

DAP-3520
Release 1.00

AirPremier N Dual Band
Exterior PoE Access Point

 User Manual

Business Class Networking

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Package Contents



- D-Link DAP-3520 AirPremier N Dual Band Exterior PoE Access Point
- Ethernet Cable
- Manual on CD
- DC 48V, 0.4A Power Adapter
- Installation Guide

If any of the above items are missing, please contact your reseller.

Minimum System Requirements

- Computers with Windows®, Macintosh®, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer version 7.0 and above or Firefox version 3.0 and above.

Introduction

The DAP-3520 802.11 a/n or b/g/n switchable AP increases productivity by allowing you to work faster and more efficiently. With the DAP-3520, bandwidth-intensive applications like graphics or multimedia will benefit significantly because large files are now able to move across the network quickly.

The DAP-3520 is capable of operating in one of five different wireless networking modes; access point, WDS (Wireless Distribution System) with AP, WDS, Wireless Client, or WISP Client Router mode.

Use less wiring, enjoy increased flexibility, save time and money with PoE (Power over Ethernet). With PoE, the DAP-3520 shares power and data over the CAT5 cable, making the setup of your network less expensive and more convenient.

An ideal solution for quickly creating and extending a wireless local area network (WLAN) in offices or other workplaces, trade shows, and special events, the DAP-3520 providing data transfers rates up to 300Mbps. (The 802.11n standard is backwards compatible with 802.11a, 802.11g, and 802.11b devices.)

WPA/WPA2 is offered in two flavors: Enterprise (used for corporations) and Personal (used for home users).

WPA-Personal and WPA2-Personal are directed towards home users who do not have the server-based equipment required for user authentication. The method of authentication is similar to WEP because you define a "Pre-Shared Key" on the wireless router/AP. Once the pre-shared key is confirmed and satisfied at both the client and access point, access is then granted. The encryption method used is referred to as the Temporal Key Integrity Protocol (TKIP), which offers per-packet dynamic hashing. It also includes an integrity checking feature which ensures that the packets were not tampered with during wireless transmission.

WPA-Enterprise and WPA2-Enterprise are ideal for businesses that already have existing security infrastructures established. Management and security implementation can now be centralized on a server participating on the network. Utilizing 802.1x with a RADIUS (Remote Authentication Dial-in User Service) server, a network administrator can define a list of authorized users who can access the wireless LAN. When attempting to access a wireless LAN with WPA-Enterprise configured, the new client will be requested to enter a username with a password.. If the new client is authorized by the administration, and enters the correct username and password, then access is then granted. In the case where an employee leaves the company, the network administrator is able to remove the previous employee from the authorized list to avoid compromising the

EAP (Extensible Authentication Protocol) is available through the Windows® XP operating system. You will need to use the same type of EAP protocol on all devices in your network when using the 802.1x feature.

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughput rate.

Features and Benefits

- Five different operation modes - Capable of operating in one of five different operation modes to meet your wireless networking needs: Access Point, WDS with AP, WDS, Wireless Client, or WISP Client Router.
- Faster wireless networking with the 802.11n (draft) standard to provide a maximum wireless signal rate of up to 300 Mbps*.
- Compatible with the 802.11b standard to provide a wireless data rate of up to 11 Mbps, allowing you to migrate your system to the 802.11n (draft) and 802.11g standards on your own schedule without sacrificing connectivity.
- Compatible with the 802.11g standard to provide a wireless data rate of up to 54 Mbps in the 2.4 GHz frequency range.
- Compatible with the 802.11a standard to provide a wireless data rate of up to 54 Mbps in the 5 GHz frequency range.
- Better security with WPA - The DAP-3520 can securely connect wireless clients on the network using WPA (Wi-Fi Protected Access) to provide a much higher level of security for your data and communications than its previous versions.
- AP Manager II management software - The real-time display of the network's topology and AP's information makes network configuration and management quick and simple.
- SNMP for management - The DAP-3520 is not just fast, but also supports SNMP v.3 for better network management. Superior wireless AP manager software is bundled with the DAP-3520 for network configuration and firmware upgrade. Systems administrators can also set up the DAP-3520 easily with the Web-based configuration. A D-Link D-View 6.0 module will be downloadable for network administration and real-time network traffic monitoring with D-Link D-View 6.0 software.
- Utilizes OFDM technology (Orthogonal Frequency Division Multiplexing).
- Supports 802.3af Power over Ethernet.
- Supports one 10/100/1000M Ethernet port.
- Operates in the 2.4~2.5 GHz and 5.15~5.85 GHz** frequency ranges.
- Supports PPPoE on WAN interface (WISP Client Router mode).
- Supports NAT mode and simple firewall (WISP Client Router mode).
- Built-in heater.
- Web-based interface for managing and configuring.

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughput rate.

**Please note that operating frequency ranges vary depending on the regulations of individual countries and jurisdictions. The DAP-3520 isn't supported in the 5.25~5.35 GHz and 5.47 ~ 5.725 GHz frequency ranges in some regions.

Wireless Basics

D-Link wireless products are based on industry standards to provide high-speed wireless connectivity that is easy to use within your home, business or public access wireless networks. D-Link wireless products provides you with access to the data you want, whenever and wherever you want it. Enjoy the freedom that wireless networking can bring to you.

WLAN use is not only increasing in both home and office environments, but in public areas as well, such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are allowing people to work and communicate more efficiently. Increased mobility and the absence of cabling and other types of fixed infrastructure have proven to be beneficial to many users.

Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards, allowing wireless users to use the same applications as those used on a wired network.

People use WLAN technology for many different purposes:

Mobility - productivity increases when people can have access to data in any location within the operating range of their WLAN. Management decisions based on real-time information can significantly improve the efficiency of a worker.

Low implementation costs - WLANs are easy to set up, manage, change and relocate. Networks that frequently change can benefit from WLAN's ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.

Installation and network expansion - by avoiding the complications of troublesome cables, a WLAN system can be fast and easy during installation, especially since it can eliminate the need to pull cable through walls and ceilings. Wireless technology provides more versatility by extending the network beyond the home or office.

Inexpensive solution - wireless network devices are as competitively priced as conventional Ethernet network devices. The DAP-3520 saves money by providing users with multi-functionality configurable in four different modes.

Scalability - Configurations can be easily changed and range from Peer-to-Peer networks, suitable for a small number of users to larger Infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.

Standards-Based Technology

The DAP-3520 Wireless Access Point utilizes the 802.11a, 802.11b, 802.11g, and 802.11n (draft) standards.

The IEEE 802.11n (draft) standard is an extension of the 802.11a, 802.11b, and 802.11g standards that came before it. It increases the maximum wireless signal rate up to 300 Mbps* within both the 2.4 GHz and the 5 GHz bands, utilizing OFDM technology.

This means that in most environments - within the specified range of this device - you will be able to transfer large files quickly, or even watch a movie in MPEG format over your network without noticeable delays. This technology works by transmitting high-speed digital data over a radio wave utilizing OFDM (Orthogonal Frequency Division Multiplexing) technology. OFDM works by splitting the radio signal into multiple smaller sub-signals that are then simultaneously transmitted at different frequencies to the receiver. OFDM reduces the amount of crosstalk (interference) in signal transmissions.

The D-Link DAP-3520 will automatically sense the best possible connection speed to ensure the greatest possible speed and range.

802.11n offers the most advanced network security features available today, including WPA.

Important Information

This product should **ONLY** be installed by an experienced installer who is familiar with local building and safety codes and where ever applicable, is licensed by the appropriate authorities. Failure to do so may void the D-Link product warranty and may expose the end user or the service provider to legal and financial liabilities. D-Link and its resellers or distributors are not liable for injury, damage, or violation of regulations associated with the installation of outdoor units or antennas.

A safety grounding system is necessary to protect your outdoor installation from lightning strikes and the build-up of static electricity. The grounding system must comply with the National Electrical Code and safety standards that apply in your country. Always check with a qualified electrician if you are in doubt as to whether your outdoor installation is properly grounded.

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughput rate.

Installation Considerations

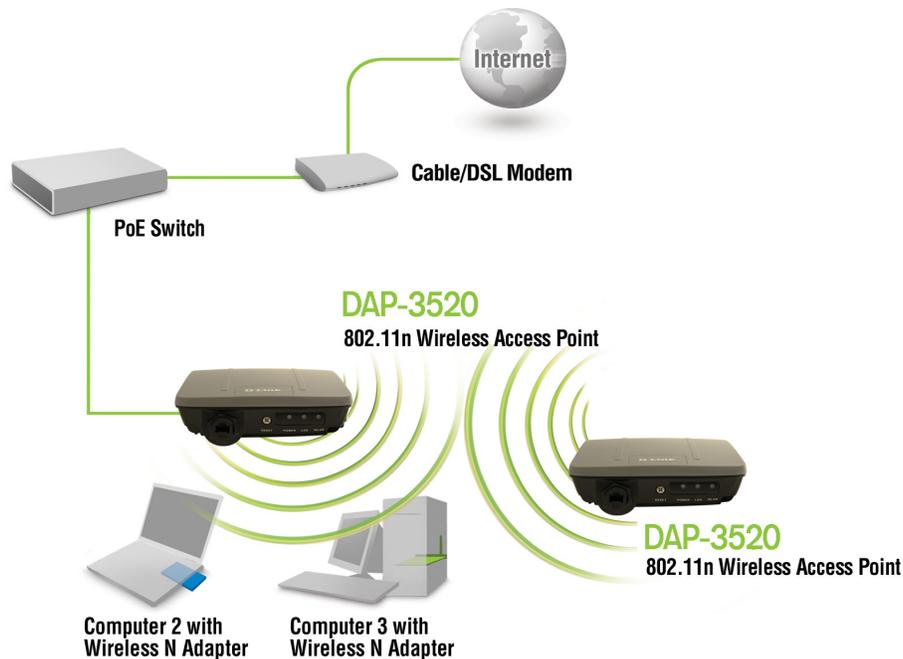
The D-Link DAP-3520 lets you access your network, using a wireless connection, from virtually anywhere within its operating range. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1** Keep the number of walls and ceilings between the DAP-3520 and other network devices to a minimum - each wall or ceiling can reduce your DAP-3520's range by 3-90 feet (1-30 meters). Position your devices so that the number of walls or ceilings is minimized.
- 2** Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle, the wall appears to be over 42 feet (14 meters) thick! Position your devices so that the signal will travel straight through a wall or ceiling - instead of at an angle - for better reception.
- 3** Building materials can impede the wireless signal - a solid metal door or aluminum studs can have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways, and not through other materials.
- 4** Keep your product away - at least 3-6 feet or 1-2 meters - from electrical devices or appliances that generate RF noise.
- 5** If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even when the phone is not in use.

Five Operational Modes

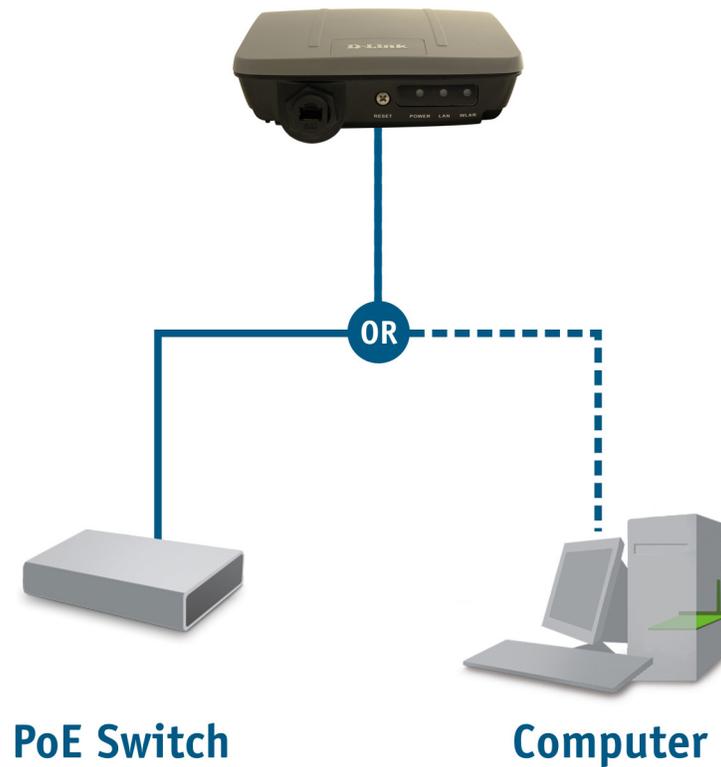
Operation Mode (Only supports 1 mode at a time)	Function
Access Point (AP)	Create a wireless LAN
WDS with AP	Wirelessly connect multiple networks while still functioning as a wireless AP
WDS	Wirelessly connect multiple networks
Wireless Client	AP acts as a wireless network adapter for your Ethernet-enabled device
WISP Client Router	Transforms your wireless AP into a WISP Client router

Getting Started



- 1 You will need broadband Internet access.
- 2 Consult with your cable or DSL provider for proper installation of the modem.
- 3 Connect the cable or DSL modem to a router. See the printed Install Guide included with your router.
- 4 See the printed Install Guide included with the DAP-3520.
- 5 If you are connecting a desktop computer to your network, install a wireless PCI adapter into an available PCI slot on your desktop computer.
- 6 Install the drivers for your wireless CardBus adapter into a laptop computer.

Connecting PoE (Power over Ethernet)



Connect one end of an Ethernet cable (included with your package) to the LAN port on the DAP-3520 and the other end of the Ethernet cable to either your computer or to your PoE switch. The AP can be powered on by a PoE switch or by the power adapter shipped with the AP.

Reading the LEDs



LED	Color	Status	Description
Power	Green	Solid Green	The device is ready.
		Light Off	The device is powering off.
	Red	Blinking Red	The device is booting up.
LAN	Green	Solid Green	The link is up.
		Blinking Green	Data is being transmitted.
		Light Off	The link is down.
WLAN	Green	Solid Green	Wireless is ready.
		Blinking Green	Data is being transmitted.
		Light Off	Wireless is off.

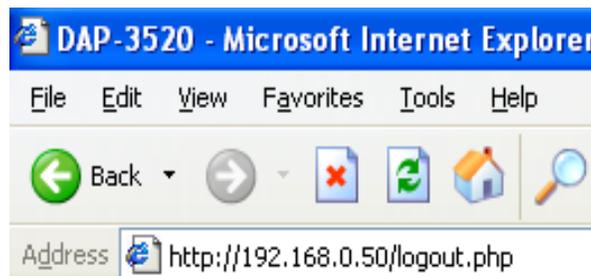
Using the Configuration Menu

To configure the DAP-3520, use a computer that is connected to the DAP-3520 with an Ethernet cable (see the *Network Layout diagram*).

First, disable the **Access the Internet using a proxy server** function. To disable this function, go to **Control Panel > Internet Options > Connections > LAN Settings** and uncheck the enable box.

Start your web browser program (Internet Explorer, Mozilla Firefox).

Type the IP address and http port of the DAP-3520 in the address field (**http://192.168.0.50**) and press **Enter**. Make sure that the IP addresses of the DAP-3520 and your computer are in the same subnet.



After the connection is established, you will see the user identification window as shown.

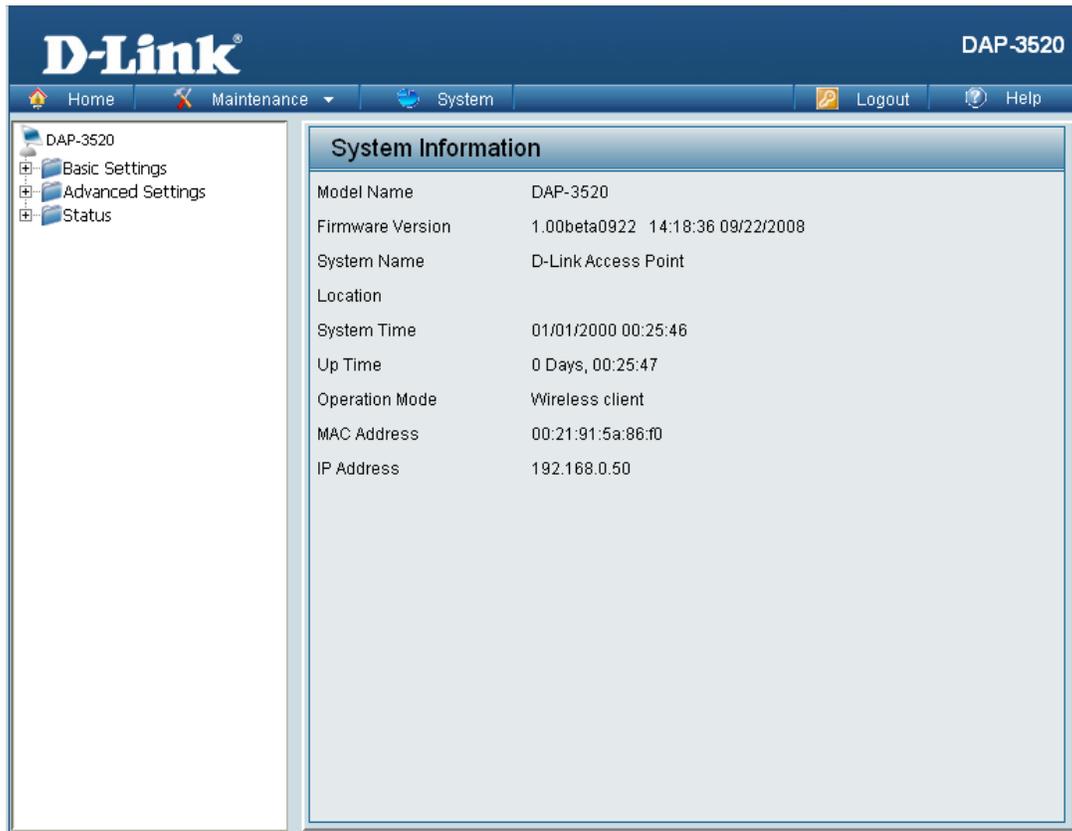
Note: If you have changed the default IP address assigned to the DAP-3520, make sure to enter the correct IP address.

- Type **“admin”** in the **User Name** field.
- Leave the **Password** field blank.
- Click the **Login** button.

A screenshot of the D-Link DAP-3520 login page. The page has a dark blue header with the "D-Link" logo on the left and "DAP-3520" on the right. Below the header is a light blue box containing a "LOGIN" section. The text "Login to the Access Point:" is followed by two input fields: "User Name" with "admin" entered, and "Password" which is empty. A "Login" button is positioned to the right of the password field.

Note: If you have changed the password, make sure to enter the correct password.

After successfully logging into the DAP-3520 the following screen will appear:



When making changes on most of the configuration screens in this section, use the **Apply** button at the bottom of each screen to save your configuration changes.



Click the **Apply** button to configure changes.

Home > Basic Settings > Wireless > Access Point mode

The screenshot shows the D-Link configuration interface for the DAP-3520. The top navigation bar includes Home, Maintenance, System, Logout, and Help. The left sidebar shows a tree view with Basic Settings (Wireless, LAN, Internet Connection), Advanced Settings, and Status. The main content area is titled 'Wireless Settings' and contains the following fields:

- Wireless Band: 2.4GHz
- Mode: Access Point
- Network Name (SSID): 3520
- SSID Visibility: Enable
- Auto Channel Selection: Disable
- Channel: 3
- Channel Width: Auto 20/40 MHz
- Authentication: Open System

The 'Key Settings' section includes:

- 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]

An 'Apply' button is located at the bottom right of the configuration area.

Wireless Band: Select either **2.4 GHz** or **5 GHz** from the pull-down menu.

Mode: Select **Access Point** from the pull-down menu. The other four choices are **WDS with AP**, **WDS**, **Wireless Client**, and **WISP Client Router**.

Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network. The SSID can be up to 32 characters and is case-sensitive.

SSID Visibility: **Enable** or **Disable** SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.

Auto Channel Selection: Enabling this feature automatically selects the channel that provides the best wireless performance. **Enable** is set by default. The channel selection process only occurs when the AP is booting up.

- Channel:** All devices on the network must share the same channel. To change the channel, first toggle the Auto Channel Selection setting to **Disable**, and then use the pull-down menu to make the desired selection. (Note: The wireless adapters will automatically scan and match the wireless settings.)
- Channel Width:** Allows you to select the channel width you would like to operate in. Select **20 MHz** if you are not using any 802.11n wireless clients. **Auto 20/40 MHz** allows you to both 802.11n and non-802.11n wireless devices on your network.
- Authentication:** Use the pull-down menu to choose **Open System**, **Shared Key**, **WPA-Personal**, or **WPA-Enterprise**.
Select **Open System** to communicate the key across the network.
Select **Shared Key** to limit communication to only those devices that share the same WEP settings. If multi-SSID is enabled, this option is not available.
Select **WPA-Personal** to secure your network using a password and dynamic key changes. No RADIUS server is required.
Select **WPA-Enterprise** to secure your network with the inclusion of a RADIUS server.

Home > Basic Settings > Wireless > WDS with AP mode



In WDS with AP mode, the DAP-3520 wirelessly connects multiple networks while still functioning as a wireless AP.

Wireless Band: Select either **2.4 GHz** or **5 GHz** from the pull-down menu.

Mode: **WDS with AP** mode is selected from the pull-down menu.

Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

SSID Visibility: **Enable** or **Disable** SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.

Auto Channel Selection:	Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in WDS with AP mode. The channel selection process only occurs when the AP is booting up.
Channel:	All devices on the network must share the same channel. To change the channel, use the pull-down menu to make the desired selection. (Note: The wireless adapters will automatically scan and match the wireless settings.)
Channel Width:	Allows you to select the channel width you would like to operate in. Select 20 MHz if you are not using any 802.11n wireless clients. Auto 20/40 MHz allows you to both 802.11n and non-802.11n wireless devices on your network.
Remote AP MAC Address:	Enter the MAC addresses of the APs on your network that will serve as bridges to wirelessly connect multiple networks.
Site Survey:	Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with. .
Authentication:	<p>Use the pull-down menu to choose Open System, Shared Key, or WPA-Personal.</p> <p>Select Open System to communicate the key across the network.</p> <p>Select Shared Key to limit communication to only those devices that share the same WEP settings. If multi-SSID is enabled, this option is not available.</p> <p>Select WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is required.</p>

Home > Basic Settings > Wireless > WDS mode

The screenshot shows the D-Link configuration web interface for the DAP-3520. The main navigation menu includes Home, Maintenance, System, Logout, and Help. The left sidebar shows a tree view with Basic Settings (Wireless, LAN, Internet Connection), Advanced Settings, and Status. The main content area is titled 'Wireless Settings' and contains the following fields:

- Wireless Band: 2.4GHz
- Mode: WDS
- Network Name (SSID): 3520
- SSID Visibility: Enable
- Auto Channel Selection: Disable
- Channel: 11
- Channel Width: Auto 20/40 MHz

Below these are sections for WDS, Site Survey, Authentication, and Key Settings:

- WDS:** Remote AP MAC Address fields (1-8). Field 1 contains 00:21:91:5a:86:ef.
- Site Survey:** A table with columns CH, Signal, BSSID, Security, and SSID. A Scan button is present.
- Authentication:** Open System
- Key Settings:** Encryption (Disable selected), Key Type (HEX), Key Size (64 Bits), Key Index (1), Network Key, and Confirm Key.

An Apply button is located at the bottom right of the configuration area.

In WDS mode, the DAP-3520 wirelessly connects multiple networks, without functioning as a wireless AP.

- Wireless Band:** Select either **2.4 GHz** or **5 GHz** from the pull-down menu.
- Mode:** **WDS** is selected from the pull-down menu.
- Network Name (SSID):** Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.
- SSID Visibility:** **Enable** or **Disable** SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.

Auto Channel Selection:	Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in WDS mode.
Channel:	All devices on the network must share the same channel. To change the channel, use the pull-down menu to make the desired selection.
Channel Width:	Use the pull-down menu to choose 20 MHz or Auto 20/40 MHz .
Remote AP MAC Address:	Enter the MAC addresses of the APs on your network that will serve as bridges to wirelessly connect multiple networks.
Site Survey:	Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.
Authentication:	<p>Use the pull-down menu to choose Open System, Shared Key, or WPA-Personal.</p> <p>Select Open System to communicate the key across the network.</p> <p>Select Shared Key to limit communication to only those devices that share the same WEP settings.</p> <p>Select WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is required.</p>

Home > Basic Settings > Wireless > Wireless Client mode

The screenshot shows the D-Link configuration web interface for the DAP-3520. The main navigation bar includes Home, Maintenance, System, Logout, and Help. The left sidebar shows a tree view with Basic Settings (Wireless, LAN, Internet Connection), Advanced Settings, and Status. The main content area is titled 'Wireless Settings' and contains the following fields:

- Wireless Band: 2.4GHz
- Mode: Wireless Client
- Network Name (SSID): 3520
- SSID Visibility: Enable
- Auto Channel Selection: Disable
- Channel: 11
- Channel Width: Auto 20/40 MHz

Below these fields is a 'Site Survey' section with a 'Scan' button and a table with columns: CH, Signal, BSSID, Security, and SSID. The table is currently empty. Below the table is an 'Authentication' section with a dropdown set to 'Open System'. Underneath is a 'Key Settings' section with radio buttons for 'Disable' (selected) and 'Enable'. Other fields include Key Type (HEX), Key Size (64 Bits), Key Index (1), Network Key, and Confirm Key. An 'Apply' button is at the bottom right.

Wireless Band: Select either **2.4 GHz** or **5 GHz** from the pull-down menu.

Mode: **Wireless Client** is selected from the pull-down menu.

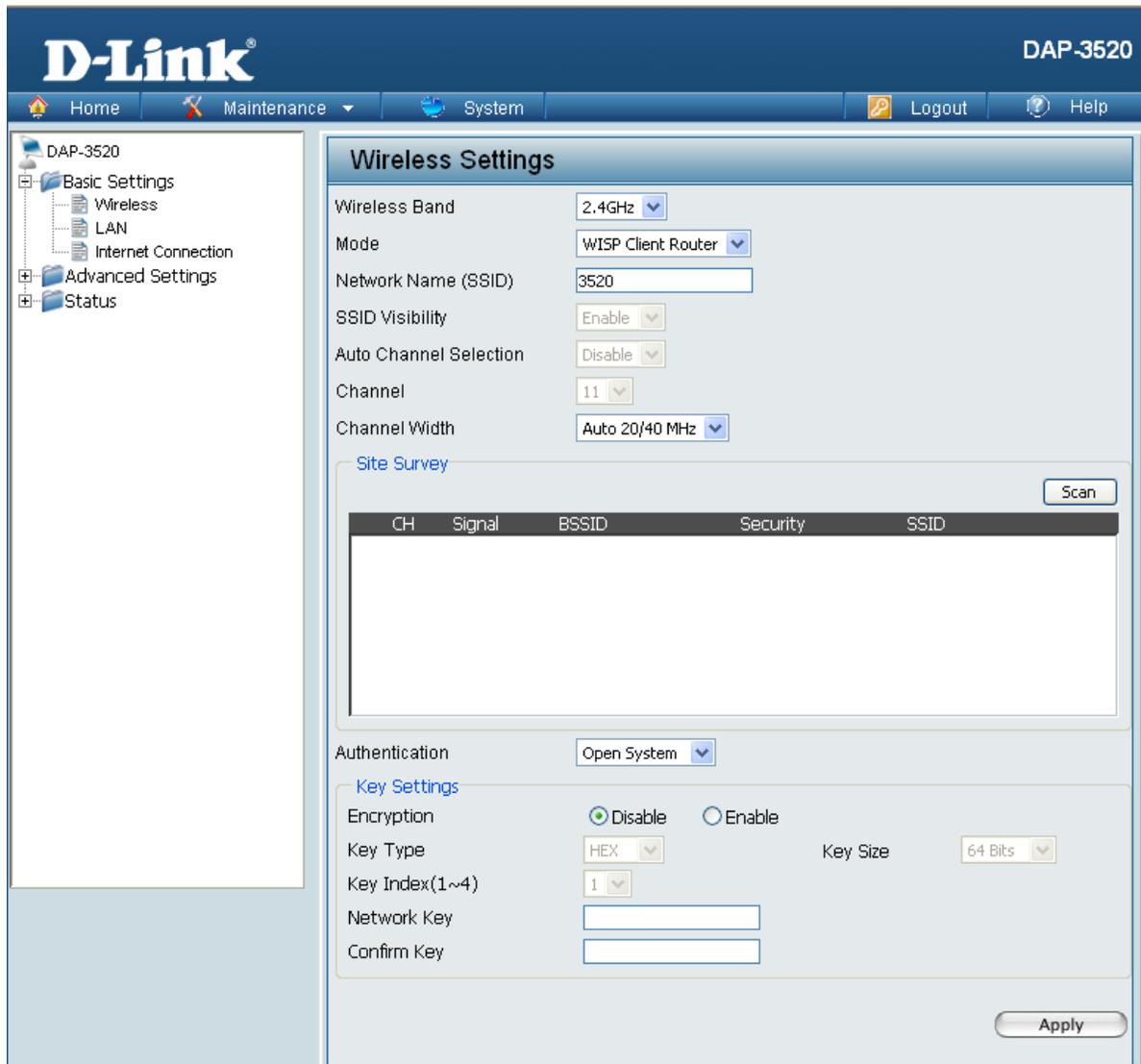
Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network.

SSID Visibility: This option is unavailable in wireless client mode.

Auto Channel Selection: Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in Wireless Client mode.

Channel:	The channel used will be displayed, and follow the root AP.
Channel Width:	Use the pull-down menu to choose 20 MHz or Auto 20/40 MHz .
Site Survey:	Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.
Authentication:	Use the pull-down menu to choose Open System or WPA-Personal . Select Open System to communicate the key across the network. Select WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is required.

Home > Basic Settings > Wireless > WISP Client Router mode



Wireless Band: Select either **2.4 GHz** or **5 GHz** from the pull-down menu.

Mode: **WISP Client Router** is selected from the pull-down menu.

Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network.

SSID Visibility: This option is unavailable in wireless client mode.

Auto Channel Selection: Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in Wireless Client mode.

Channel:	The channel used will be displayed, and follow the root AP.
Channel Width:	Use the pull-down menu to choose 20 MHz or Auto 20/40 MHz .
Site Survey:	Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.
Authentication:	Use the pull-down menu to choose Open System or WPA-Personal . Select Open System to communicate the key across the network. Select WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is required.

Home > Basic Settings > Wireless > Open System or Shared Key authentication

D-Link DAP-3520

Home Maintenance System Logout Help

DAP-3520

- Basic Settings
 - Wireless
 - LAN
- Internet Connection
- Advanced Settings
- Status

Wireless Settings

Wireless Band: 2.4GHz

Mode: Access Point

Network Name (SSID): 3520

SSID Visibility: Enable

Auto Channel Selection: Disable

Channel: 11

Channel Width: Auto 20/40 MHz

Authentication: Open System

Key Settings

Encryption: Disable Enable

Key Type: HEX Key Size: 64 Bits

Key Index(1~4): 1

Network Key:

Confirm Key:

Apply

Encryption: Use the radio button to disable or enable encryption.

Key Type*: Select **HEX** or **ASCII**.

Key Size: Select **64 Bits** or **128 Bits**.

Key Index (1~4): Select the 1st through the 4th key to be the active key.

Key: Input up to four keys for encryption. You will select one of these keys in the Key Index pull-down menu.

Network Key: Enter a network key, otherwise known as a password.

Confirm Key: Retype the network key.

***Hexadecimal (HEX) digits consist of the numbers 0-9 and the letters A-F.*

**ASCII (American Standard Code for Information Interchange) is a code that represents English letters using numbers ranging from 0-127.*

Home > Basic Settings > Wireless > WPA-Personal authentication

The screenshot shows the D-Link configuration web interface for the DAP-3520. The top navigation bar includes 'Home', 'Maintenance', 'System', 'Logout', and 'Help'. A left sidebar shows a tree view with 'Basic Settings' expanded to 'Wireless'. The main content area is titled 'Wireless Settings' and contains the following configuration options:

- Wireless Band: 2.4GHz
- Mode: Access Point
- Network Name (SSID): 3520
- SSID Visibility: Enable
- Auto Channel Selection: Disable
- Channel: 7
- Channel Width: Auto 20/40 MHz
- Authentication: WPA-Personal
- PassPhrase Settings:**
 - WPA Mode: AUTO (WPA or WPA2)
 - Cipher Type: Auto
 - Group Key Update Interval: 1800 (Seconds)
 - PassPhrase: [Redacted]
 - Confirm PassPhrase: [Redacted]

An 'Apply' button is located at the bottom right of the configuration area.

WPA Mode: When **WPA-Personal** is selected for Authentication type, you must also select a WPA mode from the pull-down menu: **AUTO (WPA or WPA2)**, **WPA2 Only**, or **WPA Only**. WPA and WPA2 use different algorithms. **AUTO (WPA or WPA2)** allows you to use both WPA and WPA2.

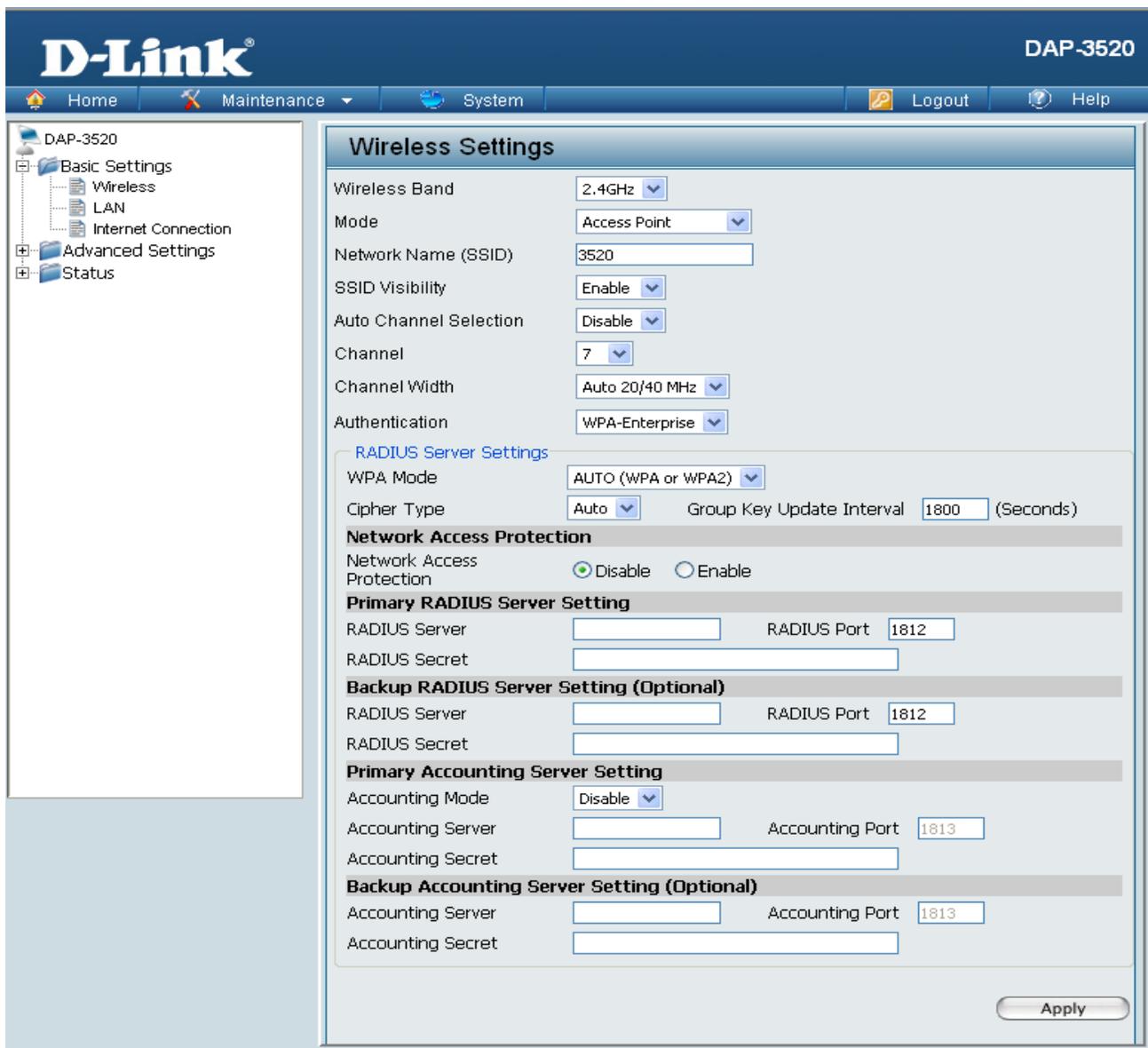
Cipher Type: When you select **WPA-Personal**, you must also select **AUTO**, **AES**, or **TKIP** from the pull down menu.

Group Key Update Interval: Select the interval during which the group key will be valid. The default value of **1800** is recommended.

PassPhrase: When you select **WPA-Personal**, please enter a PassPhrase in the corresponding field.

Confirm PassPhrase: Retype the PassPhrase in the corresponding field.

Home > Basic Settings > Wireless > WPA-Enterprise authentication



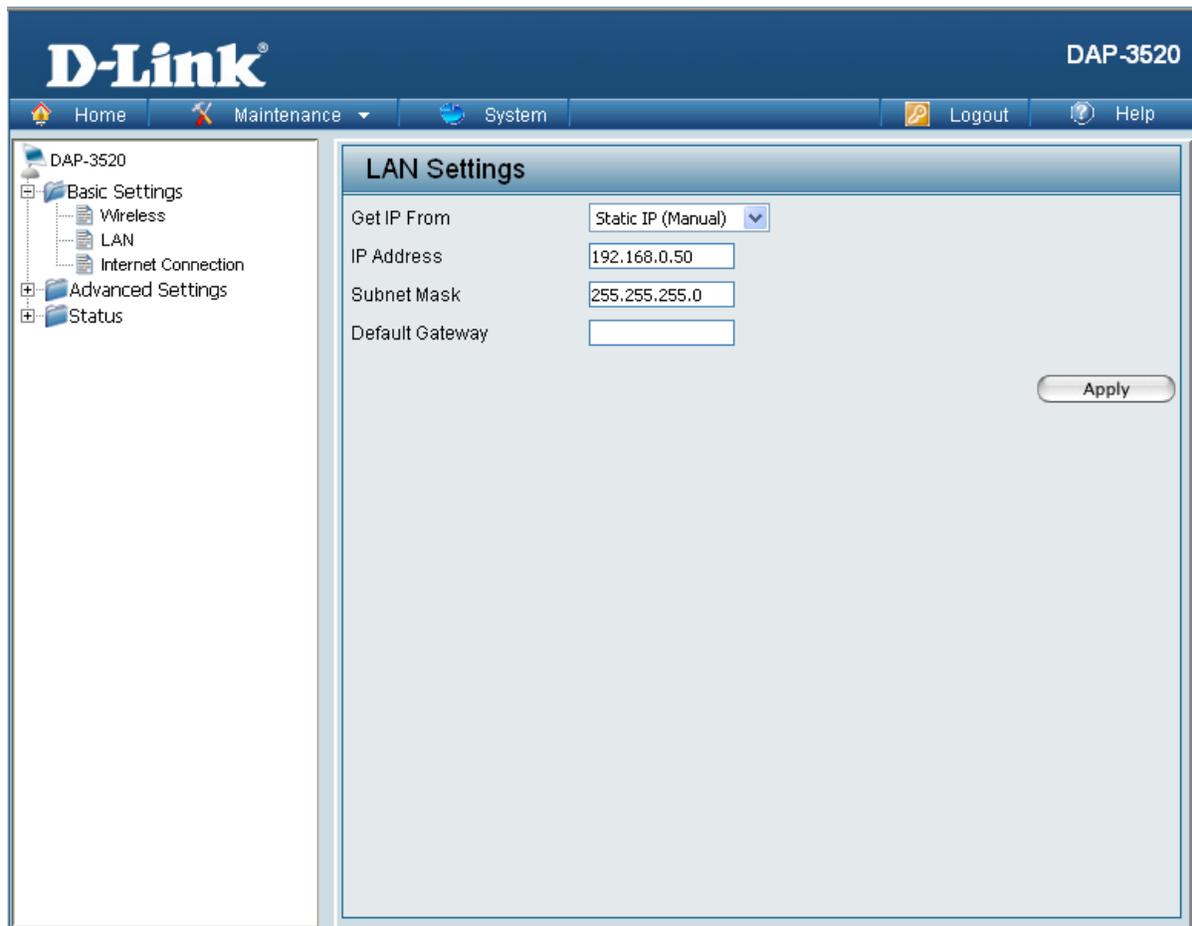
WPA Mode: When **WPA-Enterprise** is selected, you must also select a WPA mode from the pull-down menu: **AUTO (WPA or WPA2)**, **WPA2 Only**, or **WPA Only**. WPA and WPA2 use different algorithms. **AUTO (WPA or WPA2)** allows you to use both WPA and WPA2.

Cipher Type: When WPA-Enterprise is selected, you must also select a cipher type from the pull-down menu: **Auto**, **AES**, or **TKIP**.

Group Key Update Interval: Select the interval during which the group key will be valid. **1800** is the recommended value as a lower interval may reduce data transfer rates.

Network Access Protection:	Enable or disable Microsoft Network Access Protection.
RADIUS Server:	Enter the IP address of the primary RADIUS server. You must also configure RADIUS port and RADIUS secret. In addition to a primary RADIUS server, the AP allows you to set up an optional backup RADIUS server.
RADIUS Port:	Enter the RADIUS port.
RADIUS Secret:	Enter the RADIUS secret.
Accounting Mode:	Use the drop-down menu to Enable the accounting mode feature.
Accounting Server:	Enter the IP address of the primary accounting server. You must also configure the accounting port and the accounting secret. In addition, to a primary accounting server, the AP allows you to setup an optional backup accounting server.
Accounting Port:	Enter the accounting port.
Accounting Secret:	Enter the accounting secret.

Home > Basic Settings > LAN



LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DAP-3520. These settings may be referred to as private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

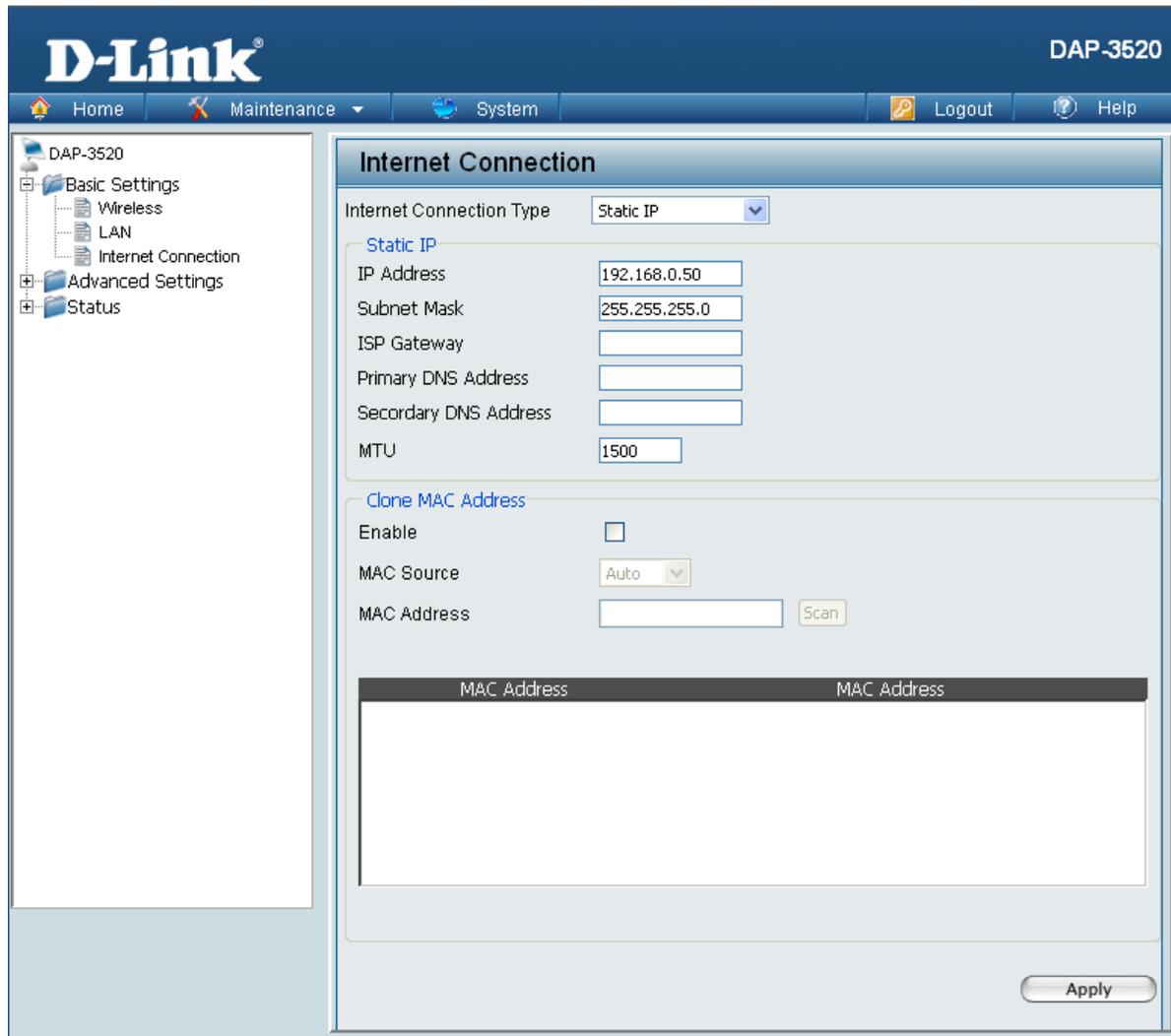
Get IP From: **Static IP (Manual)** is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-3520. When **Dynamic IP (DHCP)** is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.

IP Address: The default IP address is **192.168.0.50**. Assign a static IP address that is within the IP address range of your network.

Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.

Default Gateway: Enter the IP address of the gateway in your network. If there is a gateway in your network, please enter an IP address within the range of your network.

Home > Basic Settings > Internet Connection > Static IP

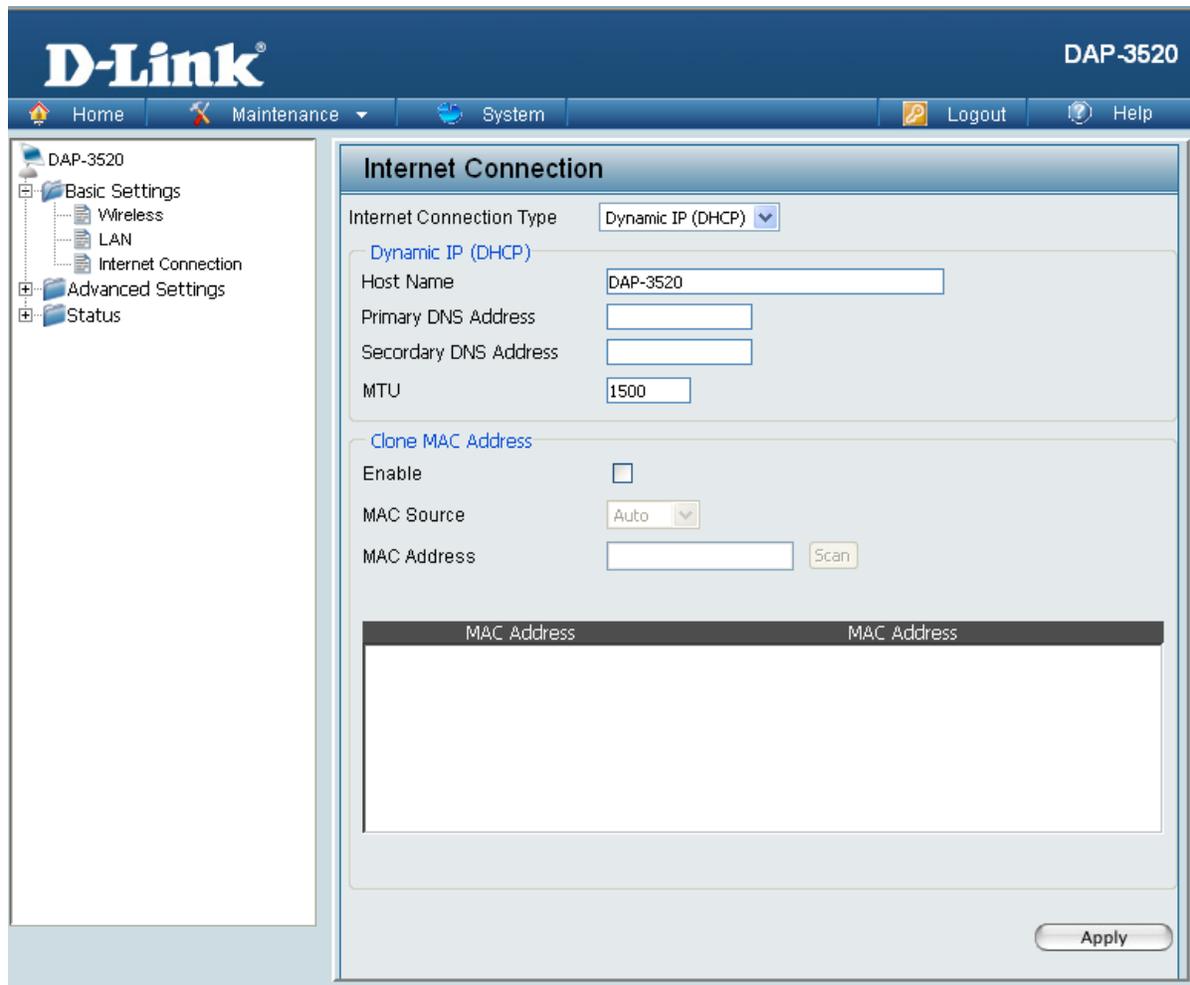


Select **Static IP** if all WAN IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The DAP-3520 will not accept the IP address if it is not in this format.

Internet Connection Type:	Use the drop-down menu to choose Static IP . The other three choices are Dynamic IP (DHCP) , PPPoE , and PPTP .
IP Address:	The default IP address is 192.168.0.50 . Assign a static IP address that is within the IP address range of your network.
Subnet Mask:	Enter the subnet mask. All devices in the network must share the same subnet mask.

ISP Gateway:	Enter the IP address of the gateway in your network. If there is a gateway in your network, please enter an IP address within the range of your network.
Primary DNS Address:	Enter the Primary DNS server IP address assigned by your ISP.
Secondary DNS Address:	Enter the Secondary DNS server IP address. This is optional.
MTU:	You may need to change the Maximum Transmission Unit for optimal performance with your specific ISP. The default MTU is 1500 .
Enable:	The default MAC address is set to the WAN's physical interface MAC address on the DAP-3520. You can tick this Clone MAC Address Enable check box to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the DAP-3520. It is not recommended that you change the default MAC address unless required by your ISP.
MAC Source:	Use the drop-down menu to select Auto or Manual .
MAC Address:	Manually enter an appropriate MAC address or click the Scan button to search for a specific MAC address.

Home > Basic Settings > Internet Connection > Dynamic IP (DHCP)



Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for Cable modem services.

Internet Connection Type:	Use the drop-down menu to choose Dynamic IP (DHCP) . The other three choices are Static IP , PPPoE , and PPTP .
Host Name:	The host name is optional but may be required by some ISPs. The default host name is the model name of the device and may be changed.
Primary DNS Address:	Enter the primary DNS (Domain Name Server) server IP address assigned by your ISP.
Secondary DNS Address:	Enter the secondary DNS (Domain Name Server) server IP address assigned by your ISP, if applicable.

MTU:	You may need to change the Maximum Transmission Unit for optimal performance with your specific ISP. The default MTU is 1500 .
Enable:	The default MAC address is set to the WAN's physical interface MAC address on the DAP-3520. You can tick this Clone MAC Address Enable check box to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the DAP-3520. It is not recommended that you change the default MAC address unless required by your ISP.
MAC Source:	Use the drop-down menu to select Auto or Manual .
MAC Address:	Manually enter an appropriate MAC address or click the Scan button to search for a specific MAC address.

Home > Basic Settings > Internet Connection > PPPoE

The screenshot shows the D-Link configuration web interface for the DAP-3520 device. The main navigation bar includes Home, Maintenance, System, Logout, and Help. A left sidebar shows a tree view with categories: Basic Settings (Wireless, LAN, Internet Connection), Advanced Settings, and Status. The main content area is titled "Internet Connection" and contains the following settings:

- Internet Connection Type:** PPPoE (selected in a dropdown menu)
- PPPoE Section:**
 - PPPoE Mode:** Dynamic PPPoE (selected in a dropdown menu)
 - User Name:** [Text input field]
 - Password:** [Text input field]
 - Retype Password:** [Text input field]
 - Service Name:** [Text input field]
 - IP Address:** [Text input field]
 - Get DNS from:** Enter DNS Manually (selected in a dropdown menu)
 - Primary DNS Address:** [Text input field]
 - Secondary DNS Address:** [Text input field]
 - Connect Mode Select:** Always On, Manual, Connect On Demand
 - MTU:** 1492 (text input field)
- Clone MAC Address Section:**
 - Enable:**
 - MAC Source:** Auto (selected in a dropdown menu)
 - MAC Address:** [Text input field] with a "Scan" button next to it.

At the bottom right of the configuration area is an "Apply" button.

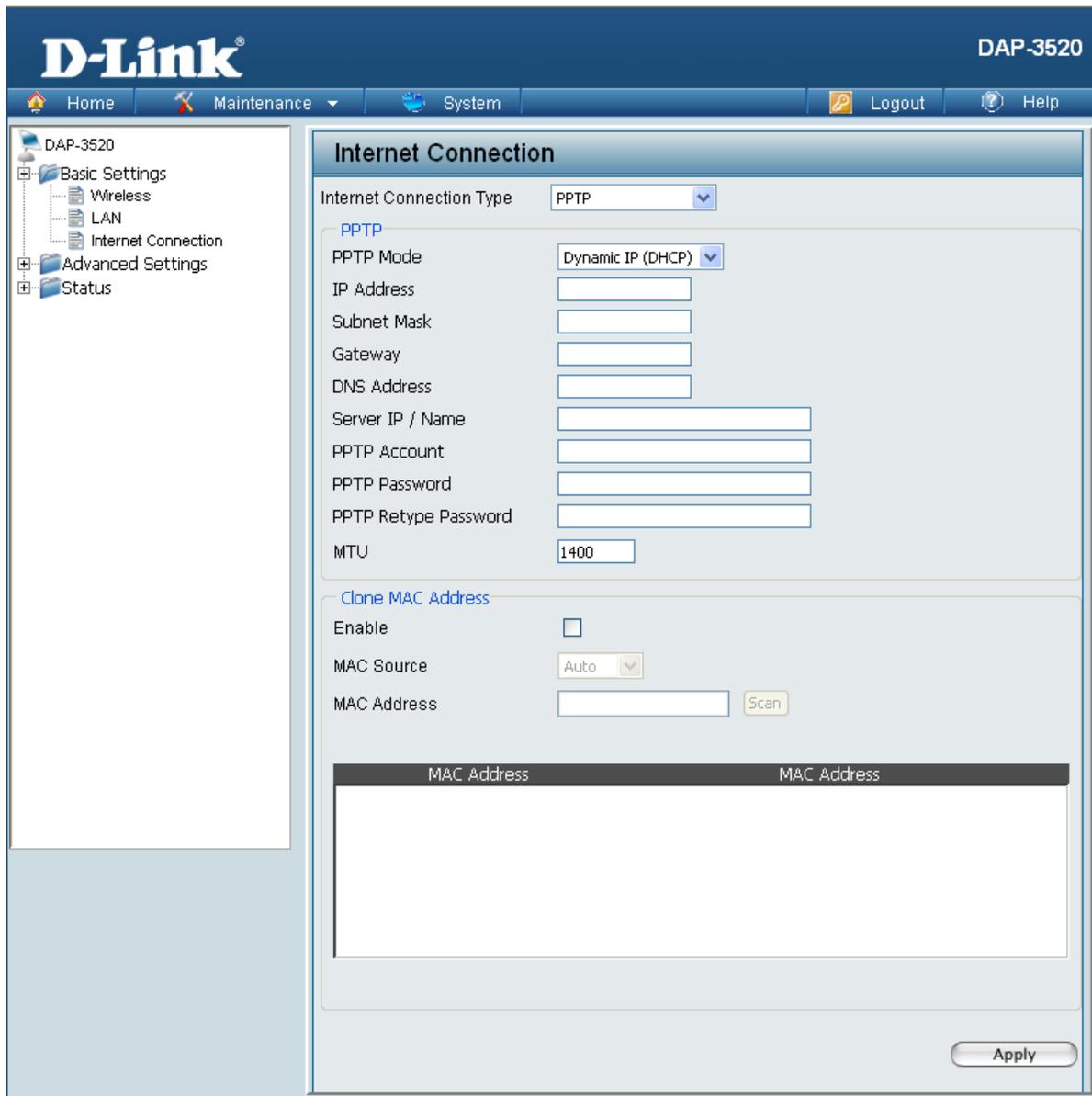
Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

Internet Connection Type: Use the drop-down menu to choose **PPPoE**. The other three choices are **Static IP**, **Dynamic IP (DHCP)**, and **PPTP**.

PPPoE Mode: Select **Dynamic PPPoE** (most common) or **Static PPPoE**. Use **Static PPPoE** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.

User Name:	Enter your PPPoE user name.
Password:	Enter your PPPoE password.
Retype Password:	Retype your PPPoE password.
Service Name:	Enter the ISP Service Name (optional).
IP Address:	Enter the IP address (Static PPPoE only).
Get DNS from:	Toggle between Receive DNS from ISP and Enter DNS Manually depending on how you will obtain your Domain Name Server information.
Primary DNS Address:	Enter the primary DNS (Domain Name Server) server IP address assigned by your ISP.
Secondary DNS Address:	Enter the secondary DNS (Domain Name Server) server IP address assigned by your ISP, if applicable.
Connect Mode Select:	Select either Always On, Manual, or Connect On Demand.
MTU:	You may need to change the Maximum Transmission Unit for optimal performance with your specific ISP. The default MTU is 1492 .
Enable:	The default MAC address is set to the WAN's physical interface MAC address on the DAP-3520. You can tick this Clone MAC Address Enable check box to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the DAP-3520. It is not recommended that you change the default MAC address unless required by your ISP.
MAC Source:	Use the drop-down menu to select Auto or Manual .
MAC Address:	Manually enter an appropriate MAC address or click the Scan button to search for a specific MAC address

Home > Basic Settings > Internet Connection > PPTP



Choose PPTP (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

- Internet Connection Type:** Use the drop-down menu to choose **PPTP**. The other three choices are **Static IP**, **Dynamic IP (DHCP)**, and **PPPoE**.
- PPTP Mode:** Select **Dynamic IP (DHCP)** (most common) or **Static IP**. Use **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.

IP Address:	Enter the IP address (Static IP only).
Subnet Mask:	Enter the subnet mask (Static IP only).
Gateway:	Enter the gateway IP address provided by your ISP.
DNS Address:	The DNS server information will be supplied by your ISP (Internet Service Provider).
Server IP/Name:	Enter the server IP provided by your ISP (optional).
PPTP Account:	Enter your PPTP account name.
PPTP Password:	Enter your PPTP password.
PPTP Retype Password:	Retype your PPTP password.
MTU:	You may need to change the Maximum Transmission Unit for optimal performance with your specific ISP. The default MTU is 1400 .
Enable:	The default MAC address is set to the WAN's physical interface MAC address on the DAP-3520. You can tick this Clone MAC Address Enable check box to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the DAP-3520. It is not recommended that you change the default MAC address unless required by your ISP.
MAC Source:	Use the drop-down menu to select Auto or Manual .
MAC Address:	Manually enter an appropriate MAC address or click the Scan button to search for a specific MAC address.

Home > Advanced Settings > Performance

The screenshot shows the D-Link DAP-3520 configuration interface. The top navigation bar includes Home, Maintenance, System, Logout, and Help. The left sidebar shows a tree view with categories like Basic Settings, Advanced Settings (Performance, Multi-SSID, VLAN, Intrusion, Schedule, QoS), DHCP Server, Filters, Router Settings, and Status. The main content area is titled 'Performance Settings' and contains the following configuration options:

- Wireless: On (dropdown)
- Wireless Mode: Mixed 802.11n, 802.11g and 802.11b (dropdown)
- Data Rate: Best (Up to 300) (dropdown) (Mbps)
- Beacon Interval (25-500): [] (text input)
- DTIM Interval (1-15): [] (text input)
- Transmit Power: 100% (dropdown)
- WMM (Wi-Fi Multimedia): Enable (dropdown)
- Ack Time Out (2.4GHz, 64~200): 150 (text input) (μs)
- Short GI: Enable (dropdown)
- IGMP Snooping: Disable (dropdown)
- Link Integrity: Disable (dropdown)
- Connection Limit: Disable (dropdown)
- User Limit (0 - 64): 20 (text input)
- Network Utilization: [] (dropdown)

An 'Apply' button is located at the bottom right of the configuration area.

Wireless: Use the pull-down menu to turn the wireless function **On** or **Off**.

Wireless Mode: The different combination of clients that can be supported include **Mixed 802.11n, 802.11g and 802.11b**, **Mixed 802.11g and 802.11b** and **802.11n Only** in the 2.4 GHz band and **Mixed 802.11n, 802.11a, 802.11a only**, and **802.11n Only** in the 5 GHz band. Please note that when backwards compatibility is enabled for legacy (802.11a/g/b) clients, degradation of 802.11n (draft) wireless performance is expected.

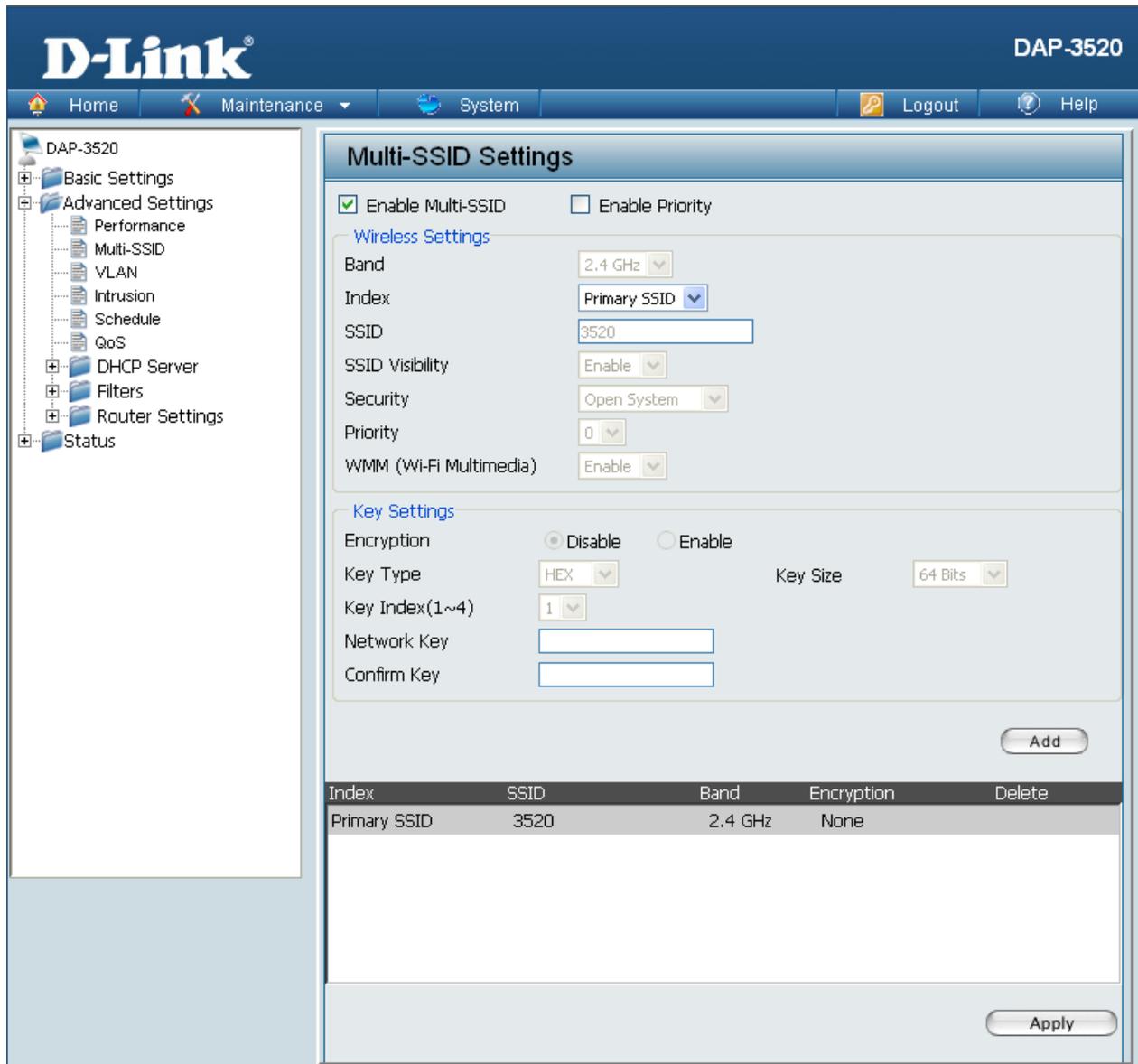
Data Rate*: Indicate the base transfer rate of wireless adapters on the wireless LAN. The AP will adjust the base transfer rate depending on the base rate of the connected device. If there are obstacles or interference, the AP will step down the rate. This option is enabled in **Mixed 802.11g and 802.11b** mode (for 2.4 GHz) and **802.11a only** mode (for 5 GHz). The choices available are **Best (Up to 54)**, **54**, **48**, **36**, **24**, **18**, **12**, **9**, **6** for 5 GHz and **Best (Up to 54)**, **54**, **48**, **36**, **24**, **18**, **12**, **9**, **6**, **11**, **5.5**, **2** or **1** for 2.4 GHz.

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughput rate.

Beacon Interval (25-500):	Beacons are packets sent by an access point to synchronize a wireless network. Specify a value in milliseconds. The default (100) is recommended. Setting a higher beacon interval can help to save the power of wireless clients, while setting a lower one can help a wireless client connect to an access point faster.
DTIM Interval (1-15):	Select a Delivery Traffic Indication Message setting between 1 and 15 . 1 is the default setting. DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.
Transmit Power:	This setting determines the power level of the wireless transmission. Transmitting power can be adjusted to eliminate overlapping of wireless area coverage between two access points where interference is a major concern. For example, if wireless coverage is intended for half of the area, then select 50% as the option. Use the pull-down menu to select 100% , 50% , 25% , or 12.5% .
WMM (Wi-Fi Multimedia):	WMM stands for Wi-Fi Multimedia. Enabling this feature will improve the user experience for audio and video applications over a Wi-Fi network.
Ack Time Out (2.4 GHZ, 48~200) or Ack Time Out (5 GHZ, 25~200):	To effectively optimize throughput over long distance links enter a value for Acknowledgement Time Out between 25 and 200 microseconds for 5 GHz or from 48 to 200 microseconds in the 2.4 GHz in the field provided.
Short GI:	Select Enable or Disable . Enabling a short guard interval can increase throughput. However, be aware that it can also increase the error rate in some installations due to increased sensitivity to radio-frequency installations.
IGMP Snooping:	Select Enable or Disable . Internet Group Management Protocol allows the AP to recognize IGMP queries and reports sent between routers and an IGMP host (wireless STA). When IGMP snooping is enabled, the AP will forward multicast packets to an IGMP host based on IGMP messages passing through the AP.
Link Integrity:	Select Enable or Disable . If the Ethernet connection between the LAN and the AP is disconnected, enabling this feature will cause the wireless segment associated with the AP to be disassociated from the AP.

-
- Connection Limit:** Select **Enable** or **Disable**. This is an option for load balancing. This determines whether to limit the number of users accessing this device. The exact number is entered in the User Limit field below. This feature allows the user to share the wireless network traffic and the client using multiple APs. If this function is enabled, when the number of users exceeds this value, the DAP-3520 will not allow clients to associate with the AP.
- User Limit (0 - 64):** Set the maximum amount of users that are allowed access (**0-64** users). To use this feature, the Connection Limit above must be enabled. For most users, a limit of **10** is recommended. The default setting is **20**.
- Network Utilization:** Select a utilization percentage between **180, 60, 40, 20, or 0**. When this network utilization threshold is reached, the device will pause one minute to allow for network congestion to dissipate.

Home > Advanced Settings > Multi-SSID



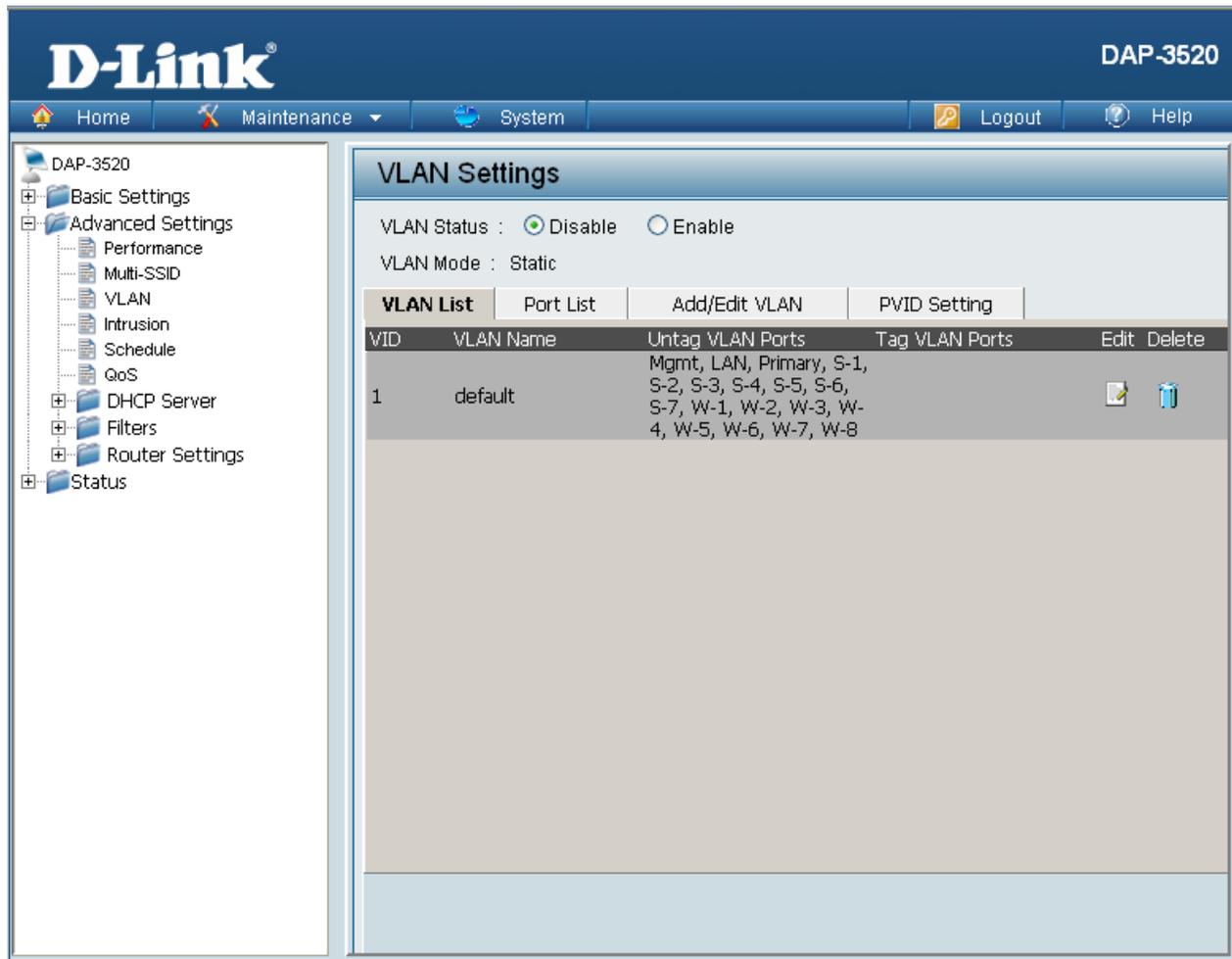
The device supports up to eight multiple Service Set Identifiers. You can set the Primary SSID in the **Basic > Wireless** section. The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

- Enable Multi-SSID:** Check to enable support for multiple SSIDs.
- Band:** This read-only value is the current band setting.
- Index:** You can select up to seven multi-SSIDs. With the Primary SSID, you have a total of eight multi-SSIDs.

SSID:	Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is dlink . The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.
SSID Visibility:	Enable or Disable SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.
Security:	The Multi-SSID security can be Open System , WPA-Personal , or WPA-Enterprise . For a detailed description of the Open System parameters please go to page 26. For a detailed description of the WPA-Personal parameters please go to page 27. For a detailed description of the WPA-Enterprise parameters please go to pages 28-29.
Priority:	Select the desired priority from the drop-down menu.
WMM (Wi-Fi Multimedia):	Select Enable or Disable .
Encryption:	When you select Open System , toggle between Enable and Disable . If Enable is selected, the Key Type, Key Size, Key Index (1~4), Network Key, and Confirm Keys must also be configured.
Key Type:	Select HEX or ASCII .
Key Size:	Select 64 Bits or 128 Bits .
Key Index (1~4):	Select from the 1st to the 4th key to be set as the active key.
Network Key:	Enter a network key, otherwise known as a password.
Confirm Key:	Retype the network key.
WPA Mode:	When you select either WPA-Personal or WPA-Enterprise , you must also choose a WPA mode from the pull-down menu: AUTO (WPA or WPA2) , WPA2 Only , or WPA Only . WPA and WPA2 use different algorithms. AUTO (WPA or WPA2) allows you to use both WPA and WPA2. In addition, you must configure Cipher Type, and Group Key Update Interval.
Cipher Type:	Select Auto , AES , or TKIP from the pull-down menu.
Group Key Update Interval:	Select the interval during which the group key will be valid. The default value of 1800 seconds is recommended.
PassPhrase:	When you select WPA-Personal , please enter a PassPhrase in the corresponding field.

Confirm PassPhrase:	When you select WPA-Personal , please re-enter the PassPhrase entered in the previous item in the corresponding field.
RADIUS Server:	When you select WPA-Enterprise , enter the IP address of the primary RADIUS server. You must also configure RADIUS port and RADIUS secret. In addition to a primary RADIUS server, the AP allows you to set up an optional backup RADIUS server.
RADIUS Port:	Enter the RADIUS port.
RADIUS Secret:	Enter the RADIUS secret.
Accounting Mode:	Use the drop-down menu to Enable the accounting mode feature.
Accounting Server:	When you select WPA-Enterprise , enter the IP address of the primary accounting server. You must also configure the accounting port and the accounting secret. In addition, to a primary accounting server, the AP allows you to setup an optional backup accounting server.
Accounting Port:	Enter the accounting port.
Accounting Secret:	Enter the accounting secret.

Home > Advanced Settings > VLAN > VLAN List



The DAP-3520 supports VLANs. VLANs can be created with a Name and VID. Mgmt (TCP stack), LAN, Primary/Multiple SSID, and WDS connection can be assigned to VLANs as they are physical ports. Any packet which enters the DAP-3520 without a VLAN tag will have a VLAN tag inserted with a PVID.

The VLAN List tab displays the current VLANs.

VLAN Status: Use the radio button to toggle to Enable. Next, go to the **Add/Edit VLAN** tab to add or modify an item on the **VLAN List** tab.

Home > Advanced Settings > VLAN > Port List

D-Link DAP-3520

Home Maintenance System Logout Help

VLAN Settings

VLAN Status : Disable Enable

VLAN Mode : Static

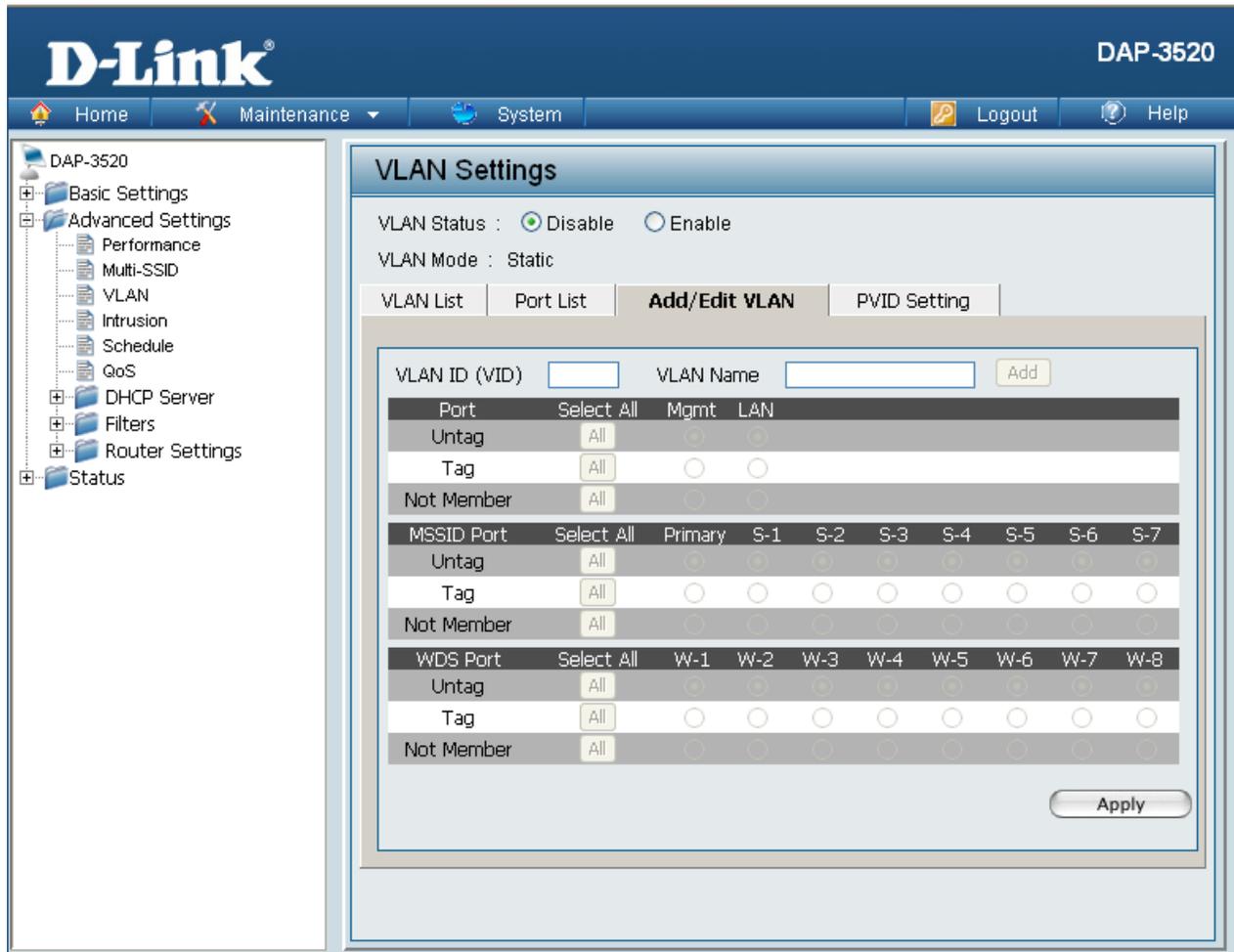
VLAN List **Port List** Add/Edit VLAN PVID Setting

Port Name	Tag VID	Untag VID	PVID
Mgmt		1	1
LAN		1	1
3520		1	1
dlink		1	1
W-1		1	1
W-2		1	1
W-3		1	1
W-4		1	1
W-5		1	1
W-6		1	1
W-7		1	1
W-8		1	1

The Port List tab displays the current ports. If you want to configure the guest and internal networks on a Virtual LAN (VLAN), the switch and DHCP server you are using must also support VLANs. As a prerequisite step, configure a port on the switch for handling VLAN tagged packets as described in the IEEE 802.1Q standard.

- VLAN Status:** Use the radio button to toggle to Enable. Next, go to the **Add/Edit VLAN** tab to add or modify an item on the **VLAN List** tab.
- Port Name:** The name of the port is displayed in this column.
- Tag VID:** The Tagged VID is displayed in this column.
- Untag VID:** The Untagged VID is displayed in this column.
- PVID:** The Port VLAN Identifier is displayed in this column.

Home > Advanced Settings > VLAN > Add/Edit VLAN



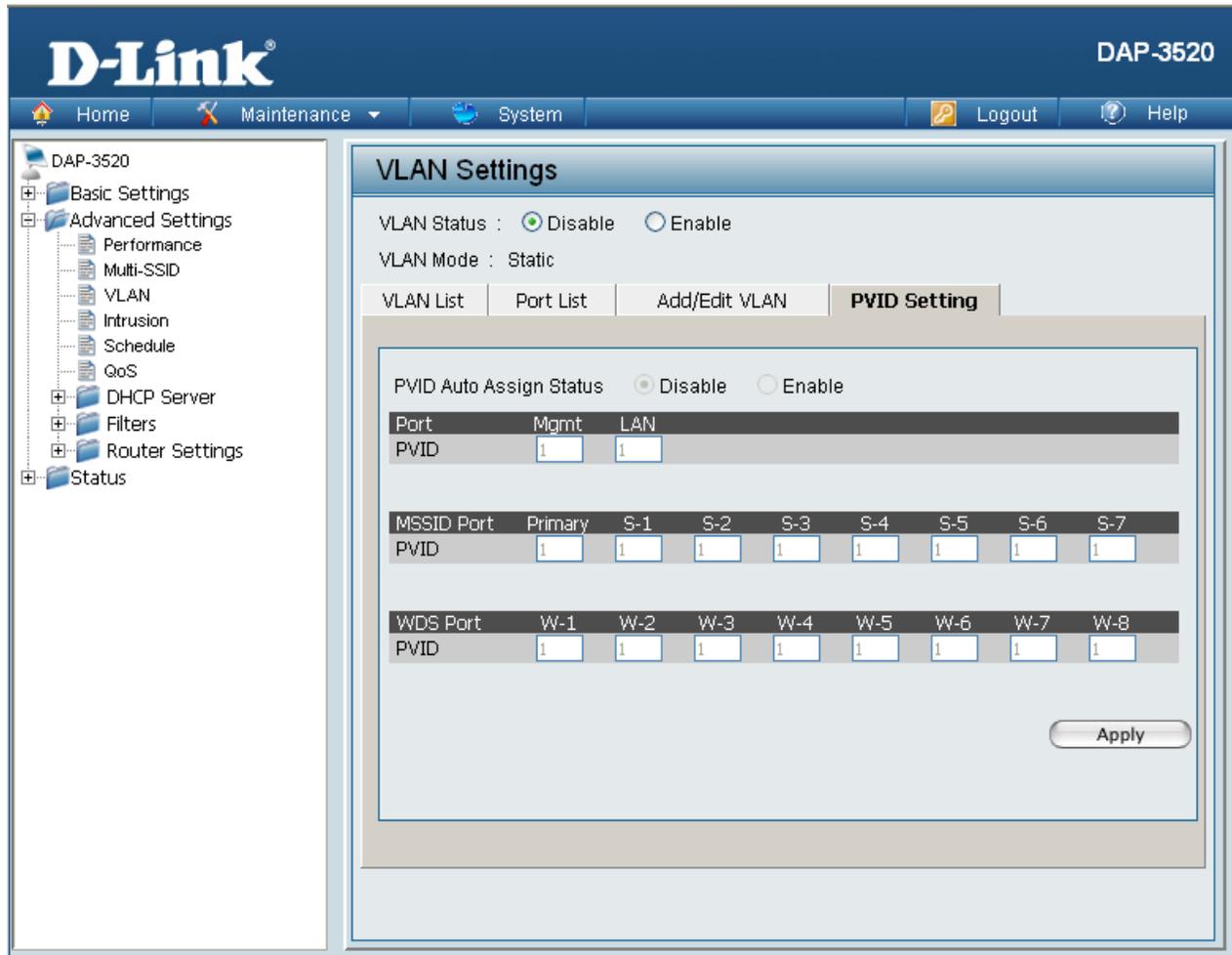
The Add/Edit VLAN tab is used to configure VLANs. Once you have made the desired changes, click the **Apply** button to let your changes take effect.

VLAN Status: Use the radio button to toggle to Enable.

VLAN ID (VID): Provide a number between **1** and **4094** for the Internal VLAN.

VLAN Name: Enter the VLAN to add or modify.

Home > Advanced Settings > VLAN > PVID Setting

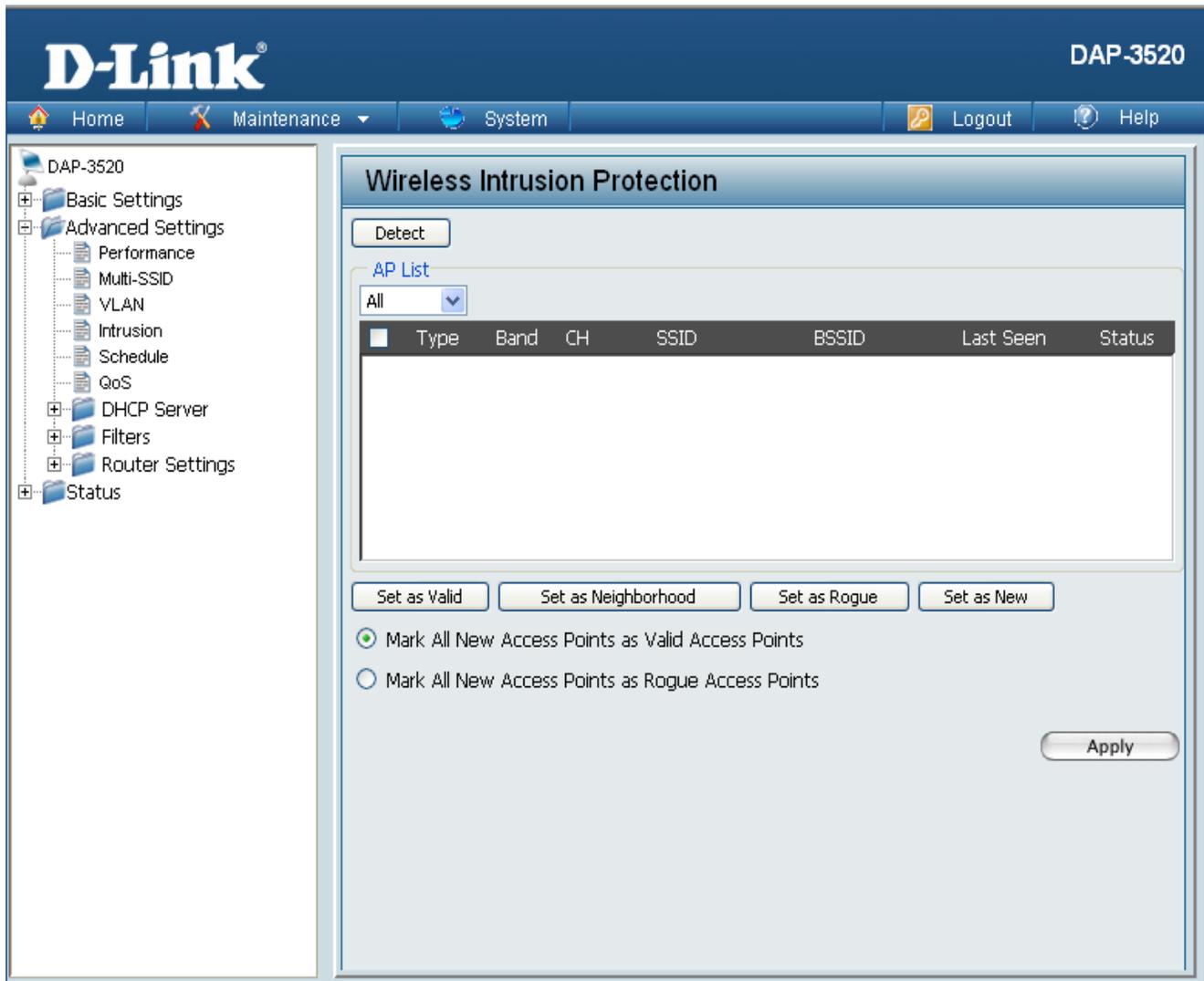


The PVID Setting tab is used to enable/disable the Port VLAN Identifier Auto Assign Status as well as to configure various types of PVID settings. Click the **Apply** button to let your changes take effect.

VLAN Status: Use the radio button to toggle to Enable.

PVID Auto Assign Status: Use the radio button to toggle PVID auto assign status to Enable.

Home > Advanced Settings > Intrusion

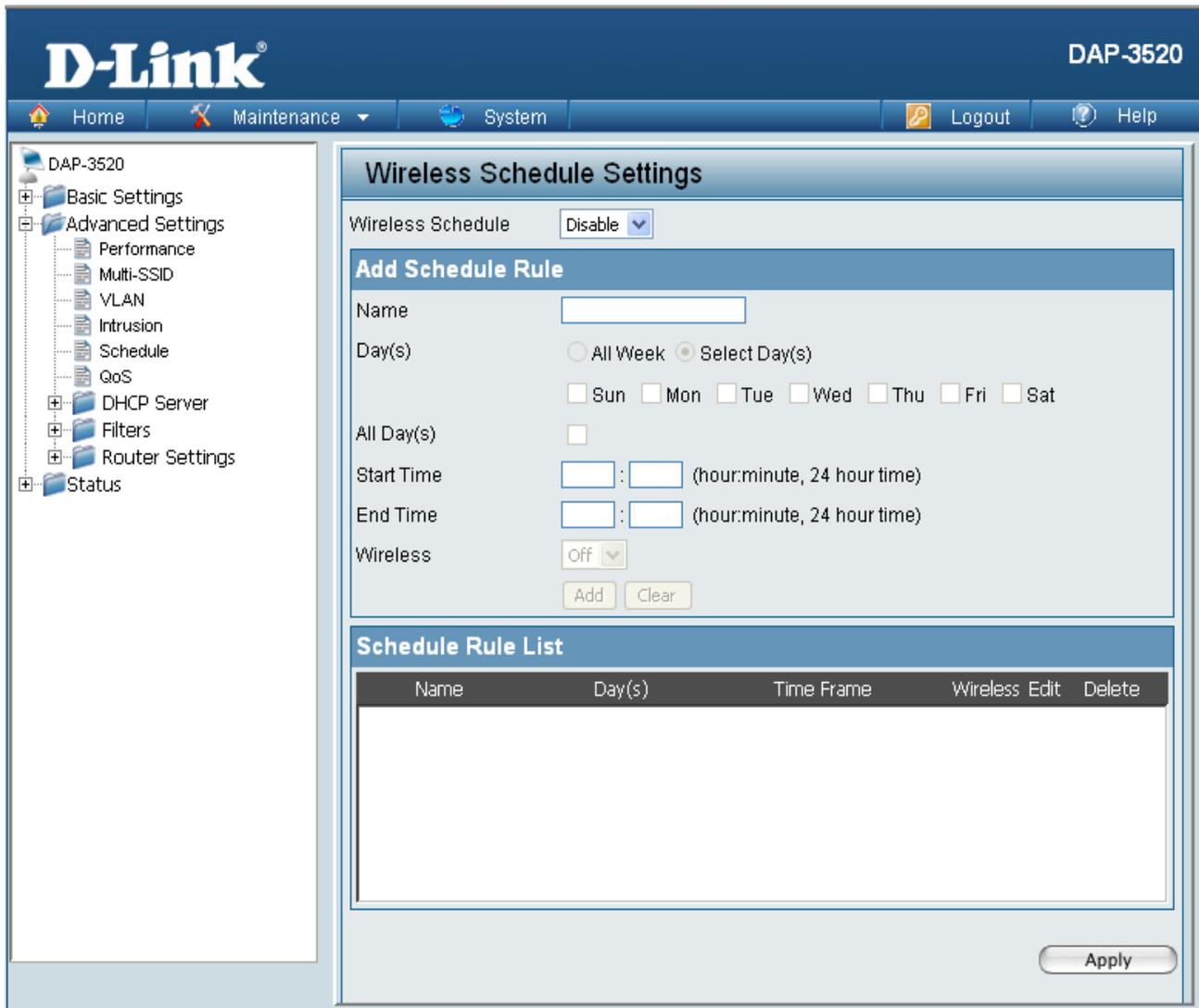


The Wireless Intrusion Protection window is used to set APs as **All**, **Valid**, **Neighborhood**, **Rogue**, and **New**. Click the **Apply** button to let your changes take effect.

AP List: The choices include **All**, **Valid**, **Neighbor**, **Rogue**, and **New**.

Detect Click this button to initiate a scan of the network.

Home > Advanced Settings > Schedule



The Wireless Schedule Settings window is used to add and modify scheduling rules on the device. Click the **Apply** button to let your changes take effect.

- Wireless Schedule:** Use the pull-down menu to enable the device's scheduling feature.
- Name:** Enter a name for the new scheduling rule in the field provided.
- Day(s):** Toggle the radio button between All Week and Select Days(s). If the second option is selected, check the specific days you want the rule to be effective on.
- All Days(s):** Check this box to have your settings apply 24 hours a day.
- Wireless:** Toggle the pull-down menu between **Off** and **On**.