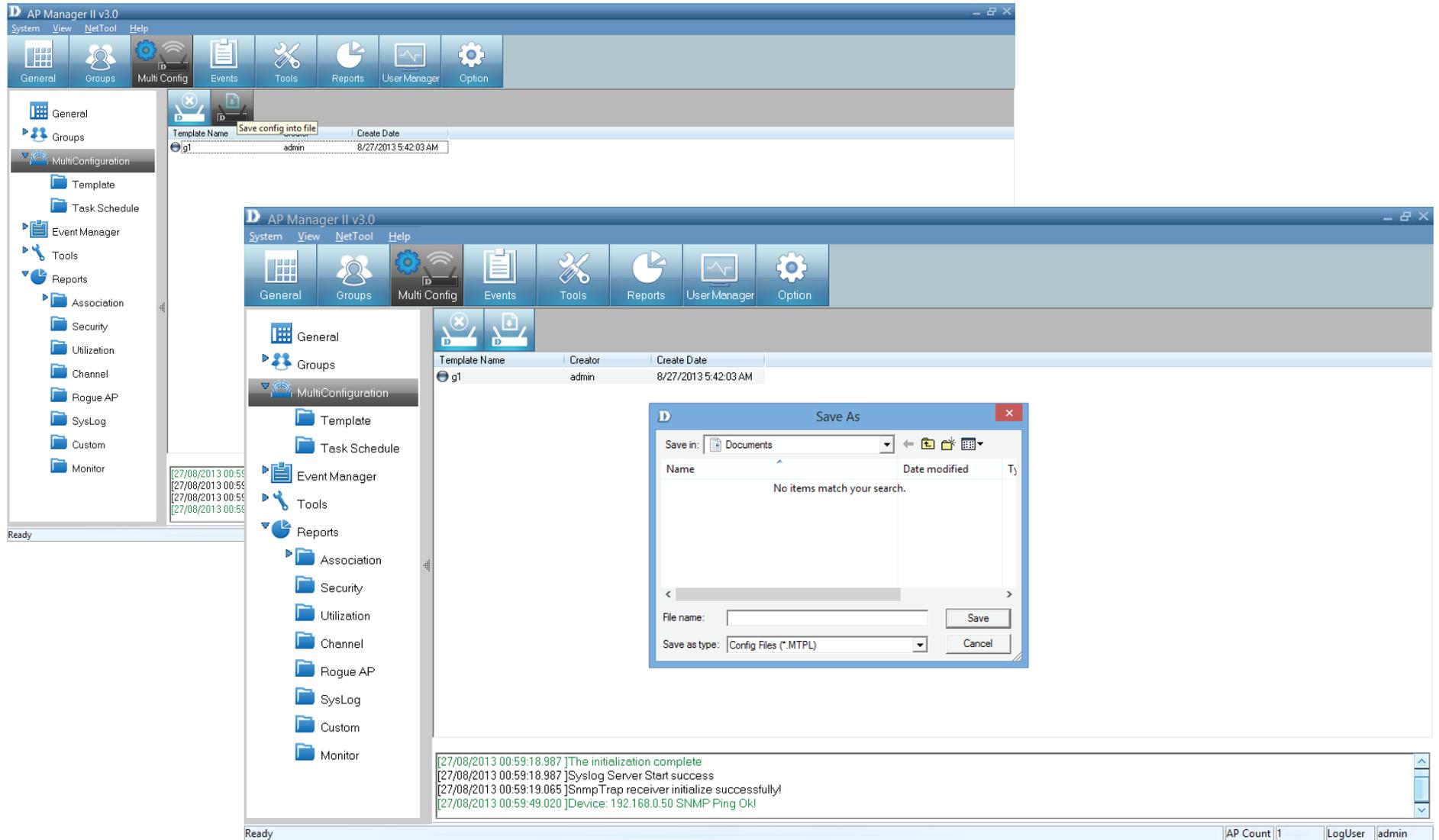
AP Manager II v3.0 - Delete a Template

To delete an existing template, right-click the template, and select the Delete item from the drop-down menu or click the Delete icon.



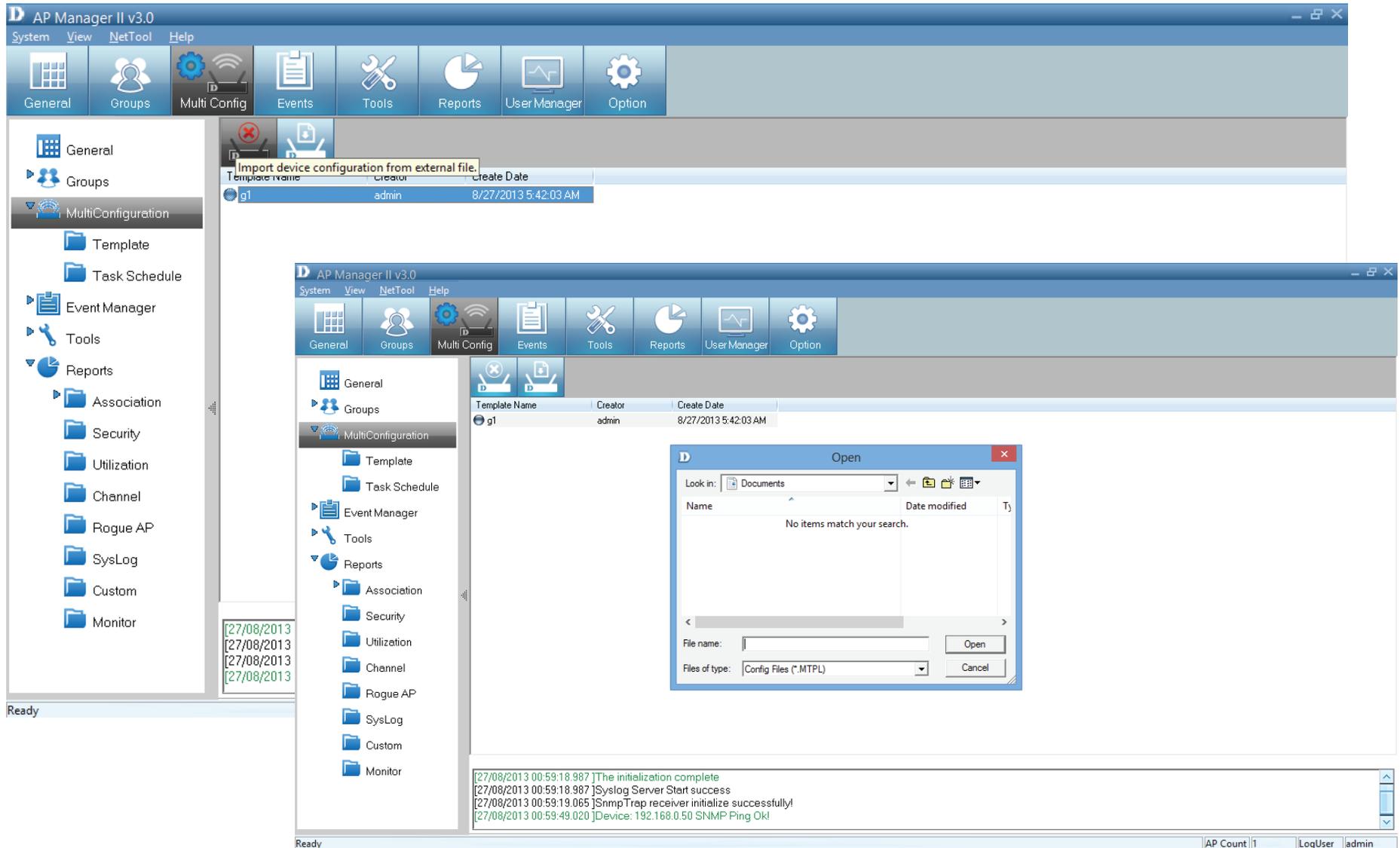
AP Manager II v3.0 - Save the Configuration

To save the configuration file, just click the right icon. A menu pops up for you to save it.



AP Manager II v3.0 - Import the Configuration

To Import a configuration file, click the import file above the template window.



Section 4 - Configuration

When you scroll through the MultiConfiguration options, you will notice that it has a Template folder. The Template folder is the folder you created in previous pages.

Click Task Scheduler to see the main configuration options - Config Comparison, Upgrade Firmware (FW), and MultiConfig. To enable each one, click the Enable radio button.

The screenshot displays the AP Manager II v3.0 software interface. The main window is titled "AP Manager II v3.0" and has a menu bar with "System", "View", "NetTool", and "Help". Below the menu bar is a toolbar with icons for "General", "Groups", "Multi Config", "Events", "Tools", "Reports", "User Manager", and "Option".

The left sidebar contains a tree view with the following items: General, Groups, MultiConfiguration (expanded), Template, Task Schedule, Event Manager, Tools, Reports, Association, Security, Utilization, Channel, Rogue AP, SysLog, Custom, and Monitor.

The main content area is divided into three sections, each with a radio button to toggle between "Disable" and "Enable":

- Config Comparison:** Toggled to "Disable". It contains a table with columns: Task Name, Activity, Next Run Time, Status, and Result. Buttons for "New", "Edit", and "Delete" are in the top right.
- Upgrade FW:** Toggled to "Disable". It contains a table with columns: Task Name, Activity, Next Run Time, Status, and Result. Buttons for "New", "Edit", and "Delete" are in the top right.
- MultiConfig:** Toggled to "Disable". It contains a table with columns: Task Name, Activity, Next Run Time, Status, and Result. Buttons for "New", "Edit", and "Delete" are in the top right.

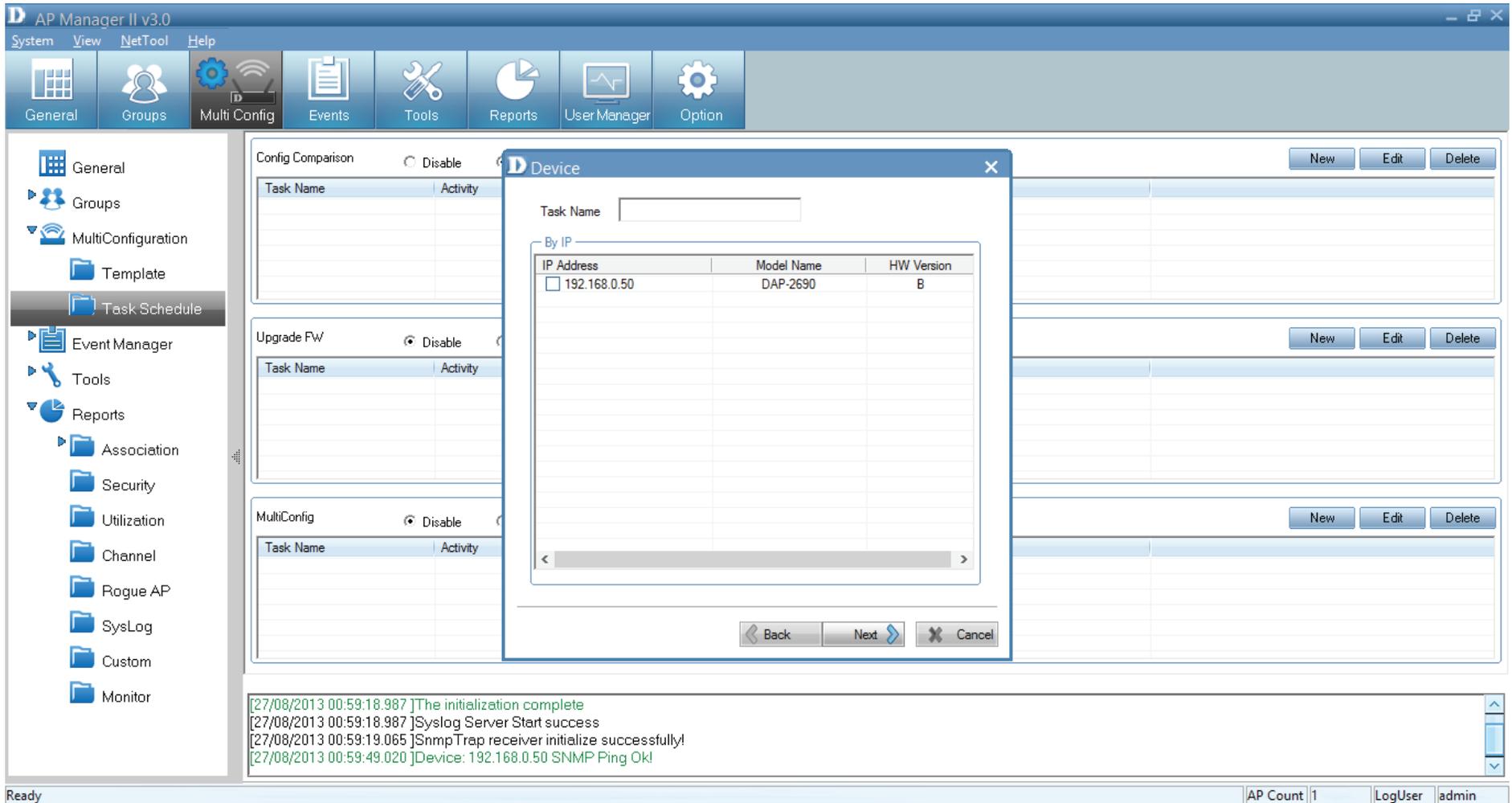
At the bottom of the main content area, there is a log window showing the following messages:

```
[27/08/2013 00:59:18.987]The initialization complete  
[27/08/2013 00:59:18.987]Syslog Server Start success  
[27/08/2013 00:59:19.065]SnmpTrap receiver initialize successfully!  
[27/08/2013 00:59:49.020]Device: 192.168.0.50 SNMP Ping Ok!
```

The status bar at the bottom of the window shows "Ready" on the left, and "AP Count 1", "LogUser admin" on the right.

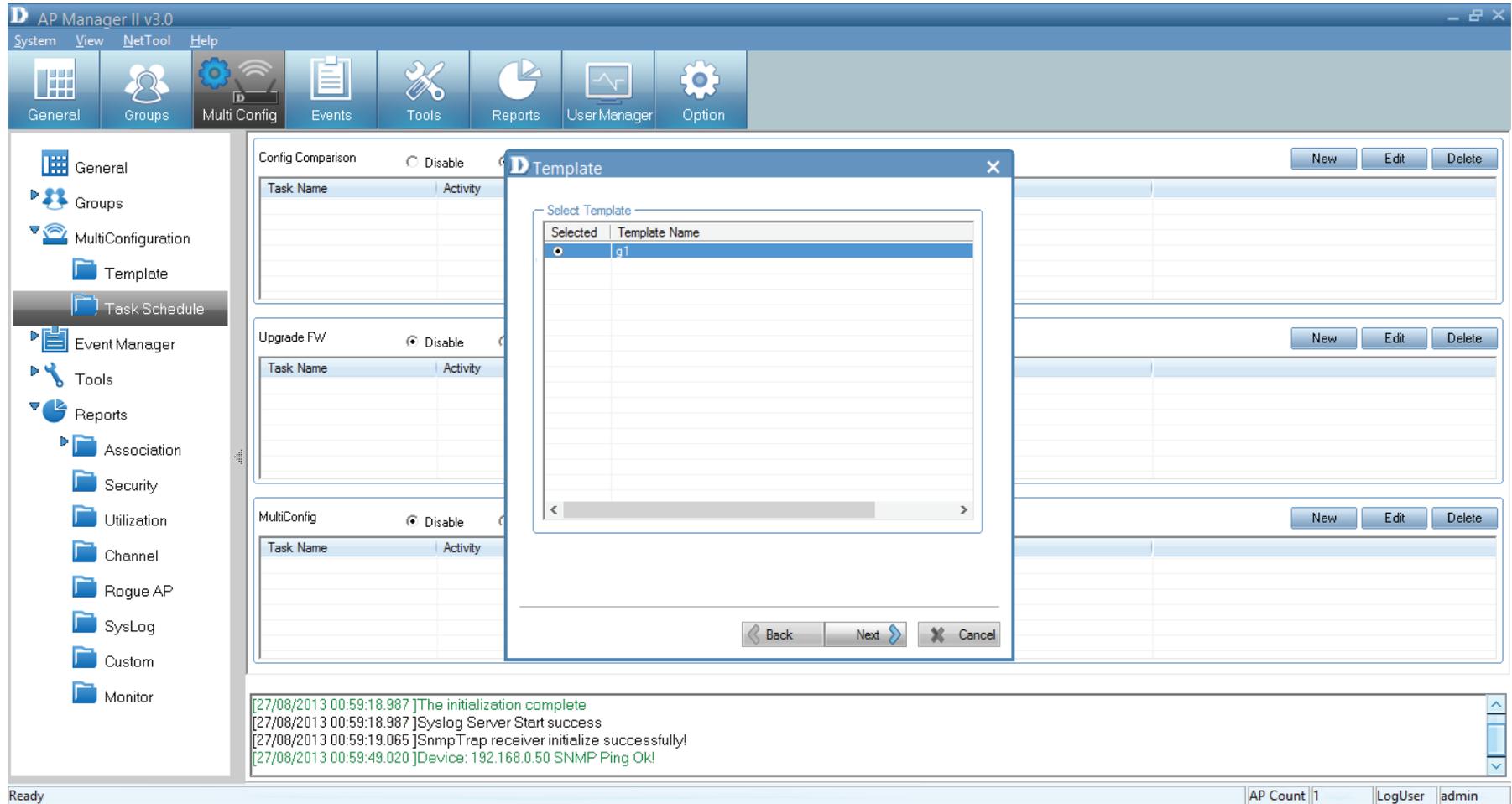
For the **Config Comparison**, click the **Enable** radio button, click **New** and view the options.

Give the **Task** a name, then select the devices and click **Next**.



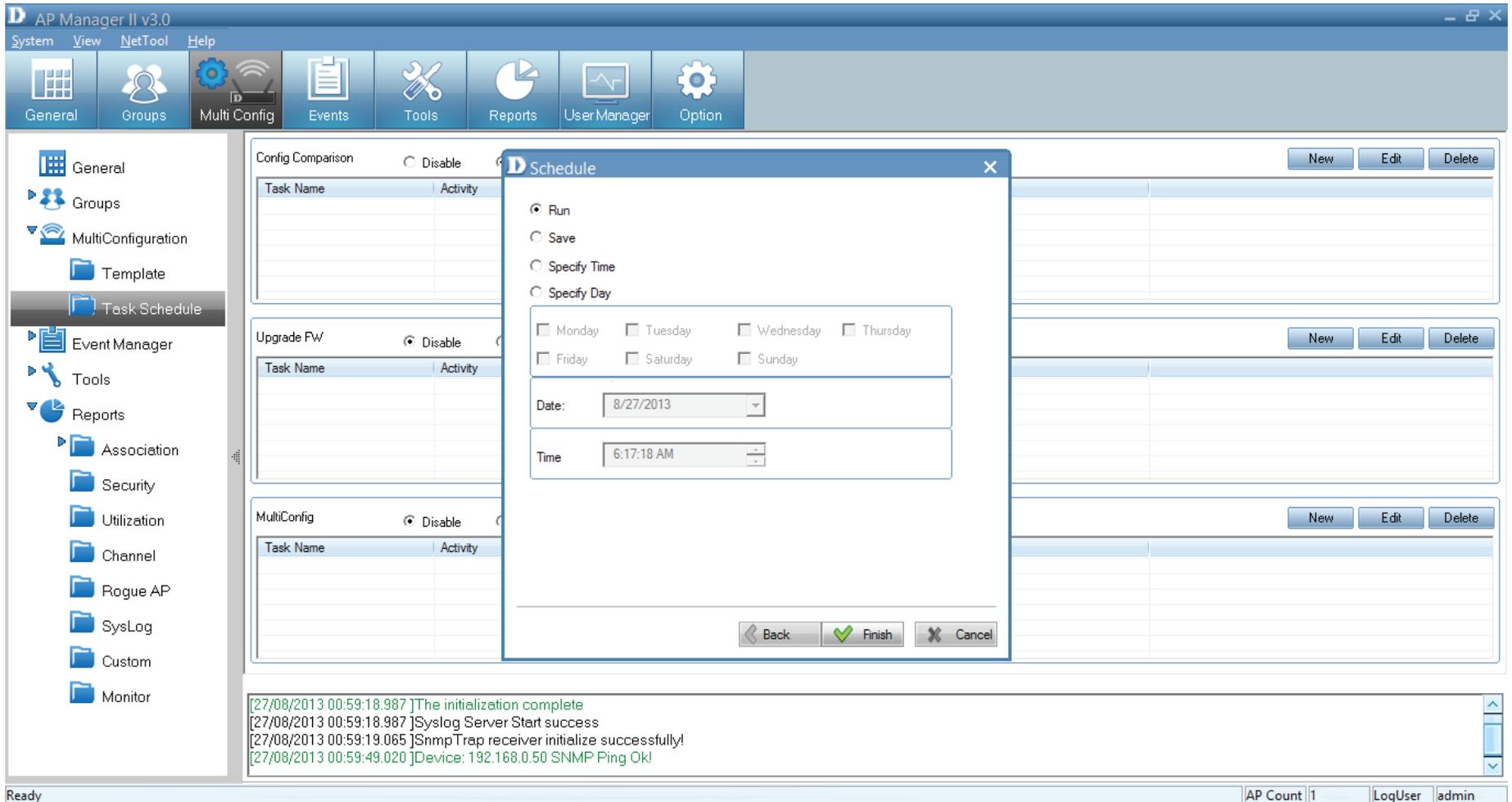
Select a **Template** from the list provided.

Click **Next** to continue.



Select a **Schedule** time frame - **Run, Save, Specify Time, Specify Day** and then enter the **Date** and **Times**.

Click **Finish** when complete.



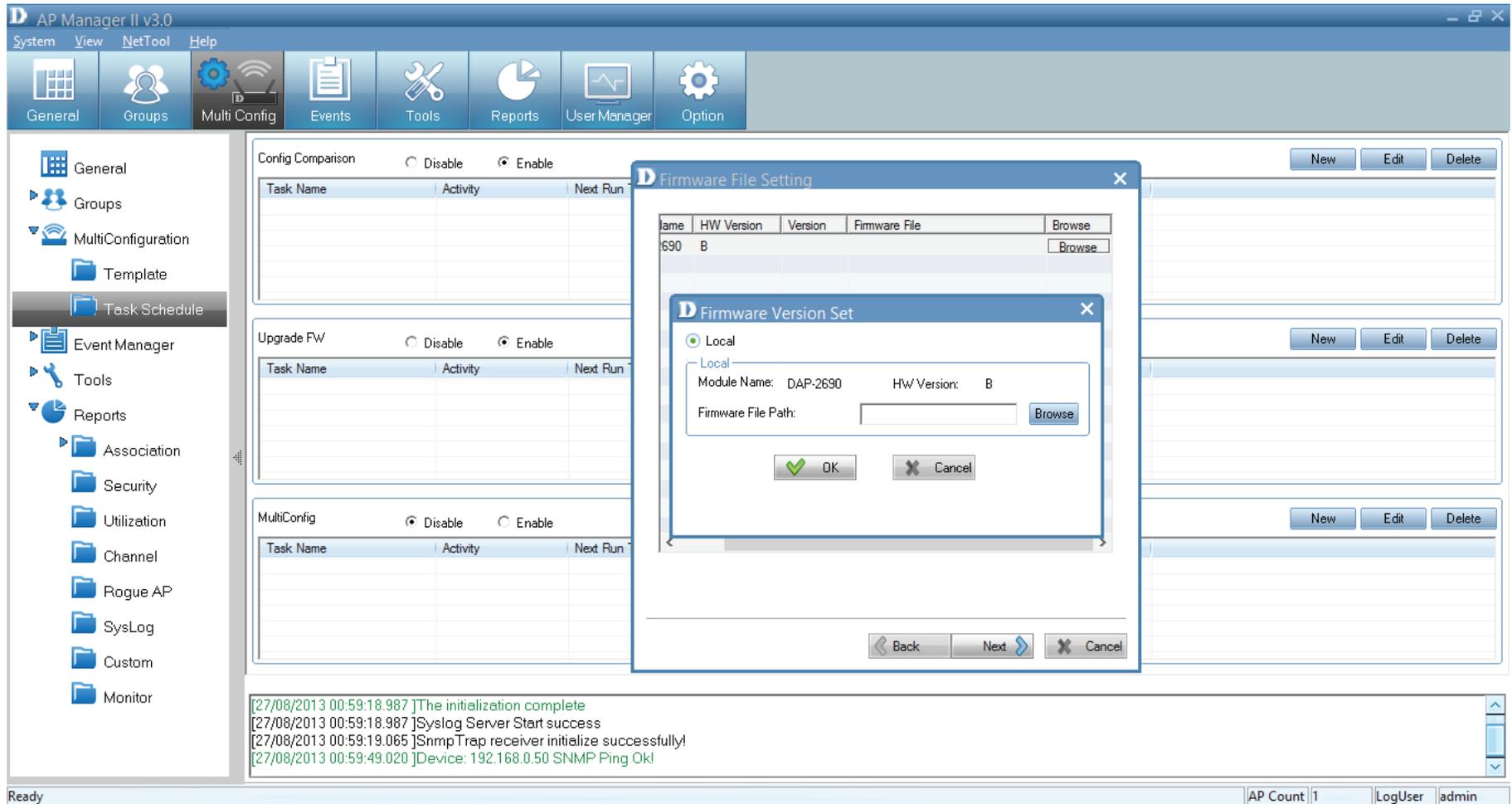
For **Upgrade Firmware**, click the **Enable** radio button, then view the devices available.

Give the **Task** a name, select to do it by **Group** or by **IP**

Click **Next** to continue.

The screenshot displays the D-Link AP Manager II v3.0 software interface. The main window has a menu bar (System, View, NetTool, Help) and a toolbar with icons for General, Groups, Multi Config, Events, Tools, Reports, User Manager, and Option. A left sidebar contains a tree view with categories like General, Groups, MultiConfiguration, Template, Task Schedule, Event Manager, Tools, Reports, Association, Security, Utilization, Channel, Rogue AP, SysLog, Custom, and Monitor. The main area shows three task configuration sections: 'Config Comparison', 'Upgrade FW', and 'MultiConfig'. Each section has a table with columns for 'Task Name', 'Activity', and 'Next Run'. The 'Upgrade FW' section has 'Enable' selected. A 'Device' dialog box is open, allowing selection of devices for the task. It has a 'Task Name' field and radio buttons for 'By Group' (selected) and 'By IP'. Under 'By Group', a table lists 'DAP-2690' with 'Model' as the sort and 'B' as the HW Version. Under 'By IP', a table lists '192.168.0.50' with 'DAP-2690' as the Model Name and 'B' as the HW Version. The dialog has 'Back', 'Next', and 'Cancel' buttons. At the bottom, a log window shows system messages: '[27/08/2013 00:59:18.987]The initialization complete', '[27/08/2013 00:59:18.987]Syslog Server Start success', '[27/08/2013 00:59:19.065]Snmp Trap receiver initialize successfully!', and '[27/08/2013 00:59:49.020]Device: 192.168.0.50 SNMP Ping Ok!'. The status bar at the bottom shows 'Ready', 'AP Count | 1', 'LogUser | admin'.

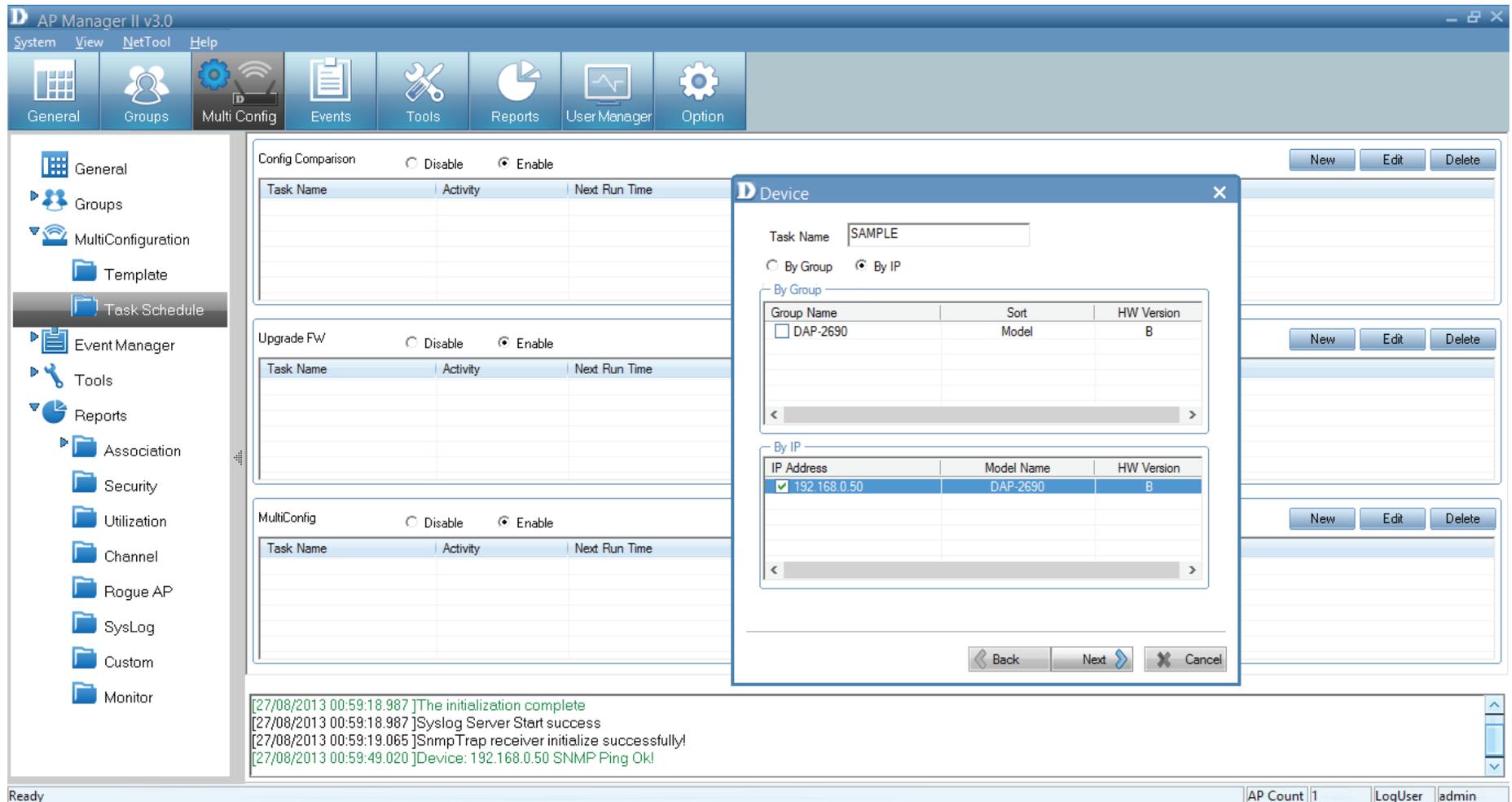
Under **Firmware File Settings**, click the **browse** button next to your device, find the new firmware, and click **Next**.



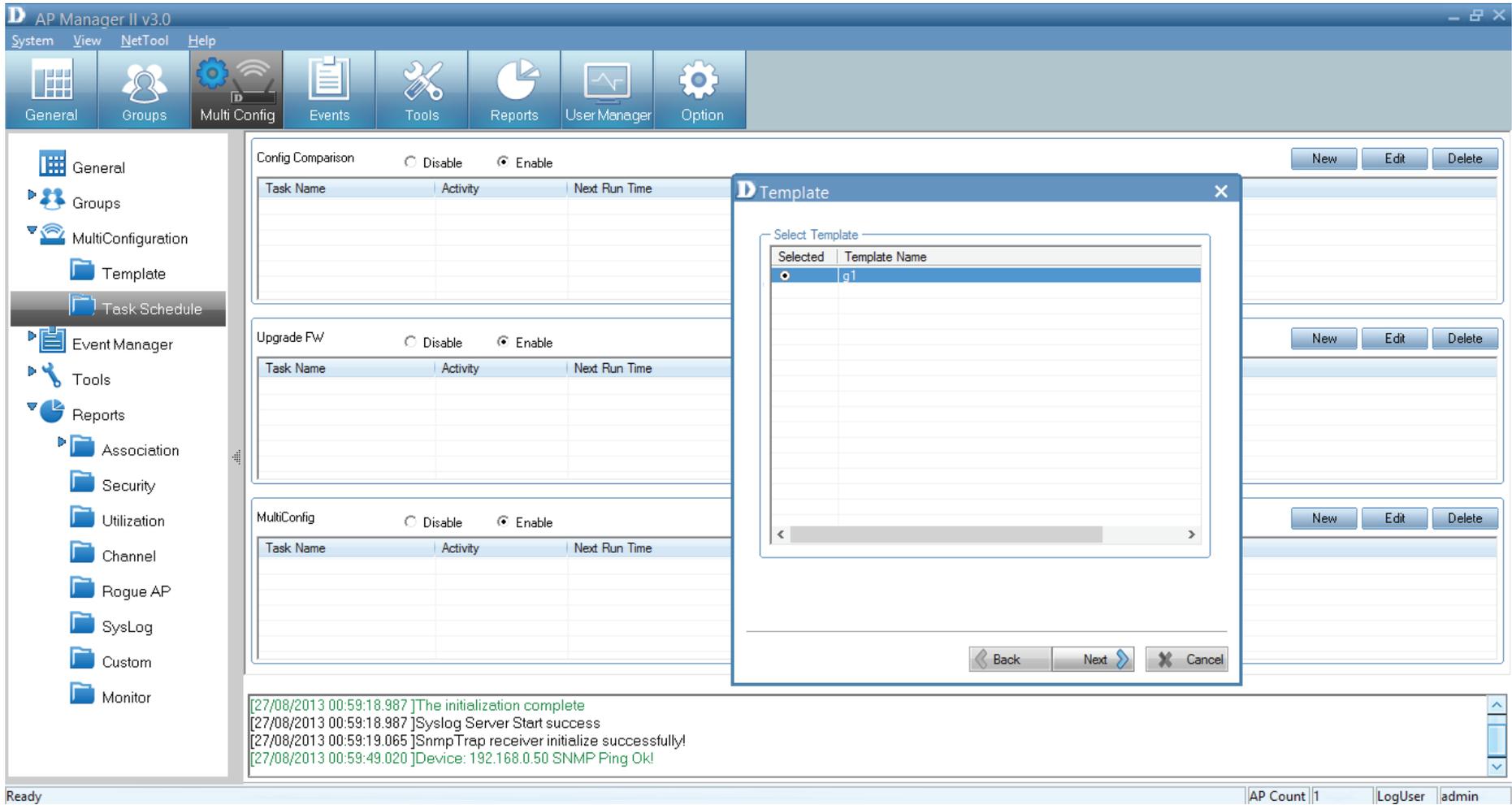
Under **MultiConfig**, click the **Enable** radio button, and New.

Under **Device** enter a **Task Name**, select by **Group** or **IP**

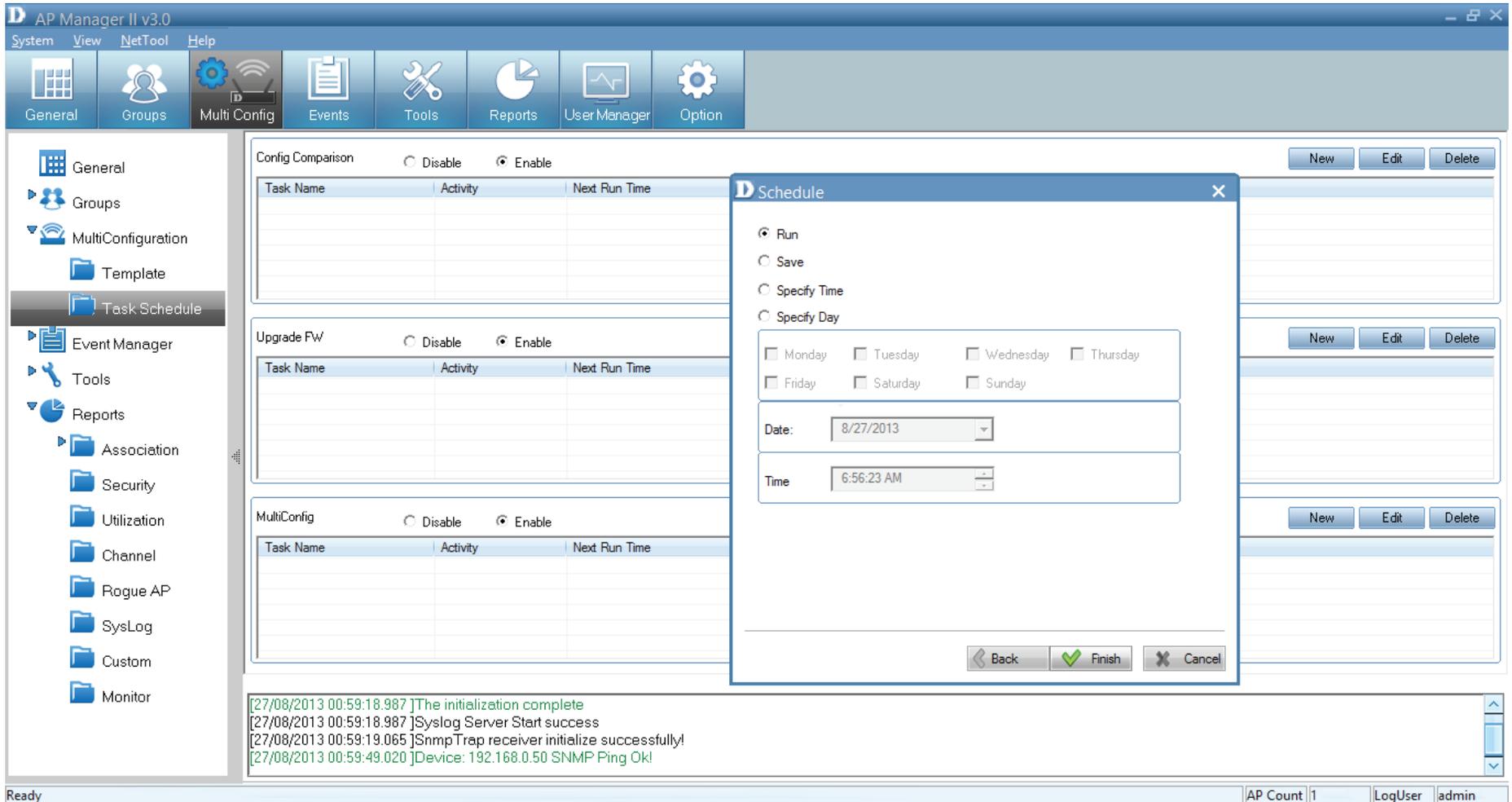
Click **Next** to continue.



Under **Template**, select a template for this configuration and click **Next**



Under **Schedule**, select one of the options provided and click **Finish**.



AP Manager II v3.0 - Events (Event) Manager

Events (Event) Manager can be accessed from both the side panel and the top panel. Click this icon to access details relation to faults experienced using the Access Point.

Event Name	Event Type	Event Level	Date Time	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

```

[27/08/2013 00:59:18.987]The initialization complete
[27/08/2013 00:59:18.987]Syslog Server Start success
[27/08/2013 00:59:19.065]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020]Device: 192.168.0.50 SNMP Ping Ok!
  
```

Ready AP Count 1 LogUser admin

AP Manager II v3.0 - Unread Events

Click this icon to mark the message as **Unread**.

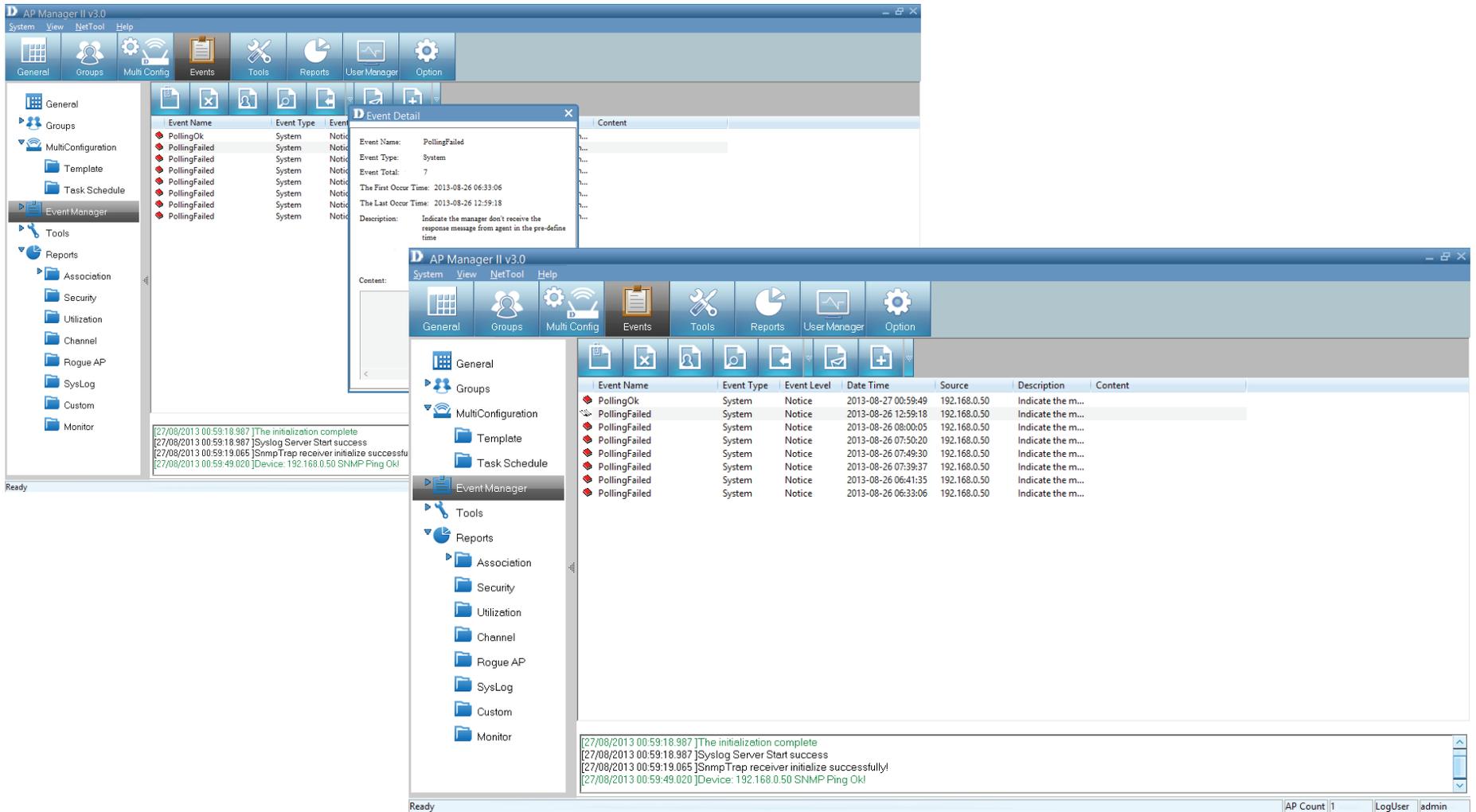
The screenshot shows the AP Manager II v3.0 interface. The 'Events' tab is active, displaying a list of events. The 'Sign Unread' icon is highlighted over the first event row. The status bar at the bottom shows 'AP Count | 1' and 'LogUser | admin'.

Event	Event Type	Event Level	Date Time	Source	Description	Content
Ev Sign Unread						
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

Log messages:

```
[27/08/2013 00:59:18.987]The initialization complete
[27/08/2013 00:59:18.987]Syslog Server Start success
[27/08/2013 00:59:19.065]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020]Device: 192.168.0.50 SNMP Ping Ok!
```

Double-click an event to view its details. The icon now changes to an open book.



AP Manager II v3.0 - Deleting Events

Click this icon to **Delete** an event. **Confirm** delete by clicking **Yes**, or **No** to exit and do nothing.

The screenshot shows the AP Manager II v3.0 software interface. The main window displays the 'Events' management screen. The 'Delete Event' icon (a red 'X' over a document) is highlighted in the toolbar. Below the toolbar, a table lists several events, all of which are 'PollingFailed' events. The status bar at the bottom shows system logs and the AP count.

Event Name	Event Type	Event Level	Date Time	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

System logs in the status bar:

```
[27/08/2013 00:59:18.987 ]The initialization complete
[27/08/2013 00:59:18.987 ]Syslog Server Start success
[27/08/2013 00:59:19.065 ]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020 ]Device: 192.168.0.50 SNMP Ping OK!
```

AP Count: 1 | LogUser: admin

AP Manager II v3.0 - Setting Events

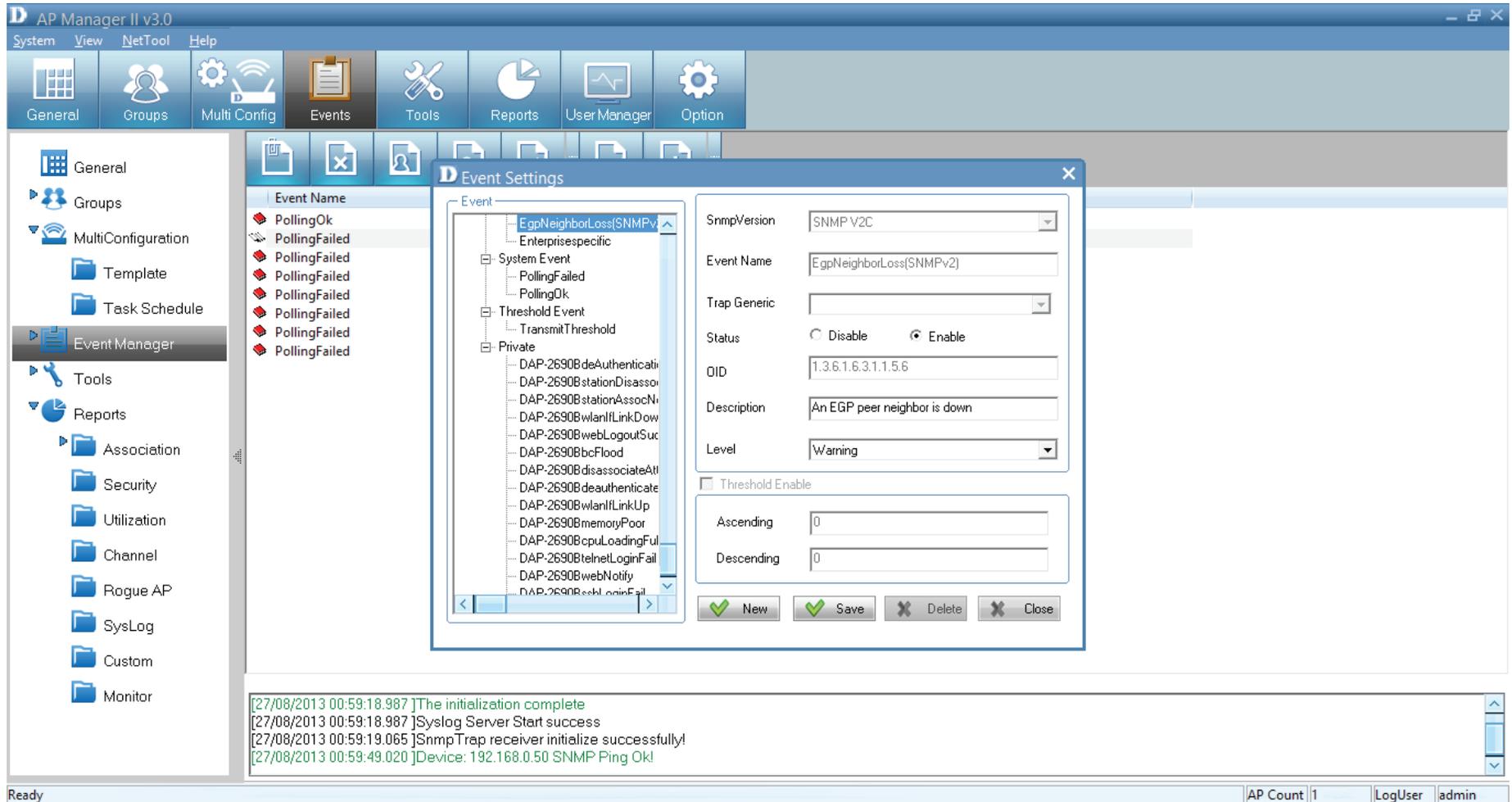
Click this icon to show **Event Settings**

The screenshot shows the AP Manager II v3.0 interface. The 'Event Manager' section is active, displaying a table of events. The 'Event Settings' icon in the top toolbar is highlighted. The status bar at the bottom shows 'Ready', 'AP Count 1', 'LogUser admin', and a system log window with the following messages:

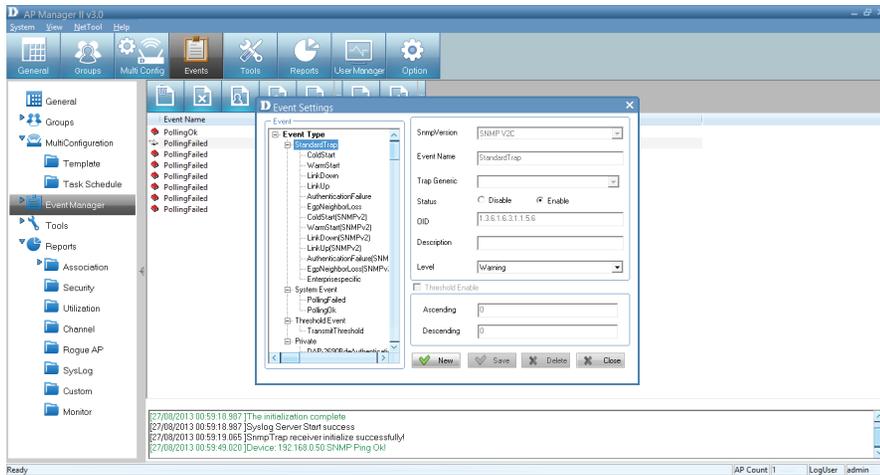
```
[27/08/2013 00:59:18.987]The initialization complete
[27/08/2013 00:59:18.987]Syslog Server Start success
[27/08/2013 00:59:19.065]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020]Device: 192.168.0.50 SNMP Ping Ok!
```

Event Name	Event Type	Event Level	Date Time	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

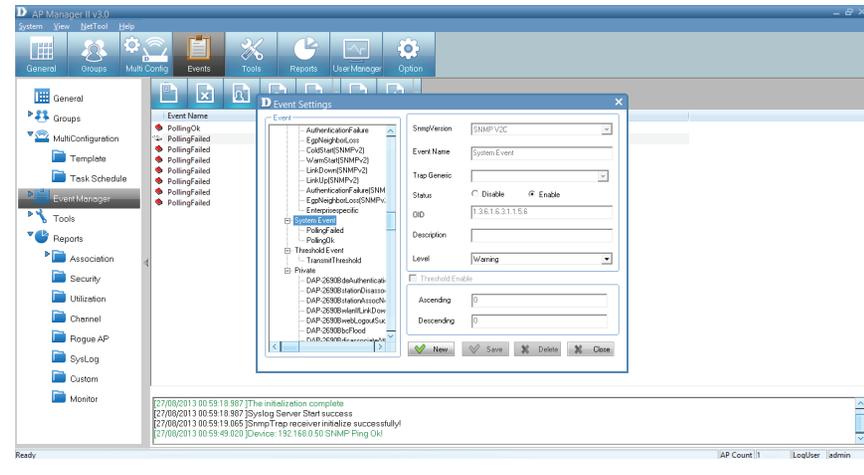
The main **Event Settings Panel** opens.



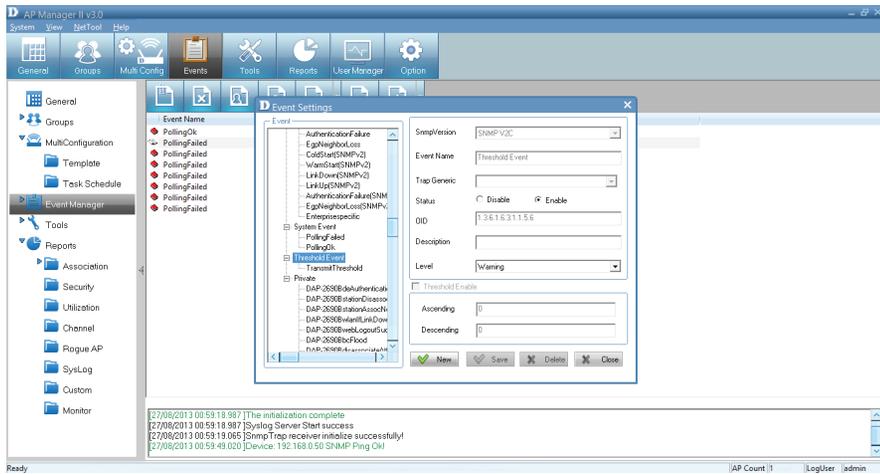
The **Events Panel** consists of four main **Event Types**.



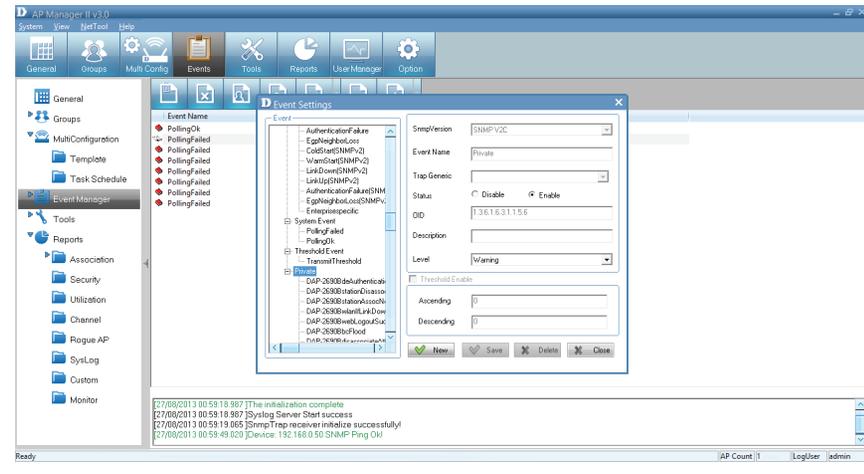
Standard Trap



System Event



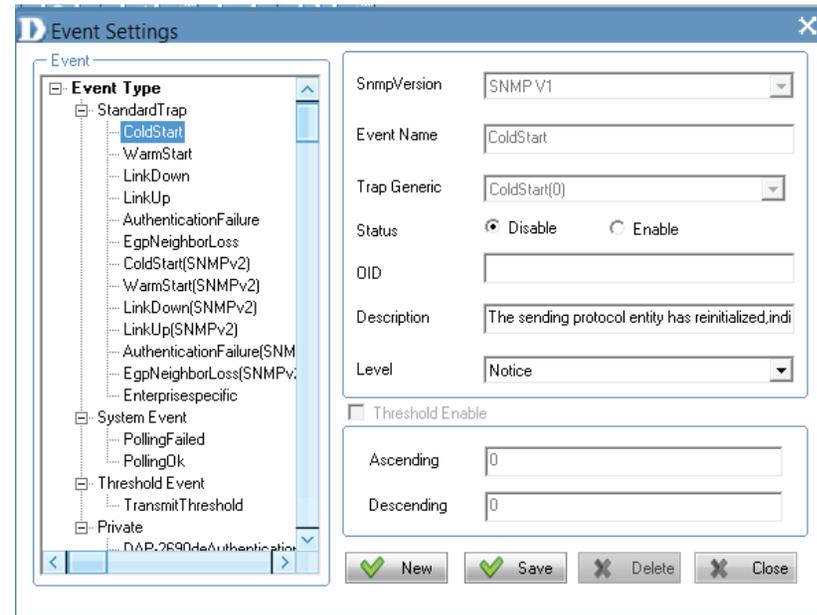
Threshold Event



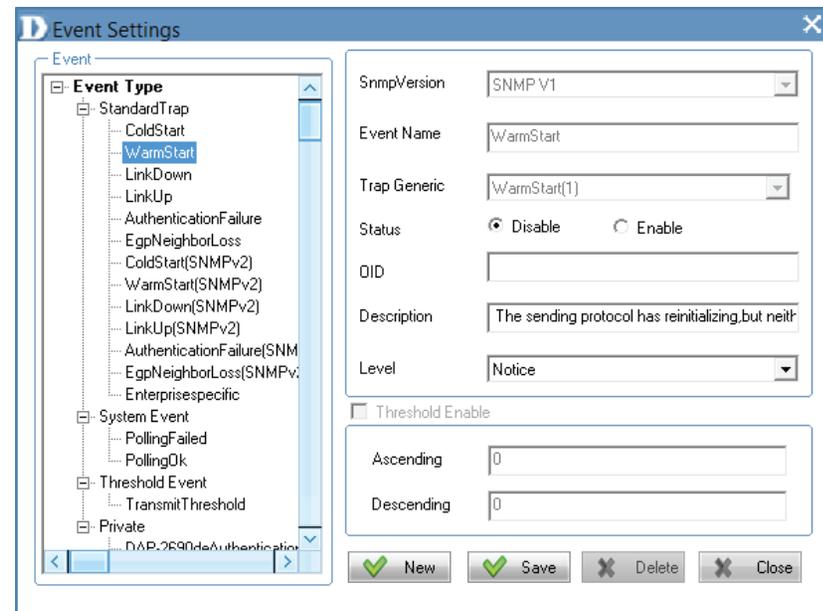
Private

Standard Trap - The standard trap view window displays the standard trap data received from Access Points and consists of the following options:

ColdStart



WarmStart



LinkDown

The screenshot shows the 'Event Settings' dialog box. On the left, a tree view under 'Event Type' has 'LinkDown' selected. The right-hand form contains the following fields:

- SnmVersion:** SNMP V1
- Event Name:** LinkDown
- Trap Generic:** LinkDown(2)
- Status:** Disable Enable
- OID:** (empty)
- Description:** A communication link has failed. the affected in
- Level:** Notice
- Threshold Enable:** (unchecked)
- Ascending:** 0
- Descending:** 0

At the bottom, there are four buttons: 'New' (with a green checkmark), 'Save' (with a green checkmark), 'Delete' (with a red X), and 'Close' (with a red X).

LinkUp

The screenshot shows the 'Event Settings' dialog box. On the left, a tree view under 'Event Type' has 'LinkUp' selected. The right-hand form contains the following fields:

- SnmVersion:** SNMP V1
- Event Name:** LinkUp
- Trap Generic:** LinkUp(3)
- Status:** Disable Enable
- OID:** (empty)
- Description:** A communication link has come up. The affecte
- Level:** Notice
- Threshold Enable:** (unchecked)
- Ascending:** 0
- Descending:** 0

At the bottom, there are four buttons: 'New' (with a green checkmark), 'Save' (with a green checkmark), 'Delete' (with a red X), and 'Close' (with a red X).

AuthenticationFailure

Event Settings

Event

- Event Type
 - StandardTrap
 - ColdStart
 - WarmStart
 - LinkDown
 - LinkUp
 - AuthenticationFailure**
 - EgpNeighborLoss
 - ColdStart(SNMPv2)
 - WarmStart(SNMPv2)
 - LinkDown(SNMPv2)
 - LinkUp(SNMPv2)
 - AuthenticationFailure(SNM
 - EgpNeighborLoss(SNMPv
 - Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP.2690deAuthentication

SnmpVersion: SNMP V1

Event Name: AuthenticationFailure

Trap Generic: AuthenticationFailure(4)

Status: Disable Enable

OID:

Description: The agent has received an improperly authentic

Level: Error

Threshold Enable

Ascending: 0

Descending: 0

Buttons: New, Save, Delete, Close

EgpNeighborLoss

Event Settings

Event

- Event Type
 - StandardTrap
 - ColdStart
 - WarmStart
 - LinkDown
 - LinkUp
 - AuthenticationFailure
 - EgpNeighborLoss**
 - ColdStart(SNMPv2)
 - WarmStart(SNMPv2)
 - LinkDown(SNMPv2)
 - LinkUp(SNMPv2)
 - AuthenticationFailure(SNM
 - EgpNeighborLoss(SNMPv
 - Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP.2690deAuthentication

SnmpVersion: SNMP V1

Event Name: EgpNeighborLoss

Trap Generic: EgpNeighborLoss(5)

Status: Disable Enable

OID:

Description: An EGP peer neighbor is down

Level: Warning

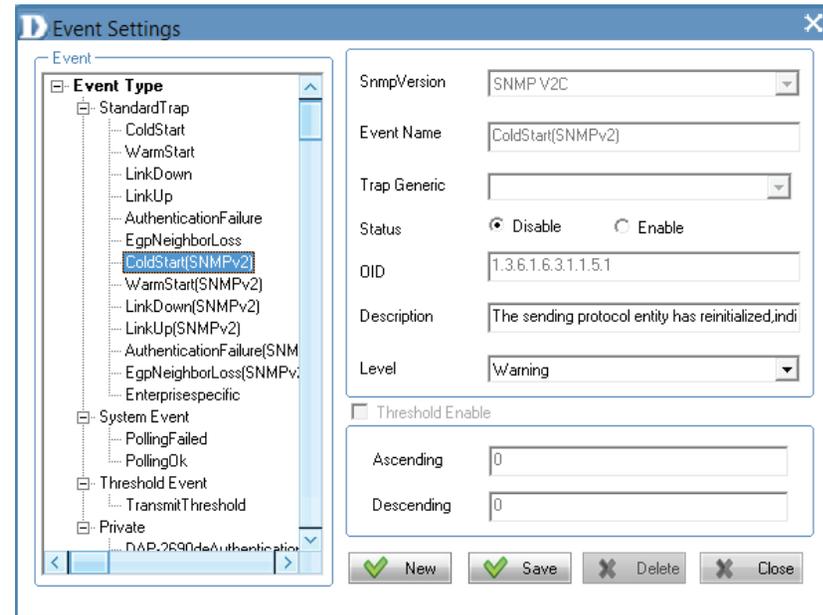
Threshold Enable

Ascending: 0

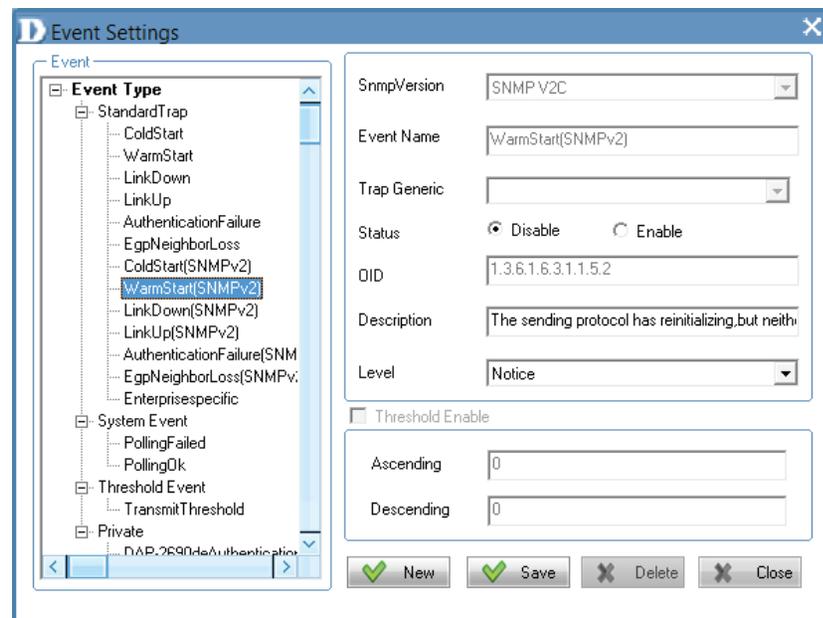
Descending: 0

Buttons: New, Save, Delete, Close

ColdStart (SNMPv2)



WarmStart (SNMPv2)



LinkDown (SNMPv2)

Event Settings

Event

- Event Type
 - StandardTrap
 - ColdStart
 - WarmStart
 - LinkDown
 - LinkUp
 - AuthenticationFailure
 - EgpNeighborLoss
 - ColdStart(SNMPv2)
 - WarmStart(SNMPv2)
 - LinkDown(SNMPv2)**
 - LinkUp(SNMPv2)
 - AuthenticationFailure(SNM
 - EgpNeighborLoss(SNMPv
 - Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP-2690deAuthentication

SnmpVersion: SNMP V2C

Event Name: LinkDown(SNMPv2)

Trap Generic: [Empty]

Status: Disable Enable

OID: 1.3.6.1.6.3.1.1.5.3

Description: A communication link has failed. the affected in

Level: Notice

Threshold Enable

Ascending: 0

Descending: 0

[New] [Save] [Delete] [Close]

LinkUp (SNMPv2)

Event Settings

Event

- Event Type
 - StandardTrap
 - ColdStart
 - WarmStart
 - LinkDown
 - LinkUp
 - AuthenticationFailure
 - EgpNeighborLoss
 - ColdStart(SNMPv2)
 - WarmStart(SNMPv2)
 - LinkDown(SNMPv2)
 - LinkUp(SNMPv2)**
 - AuthenticationFailure(SNM
 - EgpNeighborLoss(SNMPv
 - Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP-2690deAuthentication

SnmpVersion: SNMP V2C

Event Name: LinkUp(SNMPv2)

Trap Generic: [Empty]

Status: Disable Enable

OID: 1.3.6.1.6.3.1.1.5.4

Description: A communication link has come up.The affecte

Level: Notice

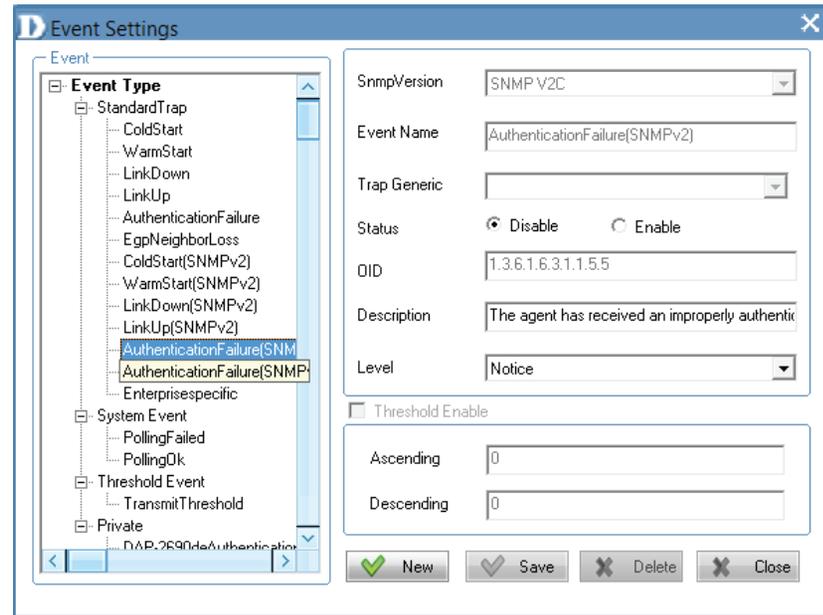
Threshold Enable

Ascending: 0

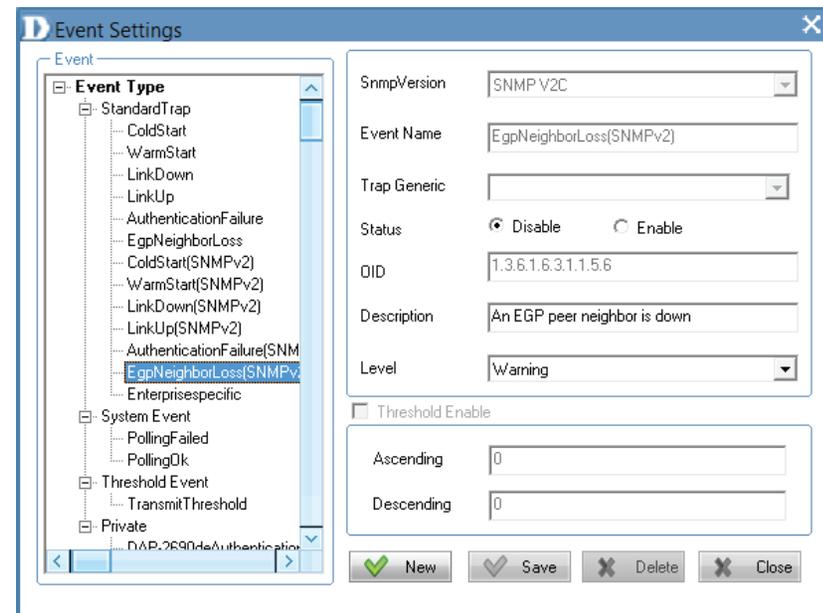
Descending: 0

[New] [Save] [Delete] [Close]

AuthenticationFailure(SNMPv2)



EgpNeighborLoss (SNMPv2)



Enterprisespecific

D Event Settings

Event

- Event Type
 - StandardTrap
 - ColdStart
 - WarmStart
 - LinkDown
 - LinkUp
 - AuthenticationFailure
 - EgpNeighborLoss
 - ColdStart(SNMPv2)
 - WarmStart(SNMPv2)
 - LinkDown(SNMPv2)
 - LinkUp(SNMPv2)
 - AuthenticationFailure(SNM
 - EgpNeighborLoss(SNMPv
 - Enterprisespecific**
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP.2690deAuthentication

SnmpVersion: SNMP V1

Event Name: Enterprisespecific

Trap Generic: EnterpriseSpecific(5)

Status: Disable Enable

OID:

Description:

Level: Notice

Threshold Enable

Ascending:

Descending:

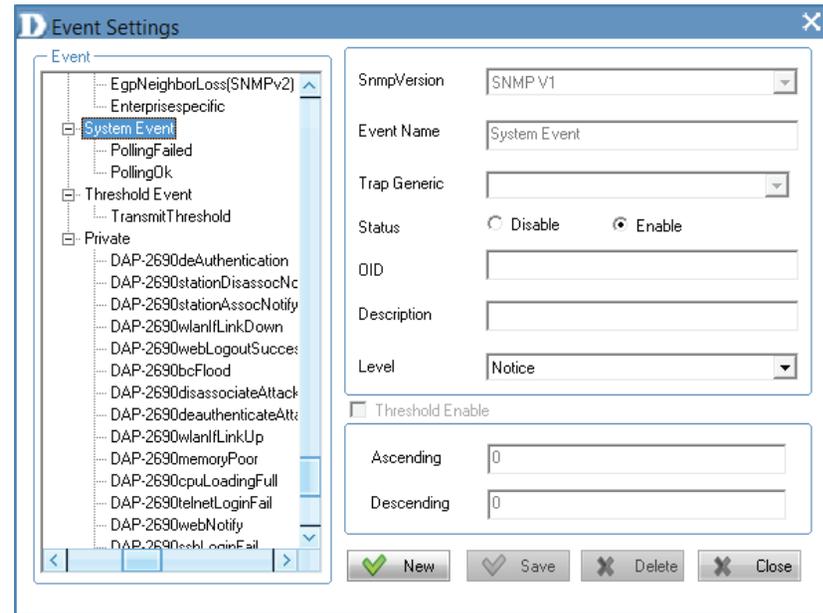
New Save Delete Close

System Event - To configure the trap condition, click the System Event icon in the tool bar to set the event settings. It consists of the following options:

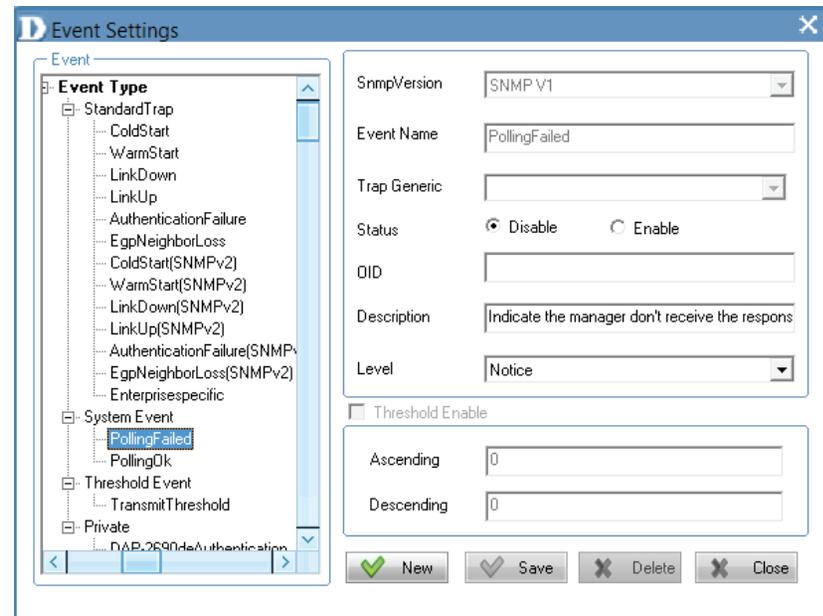
System Event

To modify an event setting, select the event from the Event Type list and then change the items. After the setting, click Save button to apply the changes.

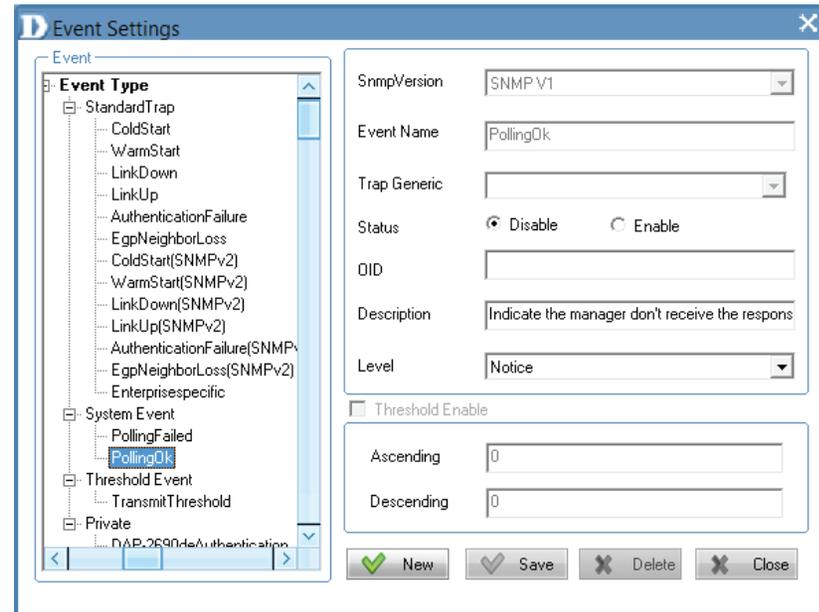
To add a new event, click New button, and configure the settings in the event creation window.



PollingFailed

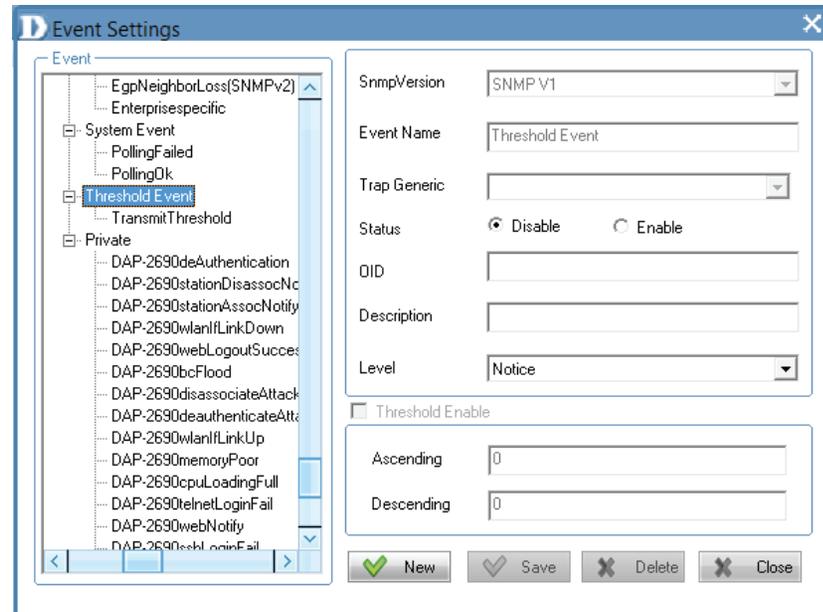


PollingOK

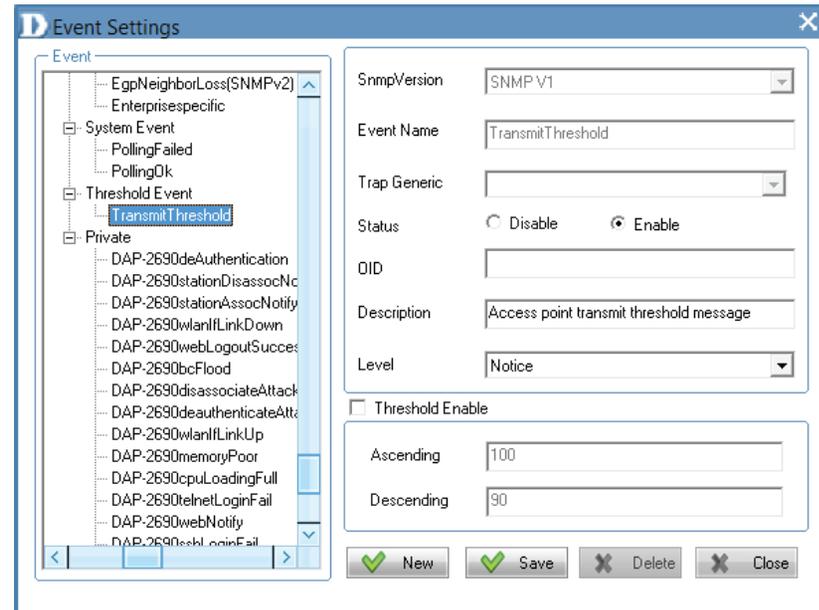


Threshold Event consists of the following options:

Threshold Event

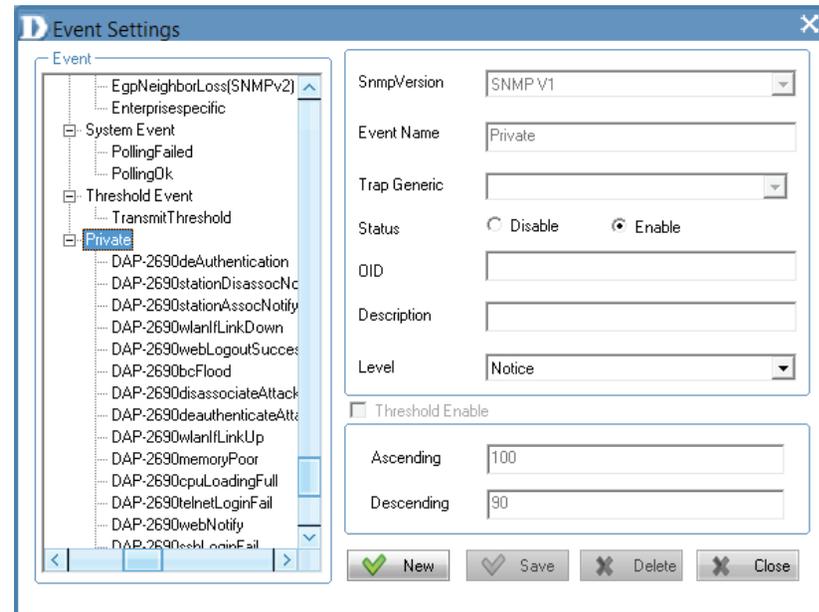


Transmit Threshold



Private consists of the following options:

Private



DAP-2690deAuthentication

Event Settings

Event

- ... EggNeighborLoss(SNMPv2)
- ... Enterprisespecific
- System Event
 - ... PollingFailed
 - ... PollingOk
- Threshold Event
 - ... TransmitThreshold
- Private
 - DAP-2690deAuthentication**
 - ... DAP-2690stationDisassocNotify
 - ... DAP-2690stationAssocNotify
 - ... DAP-2690wlanIfLinkDown
 - ... DAP-2690webLogoutSuccessful
 - ... DAP-2690bcFlood
 - ... DAP-2690disassociateAttack
 - ... DAP-2690deauthenticateAttack
 - ... DAP-2690wlanIfLinkUp
 - ... DAP-2690memoryPoor
 - ... DAP-2690cpuLoadingFull
 - ... DAP-2690telnetLoginFail
 - ... DAP-2690webNotify
 - ... DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690deAuthentication

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.20

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

[New] [Save] [Delete] [Close]

DAP-2690stationDisassocNotify

Event Settings

Event

- ... Enterprisespecific
- System Event
 - ... PollingFailed
 - ... PollingOk
- Threshold Event
 - ... TransmitThreshold
- Private
 - ... DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify**
 - ... DAP-2690stationAssocNotify
 - ... DAP-2690wlanIfLinkDown
 - ... DAP-2690webLogoutSuccessful
 - ... DAP-2690bcFlood
 - ... DAP-2690disassociateAttack
 - ... DAP-2690deauthenticateAttack
 - ... DAP-2690wlanIfLinkUp
 - ... DAP-2690memoryPoor
 - ... DAP-2690cpuLoadingFull
 - ... DAP-2690telnetLoginFail
 - ... DAP-2690webNotify
 - ... DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690stationDisassocNotify

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.15

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

[New] [Save] [Delete] [Close]

DAP-2690stationAssocNotify

Event Settings

Event

- Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify**
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690stationAssocNotify

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.14

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690wlanIfLinkDown

Event Settings

Event

- Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown**
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690wlanIfLinkDown

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.13

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690webLogoutSuccessful

Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanlLinkDown
 - DAP-2690webLogoutSuccessful**
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanlLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690webLogoutSuccessful

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.11

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690bcFlood

Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanlLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood**
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanlLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690bcFlood

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.10

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690disassociateAttack

Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack**
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690disassociateAttack

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.9

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690deauthenticateAttack

Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack**
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690deauthenticateAttack

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.8

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690wlanIfLinkUp

D Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp**
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690wlanIfLinkUp

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.7

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

[New] [Save] [Delete] [Close]

DAP-2690memoryPoor

D Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor**
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690memoryPoor

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.5

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

[New] [Save] [Delete] [Close]

DAP-2690cpuLoadingFull

Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull**
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690cpuLoadingFull

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.4

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690telnetLoginFail

Event Settings

Event

- Enterprisespecific
- System Event
 - PollingFailed
 - PollingOk
- Threshold Event
 - TransmitThreshold
- Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail**
 - DAP-2690webNotify
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690telnetLoginFail

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.3

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690webnotify

Event Settings

Event

- Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify**
 - DAP-2690sshLoginFail

SnmpVersion: SNMP V1

Event Name: DAP-2690webNotify

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.2

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

DAP-2690sshLoginFail

Event Settings

Event

- Enterprisespecific
 - System Event
 - PollingFailed
 - PollingOk
 - Threshold Event
 - TransmitThreshold
 - Private
 - DAP-2690deAuthentication
 - DAP-2690stationDisassocNotify
 - DAP-2690stationAssocNotify
 - DAP-2690wlanIfLinkDown
 - DAP-2690webLogoutSuccessful
 - DAP-2690bcFlood
 - DAP-2690disassociateAttack
 - DAP-2690deauthenticateAttack
 - DAP-2690wlanIfLinkUp
 - DAP-2690memoryPoor
 - DAP-2690cpuLoadingFull
 - DAP-2690telnetLoginFail
 - DAP-2690webNotify
 - DAP-2690sshLoginFail**

SnmpVersion: SNMP V1

Event Name: DAP-2690sshLoginFail

Trap Generic: EnterpriseSpecific(6)

Status: Disable Enable

OID: 1.3.6.1.4.1.171.10.37.45.5.7.2.1

Description:

Level: Critical

Threshold Enable

Ascending: 0

Descending: 0

New Save Delete Close

AP Manager II v3.0 - Event Search

Click this icon to show the results of an **Event Search**

The screenshot shows the AP Manager II v3.0 software interface. The main content area displays a table of events with the following columns: Event Name, Event Level, Date Time, Source, Description, and Content. The 'Event Search' icon in the toolbar is highlighted, and the 'Event Search' column in the table is also highlighted.

Event Name	Event Level	Date Time	Source	Description	Content
PollingOk	System	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

At the bottom of the interface, there is a status bar showing the following information:

```
[27/08/2013 00:59:18.987 ]The initialization complete
[27/08/2013 00:59:18.987 ]Syslog Server Start success
[27/08/2013 00:59:19.065 ]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020 ]Device: 192.168.0.50 SNMP Ping Ok!
```

The status bar also displays "Ready" on the left, "AP Count 1" in the middle, and "LogUser admin" on the right.

Once you have clicked the **Event Search** icon, a box opens for you to enter the **Event Type**, the **Event Level**, **Start Time**, **End Time**, **Node IP** and click **Search**

The screenshot displays the AP Manager II v3.0 software interface. The main window shows a table of event logs with columns for Event Name, Event Type, Event Level, Date Time, Source, Description, and Content. An 'Event Search' dialog box is open in the foreground, allowing users to filter events based on Event Type, Event Level, Start Time, End Time, and Node IP. The status bar at the bottom shows 'Ready', 'AP Count 1', 'LogUser admin', and a log of system messages.

Event Name	Event Type	Event Level	Date Time	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed						
PollingFailed						
PollingFailed						
PollingFailed						

Event Search Dialog Parameters:

- Event Type: All
- Event Level: All
- Start Time: 8/27/2013
- End Time: 8/27/2013
- Node IP: 0 . 0 . 0 . 0

Log Messages:

```
[27/08/2013 00:59:18.987 ]The initialization complete
[27/08/2013 00:59:18.987 ]Syslog Server Start success
[27/08/2013 00:59:19.065 ]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020 ]Device: 192.168.0.50 SNMP Ping OK!
```

AP Manager II v3.0 - Exporting Events

Click this icon to do an **Event Export**. AP Manager II v3.0 can export the event results to the files in the format of **Text/Excel/PDF**. To save event results, highlight the event record in the event window and click the Event Export icon in the tools bar, then select the file format you want to save, AP Manager II v3.0 will save all the records of that type to file.

The screenshot displays the AP Manager II v3.0 software interface. The main window is titled "AP Manager II v3.0" and features a menu bar (System, View, NetTool, Help) and a toolbar with icons for General, Groups, Multi Config, Events, Tools, Reports, User Manager, and Option. The left sidebar shows a navigation tree with categories like General, Groups, MultiConfiguration, Template, Task Schedule, Event Manager (selected), Tools, Reports, Association, Security, Utilization, Channel, Rogue AP, SysLog, Custom, and Monitor. The central pane shows a table of events with columns: Event Name, Event Type, Event Level, Date Time, Source, Description, and Content. The "Event Export" icon in the toolbar is highlighted. Below the table, a log window shows system messages.

Event Name	Event Type	Event Level	Date Time	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

Log messages:

```
[27/08/2013 00:59:18.987 ]The initialization complete
[27/08/2013 00:59:18.987 ]Syslog Server Start success
[27/08/2013 00:59:19.065 ]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020 ]Device: 192.168.0.50 SNMP Ping Ok!
```

Ready | AP Count | 1 | LogUser | admin

AP Manager II v3.0 - Setting Notices

Click this icon to view the Notice Settings. AP Manager II v3.0 can set the corresponding actions when some level of events occurs. To configure the notice setting, click the Notice Settings icon in the tools bar, as shown below

Play sound: Click Browse to select the sound file. AP Manager II v3.0 will play the sound file when this level of event occurs

Show Pop Message: AP Manager II v3.0 will pop a message window when this level of event occurs

Send Email: Enter the Email information of To/From email address, SMTP server, UserName/Password [Optional], Subject and Message in the respective column. AP Manager II v3.0 will send this email when this level of event occurs.

The screenshot shows the AP Manager II v3.0 software interface. The main window displays the 'Events' tab, which contains a table of event logs. The table has columns for Event Name, Event Type, Event Level, Notice setting, Source, Description, and Content. The 'Notice setting' column is currently selected. Below the table, there is a log window showing system messages.

Event Name	Event Type	Event Level	Notice setting	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

Log messages:

```
[27/08/2013 00:59:18.987]The initialization complete
[27/08/2013 00:59:18.987]Syslog Server Start success
[27/08/2013 00:59:19.065]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020]Device: 192.168.0.50 SNMP Ping OK!
```

AP Manager II v3.0 - Create Watchlist

AP manager II v3.0 allows a user to add custom watch list(s) which only shows the specified devices and events.

To create a watchlist, please follow the steps below:

Click the **Create Watchlist** item under the icon of the tools bar, and enter the **Watch list Name** in Create list form.

The screenshot displays the AP Manager II v3.0 software interface. The 'Tools' menu is open, and the 'Create WatchList' option is highlighted. The main window shows a table of events with the following columns: Event Name, Event Type, Event Level, Date Time, Source, Description, and Content.

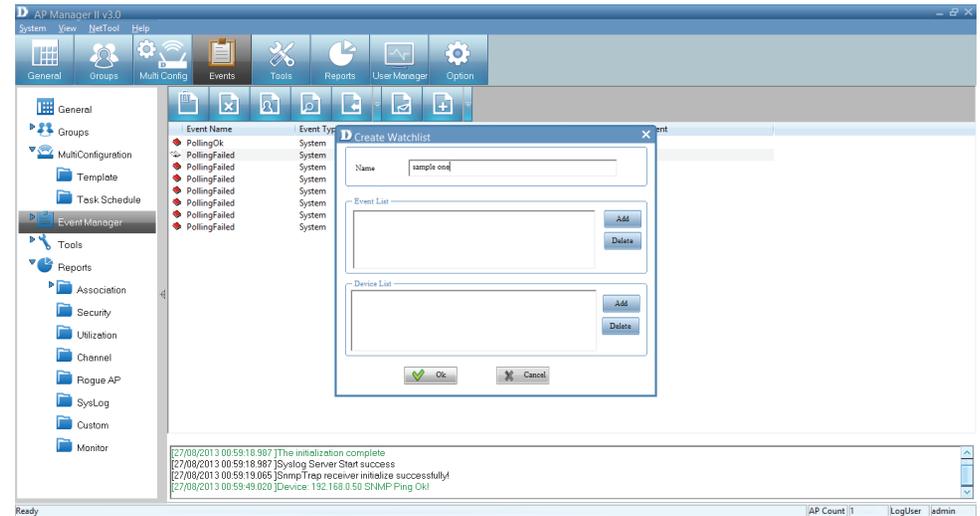
Event Name	Event Type	Event Level	Date Time	Source	Description	Content
PollingOk	System	Notice	2013-08-27 00:59:49	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 12:59:18	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 08:00:05	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:50:20	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:49:30	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 07:39:37	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:41:35	192.168.0.50	Indicate the m...	
PollingFailed	System	Notice	2013-08-26 06:33:06	192.168.0.50	Indicate the m...	

At the bottom of the interface, there is a log window showing the following messages:

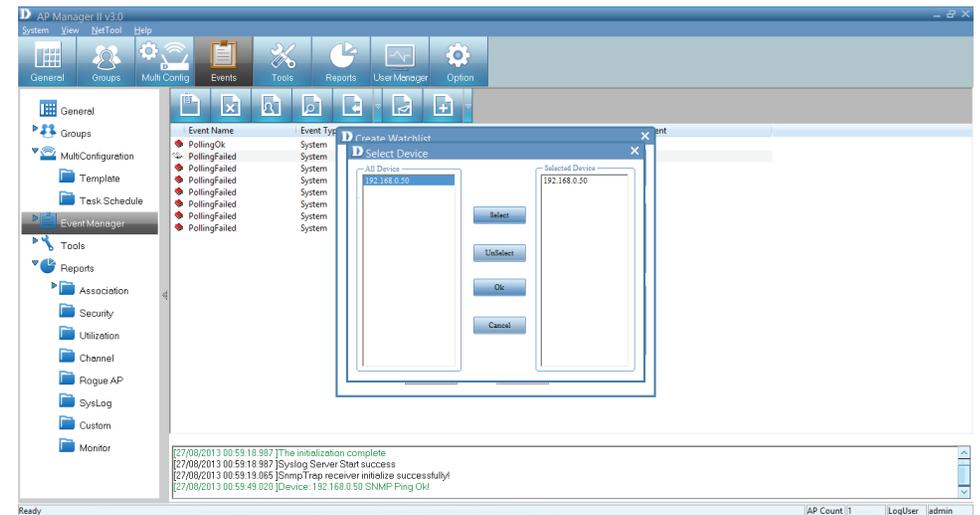
```
[27/08/2013 00:59:18.987 ]The initialization complete
[27/08/2013 00:59:18.987 ]Syslog Server Start success
[27/08/2013 00:59:19.065 ]SnmpTrap receiver initialize successfully!
[27/08/2013 00:59:49.020 ]Device: 192.168.0.50 SNMP Ping OK!
```

The status bar at the bottom indicates 'Ready' and shows 'AP Count: 1', 'LogUser: admin'.

Enter the **Watch list Name** in Create list form.

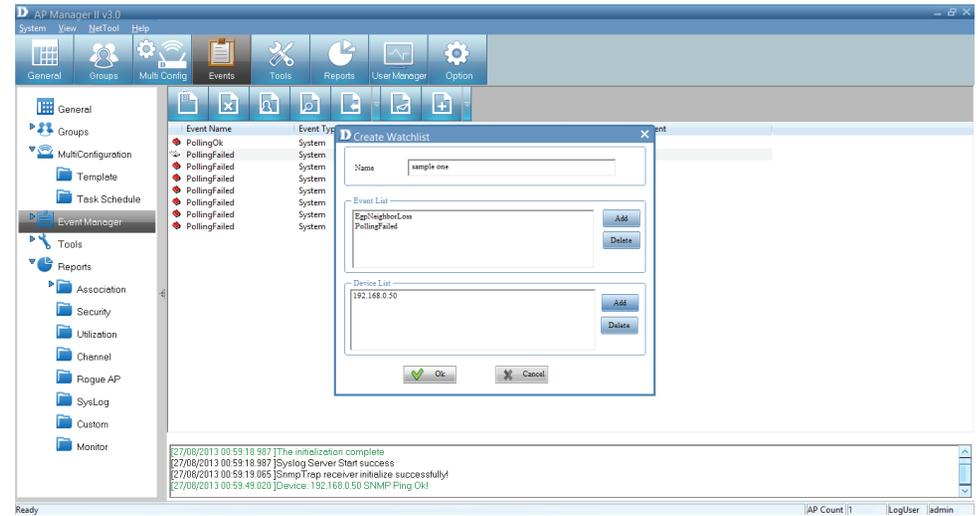


Click the **Add** button to insert the events into event list, and select the events that need to be added in Select Event form, click the Select button, then click the OK button

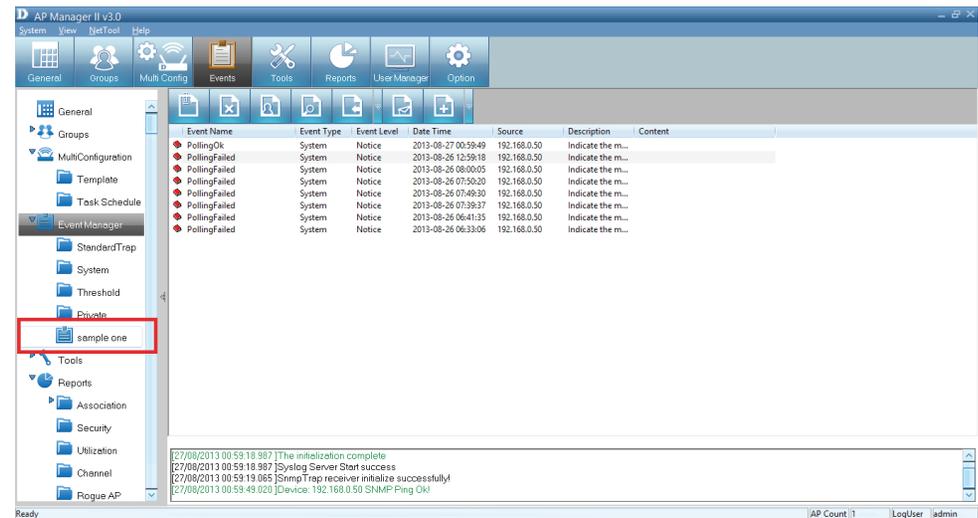


Section 4 - Configuration

Click the **Add** button to insert the devices into device list, and select the devices that need to be added in Select Device form, click the Select button, then click the OK button.

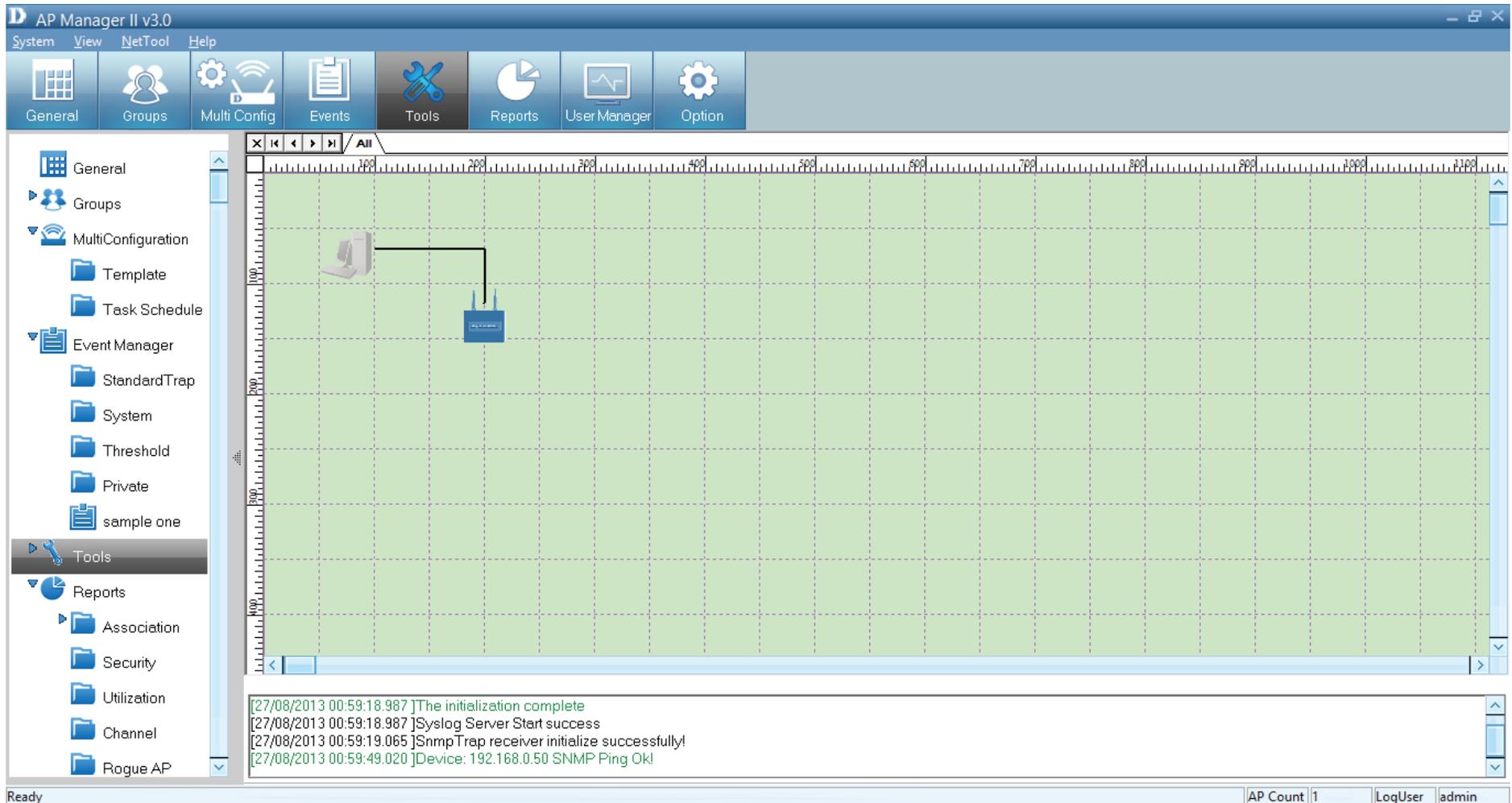


The new **Watchlist** now appears on the left-hand panel.



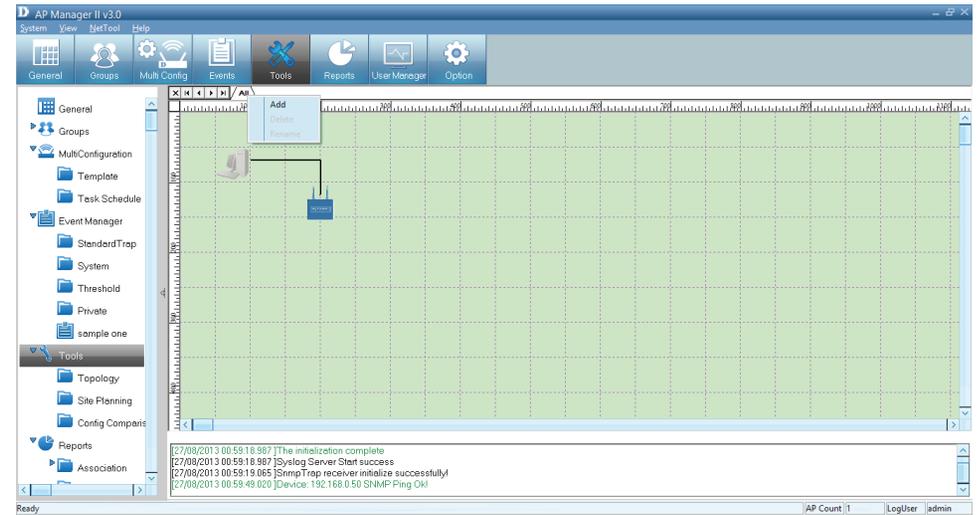
AP Manager II v3.0 - Tools - Topology

You can create a topology map to graphically represent planned or existing networks to aid network design, and also AP Manager II v3.0 will periodically poll network devices to monitor its status. You can further customize their diagrams with selected icons and bitmap files used for the background. When a topology map is opened, AP Manager II will discover the devices connected on the network and display their icons on the map.

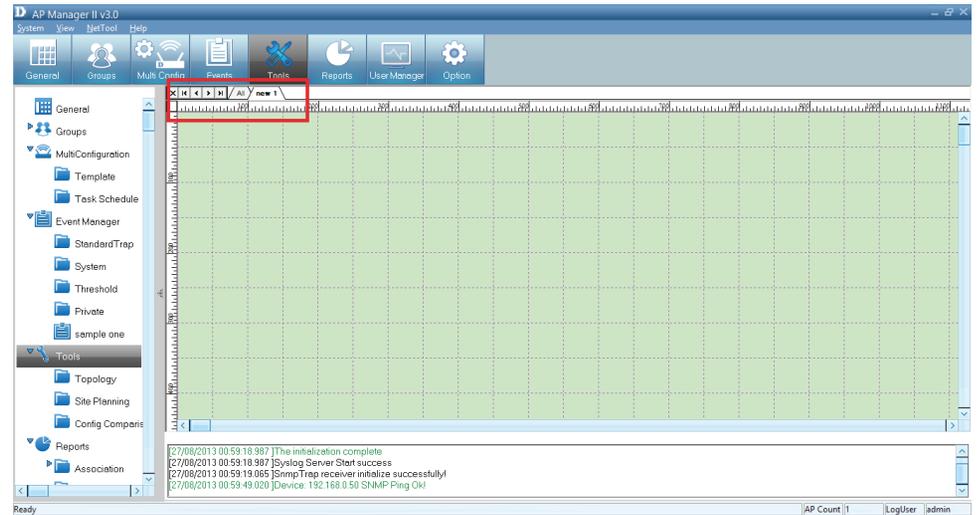


Section 4 - Configuration

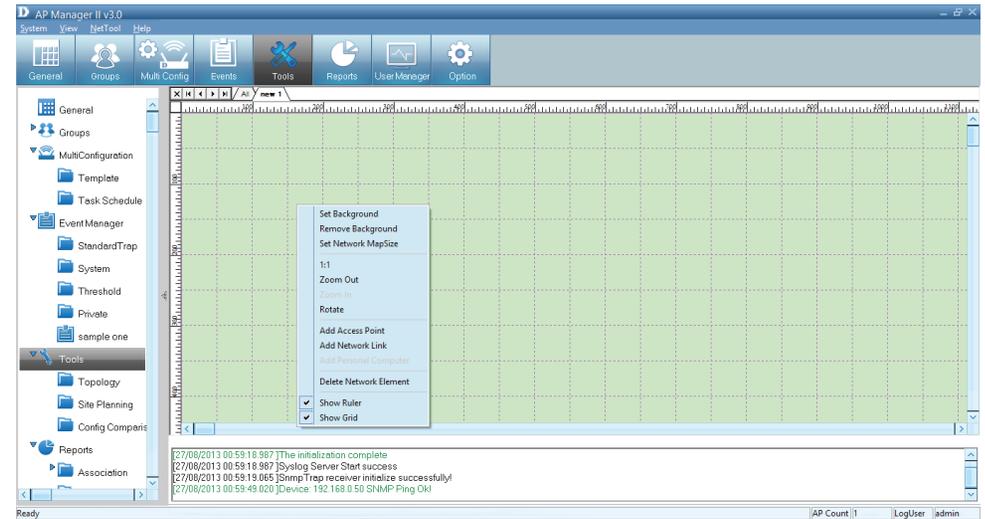
To create a new topology view, right-click on the tab, and click **Add**.



The new workspace is created.

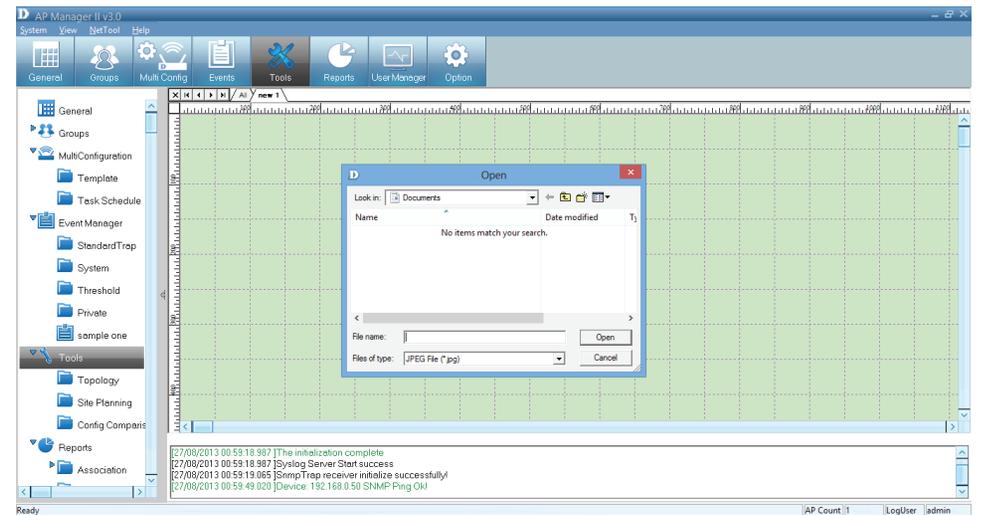


Right-click on the workspace.



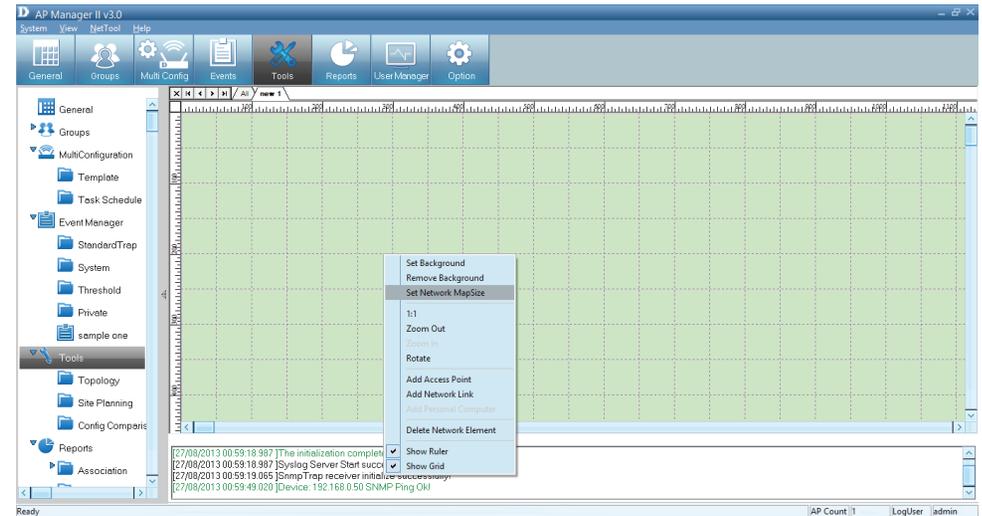
To change the background, click **Set Background**. The edit window opens for you to browse to the folder where you want to change the color. Click **Open** to load.

To remove the background, right-click the blank area and select Remove Background.

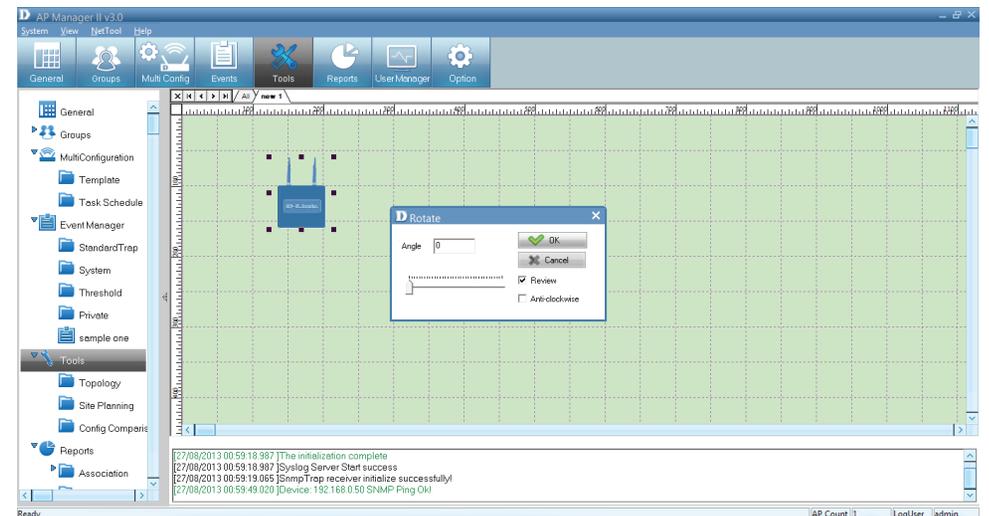


To **Set Network Map Size**, right click and click Set Network Map Size. The Map Size window appears.

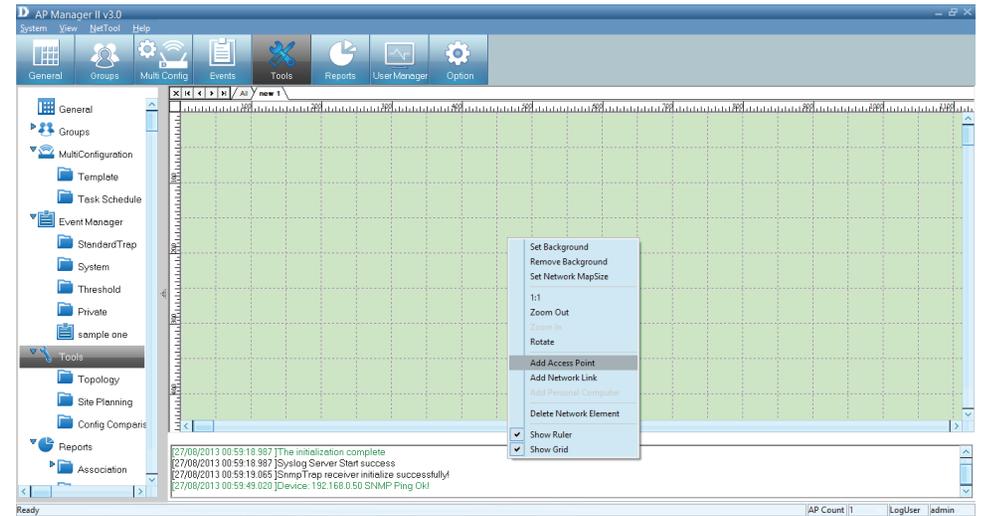
Change the **Width** and **Height** settings and click **OK**.



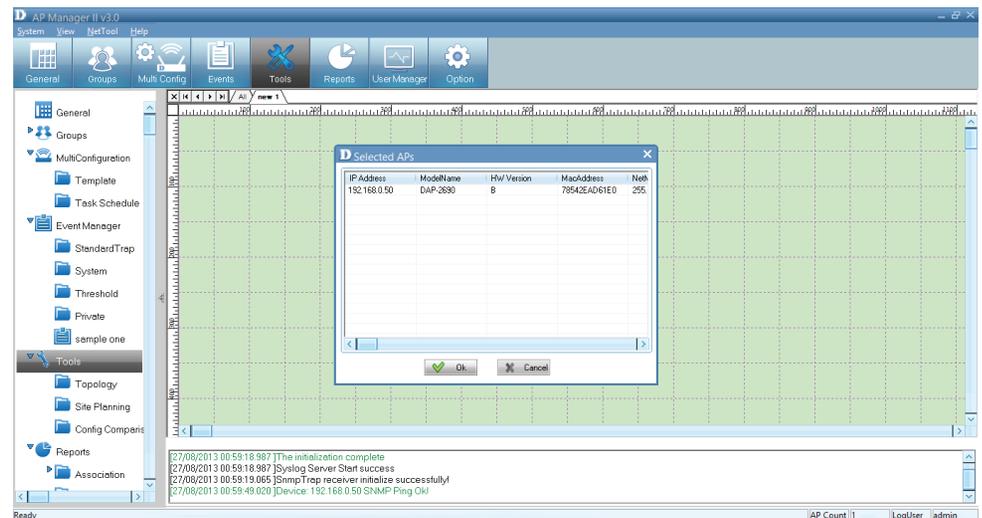
To **Rotate** the image, select the image first and click **Rotate**. Enter a figure in the field provided or use the slider to set the rotation. Click OK when complete.



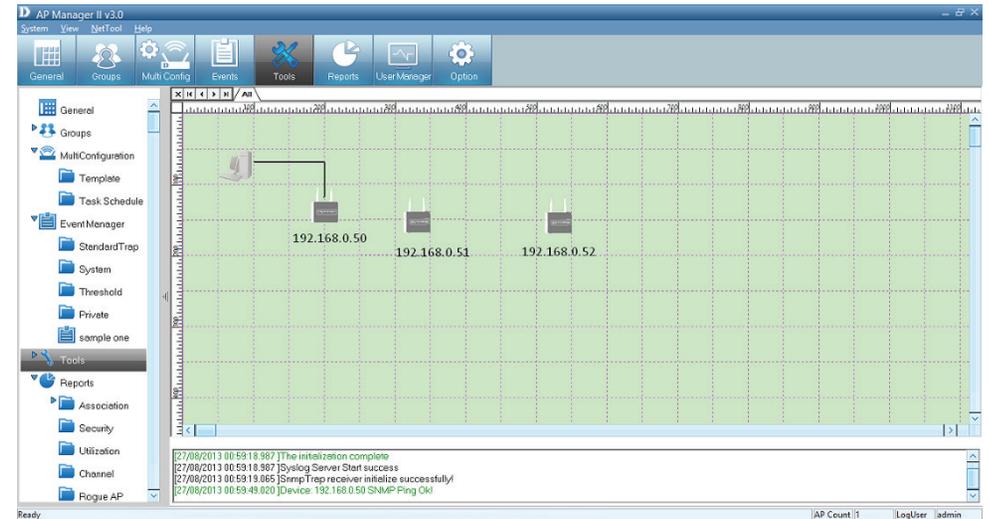
To add an access point, right-click in an open space and select **Add Access Point**.



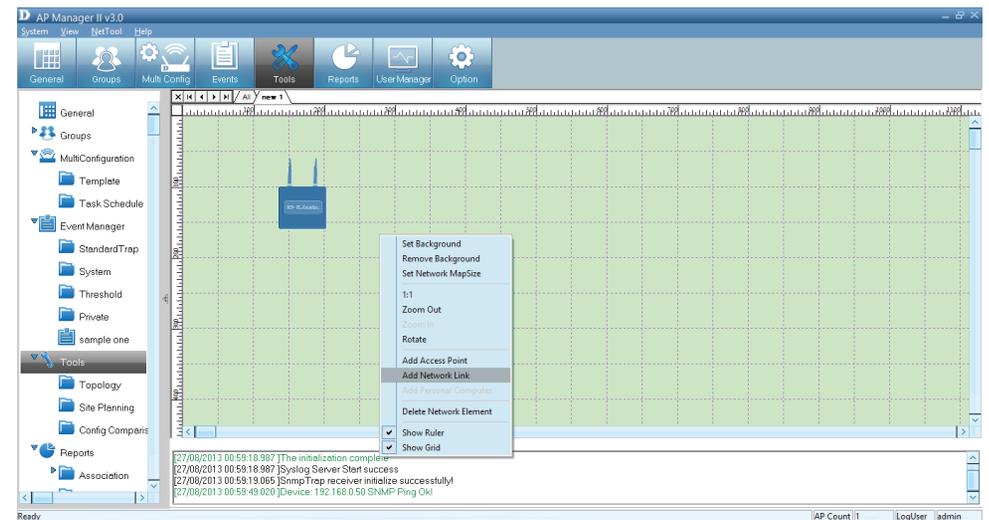
Under **Selected APs**, select the new Access Point you wish to use and click OK. The new Access Point appears on the screen alongside the Access Point you previously had.



The new Access Points appear on the workspace.

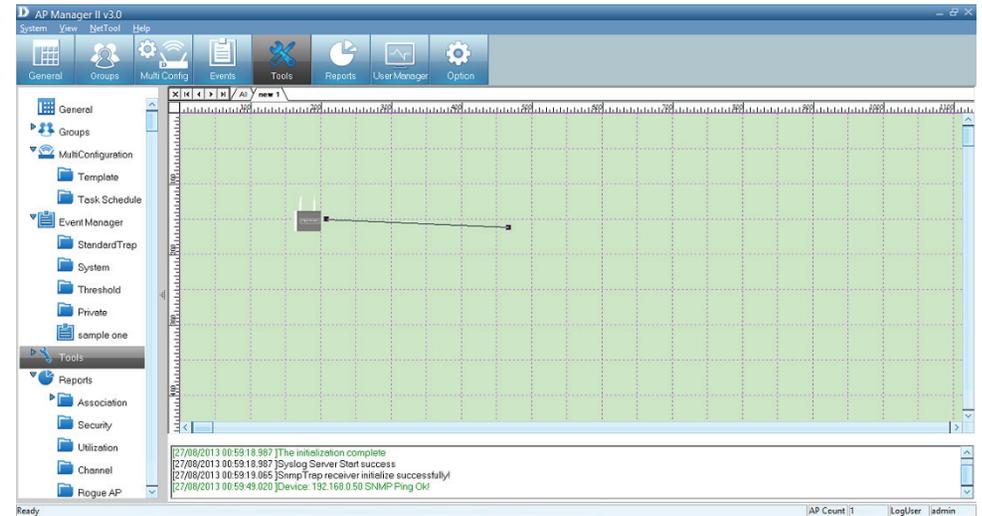


To add lines, and organize the APs more efficiently, right-click in the workspace and click **Add Network Link**.

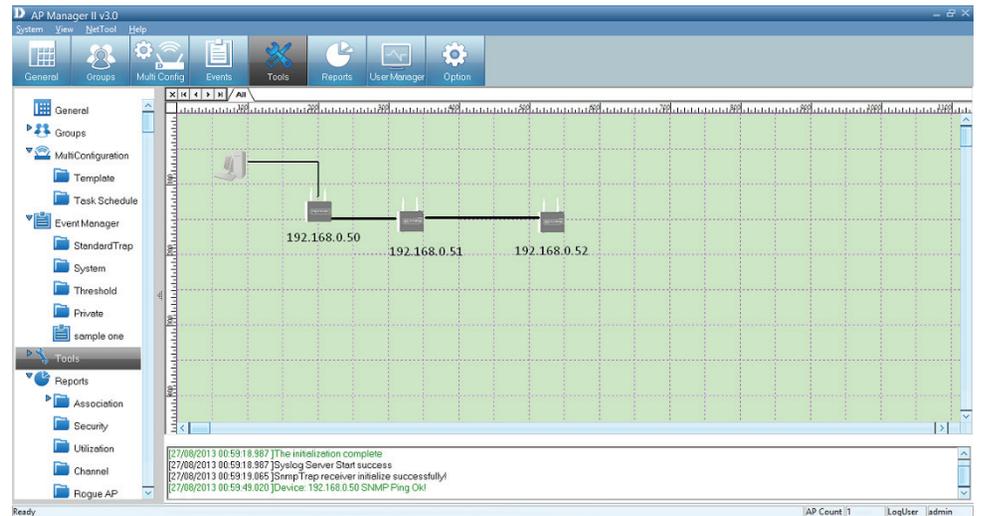


Section 4 - Configuration

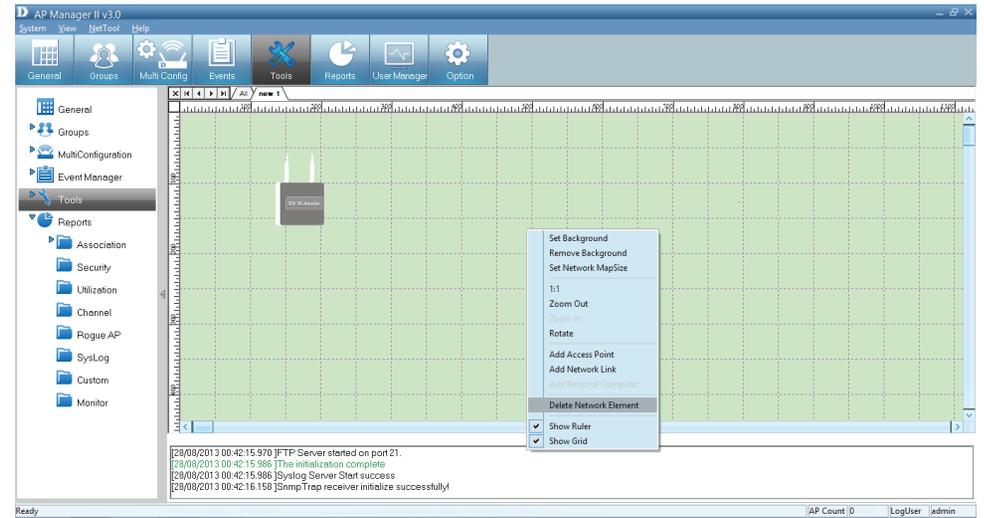
A drawing icon appears for you to create a line between devices.



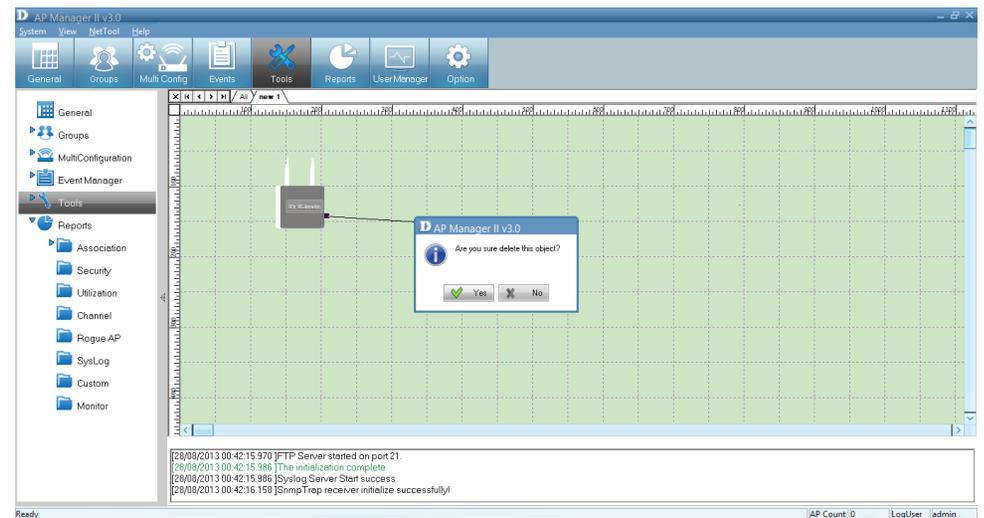
The topology now appears like normal network schematic.



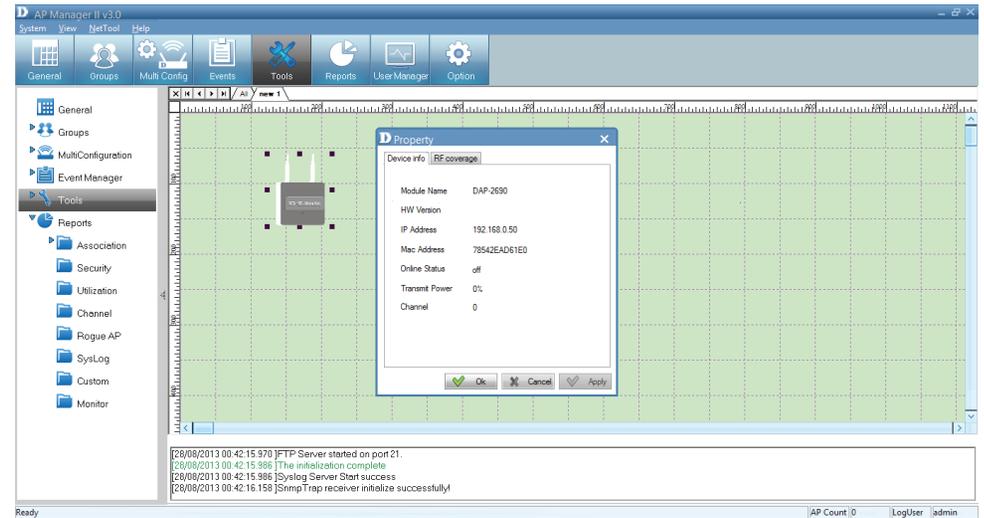
To delete a device, right-click the device and click **Delete Network Element**.



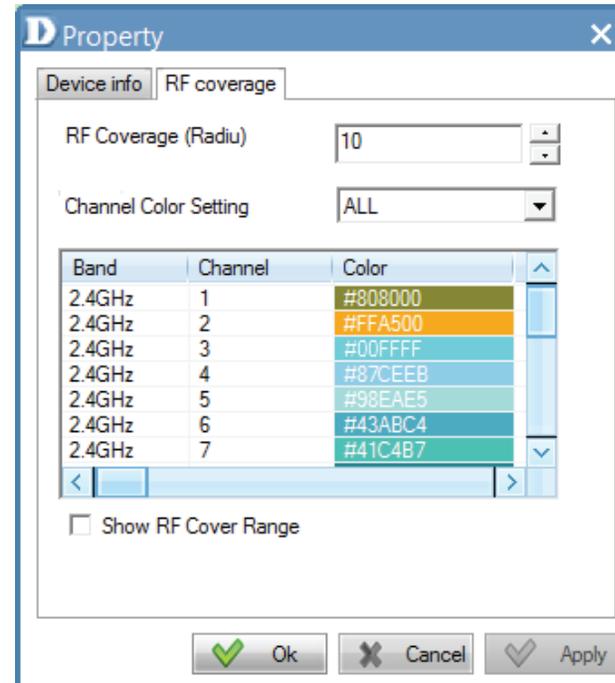
A warning message appears prompting you to verify your selection. Click **Yes** to continue with deleting the device or click **No**.



To find out the properties of each device, double-click the device. The Properties window appears.



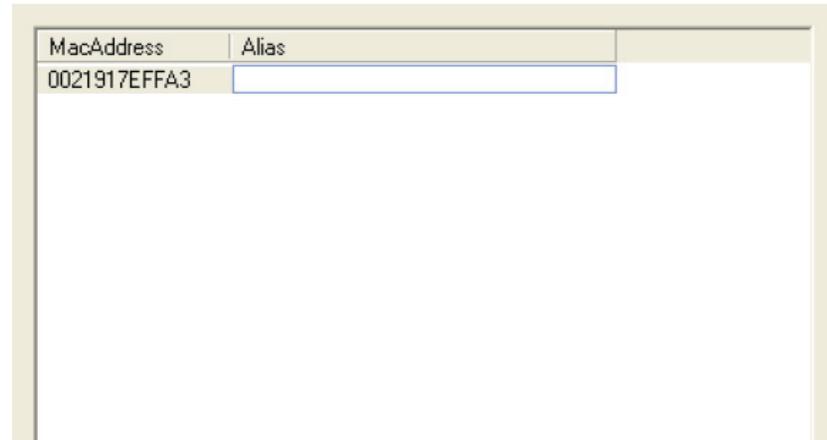
To define the **RF Coverage**, select the **RF Coverage** tab, click the up/down arrows to select the **RF Coverage**.



Section 4 - Configuration

To define the channel color settings, click ALL or the device you want to configure. Double-click each channel or the color you want to change. A color palette pops up for you to select a new color.

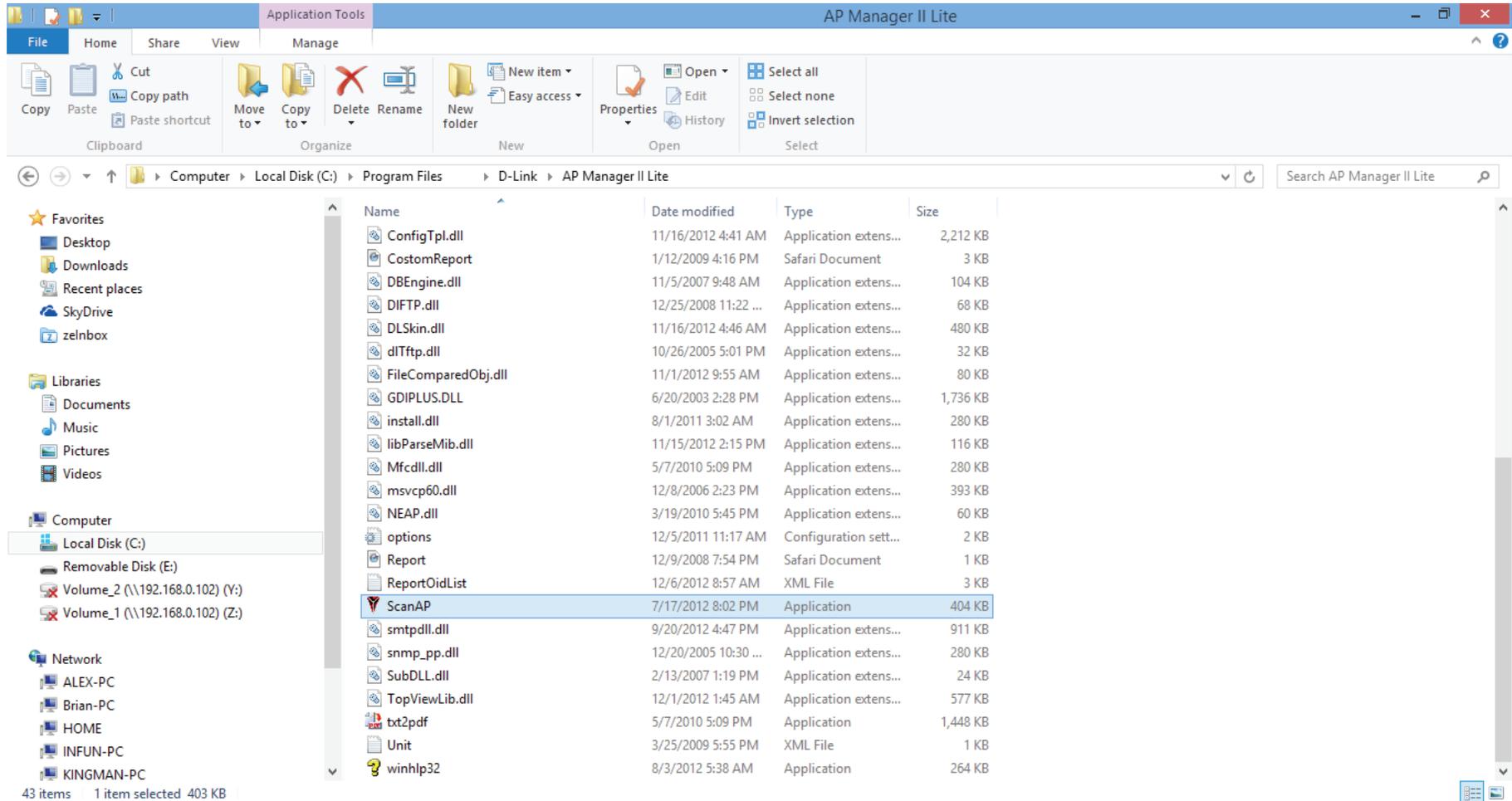
Click **Apply** and **OK** to finish.



The image shows a screenshot of a configuration window with a table. The table has two columns: 'MacAddress' and 'Alias'. The first row contains the MAC address '0021917EFA3' and an empty text box for the alias.

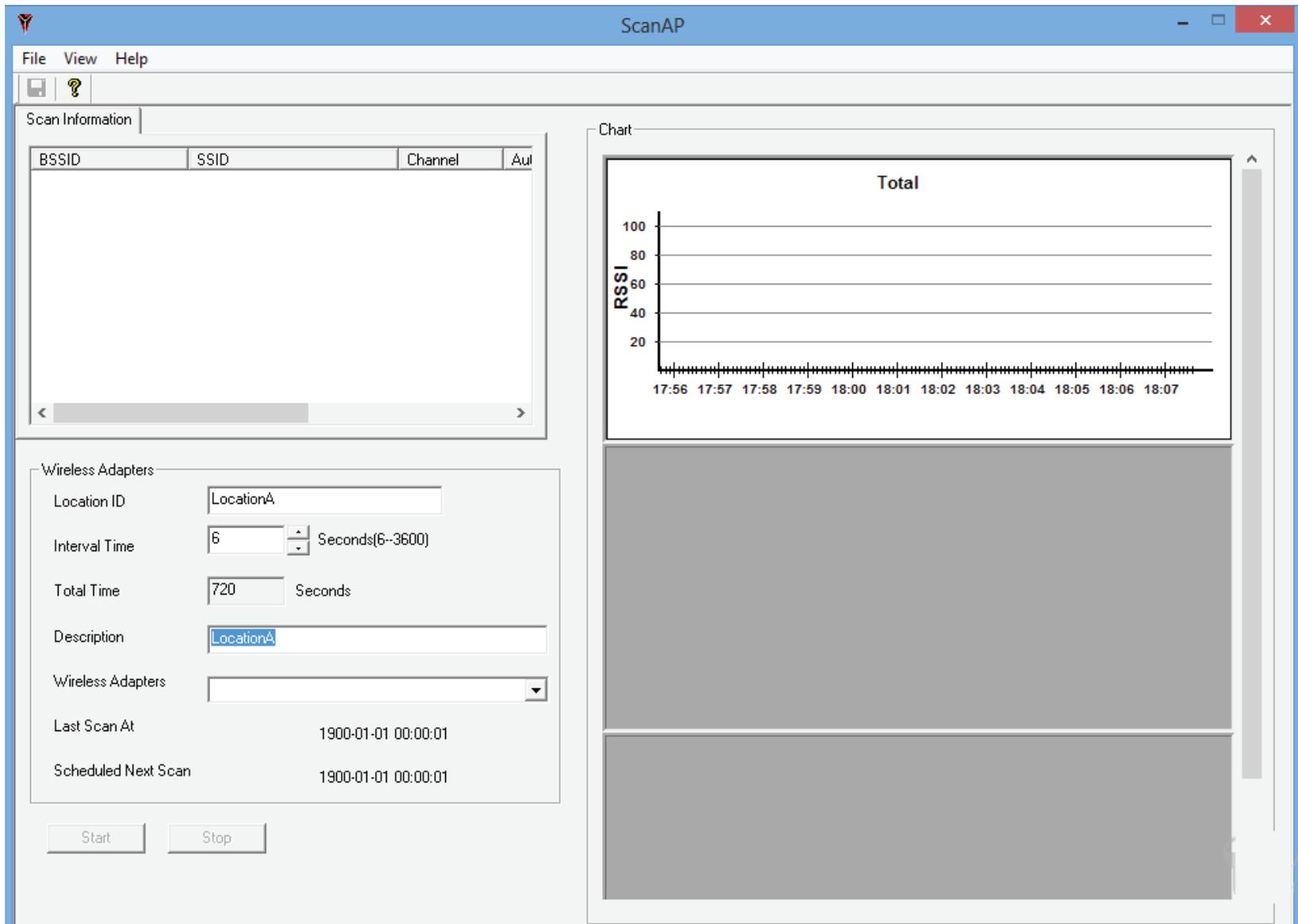
MacAddress	Alias
0021917EFA3	<input type="text"/>

To run the scan, go to the directory where the AP Manager II is located. Double-click the **ScanAP.exe** file.



To collect the **Access Points RF information**, click **ScanAP**.

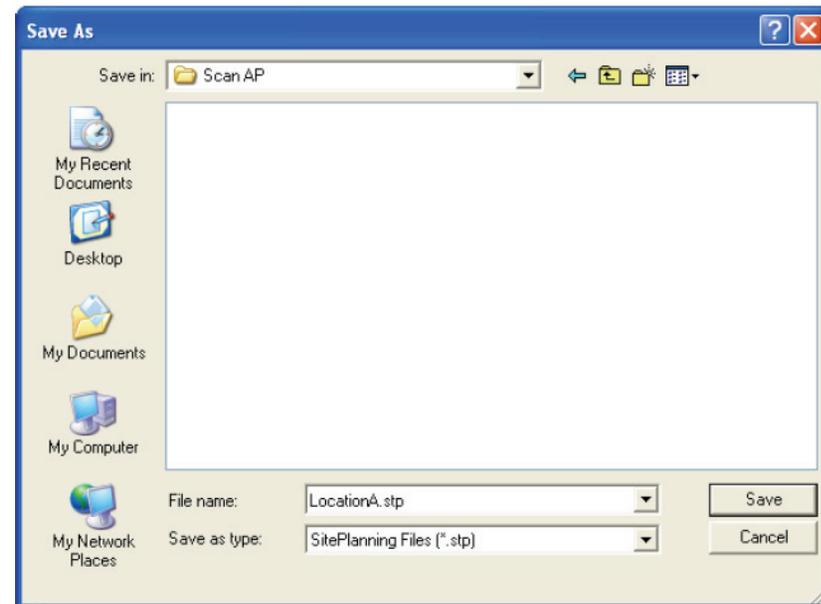
Select the target Access Point. Enter the Location ID, Description, and select the intervalTime and wireless adapter, and then click the Start button.



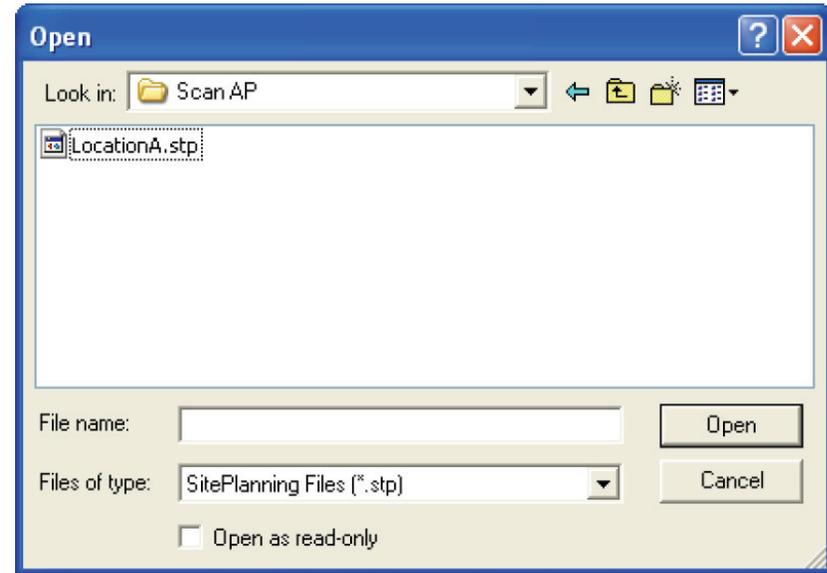
ScanAP starts to collect information on the Access Point. The Access Point is complete when a prompt message appears.



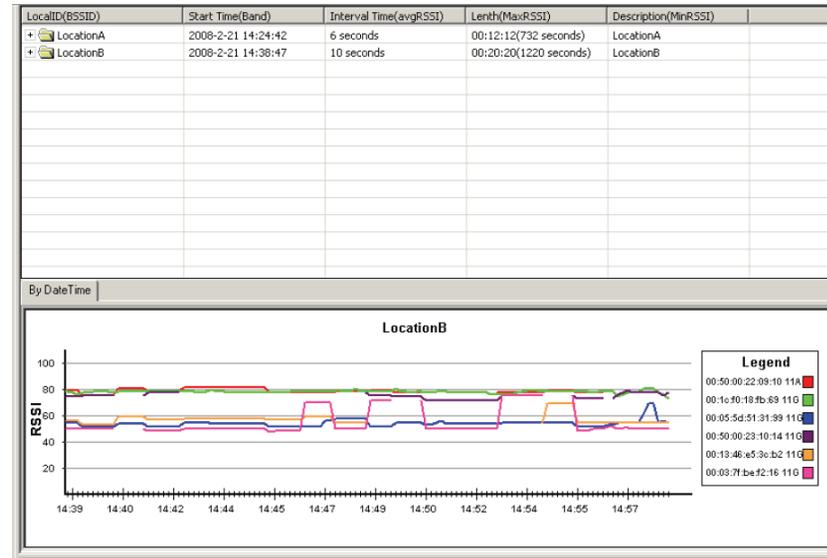
You can also save the location information. When you are prompted to click the Save button.



To load the Location Information, click the Load button from the Site Planning window and click Open.

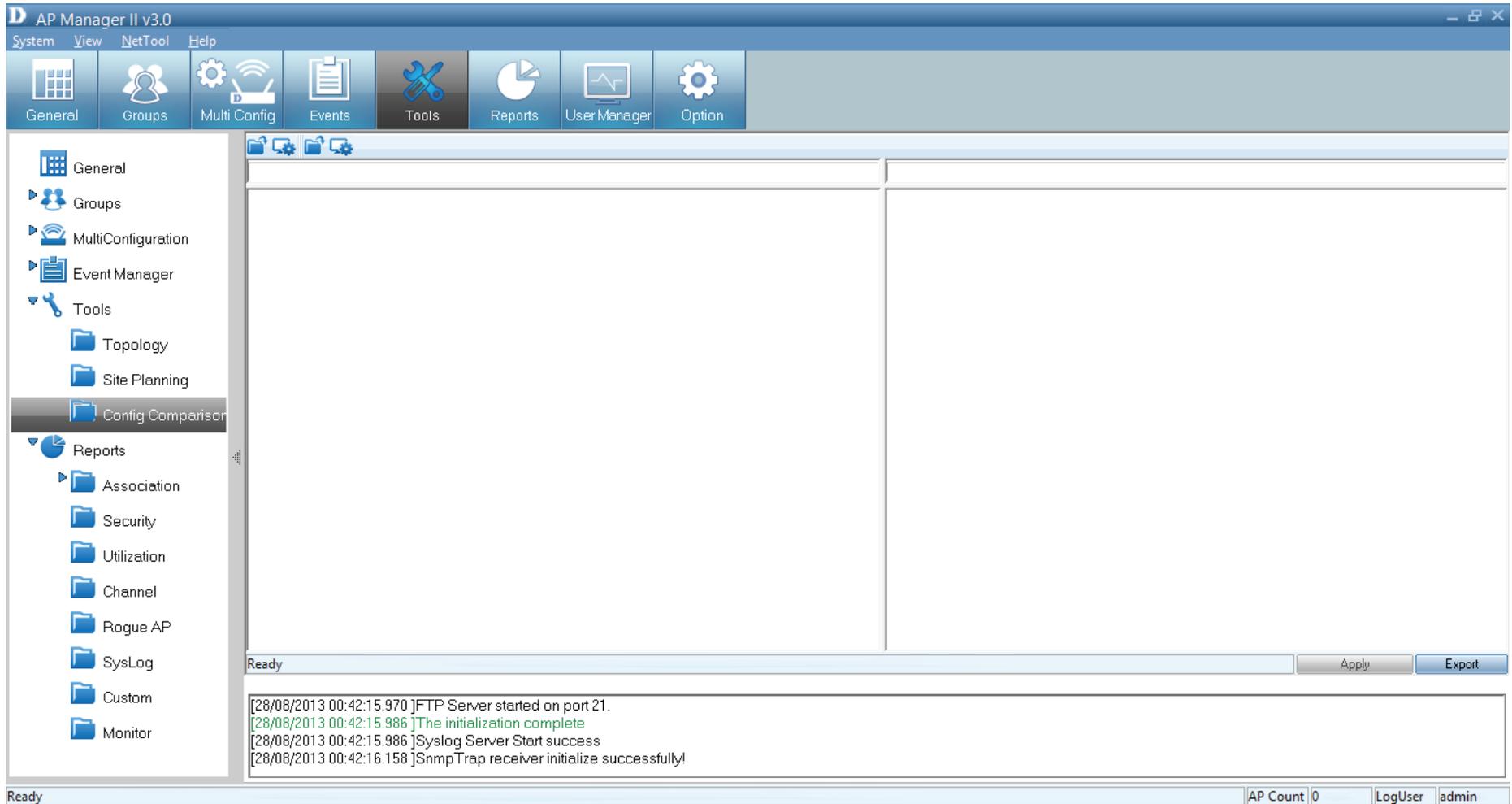


Select the file from the list or expand the file to see the details on each location.



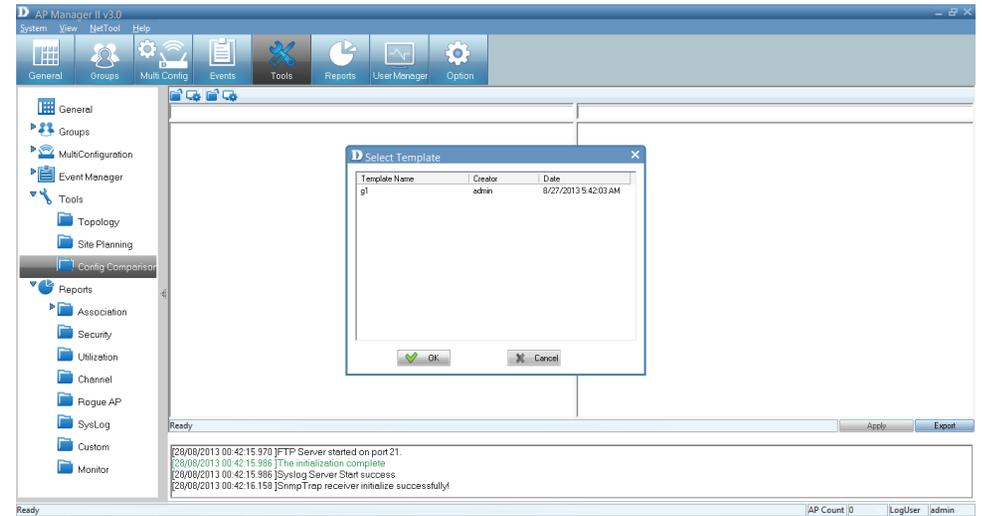
AP Manager II v3.0 - Tools - Config Comparison

The Config Comparison tool displays windows side-by-side. It provides all system data on the Access Point to view and collate.

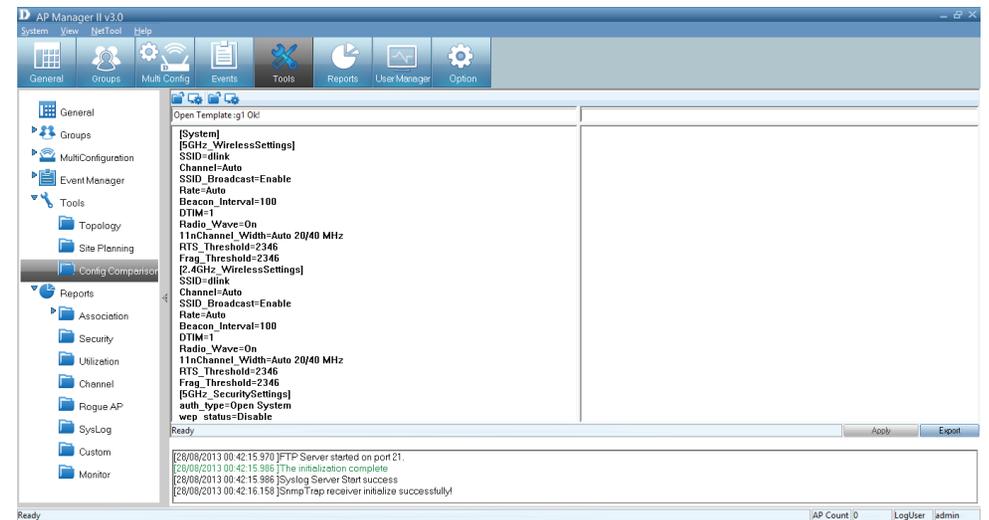


Section 4 - Configuration

Select the File icon to open the Template. Click the Template you want to compare and click OK.

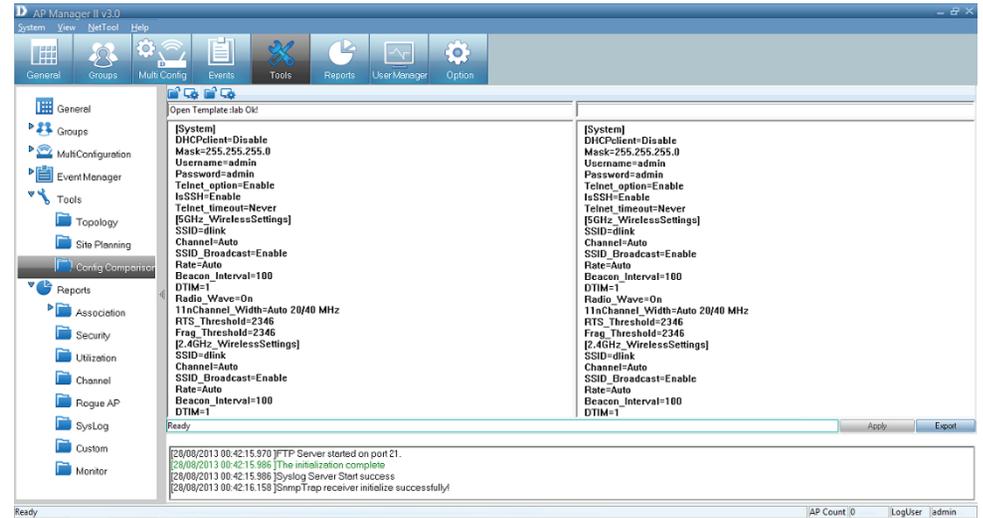


The Template is displayed in the left pane. The second option is to click this icon  It downloads the file to the comparison table.



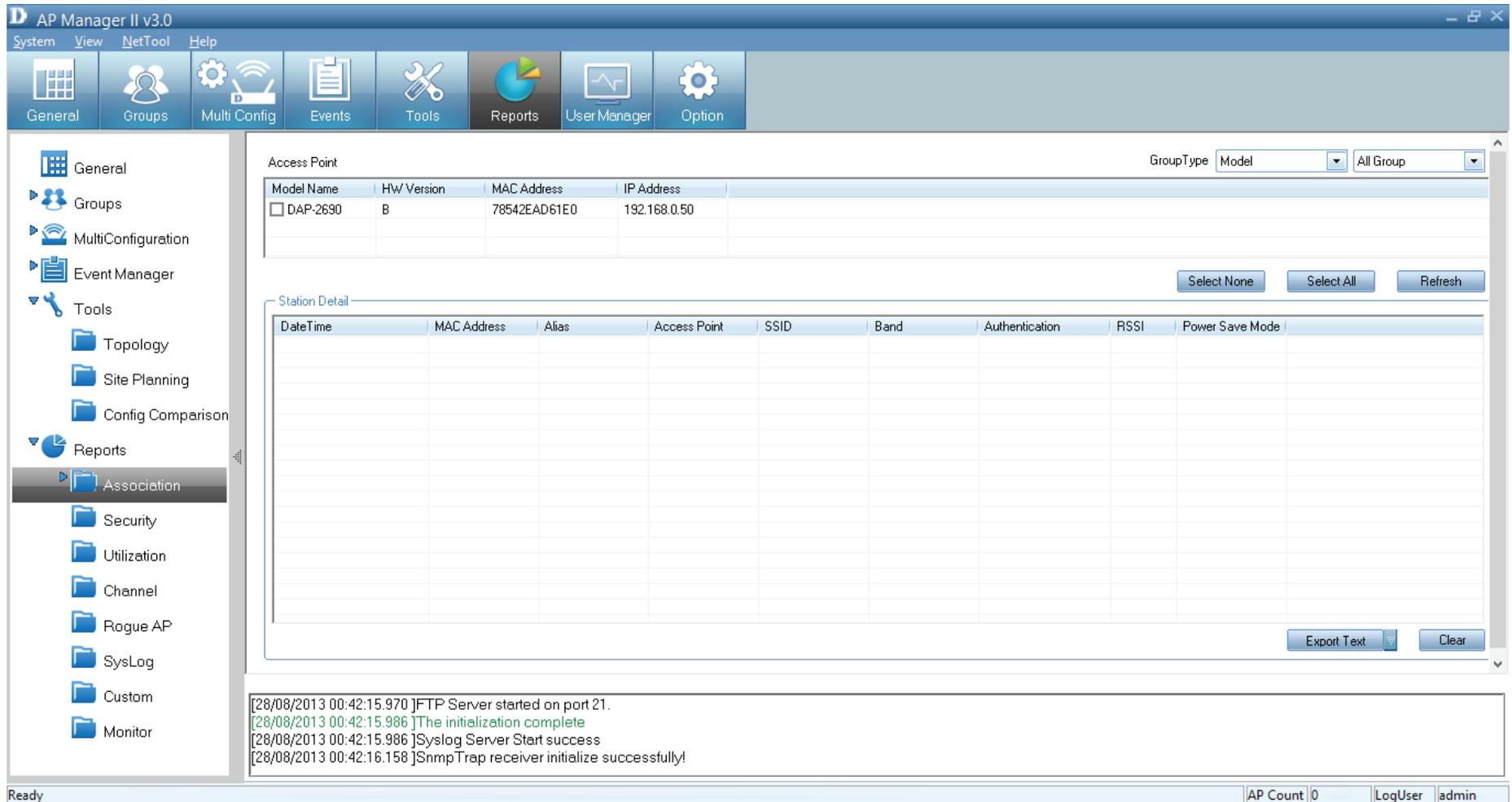
Section 4 - Configuration

Once you have downloaded both profiles, they are displayed side-by-side for analysis.



By Access Point - Highlight an Access Point and the details of client stations that associated with the AP list are shown. The detail information includes, Date/Time, MAC Address, Alias, Access Point, SSID, Band, Authentication, RSSI and Power save mode.

From the Group Type, you can specify the summary to show the data according to a specified model or group. To export the Access Point data to a file, click a file type from the Export Text drop-down menu or click the Export Text button, and then enter a file name in the Export window, click the Save button to save the Access Point data.



AP Manager II v3.0 - Report - Channel

The channel window graphically lists the channel usage of the managed Access Points. From the Group Type, specify the graph data according to a specific model or group.

The screenshot displays the AP Manager II v3.0 interface. The left-hand navigation pane is expanded to show the 'Channel' report under the 'Reports' category. The main content area features three channel usage graphs:

- 802.11 b/g/n Channel Usage:** A bar chart showing channel counts for channels 1 through 13. The y-axis is labeled 'Channel Counts' and ranges from 0 to 20.
- 802.11 a/n Channel Usage:** A bar chart showing channel counts for channels 1 through 13. The y-axis is labeled 'Channel Counts' and ranges from 0 to 20.
- Show Channel Usage By Group:** A bar chart showing channel counts for channels 1 through 13. The y-axis is labeled 'Channel Counts' and ranges from 0 to 20.

Below the graphs, there are two dropdown menus: 'GroupType' (set to 'Model') and 'All Group'. A 'Refresh' button is located to the right of these dropdowns.

At the bottom of the window, a log window displays the following messages:

```
[28/08/2013 00:42:15.970 ]FTP Server started on port 21.
[28/08/2013 00:42:15.986 ]The initialization complete
[28/08/2013 00:42:15.986 ]Syslog Server Start success
[28/08/2013 00:42:16.158 ]SnmpTrap receiver initialize successfully!
```

The status bar at the bottom of the window shows 'Ready' on the left and 'AP Count | 0 | LogUser | admin' on the right.

AP Manager II v3.0- Report -Rogue AP

The Rogue AP pane shows the Access Points that are not a part of same subnet. Rogue Access Points are showed by Channel, BSSID, Mode, and SSID. To categorize the APs, click the Detect button to scan the APs around, and click the category at the right side of window, then drag the AP from top window to bottom window

The screenshot displays the AP Manager II v3.0 software interface. The main window is titled "AP Manager II v3.0" and features a menu bar (System, View, NetTool, Help) and a toolbar with icons for General, Groups, Multi Config, Events, Tools, Reports, User Manager, and Option. The left sidebar contains a tree view with categories: General, Groups, MultiConfiguration, Event Manager, Tools (Topology, Site Planning, Config Comparison), Reports (Association, By Access Poi, By Wireless St), Security, Utilization, Channel, Rogue AP (selected), and SysLog. The main area is divided into two panes, both with headers: Channel, BSSID, Mode, and SSID. The top pane is labeled "New AP" on the right, and the bottom pane is labeled "Rogue AP" on the right, with sub-labels "Valid AP" and "Neighbor AP". A "Detect" button is located at the bottom right of the bottom pane. Below the panes is a log window showing the following messages:

```
[28/08/2013 00:42:15.970 ]FTP Server started on port 21.
[28/08/2013 00:42:15.986 ]The initialization complete
[28/08/2013 00:42:15.986 ]Syslog Server Start success
[28/08/2013 00:42:16.158 ]SnmpTrap receiver initialize successfully!
```

The status bar at the bottom shows "Ready" on the left, "AP Count | 0" in the middle, and "LogUser | admin" on the right.

AP Manager II v3.0 - Report -Syslog

The Syslog window shows the System log information of the managed Access Point.

The screenshot shows the AP Manager II Lite interface. The main window displays a table of device information for IP 192.168.0.50. An 'Open' dialog box is overlaid, showing a file explorer view of the 'Documents' folder with files like 'Virtual Machines', 'Shared Virtual Machines', 'samsung', 'Public Parallels', and 'noodleinternet'. The 'Files of type' is set to 'firmware file (*.tftp)'. The Syslog window at the bottom shows log entries for device discovery.

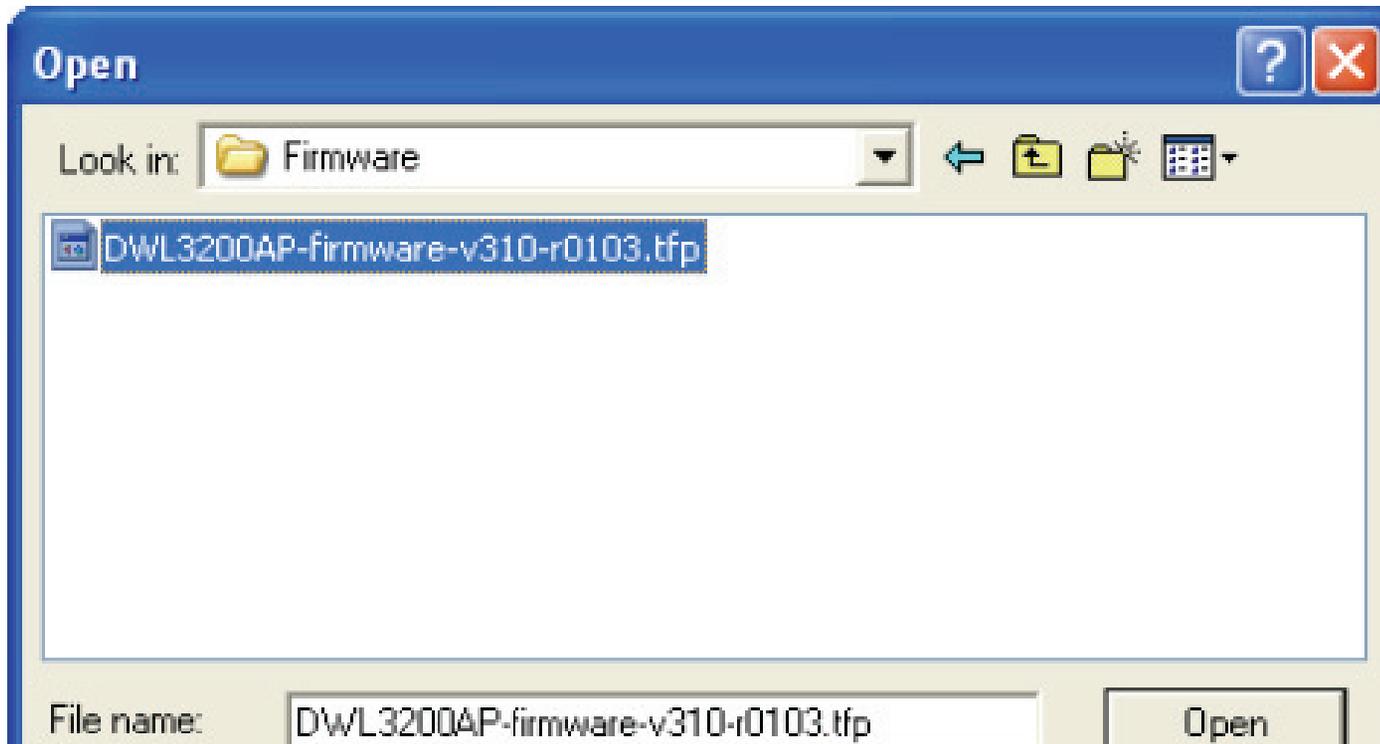
IP Address	Model Name	MAC Address	NetMask	FW version	Location	Action	Result
192.168.0.50	DAP-2690	C8BE19A58B90	255.255.255.0	3.00			

Log entries:

```
[04/12/2012 07:59:34.962]Device: 192.168.0.50 SNMP Ping TimeOut!  
[04/12/2012 08:38:35.215]Discover Completed!  
[04/12/2012 08:55:50.436]Discover Completed!  
[04/12/2012 08:56:22.583]Discover Completed!
```

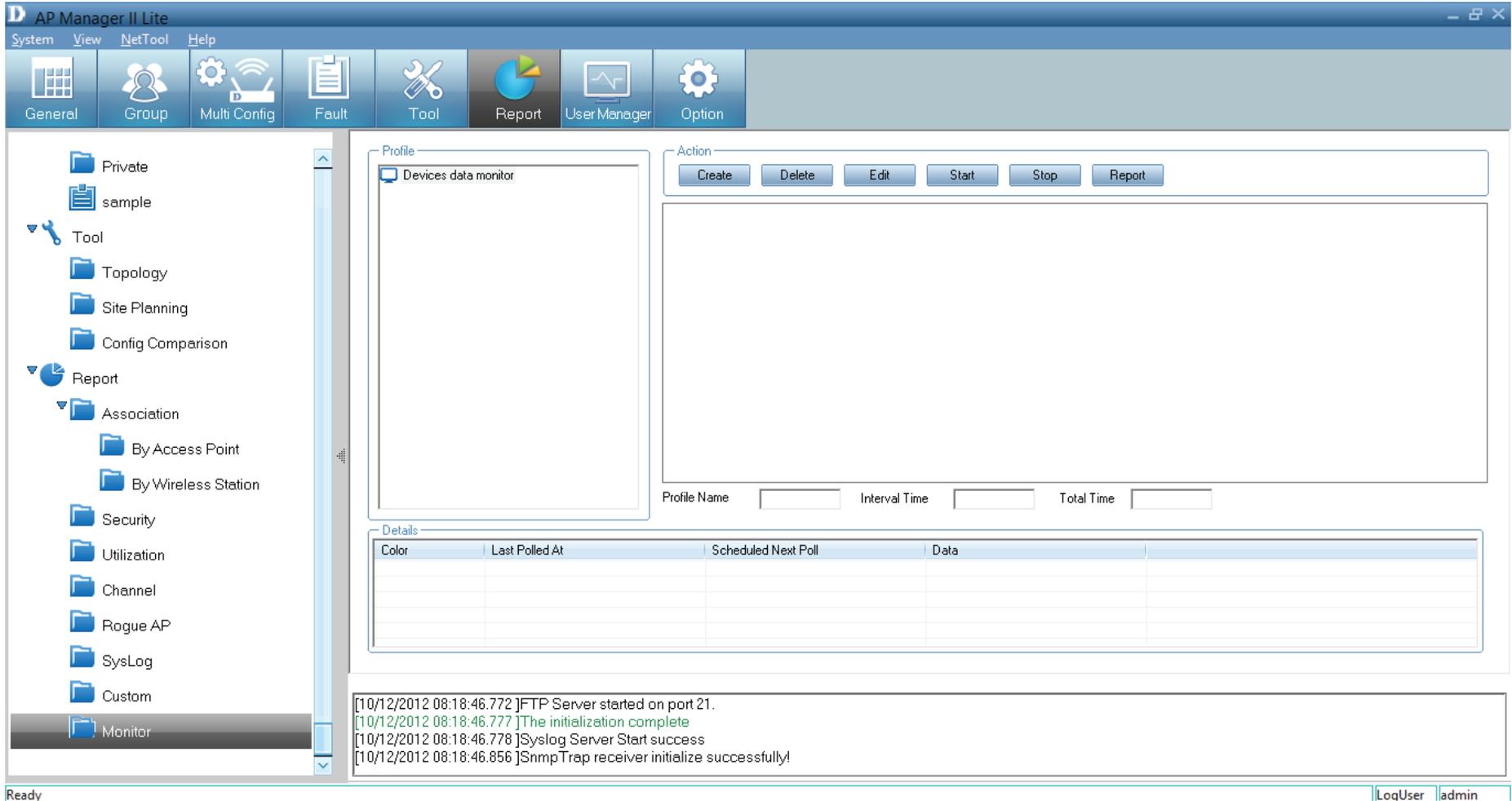
AP Manager II v3.0 - Report -Custom

The Custom log report allows you to configure the read-out from a specific date to a designated date. Click the Search button once you have finalized your time fram. Alternatively, create a custom configuration according to the Group Type (Model or Category) and Group.



AP Manager II v3.0 - Report -Monitor

The Monitor window shows the performance of an Access Point you create from scratch.



Create a new Surveillance profile by clicking the **Create** button under **Action**.

D New Profile

Settings

Profile Name: Profile1

Device IP Address: [] <

Option: [] <

Public Community String: public

Interval Time (seconds): 5 Seconds

Total Time (minutes): 60

Monitor Item

Monitor Item: 1.3.6.1 <

Data Type: Absolute

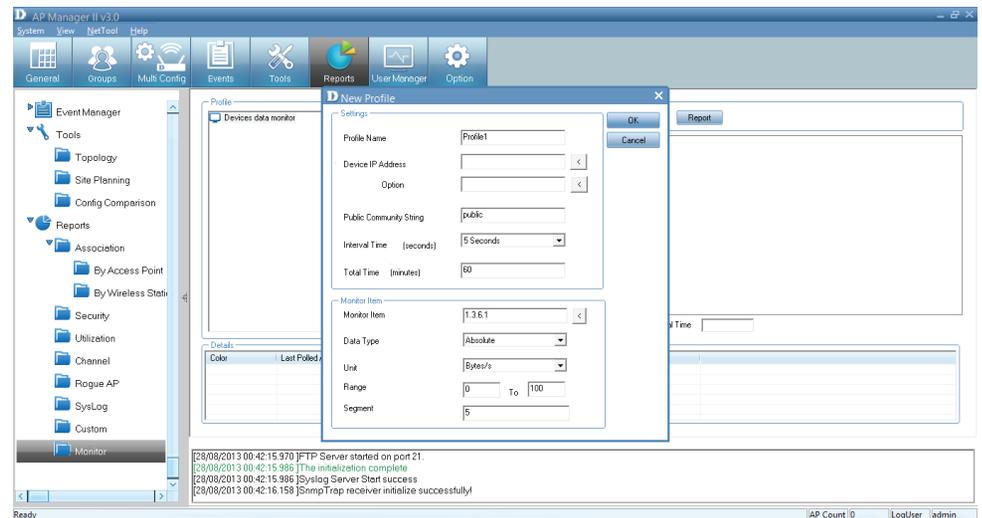
Unit: Bytes/s

Range: 0 To 100

Segment: 5

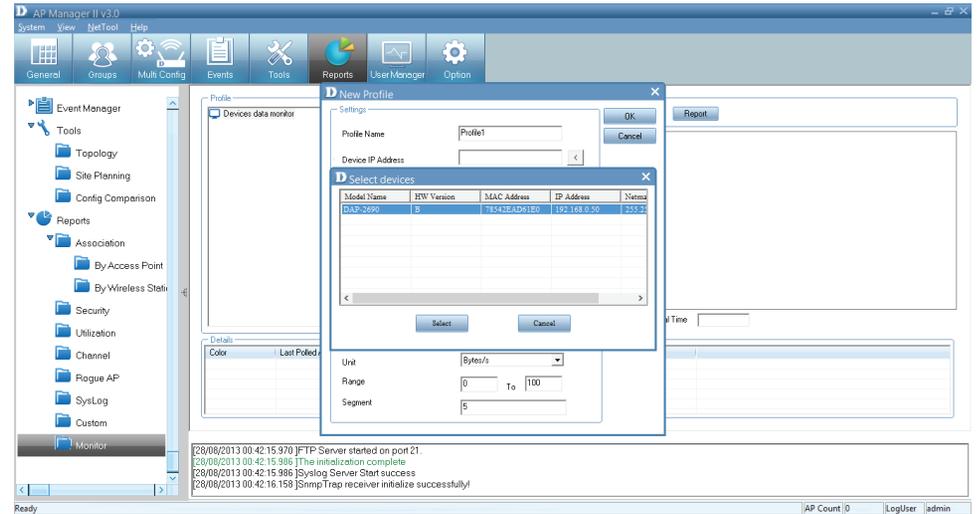
OK Cancel

The Profile is automatically generated
The **Device IP Address** - click the arrow to access it
Option - click the arrow to access it.
Public Community String - automatically generated
Interval Time - select from the drop-down list
Total Time - enter a value in minutes

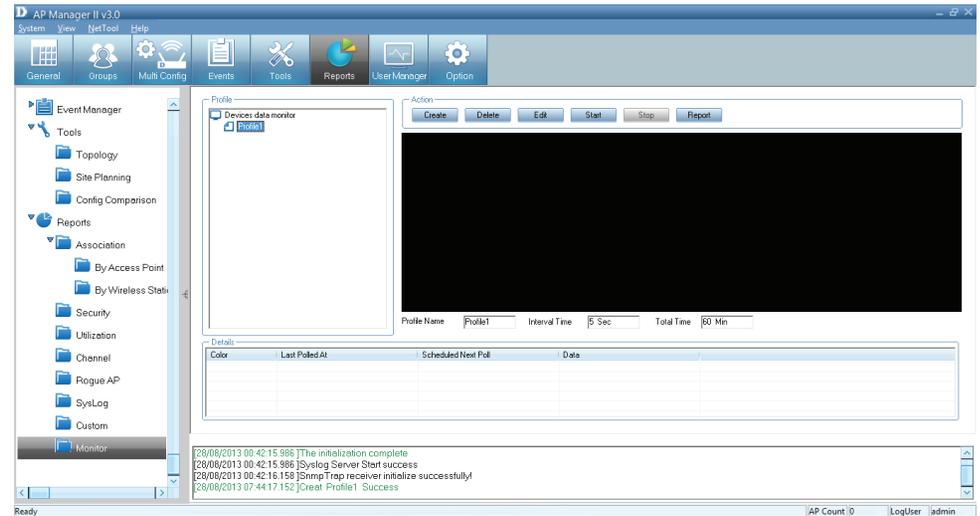


Section 4 - Configuration

Once all the information is entered into the fields provided, click OK



The Access Point monitors the profile you just created.



AP Manager II v3.0 - User Manager

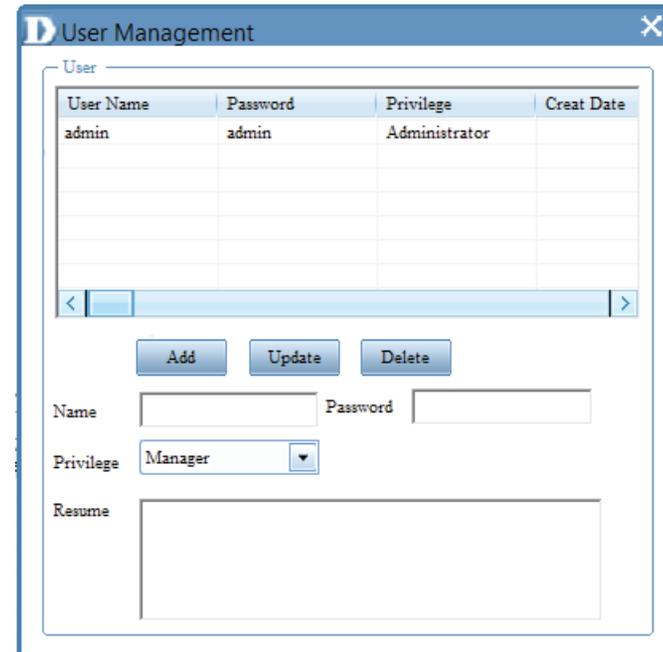
The AP Manager II allows you to manage user profiles. To manage users, click the User Manager icon at the top of the Toolbar.

The screenshot displays the AP Manager II v3.0 software interface. The top toolbar contains several icons, with the 'User Manager' icon (a computer monitor with a pulse line) highlighted by a red rectangular box. The main workspace is divided into several sections:

- Left Navigation Panel:** Contains a tree view with categories like Event Manager, Tools (Topology, Site Planning, Config Comparison), Reports (Association, By Access Point, By Wireless Stati), Security, Utilization, Channel, Rogue AP, SysLog, Custom, and Monitor.
- Profile Configuration Area:** Shows a 'Profile' section with a 'Devices data monitor' sub-section containing a 'Profile1' entry. Below this is an 'Action' bar with buttons for Create, Delete, Edit, Start, Stop, and Report. Further down, there are input fields for 'Profile Name' (Profile1), 'Interval Time' (5 Sec), and 'Total Time' (60 Min).
- Details Table:** A table with the following structure:

Color	Last Polled At	Scheduled Next Poll	Data
- Log/Status Area:** A scrollable log at the bottom shows system messages such as '[28/08/2013 00:42:15.986]The initialization complete' and '[28/08/2013 07:44:17.152]Creat Profile1 Success'. The status bar at the very bottom indicates 'Ready', 'AP Count: 0', and 'LogUser: admin'.

This brings up the **User Management** pane. This shows the current user(s), **Privilege and Account Creation Date**.



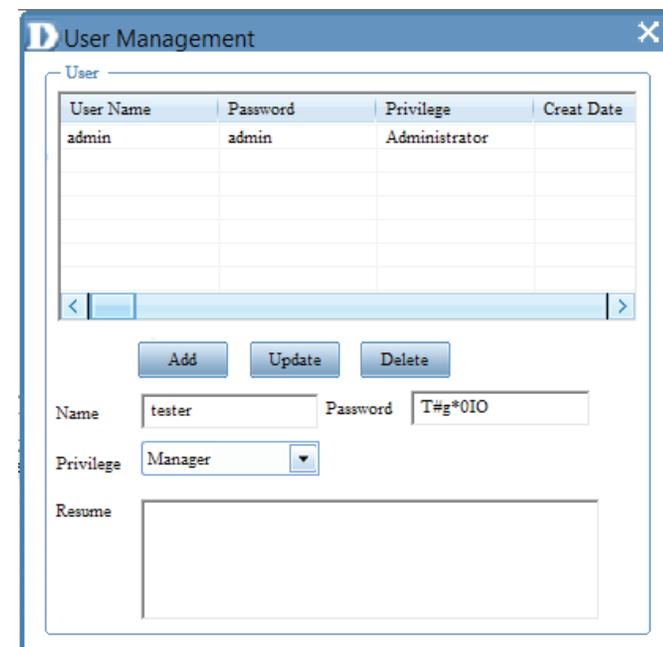
The screenshot shows the 'User Management' window with a table of users. The table has columns for User Name, Password, Privilege, and Creat Date. The first row shows 'admin' with password 'admin' and 'Administrator' privilege. Below the table are buttons for 'Add', 'Update', and 'Delete'. The form fields are: Name (empty), Password (empty), Privilege (Manager), and Resume (empty).

User Name	Password	Privilege	Creat Date
admin	admin	Administrator	

To create a new user, enter the details provided, **Name** and **Password**, and **Privilege** rights from the drop-down menu. Click the **Add** button.

Explanation of privilege levels:

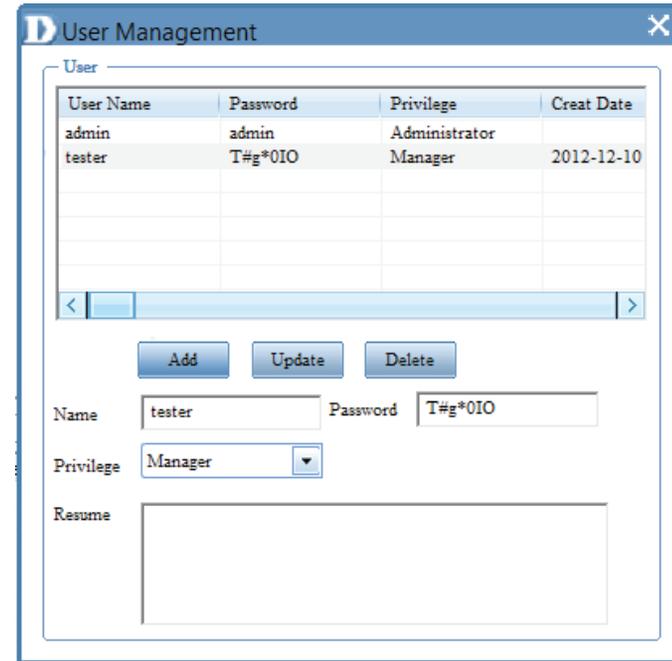
- Administrator: Owns all the rights of the AP Manager II.
- Manager: Owns all the rights except user manager.
- Guest: Can only view the information.



The screenshot shows the 'User Management' window with the same table as above. The form fields are now: Name (tester), Password (T#g*0IO), Privilege (Manager), and Resume (empty). The 'Add' button is highlighted.

User Name	Password	Privilege	Creat Date
admin	admin	Administrator	

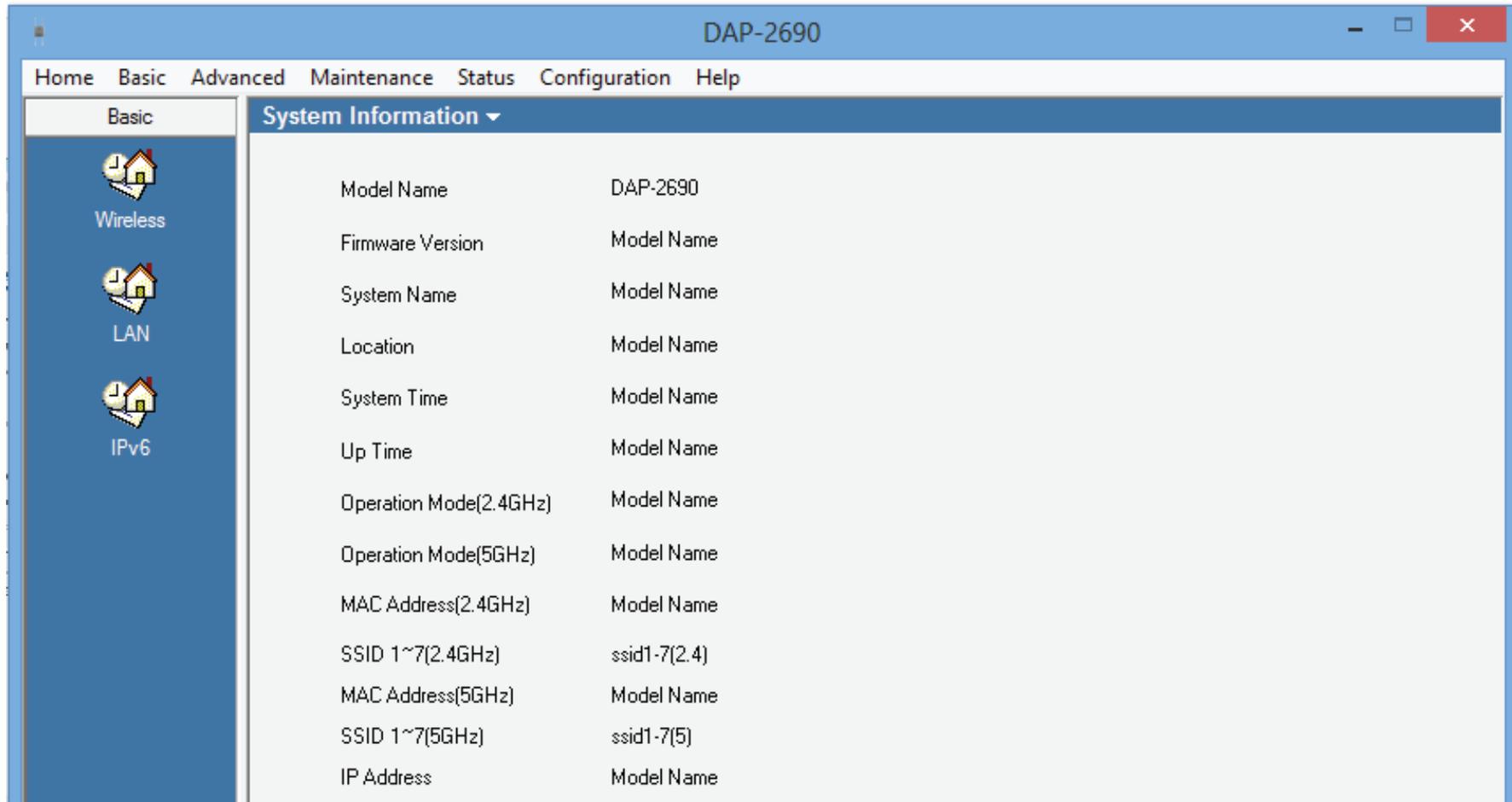
The new details now populates the **User Management** table.



To delete a user, click the **Delete** button.

AP Manager II v3.0 - Options

A user can change the software operation environment of the AP Manager II. To configure the system environment, click Options in the main Toolbar.



The **Options** configuration window has four tabs - **General, Module, Database Maintenance, and Advanced**. The **General** section consists of **Logon Settings, SNMP Settings, Polling Settings, and Discover**.

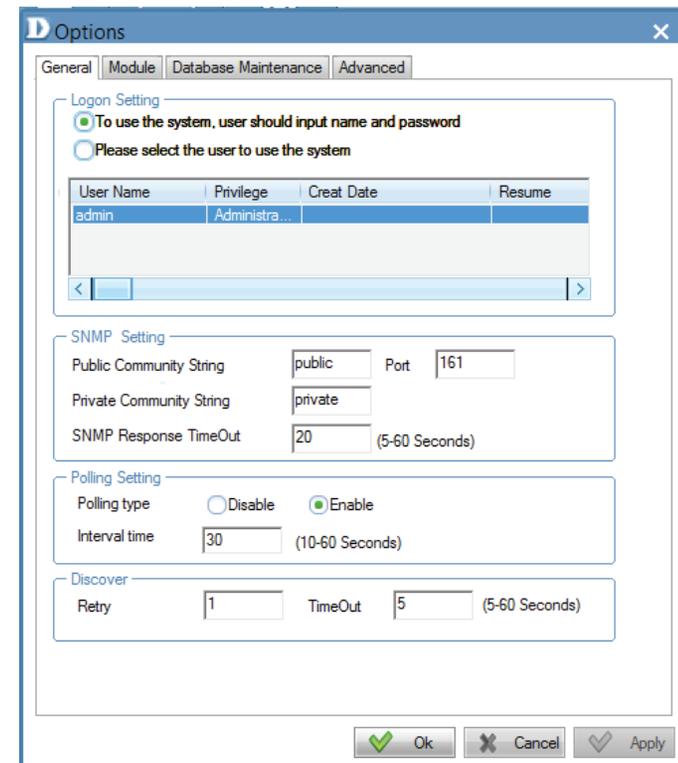
Logon Settings - Select whether a user enters a username and password or select a specific user to use the system.

SNMP Settings - Select the Public/Private Community String, the Port number, and the SNMP Response TimeOut

Polling Settings - Select to enable or disable the Polling type and the interval period

Discover - Enter a value for the Discovery Retry and Timeout duration.

Click **Apply**, then **OK** when you are finished with the configuration. Click **Cancel** if you wish not to make any changes.



The screenshot shows the 'Options' configuration window with the 'General' tab selected. The window contains several sections:

- Logon Setting:** Two radio buttons are present. The first, 'To use the system, user should input name and password', is selected. The second is 'Please select the user to use the system'.
- User List:** A table with columns 'User Name', 'Privilege', 'Creat Date', and 'Resume'. One row is visible with 'admin' in the 'User Name' column and 'Administra...' in the 'Privilege' column.
- SNMP Setting:** Four input fields: 'Public Community String' (value: public), 'Port' (value: 161), 'Private Community String' (value: private), and 'SNMP Response TimeOut' (value: 20, with '(5-60 Seconds)' below it).
- Polling Setting:** Two radio buttons: 'Disable' and 'Enable'. 'Enable' is selected. Below is an 'Interval time' field with value '30' and '(10-60 Seconds)' below it.
- Discover:** Two input fields: 'Retry' (value: 1) and 'TimeOut' (value: 5, with '(5-60 Seconds)' below it).

At the bottom right, there are three buttons: 'Ok' (with a green checkmark icon), 'Cancel' (with a red X icon), and 'Apply' (with a grey checkmark icon).

The Module is divided into two sections: **Select firmware file for model** and **Rogue AP**.

Model Name - Details automatically provided

Firmware File - Click the Browse button to find the new/ updated firmware. Click Save when complete.

Module Information - This displays the current information.

Rogue AP - This can be auto-signed. Click the checkbox next to Auto-Sign Rogue AP and enter an IP Range

Click **Apply**, then **OK** when you are finished with the configuration. Click **Cancel** if you wish not to make any changes.

The screenshot shows the 'Options' dialog box with the following content:

- General** | **Module** | Database Maintenance | Advanced
- Select firmware file for model**
 - Model Name: DAP-2690
 - Firmware file: [Empty field]
 - Buttons: Save, Browse
- Module Information**
 - Model Name: DAP-2690
 - Description: AP Manager II Module v3.00r07 (2012/11/20)
 - Version: 3.00
 - Support Band: 2.4GHz/5GHz
- Rogue AP**
 - Auto-Sign Rogue AP
 - IP Range: [Empty field] to [Empty field]
- Buttons: Ok, Cancel, Apply

The Database Maintenance allows users to configure the database according to their needs. Data is available for **Fault Data, Wireless Station Data, System Log Data, Utilization Data and SysLog Data**

Data is further segmented into Notice by Records and Clear Rule.

Under **Notice By Record**, enter a value in the field provided

Under **Clear Rule**, there are three main options.:

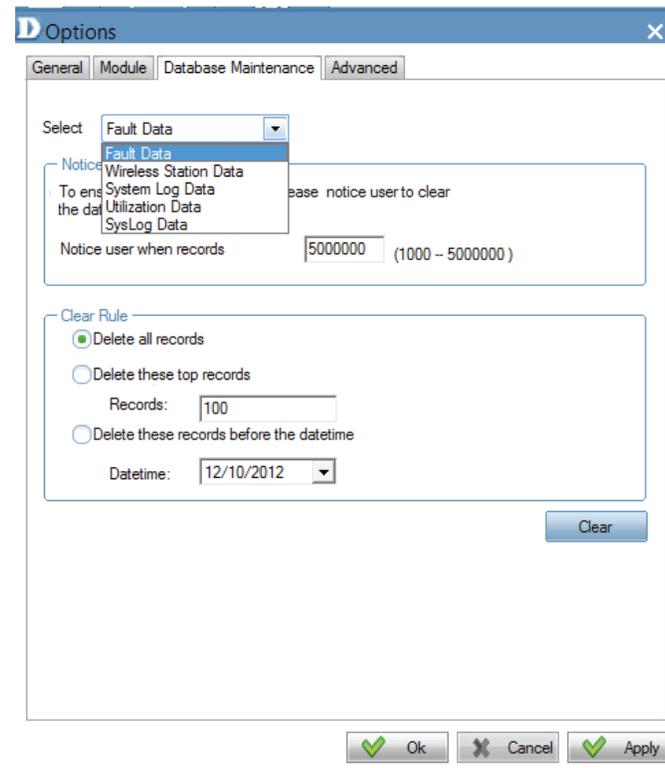
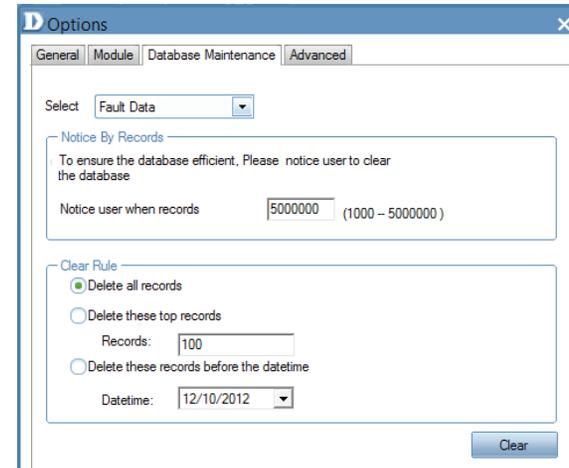
Delete all records - self explanatory

Delete these top records - enter a value accordingly

Delete these records before the datetime - enter the calendar date

Click **Clear** if you wish to start over.

Click **Apply**, then **OK** when you are finished with the configuration. Click **Cancel** if you wish not to make any changes.



The Advanced tab is divided into two sections, TimeOut Settings and FTP Server settings

TimeOut Settings

Under **TimeOut Settings**, enter a value in the field provided for the following settings:

Set Timeout

Reboot Timeout

Configuration Flash Update Time

F/W Download Time

F/W Flash Update Time

Time Tolerance Time

Under **FTP Server**, there are two main options.:

Enable Local FTP Server -

Enable Remote FTP Server - Enter Remote IP Address

Username

Password

Port

Click **Test** to see its functionality

Click **Apply**, then **OK** when you are finished with the configuration. Click **Cancel** if you wish not to make any changes.

The screenshot shows the 'Options' dialog box with the 'Advanced' tab selected. The 'TimeOut Settings' section includes the following fields and values:

Setting	Value
Set Timeout(s)	5
Reboot Timeout(s)	50
Configuration Flash Update Time(s)	60
Factory Reset Time(s)	60
F/W Download Time(s)	80
F/W Flash Update Time(s)	300
Timing Tolerance Time(s)	5

The 'FTP Server' section has the following configuration:

- Enable Local FTP Server (selected)
- Enable Remote FTP Server (unselected)
- Remote Server IP Address: 0 . 0 . 0 . 0
- User Name: (empty)
- Password: (empty)
- Port: 21