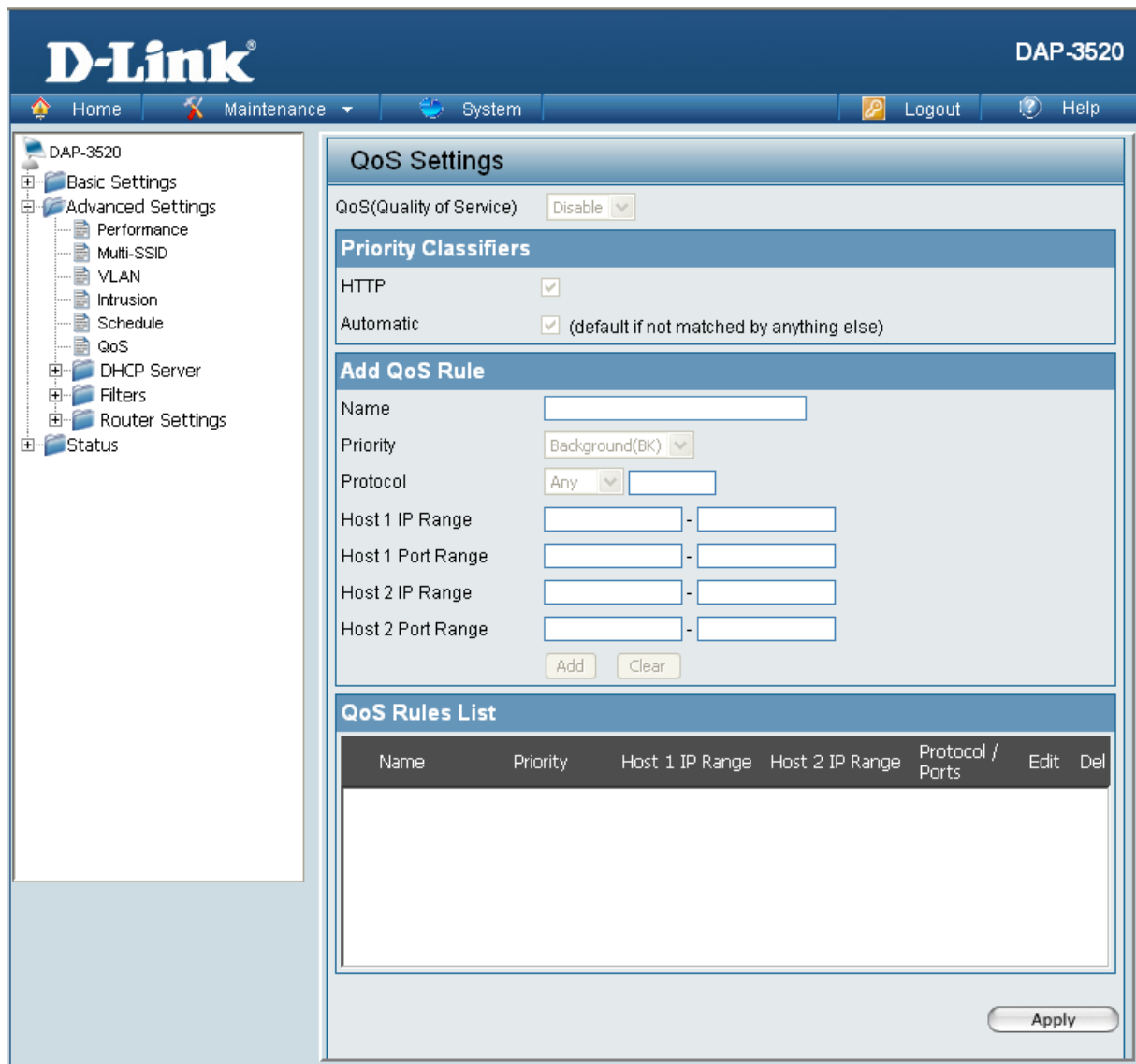


# Home > Advanced Settings > QoS



Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications.

A QoS Rule identifies a specific message flow and assigns a priority to that flow. For most applications, the priority classifiers ensure the right priorities and specific QoS Rules are not required.

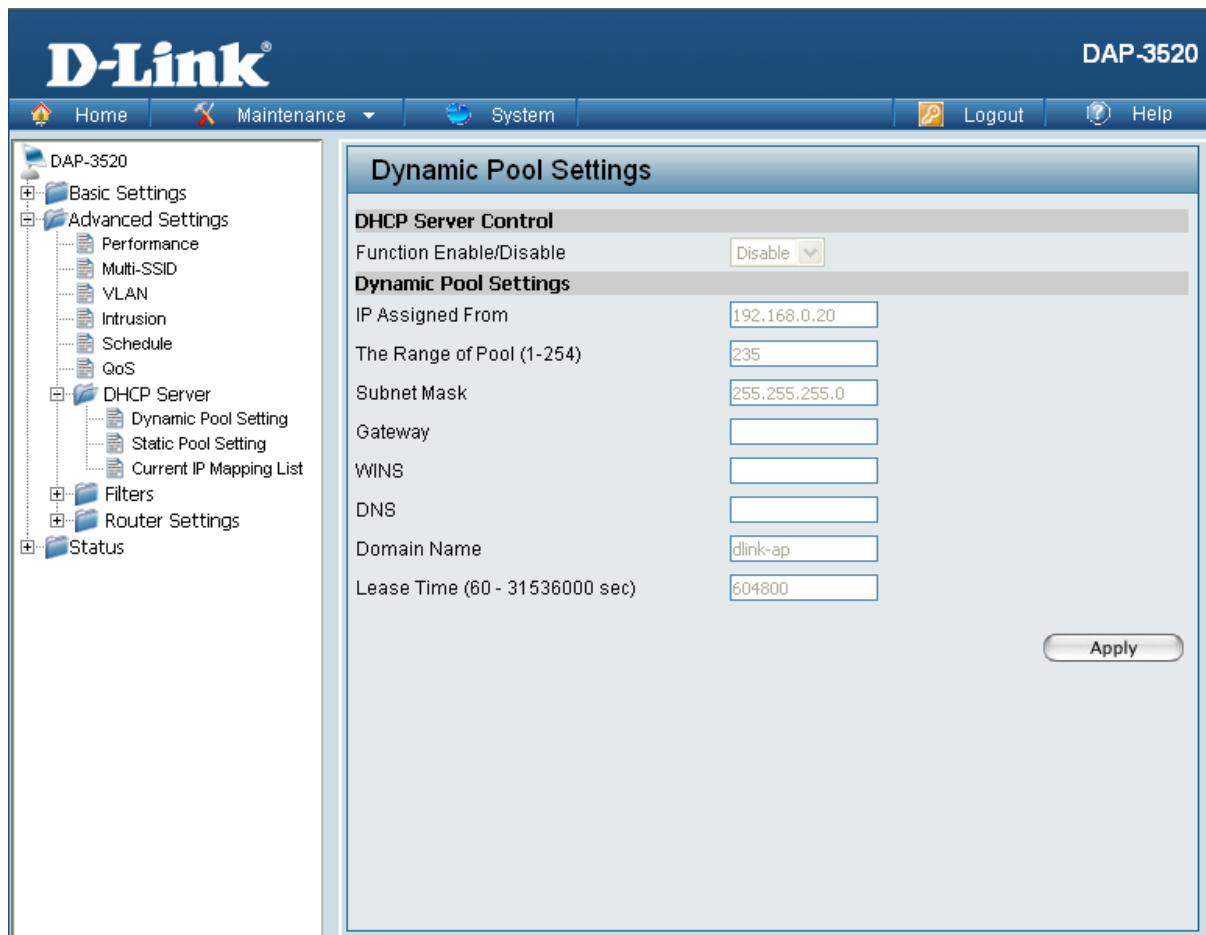
QoS supports overlaps between rules. If more than one rule matches a specific message flow, the rule with the highest priority will be used.

**QoS (Quality of Service):** Enable this option if you want to allow QoS to prioritize your traffic Priority Classifiers.

**HTTP:** Allows the access point to recognize HTTP transfers for many common audio and video streams and prioritize them above other traffic. Such streams are frequently used by digital media players.

|                           |  |
|---------------------------|--|
| <b>Automatic:</b>         | When enabled, this option causes the access point to automatically attempt to prioritize traffic streams that it doesn't otherwise recognize, based on the behavior that the streams exhibit. This acts to de-prioritize streams that exhibit bulk transfer characteristics, such as file transfers, while leaving interactive traffic, such as gaming or VoIP, running at a normal priority |
| <b>Name:</b>              | Enter a name for the new QoS rule in the field provided.   |
| <b>Priority:</b>          | Use the pull-down menu to select the desired priority: <b>Background (BK)</b> , <b>Best Effort (BE)</b> , <b>Video (VI)</b> , or <b>Voice (VO)</b> .   |
| <b>Protocol:</b>          | Use the pull-down menu to choose the appropriate protocol used by the messages: <b>Any</b> , <b>TCP</b> , <b>UDP</b> , <b>Both</b> , <b>IMCP</b> , or <b>Other</b> .   |
| <b>Host 1 IP Range:</b>   | The rule applies to a flow of messages for which one computer's IP address falls within the range set here.  |
| <b>Host 1 Port Range:</b> | The rule applies to a flow of messages for which host 1's port number is within the range set here when the Protocol is set to <b>TCP</b> , <b>UDP</b> , or <b>Both</b> .  |
| <b>Host 2 IP Range:</b>   | The rule applies to a flow of messages for which the other computer's IP address falls within the range set here.  |
| <b>Host 2 Port Range:</b> | The rule applies to a flow of messages for which host 2's port number is within the range set here when the Protocol is set to <b>TCP</b> , <b>UDP</b> , or <b>Both</b> .  |

# Home > Advanced Settings > DHCP Server > Dynamic Pool Settings



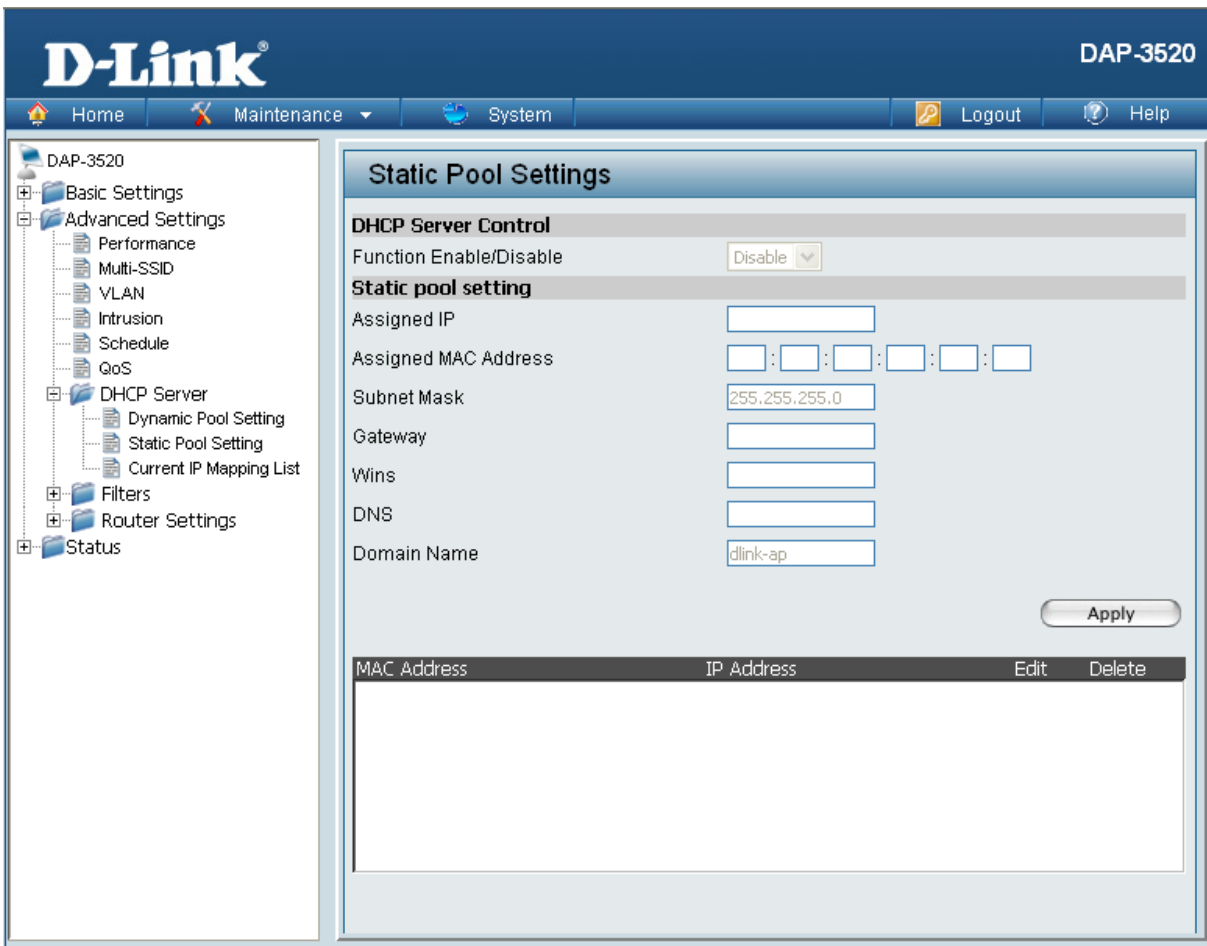
The DHCP address pool defines the range of the IP address that can be assigned to stations in the network. A Dynamic Pool allows wireless stations to receive an available IP with lease time control.

|                                   |   |
|-----------------------------------|---|
| <b>Function Enable/Disable:</b>   | Dynamic Host Configuration Protocol (DHCP) assigns dynamic IP addresses to devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign new IP addresses. Select <b>Enable</b> to allow the DAP-3520 to function as a DHCP server. |
| <b>IP Assigned From:</b>          | Input the first IP address available for assignment on your network.  |
| <b>The Range of Pool (1-254):</b> | Enter the number of IP addresses available for assignment. IP addresses are increments of the IP address specified in the "IP Assigned From" field.   |
| <b>Subnet Mask:</b>               | All devices in the network must have the same subnet mask to communicate. Enter the submask for the network here.   |

---

|  |   |
|--|---|
| <b>Gateway:</b>                          | Enter the IP address of the gateway on the network.   |
| <b>WINS:</b>                             | Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines the IP address of a network computer that has a dynamically assigned IP address. |
| <b>DNS:</b>                              | Enter the IP address of the Domain Name System (DNS) server. The DNS server translates domain names such as www.dlink.com into IP addresses.  |
| <b>Domain Name:</b>                      | Enter the domain name of the network, if applicable. (An example of a domain name is: www.dlink.com.)   |
| <b>Lease Time<br/>(60-31536000 sec):</b> | The lease time is the period of time before the DHCP server will assign new IP addresses.   |

# Home > Advanced Settings > DHCP Server > Static Pool Setting



The DHCP address pool defines the range of IP addresses that can be assigned to stations on the network. A static pool allows specific wireless stations to receive a fixed IP without time control.

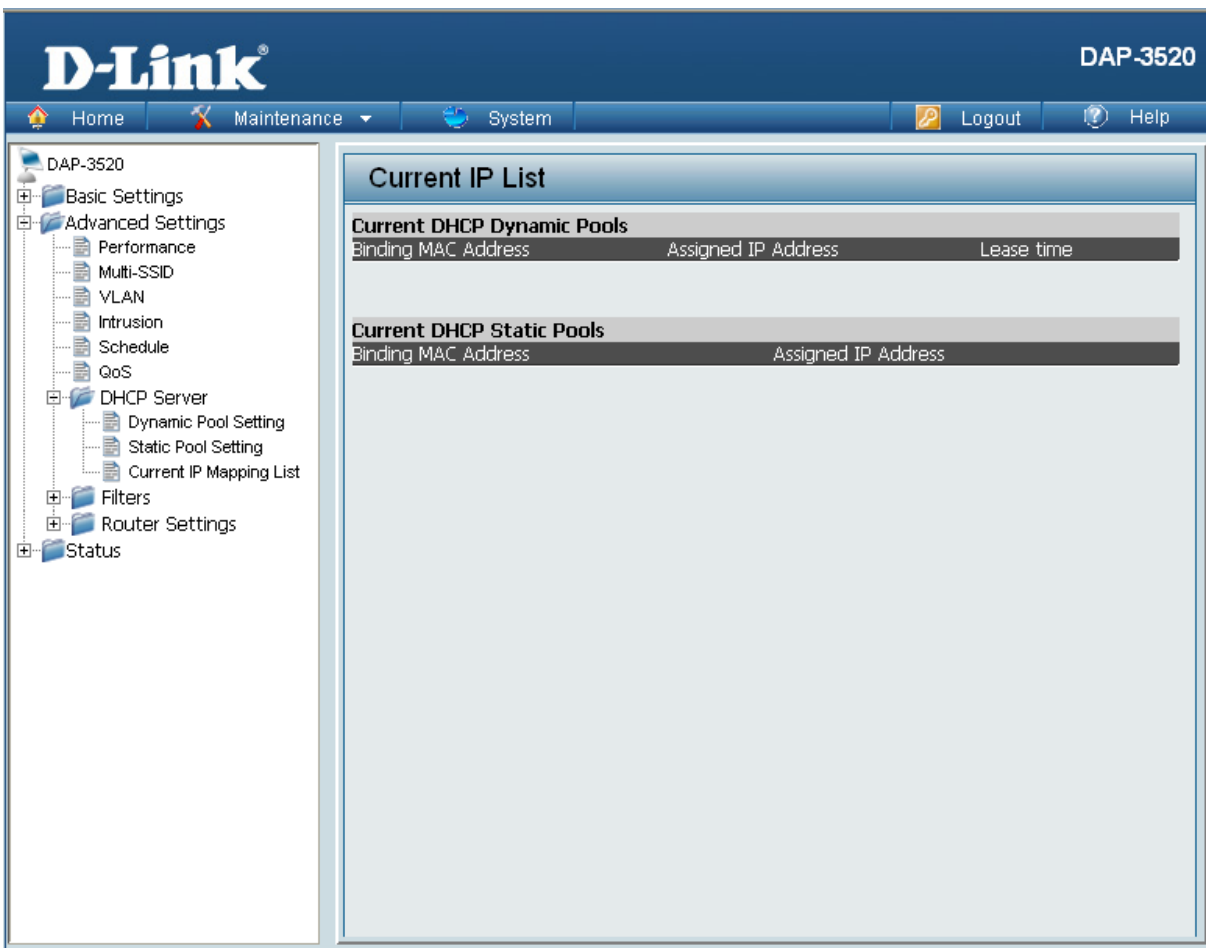
**Function Enable/Disable:** Dynamic Host Configuration Protocol (DHCP) assigns IP addresses to wireless devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign IP addresses. Select **Enable** to allow the DAP-3520 to function as a DHCP server.

**Assigned IP:** Use the Static Pool Settings to assign the same IP address to a device every time you start up. The IP addresses assigned in the Static Pool list must NOT be in the same IP range as the Dynamic Pool. After you have assigned a static IP address to a device via its MAC address, click **Apply**; the device will appear in the Assigned Static Pool at the bottom of the screen. You can edit or delete the device in this list.

---

|                              |  |
|------------------------------|--|
| <b>Assigned MAC Address:</b> | Enter the MAC address of the device requesting association here.   |
| <b>Subnet Mask:</b>          | Define the submask of the IP address specified in the "IP Assigned From" field.  |
| <b>Gateway:</b>              | Specify the Gateway address for the wireless network.  |
| <b>WINS:</b>                 | Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines the IP address of a network computer with a dynamically assigned IP address, if applicable. |
| <b>DNS:</b>                  | Enter the Domain Name System (DNS) server address for the wireless network. The DNS server translates domain names such as www.dlink.com into IP addresses.  |
| <b>Domain Name:</b>          | Specify the domain name for the network.   |

## Home > Advanced Settings > DHCP Server > Current IP Mapping List



This window displays information about the current assigned DHCP dynamic and static IP address pools. This information is available when you enable DHCP server on the AP and assign dynamic and static IP address pools.

**Current DHCP Dynamic Pools:** These are IP address pools the DHCP server has assigned using the dynamic pool setting.

**Binding MAC Address:** The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool.

**Assigned IP Address:** The current corresponding DHCP-assigned IP address of the device.

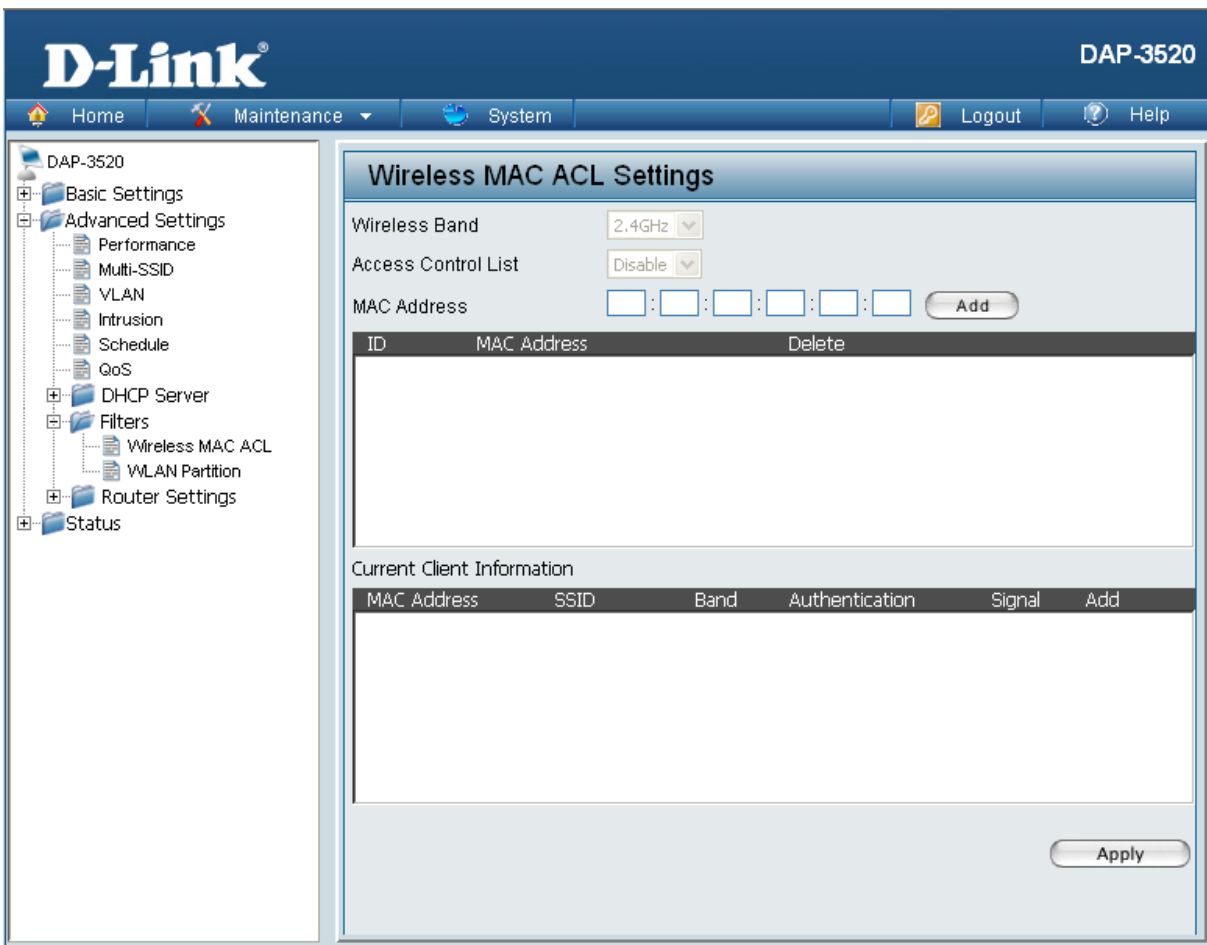
**Lease Time:** The length of time that the dynamic IP address will be valid.

**Current DHCP Static Pools:** These are the IP address pools of the DHCP server assigned through the static pool settings.

|                             |   |
|-----------------------------|---|
| <b>Binding MAC Address:</b> | The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool. |
| <b>Assigned IP Address:</b> | The current corresponding DHCP-assigned static IP address of the device.                              |



## Home > Advanced Settings > Filters > Wireless MAC ACL



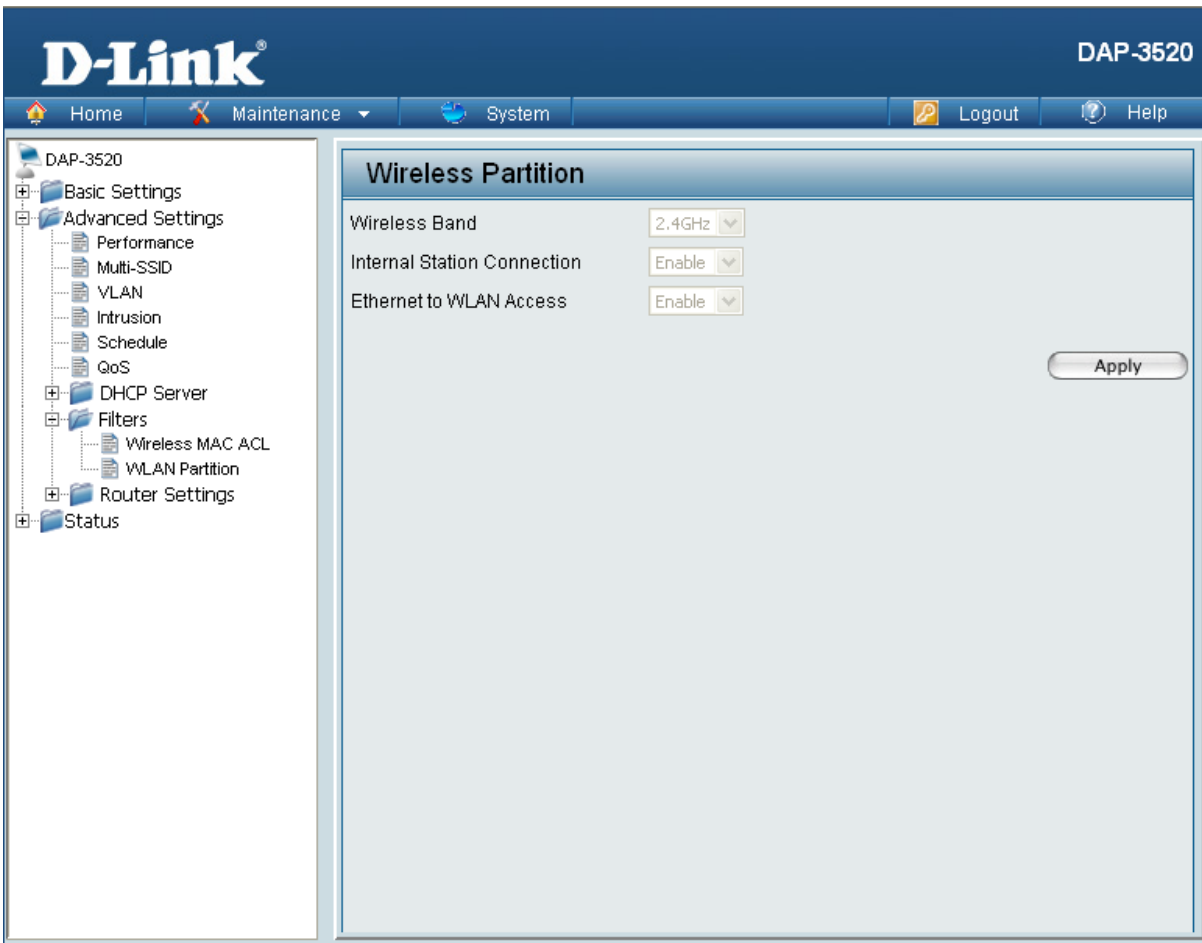
**Wireless Band:** Displays the current wireless band rate.

**Access Control List:** Select **Disable** to disable the filters function.  
 Select **Accept** to accept only those devices with MAC addresses in the Access Control List. All other devices not on the list will be rejected.  
 Select **Reject** to reject the devices with MAC addresses on the Access Control List. All other devices not on the list will be accepted.

**MAC Address:** Enter each MAC address that you wish to include in your filter list, and click **Apply**.

**MAC Address List:** When you enter a MAC address, it appears in this list. Highlight a MAC address and click **Delete** to remove it from this list.

## Home > Advanced Settings > Filters > WLAN Partition

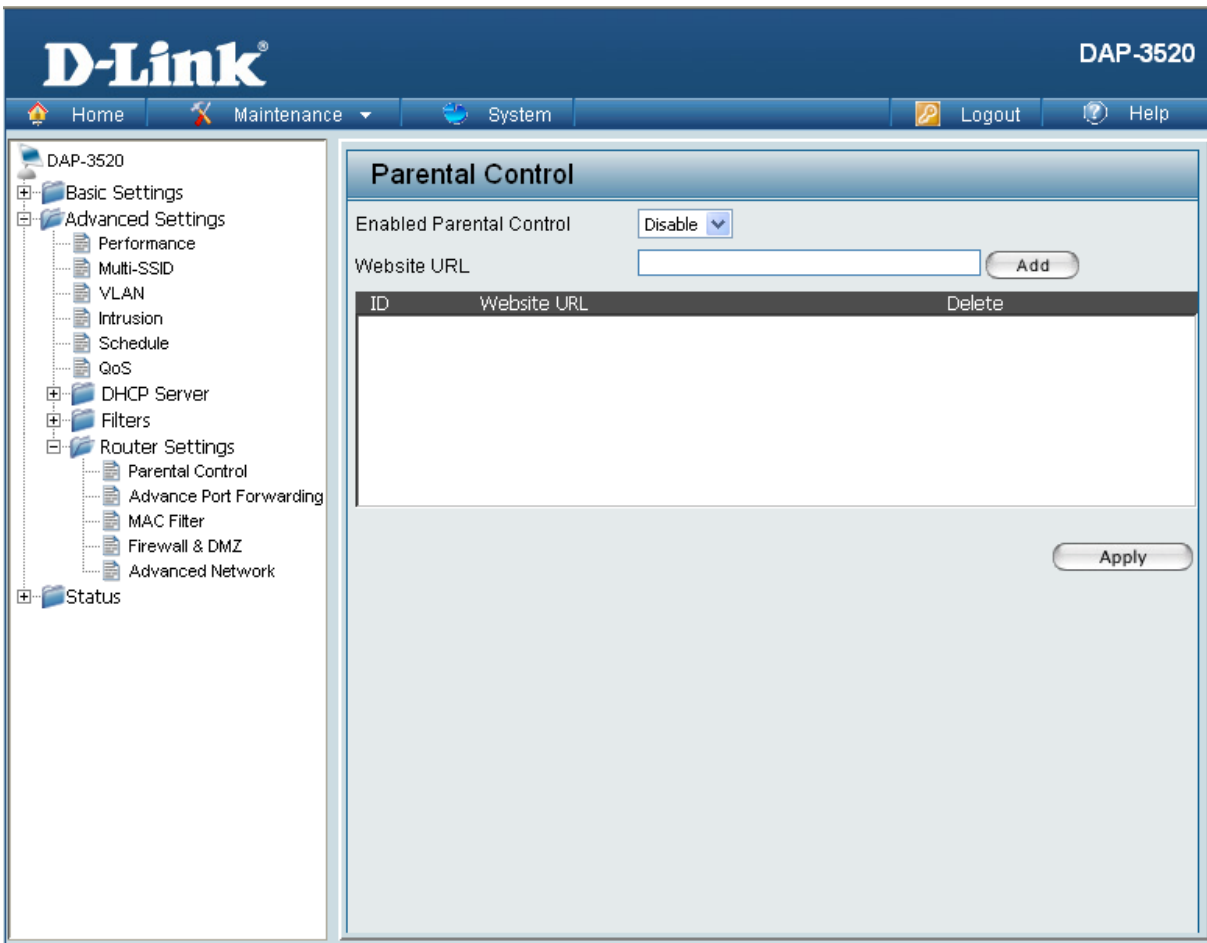


**Wireless Band:** Displays the current wireless band rate.

**Internal Station Connection:** The default value is **Enable**, which allows stations to inter-communicate by connecting to a target AP. When disabled, wireless stations cannot exchange data through the AP.

**Ethernet to WLAN Access:** The default is **Enable**. When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data to the Ethernet.

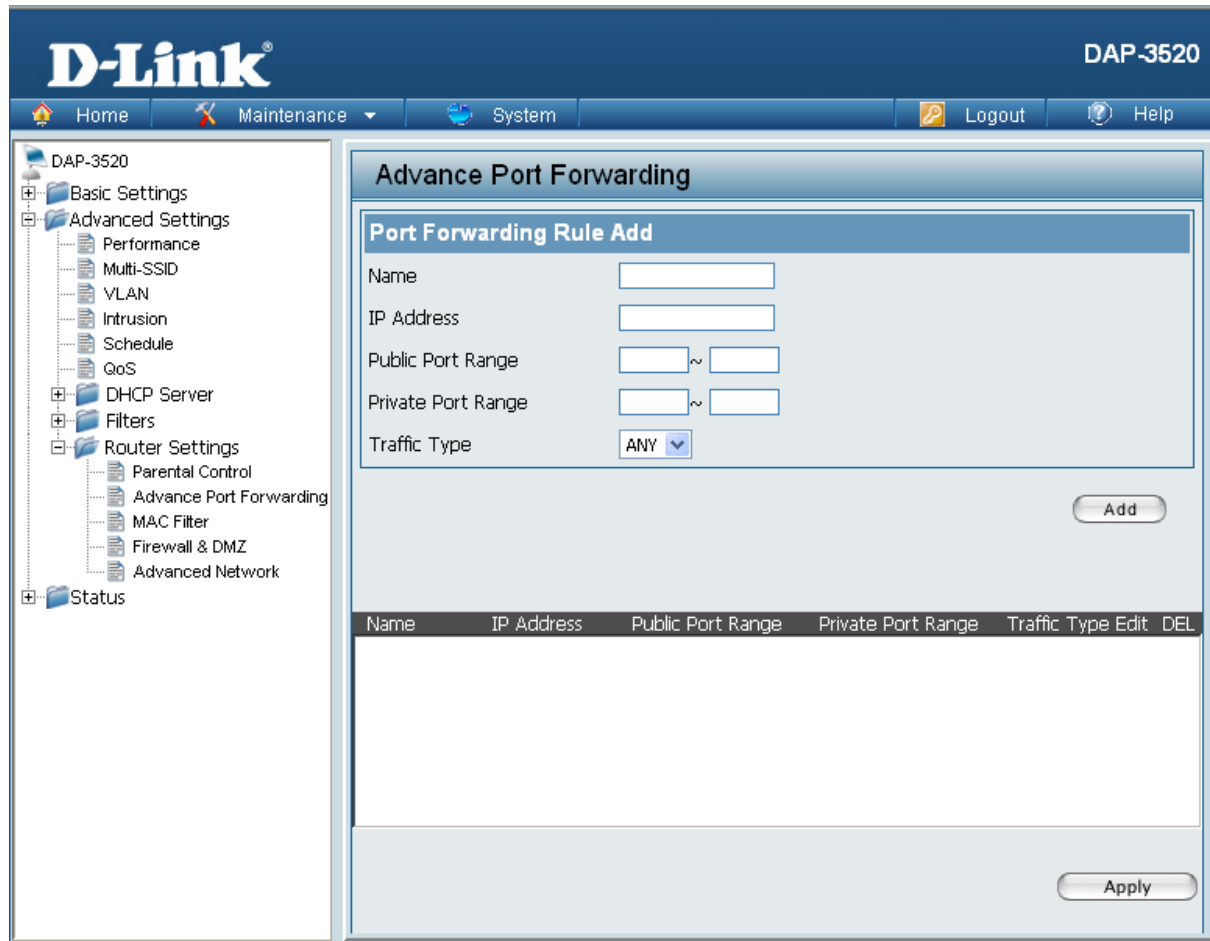
# Home > Advanced Settings > Router Settings > Parental Control



**Enabled Parental Control:** Select **Allow** to allow computers access to these sites only, select **Deny** to deny computers access to these sites only, or **Disable** to turn off the parental control feature.

**Website URL:** Enter the keywords or URLs that you want to block (or allow). Any URL with the keyword in it will be blocked.

# Home > Advanced Settings > Router Settings > Advance Port Forwarding



**Name:** Enter a name for the rule.

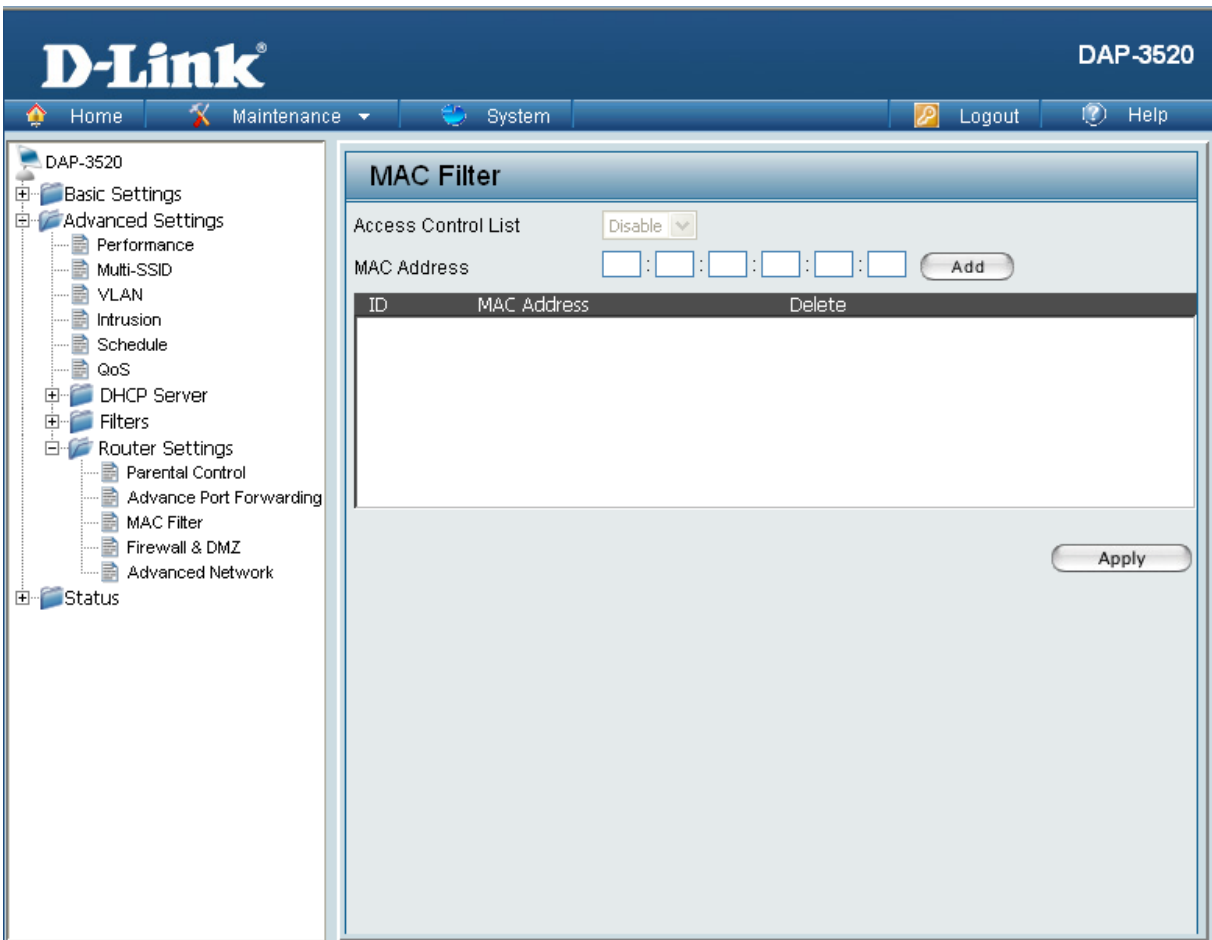
**IP Address:** Enter the IP address of the computer on your local network that you want to allow the incoming service to.

**Public Port Range:** Enter the public port or ports that you want to open. If you want to open one public port, enter the same port in both boxes.

**Private Port Range:** Enter the private port or ports that you want to open. If you want to open one private port, enter the same port in both boxes.

**Traffic Type:** Select **TCP**, **UDP**, or **ANY**.

## Home > Advanced Settings > Router Settings > MAC Filter



**Name:** Enter a name for the rule.

**IP Address:** Enter the IP address of the computer on your local network that you want to allow the incoming service to.

**Public Port Range:** Enter the public port or ports that you want to open. If you want to open one public port, enter the same port in both boxes.

**Private Port Range:** Enter the private port or ports that you want to open. If you want to open one private port, enter the same port in both boxes.

**Traffic Type:** Select **TCP**, **UDP**, or **ANY**.

# Home > Advanced Settings > Router Settings > Firewall & DMZ



**Enable DMZ:** Tick this check box to enable DMZ.

**DMZ IP Address:** Enter the IP address of the computer you would like to open all ports to.

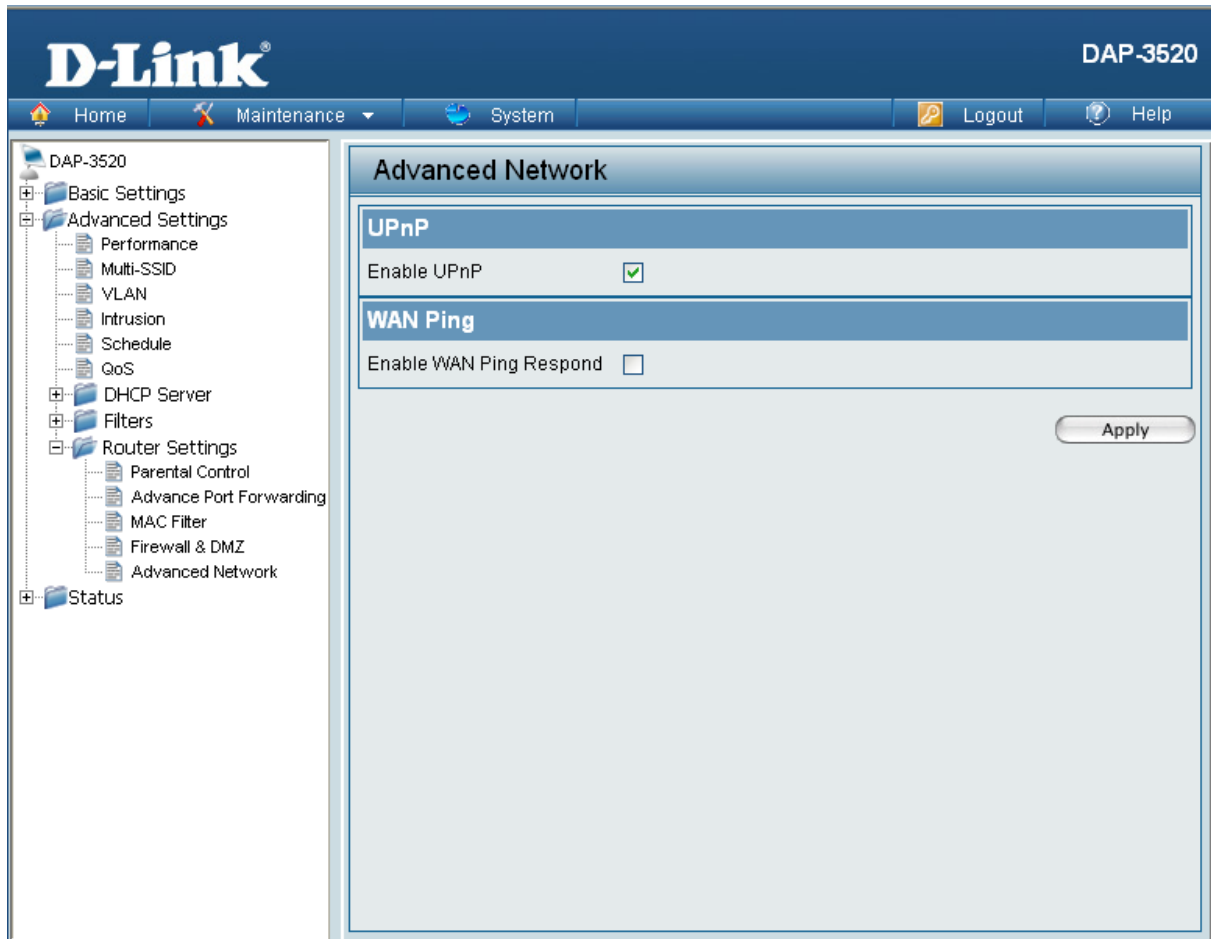
**Enable SPI:** Tick this check box to enable SPI.

**Name:** Choose a name for the firewall rule.

---

|                               |  |
|-------------------------------|--|
| <b>Source Interface:</b>      | Toggle among <b>Source</b> , <b>LAN</b> , and <b>WAN</b> . This is the TCP/UDP port on either the LAN or WAN side. |
| <b>Source IP:</b>             | Enter a beginning and ending source IP address.  |
| <b>Protocol:</b>              | Select the transport protocol that will be used for the filter rule.   |
| <b>Action:</b>                | Select to <b>Allow</b> or <b>Deny</b> transport of the data packets according to the criteria defined in the rule. |
| <b>Destination Interface:</b> | Toggle among <b>Dest</b> , <b>LAN</b> , and <b>WAN</b> . This is the TCP/UDP port on either the LAN or WAN side.   |
| <b>Destination IP:</b>        | Enter a beginning and ending destination IP address.   |
| <b>Port Range:</b>            | Enter the desired port range for the filter rule.  |

## Home > Advanced Settings > Router Settings > Advanced Network

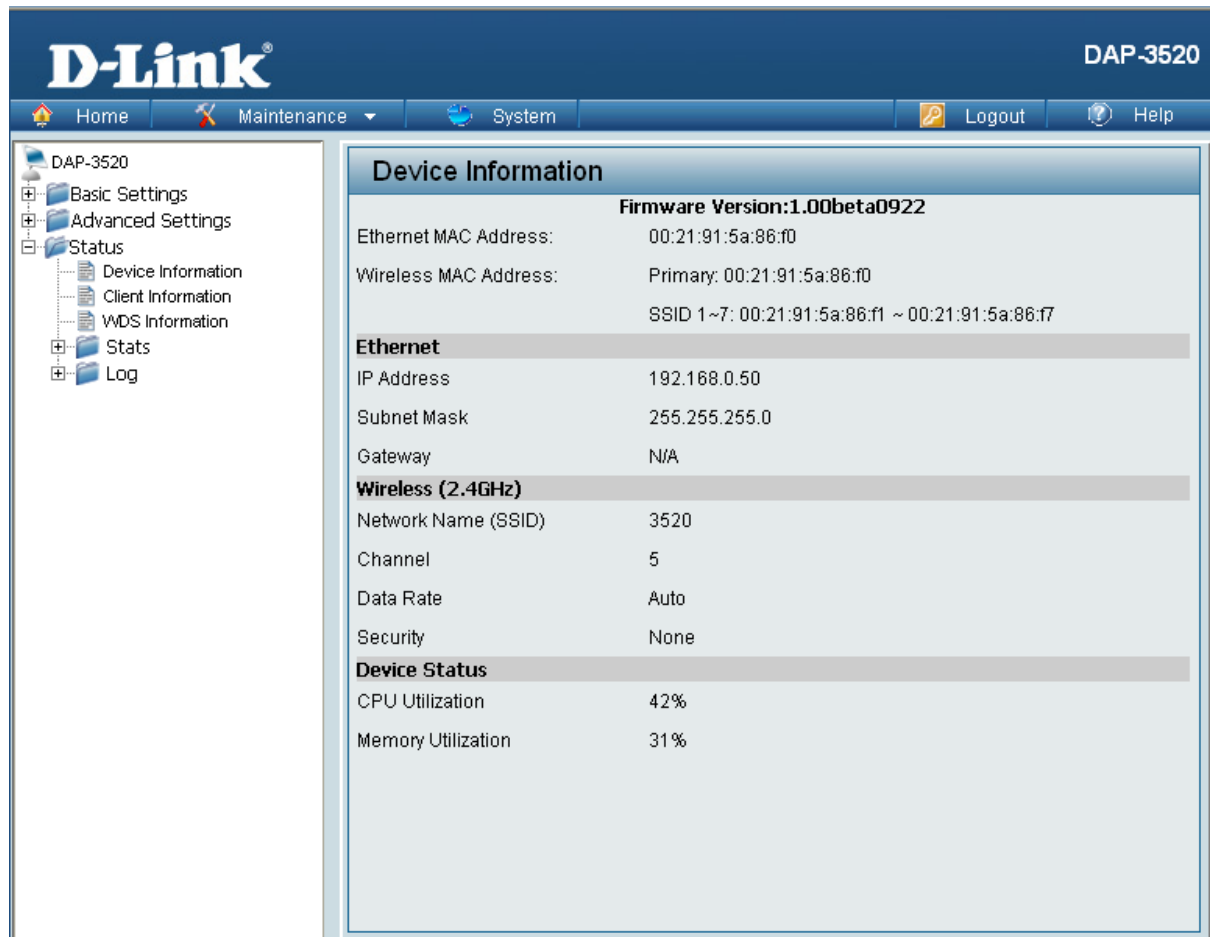


**Enable UPnP:** To use the Universal Plug and Play (UPnP™) feature tick this check box. UPNP provides compatibility with networking equipment, software and peripherals.

**Enable WAN Ping Respond:** Unchecking the box will not allow the DAP-3520 to respond to Pings. Blocking the Ping may provide some extra security from hackers. Tick this check box to allow the WAN port to be “Pinged”.

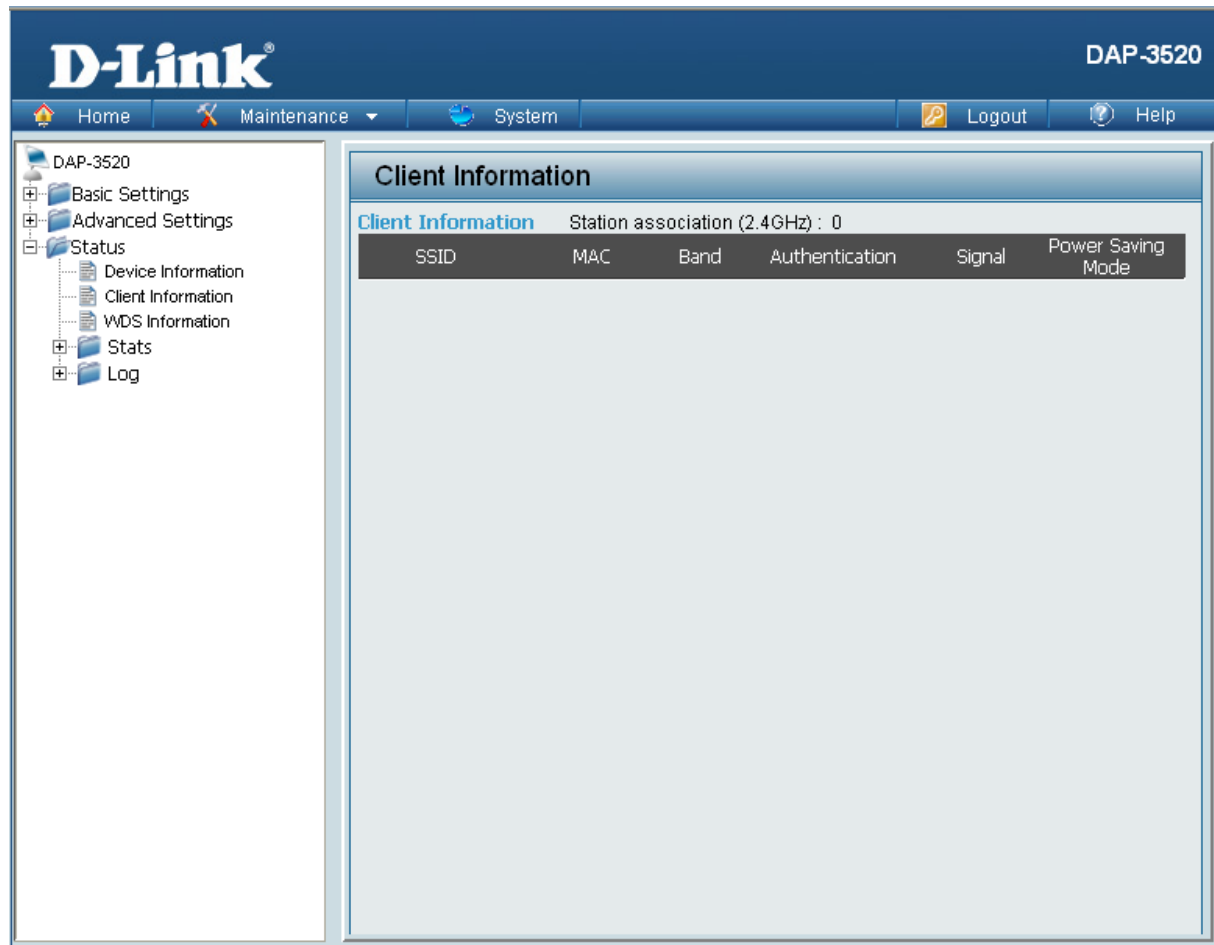


# Home > Status > Device Information



**Device Information:** This read-only window displays the configuration settings of the DAP-3520, including the firmware version and the device's MAC address.

## Home > Status > Client Information



**Client Information:** This window displays the wireless client information for clients currently connected to the DAP-3520.

The following information is available for each client communicating with the DAP-3520.

- SSID:** Displays the SSID of the client.
- MAC:** Displays the MAC address of the client.
- Band:** Displays the wireless band that the client is connected to.
- Authentication:** Displays the type of authentication being used.
- Signal:** Displays the client's signal strength.
- Power Saving Mode:** Displays the status of the power saving feature.

## Home > Status > WDS Information

The screenshot shows the D-Link configuration web interface for a DAP-3520. The top navigation bar includes 'Home', 'Maintenance', 'System', 'Logout', and 'Help'. The left sidebar shows a tree view with 'Status' expanded to 'WDS Information'. The main content area is titled 'WDS Information' and shows 'Channel : 8 (2.447 GHz)'. Below this is a table with the following data:

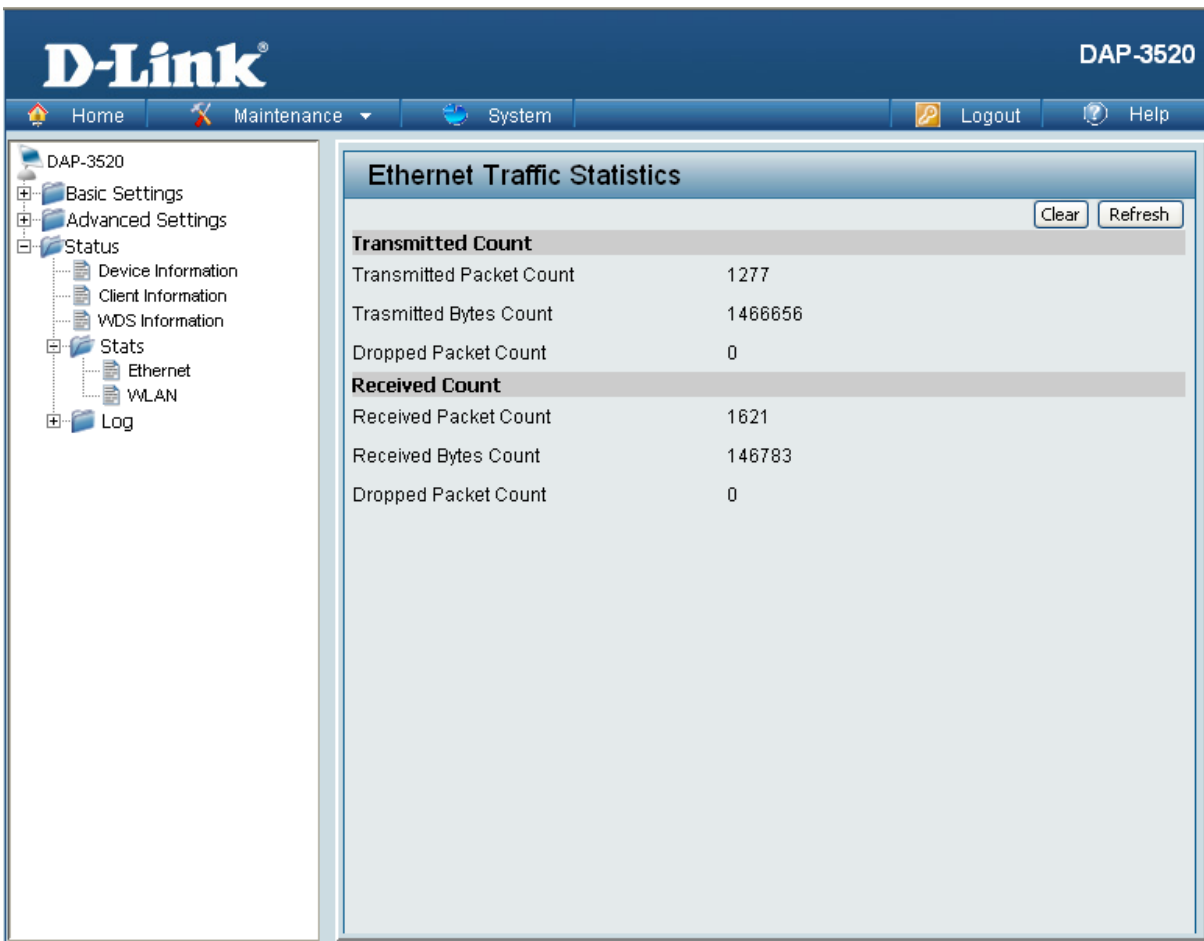
| Name | MAC | Authentication | Signal | Status |
|------|-----|----------------|--------|--------|
| W-1  |     | None           |        | Off    |

**WDS Information:** This window displays the Wireless Distribution System information for clients currently connected to the DAP-3520.

The following information is available for each client communicating with the DAP-3520.

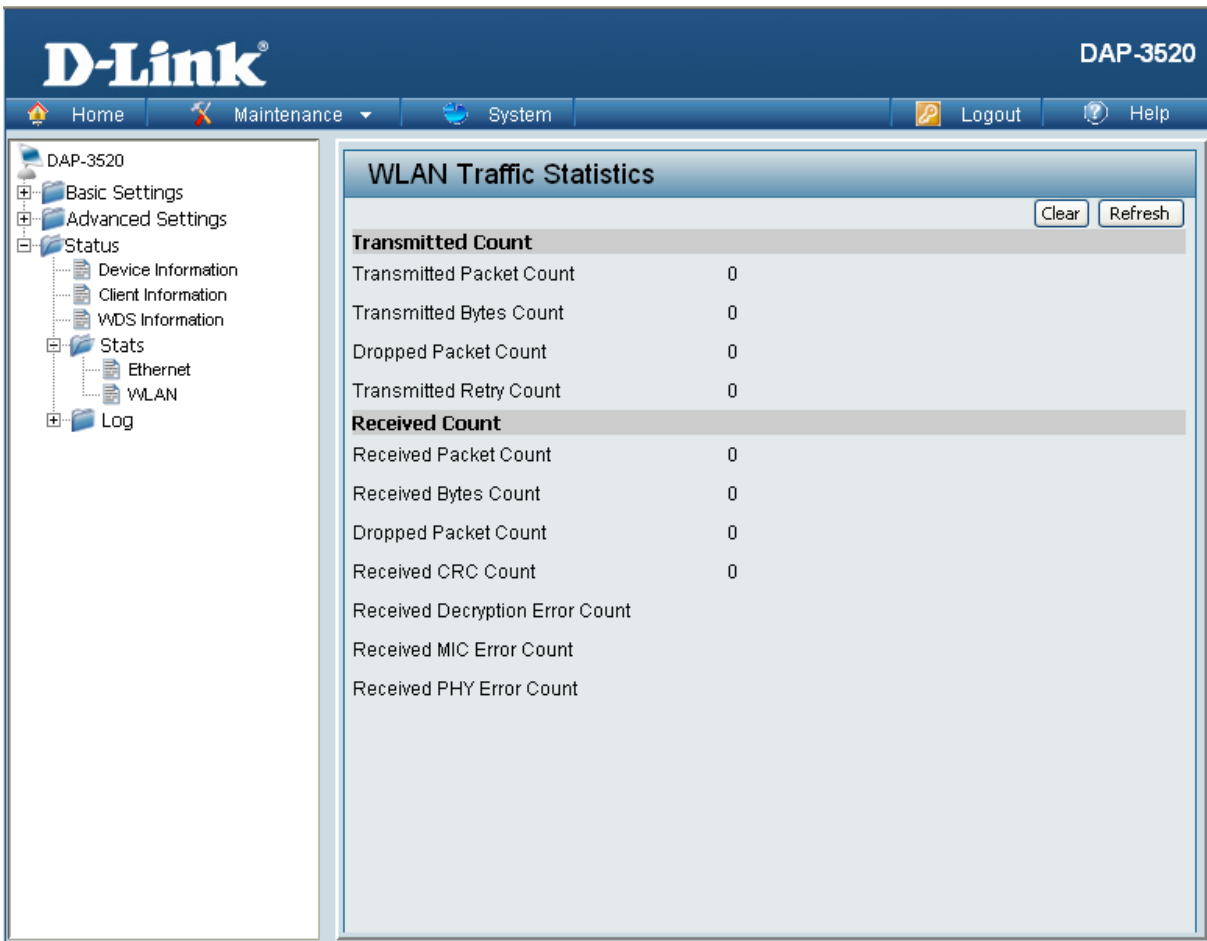
- Name:** Displays the name of the client.
- MAC:** Displays the MAC address of the client.
- Authentication:** Displays the type of authentication being used.
- Signal:** Displays the WDS link signal strength.
- Status:** Displays the status of the power saving feature.

# Home > Status > Stats > Ethernet



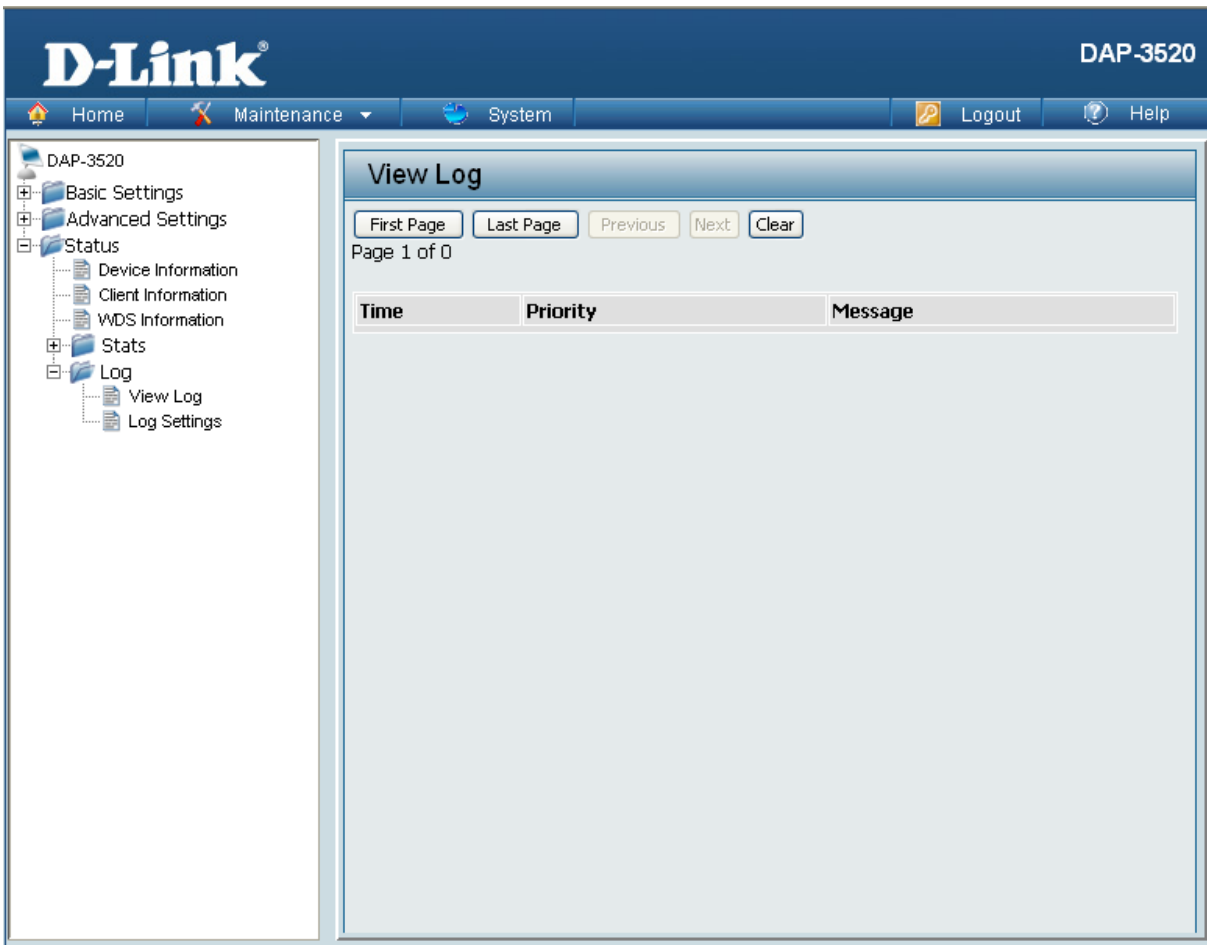
**Ethernet Traffic Statistics:** This page displays transmitted and received count statistics for packets and bytes.

# Home > Status > Stats > WLAN



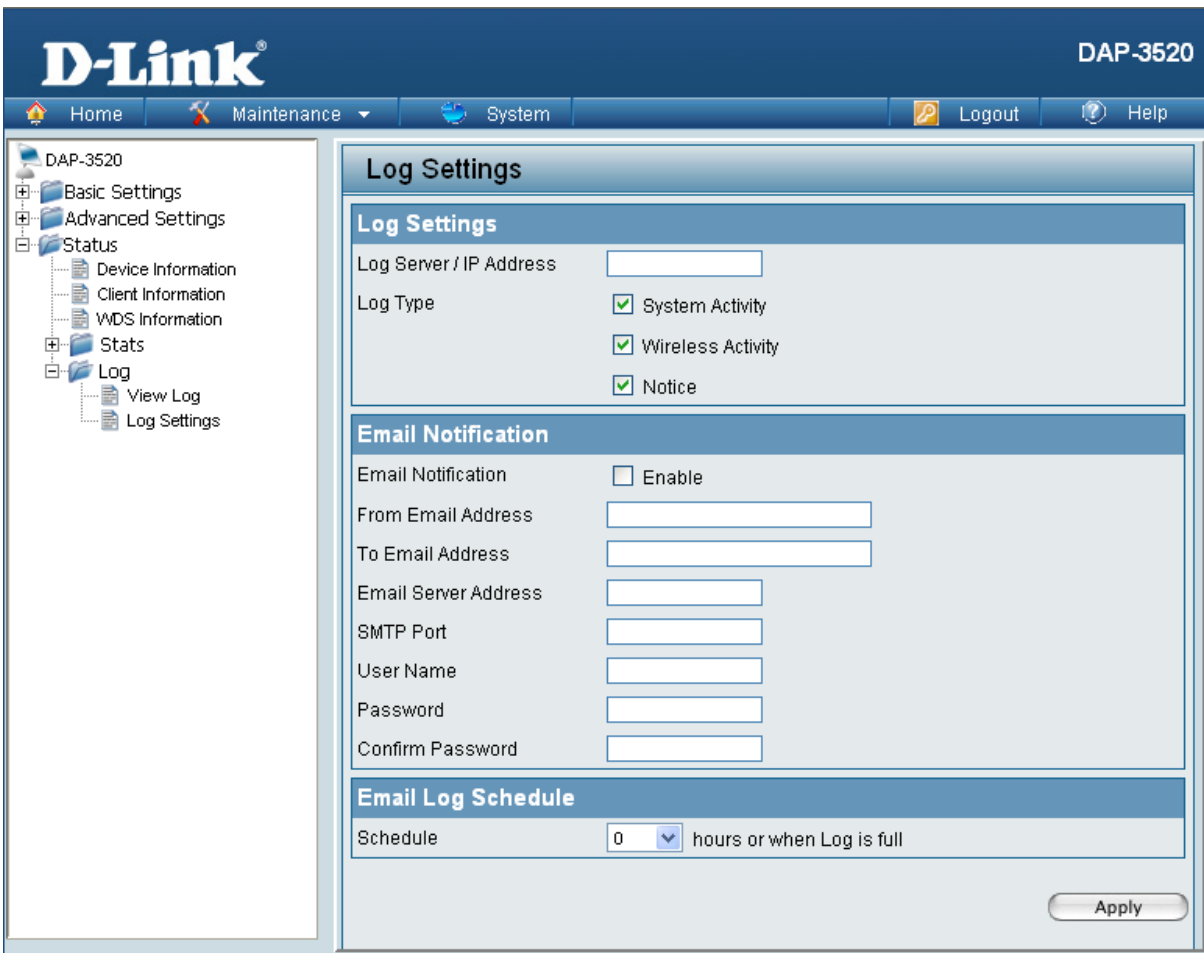
**WLAN Traffic Statistics:** This page displays wireless network statistics for data throughput, transmitted and received frames, and frame errors.

# Home > Status > Log > View Log



**View Log:** The AP's embedded memory displays system and network messages including a time stamp and message type. The log information includes but is not limited to the following items: cold start AP, upgrading firmware, client associate and disassociate with AP, and web login. The web page holds up to 500 logs.

# Home > Status > Log > Log Settings



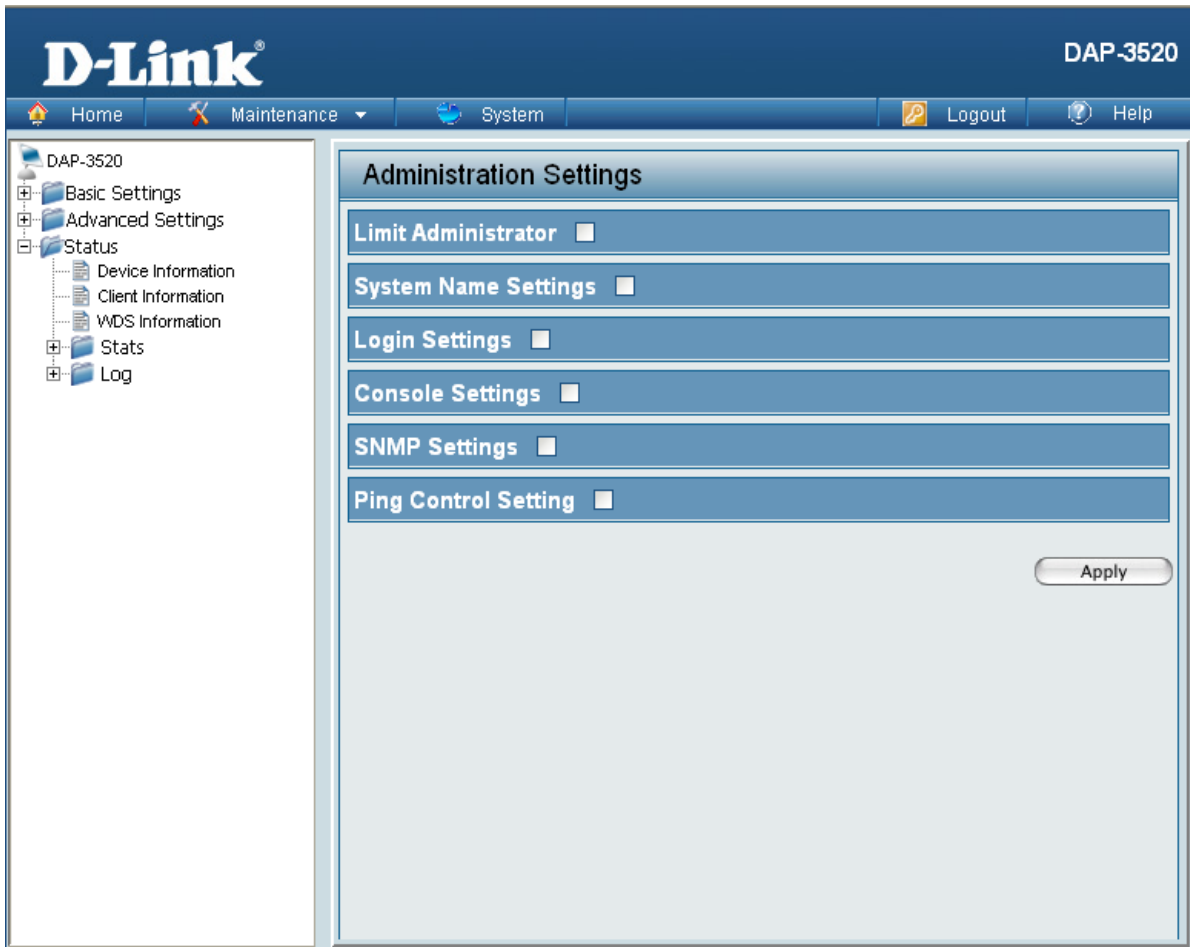
- Log Server/IP Address:** Enter the IP address of the server you would like to send the DAP-3520 log to.
- Log Type:** Check the box for the type of activity you want to log. There are three types: System Activity, Wireless Activity, and Notice.
- Email Notification:** Tick to Enable email notification.
- From Email Address:** Enter the sender's e-mail address. This field does not require a valid e-mail address. However, if your e-mail client is filtering spam, make sure you allow this address to be received.
- To Email Address:** Enter the e-mail address you want to send alerts to. This address must correspond with the SMTP server configured above.
- Email Server Address:** Enter the IP address of the server you would like to send the DAP-3520 log to.

---

|                          |  |
|--------------------------|--|
| <b>SMTP Port:</b>        | Enter a TCP port number to relay outbound mail to your mail server. The default port is <b>25</b> .  |
| <b>User Name:</b>        | Enter an appropriate user name for your e-mail account.  |
| <b>Password:</b>         | Enter an appropriate password for your e-mail account.   |
| <b>Confirm Password:</b> | Retype the password for your e-mail account.   |
| <b>Schedule:</b>         | Use the drop-down menu to select the number of hours before mail will be sent to the server. For example, if a value of <b>2</b> is selected, mail will be sent to the server every two hours. However, if the log entry is full between 0 and 2 hours, mail will also be sent to the server and then the log entry will be automatically cleared. |

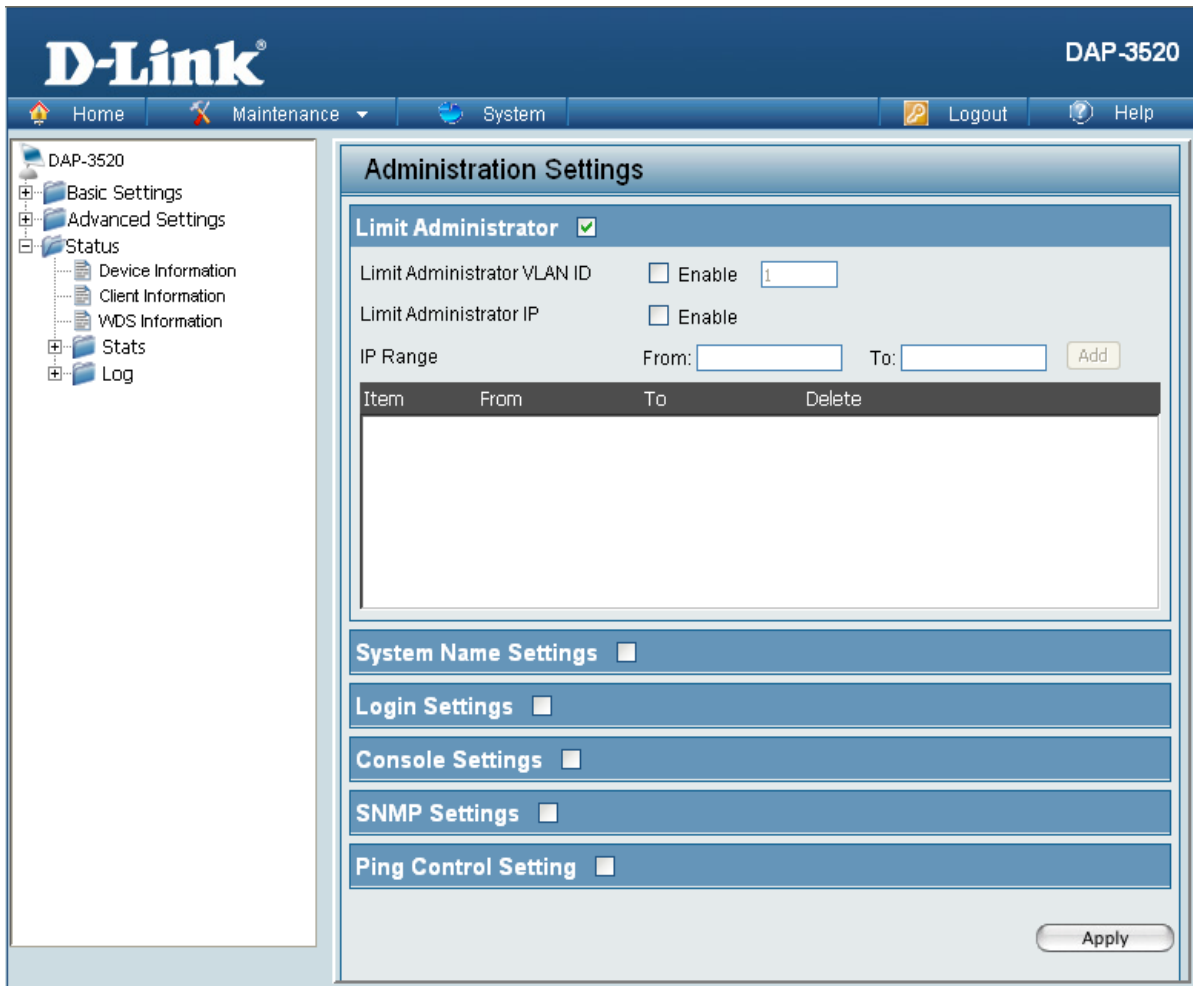


## Maintenance > Administrator Settings



Check one or more of the six main categories to display the various hidden administrator parameters and settings displayed on the next five pages.

# Maintenance > Administrator Settings > Limit Administrator



Each of the six main categories display various hidden administrator parameters and settings.

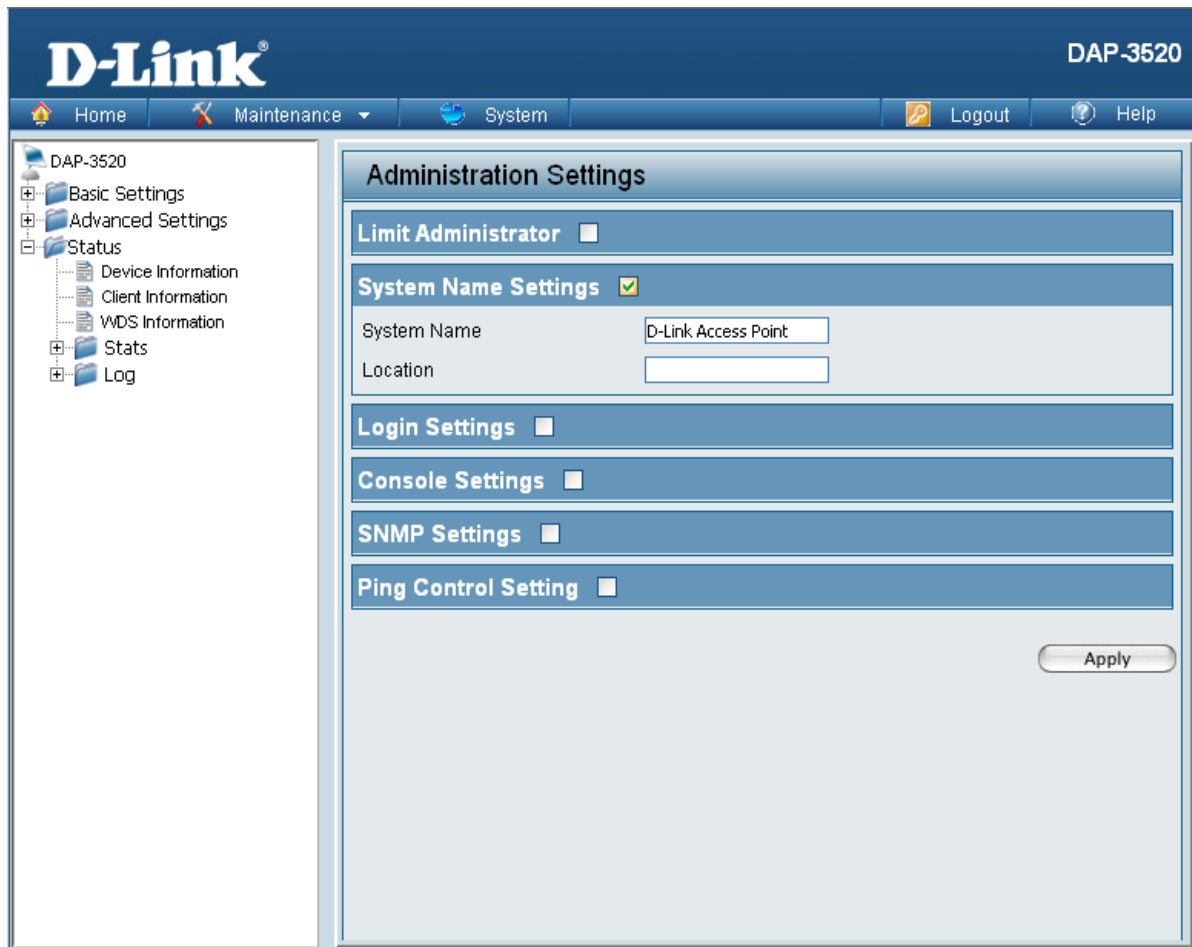
## Limit Administrator

**Limit Administrator VLAN ID:** Check the box provided and then enter the specific VLAN ID that the administrator will be allowed to log in from.

**Limit Administrator IP:** Check to enable the Limit Administrator IP address.

**IP Range:** Enter the IP address range that the administrator will be allowed to log in from and then click the Add button.

## Maintenance > Administrator Settings > System Name



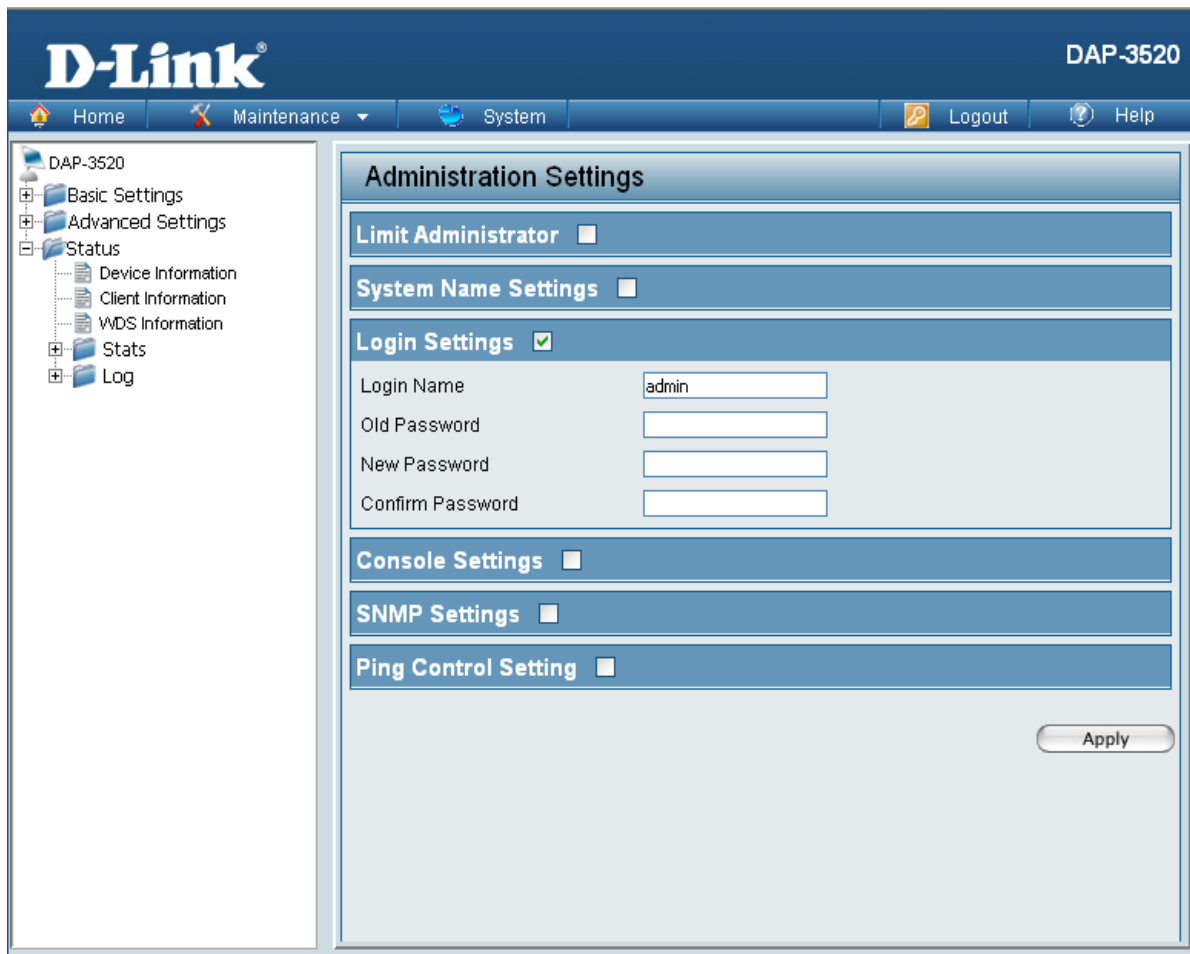
Each of the six main categories display various hidden administrator parameters and settings.

### System Name Settings

**System Name:** The name of the device. The default name is **D-Link DAP-3520**.

**Location:** The physical location of the device, e.g. 72nd Floor, D-Link HQ.

## Maintenance > Administrator Settings > Login Settings

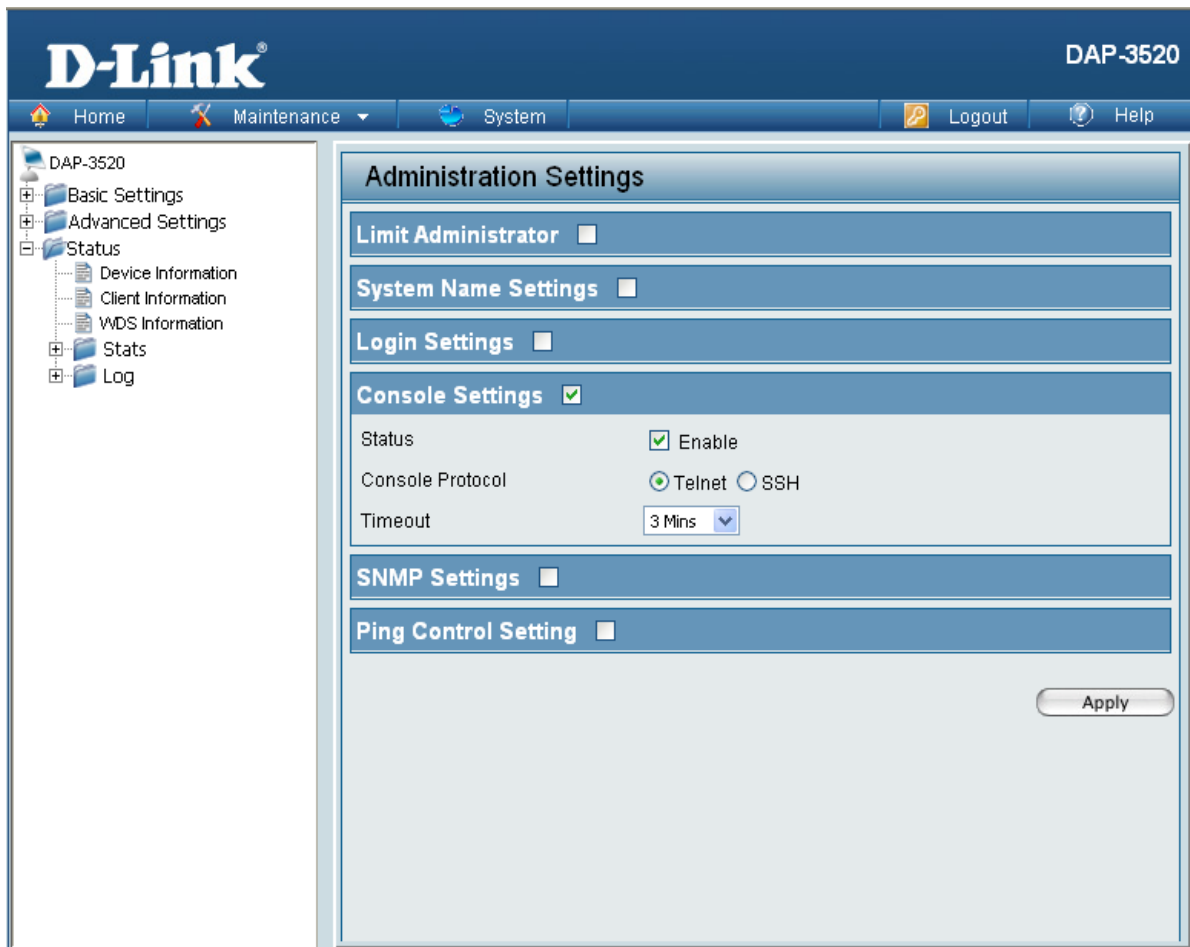


Each of the six main categories display various hidden administrator parameters and settings.

### Login Settings

- |                          |  |
|--------------------------|--|
| <b>User Name:</b>        | Enter a user name. The default is <b>admin</b> .   |
| <b>Old Password:</b>     | When changing your password, enter the old password here.  |
| <b>New Password:</b>     | When changing your password, enter the new password here. The password is case-sensitive. "A" is a different character than "a." The length should be between 0 and 12 characters. |
| <b>Confirm Password:</b> | Enter the new password a second time for confirmation purposes.  |

## Maintenance > Administrator Settings > Console Settings

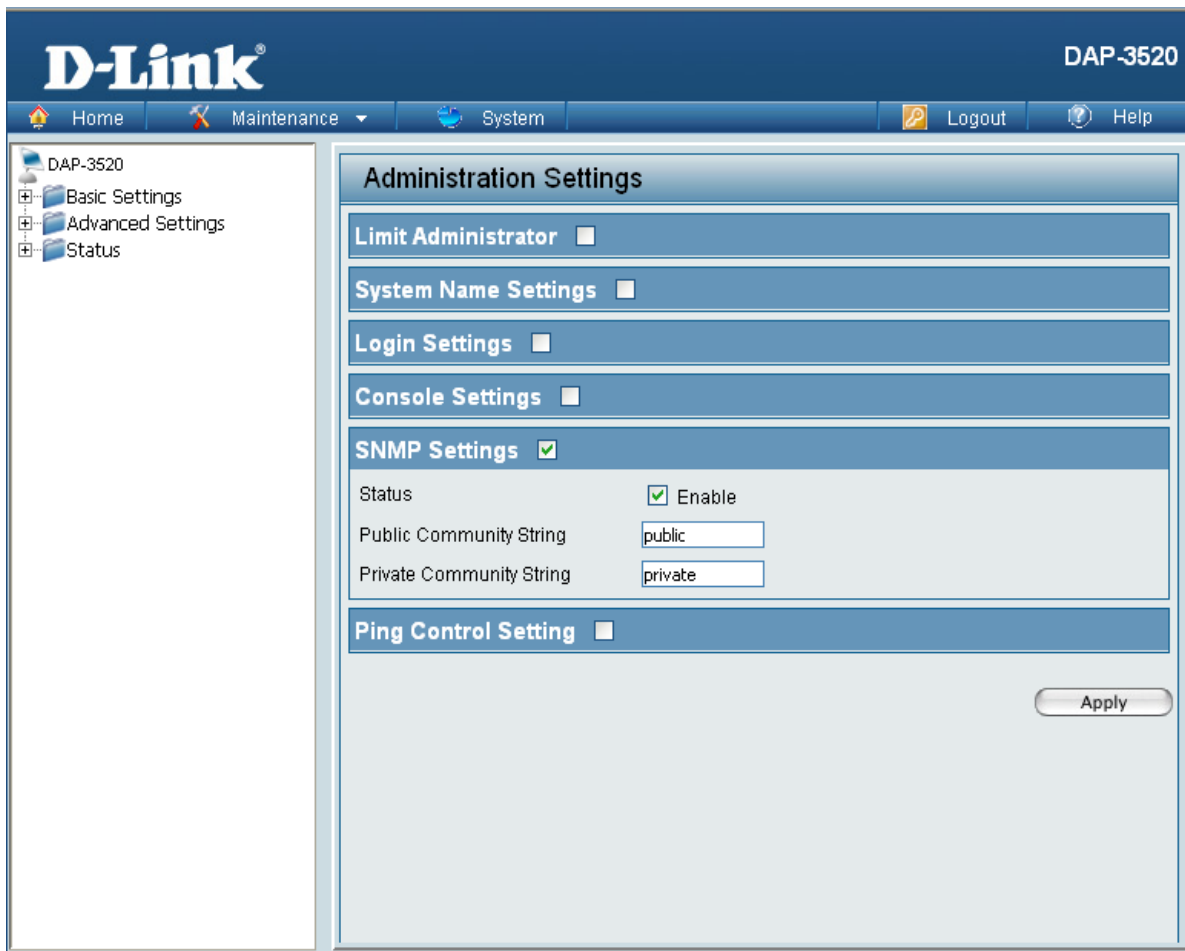


Each of the six main categories display various hidden administrator parameters and settings.

### Console Settings

- |                          |   |
|--------------------------|---|
| <b>Status:</b>           | Status is enabled by default. Uncheck the box to disable the console.                                   |
| <b>Console Protocol:</b> | Select the type of protocol you would like to use, <b>Telnet</b> or <b>SSH</b> .                        |
| <b>Timeout:</b>          | Set to <b>1 Min</b> , <b>3 Mins</b> , <b>5 Mins</b> , <b>10 Mins</b> , <b>15 Mins</b> or <b>Never</b> . |

# Maintenance > Administrator Settings > SNMP Settings

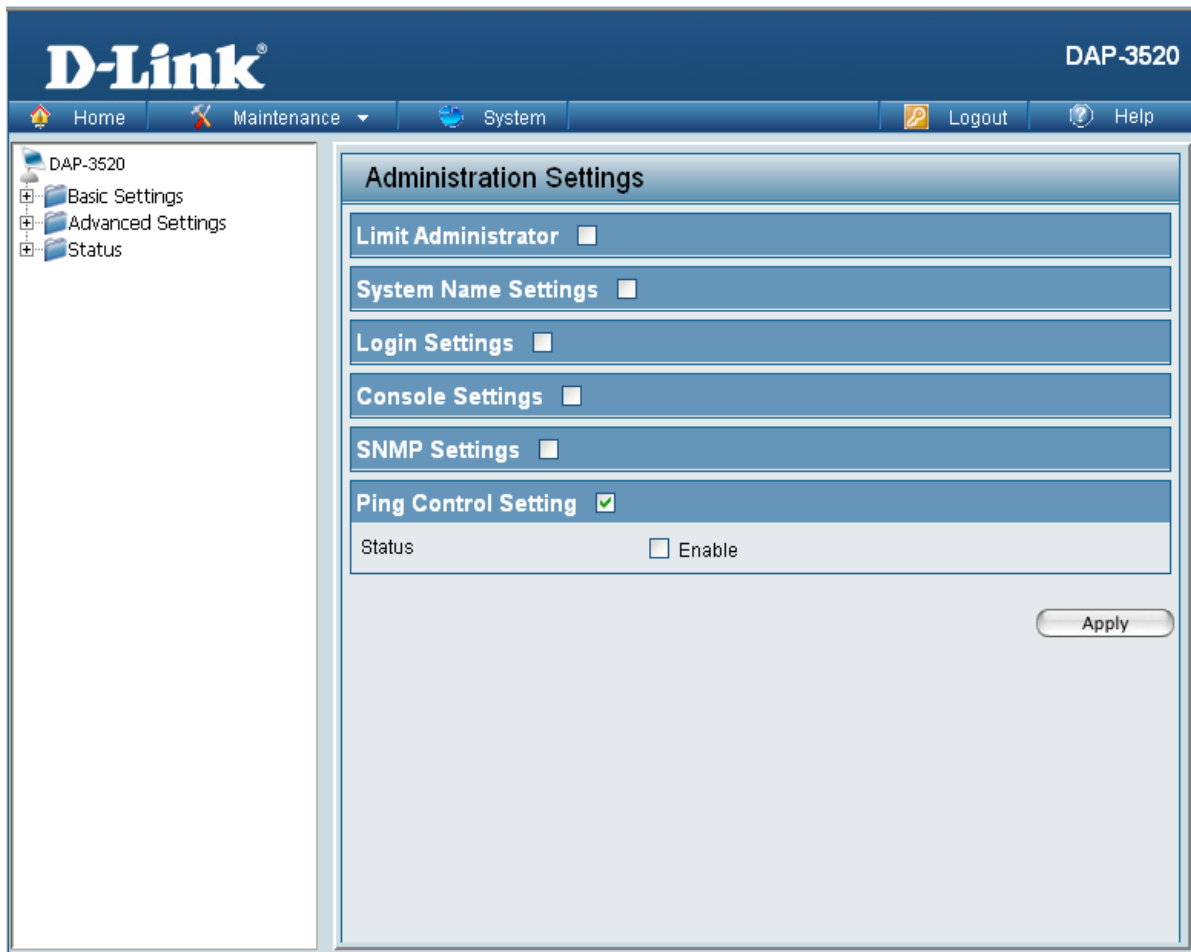


Each of the six main categories display various hidden administrator parameters and settings.

## SNMP Settings

- Status:** Check the box to enable the SNMP functions. This is enabled by default.
- Public Community String:** Enter the public SNMP community string.
- Private Community String:** Enter the private SNMP community string.

# Maintenance > Administrator Settings > Ping Control Setting



Each of the six main categories display various hidden administrator parameters and settings.

## Ping Control Setting

**Status:** | Check the box to enable Ping control.

## Maintenance > Firmware and SSL Certification Upload

The screenshot shows the D-Link configuration web interface for a DAP-3520 device. The top navigation bar includes 'Home', 'Maintenance', 'System', 'Logout', and 'Help'. A left sidebar contains 'DAP-3520', 'Basic Settings', 'Advanced Settings', and 'Status'. The main content area is titled 'Firmware and SSL Certification Upload' and displays the current 'Firmware Version 1.00beta0922'. It features two sections: 'Update Firmware From Local Hard Drive' and 'Update SSL Certification From Local Hard Drive'. Each section has a text input field for the file path, a 'Browse...' button, and an 'Upload' button.

### Upload Firmware From Local Hard Drive:

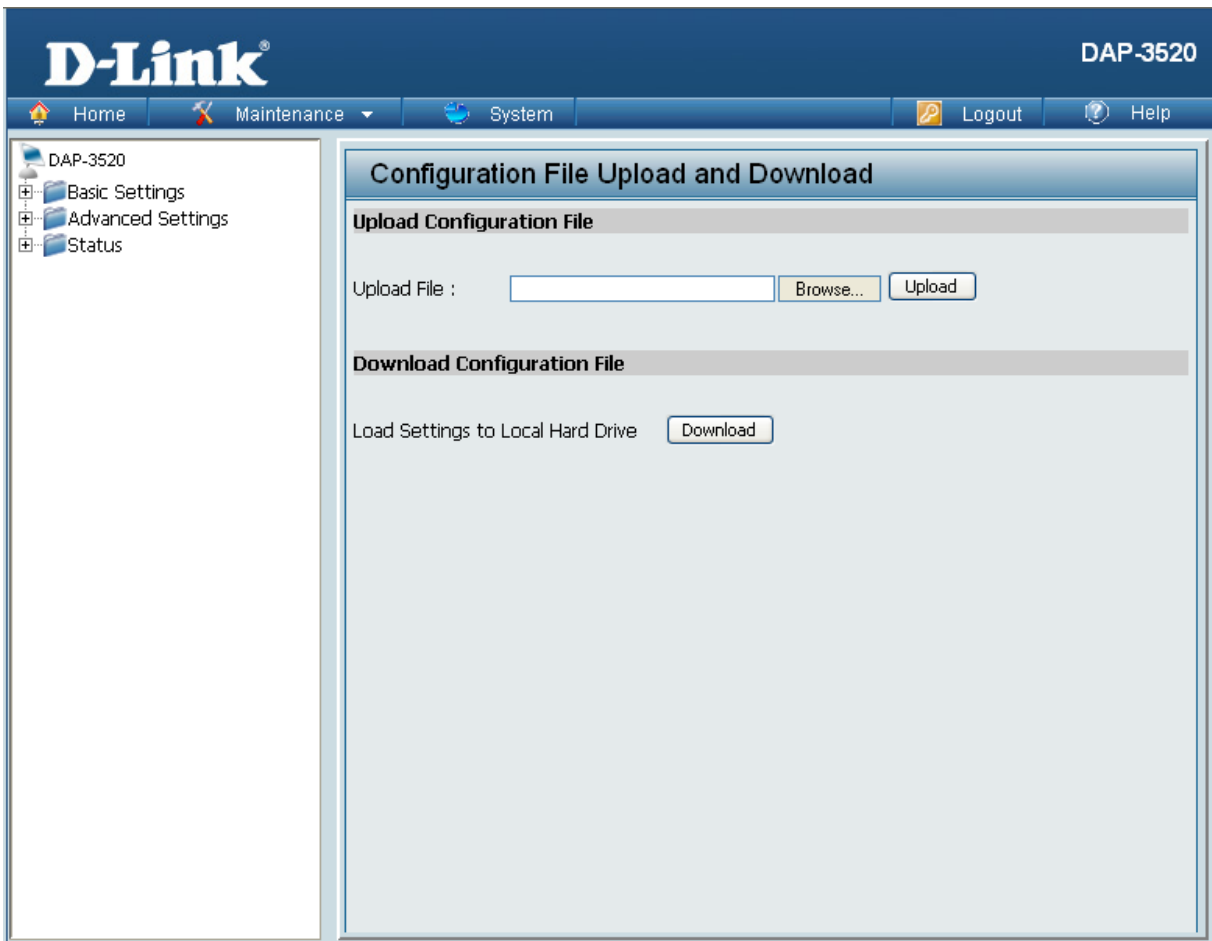
The current firmware version is displayed above the file location field. After downloading the most recent version of firmware for the DAP-3520 from <http://support.dlink.com> to your local computer, use the **Browse** button to locate the firmware file on your computer. Click **Upload** to update the firmware version. Please don't turn the power off while upgrading.

### Upload SSL Certification From Local Hard Drive:

Click **Browse** to locate the SSL Certification file on your local computer. After selecting and opening the file, click **Upload** to upload the file to the DAP-3520.



## Maintenance > Configuration File



**Upload File:** Click the **Browse** button to locate a previously saved configuration file on your local computer. After selecting the file, click **Upload** to apply the configuration settings to the DAP-3520.

**Download Configuration File:** Click **Download** to save the current DAP-3520 configuration to your local computer. Note that if you save one configuration with the administrator's password now, after resetting your DAP-3520, and then updating to this saved configuration file, the password will be gone.

## Maintenance > Time and Date

**D-Link** DAP-3520

Home Maintenance System Logout Help

DAP-3520  
 Basic Settings  
 Advanced Settings  
 Status

### Time and Date Settings

#### Time Configuration

Current Time 01/01/2000 02:39:45

Time Zone (GMT-08:00) Pacific Time (US & Canada); Tijuana

Enable Daylight Saving

Daylight Saving Offset +1:00

| Daylight Saving Dates | Month | Week | Day of Week | Current Time |
|-----------------------|-------|------|-------------|--------------|
| DST Start             | Jan   | 1st  | Sun         | 12 am        |
| DST End               | Jan   | 1st  | Sun         | 12 am        |

#### Automatic Time Configuration

Enable NTP Server

NTP Server  << Select NTP Server

#### Set the Date and Time Manually

Date And Time

|      |      |        |     |        |    |
|------|------|--------|-----|--------|----|
| Year | 2008 | Month  | Oct | Day    | 24 |
| Hour | 17   | Minute | 15  | Second | 8  |

Copy Your Computer's Time Settings

Apply

**Current Time:** Displays the current time and date settings.

**Time Zone:** Use the pull-down menu to select your correct Time Zone.

**Enable Daylight Saving:** Check the box to Enable Daylight Saving Time.

**Daylight Saving Offset:** Use the pull-down menu to select the correct Daylight Saving offset.

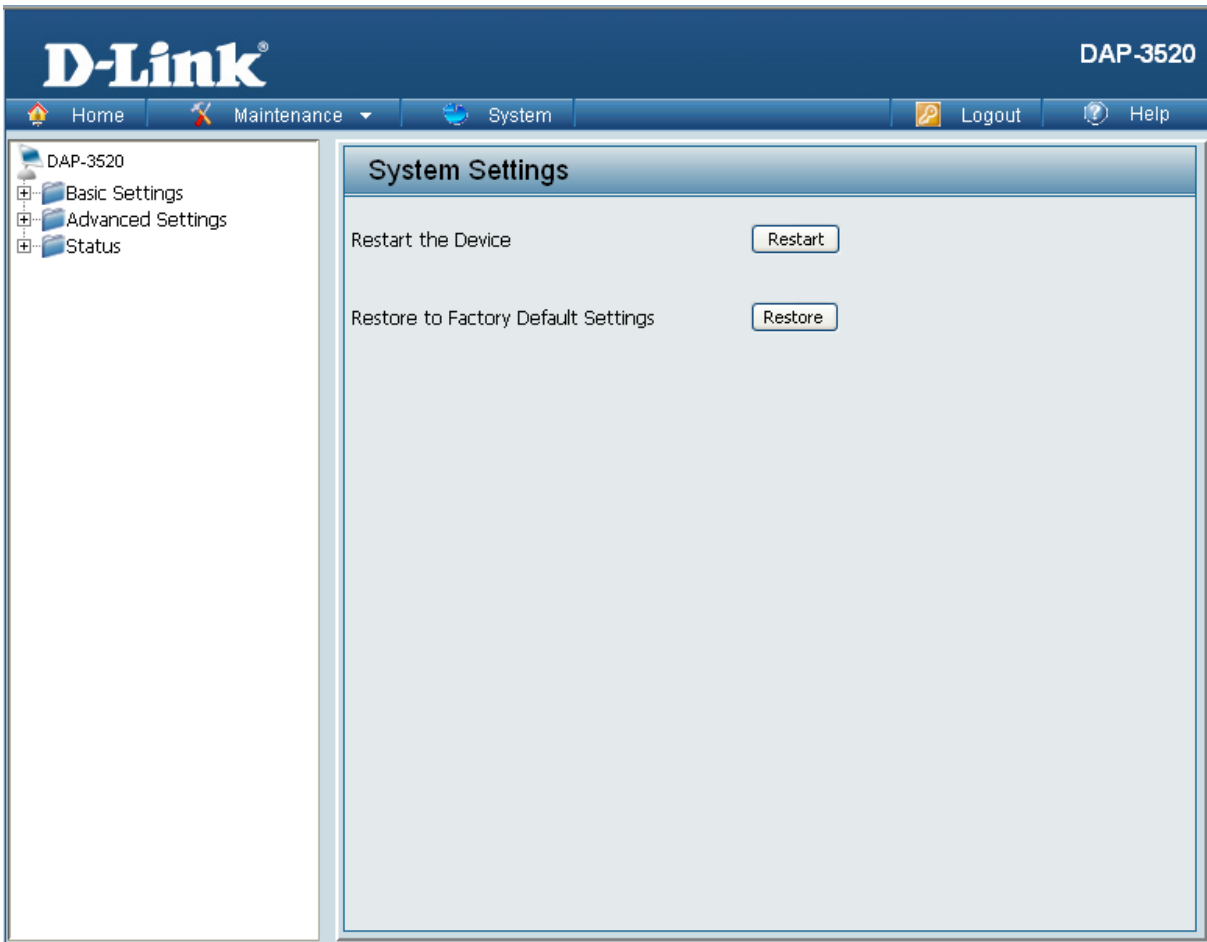
**Daylight Saving Dates:** Use the pull-down menu to select the correct Daylight Saving offset.

**Enable NTP Server:** Check to enable the AP to get system time from an NTP server.

**NTP Server:** Enter the NTP server IP address.

**Set the Date and Time Manually:** You can either manually set the time for your AP here, or you can click the **Copy Your Computer's Time Settings** button to copy the time from the computer you are using (Make sure that the computer's time is set correctly).

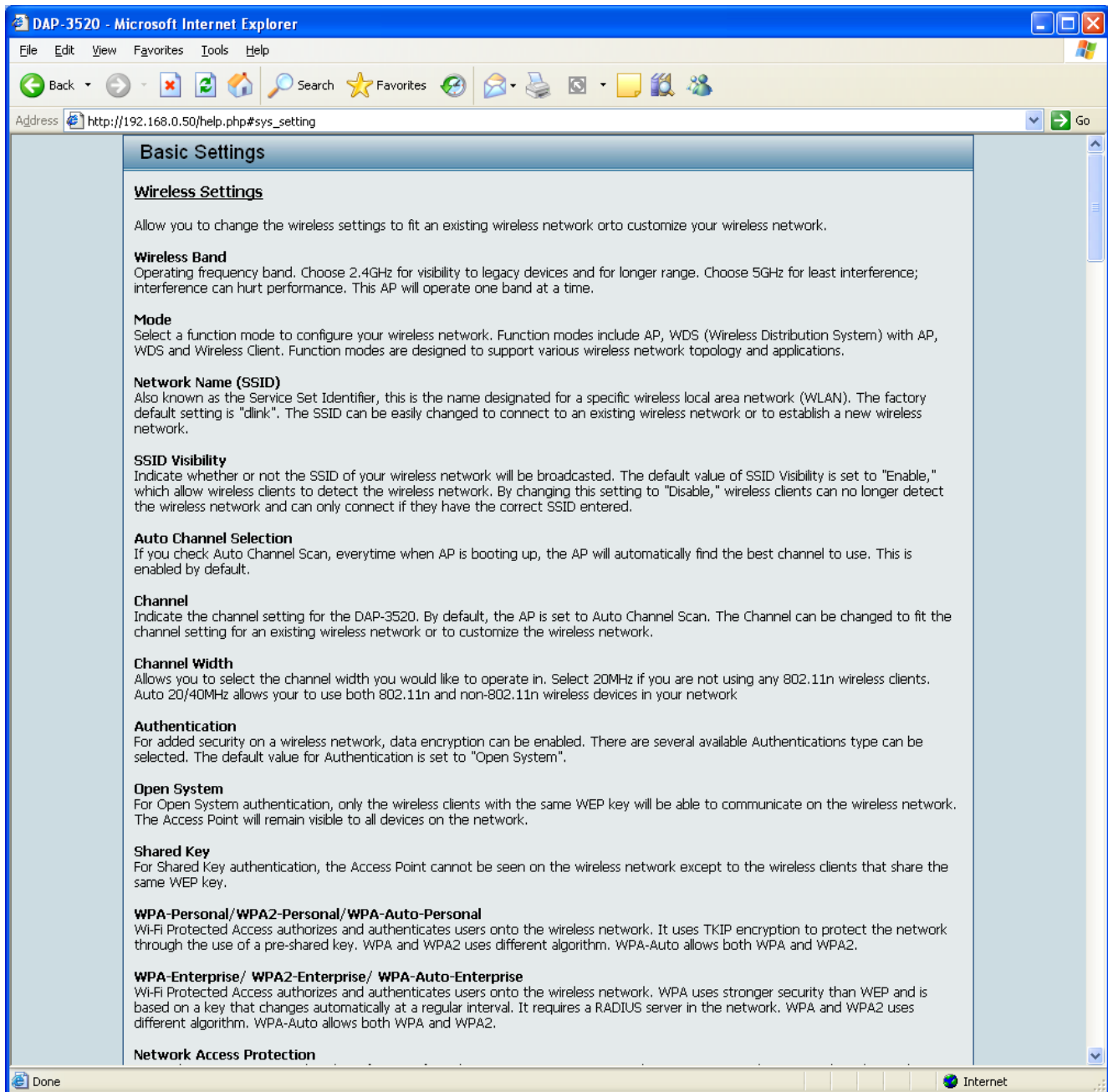
## System > System Settings



**Restart the Device:** Click **Restart** to restart the DAP-3520.

**Restore to Factory Default Settings:** Click **Restore** to restore the DAP-3520 back to factory default settings.

# Help



**Help:** | Scroll down the Help page for topics and explanations.

# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-3520 Wireless Access Point. We will cover various aspects of the network setup, especially the network adapters. Please read the following if you are having any technical difficulties.

Note: It is recommended that you use an Ethernet connection to configure the DAP-3520.

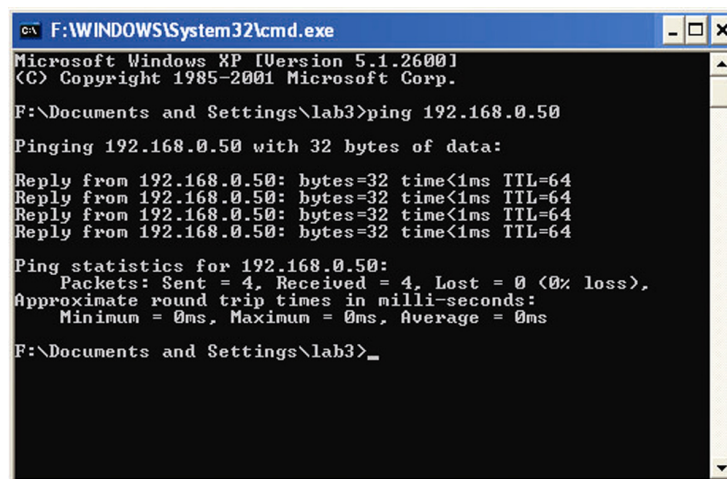
## 1. The computer used to configure the DAP-3520 cannot access the Configuration menu.

- Check if the LAN LED on the DAP-3520 is ON. If the LED is not ON, check if the cable for the Ethernet connection is securely inserted.
- Check if the Ethernet adapter is working properly. Please see item 3 of this Troubleshooting section to check that the drivers for the network adapters are loaded properly.
- Check if the IP address is in the same range and subnet as the DAP-3520.

Note: The default IP address of the DAP-3520 is 192.168.0.50. All the computers on the network must have a unique IP address in the same range, e.g. 192.168.0.x. Any computers that have identical IP addresses will not be visible on the network. They must all have the same subnet mask, e.g. 255.255.255.0.

- Do a Ping test to make sure that the DAP-3520 is responding. Go to **Start>Run>Type Command>Type ping 192.168.0.50**. A successful ping will show four replies.

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



```
ca F:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

F:\Documents and Settings\lab3>ping 192.168.0.50

Pinging 192.168.0.50 with 32 bytes of data:

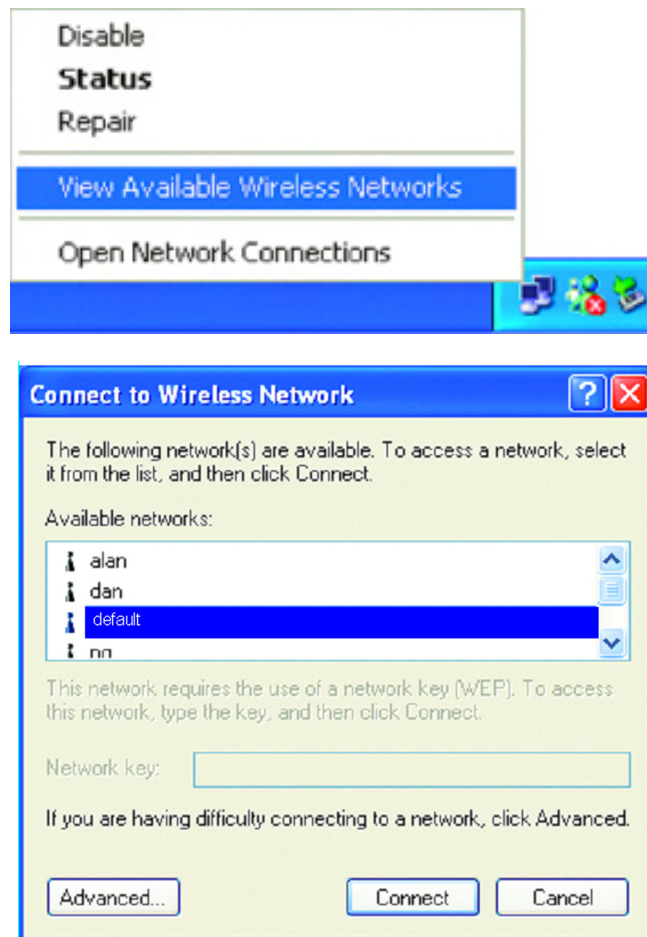
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.50:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

F:\Documents and Settings\lab3>_
```

## 2. The wireless client cannot access the Internet within Infrastructure mode.

Make sure the wireless client is associated and joined with the correct access point. To check this connection, right-click on the **Local Area Connection** icon in the taskbar and select **View Available Wireless Networks**. The **Connect to Wireless Network** screen will appear. Please make sure you have selected the correct available network, as shown in the illustrations below.



- Check that the IP address assigned to the wireless adapter is within the same IP address range as the access point and gateway. Since the DAP-3520 has an IP address of 192.168.0.50, wireless adapters must have an IP address in the same range, e.g. 192.168.0.x. Each device must have a unique IP address; there may be no two devices with the same IP address. The subnet mask must be the same for all the computers on the network. To check the IP address assigned to the wireless adapter, double-click the **Local Area Connection** icon in the taskbar, then select the **Support** tab and the IP address will be displayed.
- If it is necessary to assign a Static IP Address to the wireless adapter. If you are entering a DNS Server address, you must also enter the Default Gateway Address. *Remember that if you have a DHCP-capable router, you will not need to assign a static IP address.*

### 3. What variables may cause my wireless products to lose reception?

D-Link products let you access your network from virtually anywhere you want, however, the positioning of the products within your environment will affect its wireless range.

### 4. Why does my wireless connection keep dropping?

- Antenna Orientation - try different antenna orientations for the DAP-3520. Try to keep the antenna at least 6 inches away from the wall or other objects.
- If you are using 2.4 GHz cordless phones, X-10 equipment or other home security systems, ceiling fans, or lights, your wireless connection will degrade dramatically or even drop. Try changing the channel of your router, access point and wireless adapter to a different channel to avoid interference.
- Keep your product away - at least 3-6 feet - from electrical devices that generate RF noise like microwaves, monitors, electric motors, etc.

### 5. Why can't I get a wireless connection?

If you have enabled encryption on the DAP-3520, you must also enable encryption on all wireless clients in order to establish a wireless connection.

- Make sure that the SSID on the AP and the wireless client are exactly the same. If they are not, wireless connection cannot be established.
- Move the DAP-3520 and the wireless client into the same room and then test the wireless connection.
- Disable all security settings.
- Turn off your DAP-3520 and the client. Turn the DAP-3520 back on again, and then turn on the client.
- Make sure that all devices are set to Infrastructure mode.
- Check that the LED indicators are indicating normal activity. If not, check that the AC power and Ethernet cables are firmly connected.
- Check that the IP address, subnet mask, gateway, and DNS settings are correctly entered for the network.
- If you are using 2.4 GHz cordless phones, X-10 equipment, or other home security systems, ceiling fans, or lights, your wireless connection will degrade dramatically or drop altogether. Try changing the channel on your DAP-3520, and on all the devices in your network to avoid interference.
- Keep your product away - at least 3-6 feet - from electrical devices that generate RF noise like microwaves, monitors, electric motors, etc.



# Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

## Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below ("Hardware") will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below ("Warranty Period"), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

## Limited Software Warranty:

D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of



D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by DLink in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

### **Non-Applicability of Warranty:**

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

#### **Submitting A Claim:**

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-354-6555, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. DLink will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

### **What Is Not Covered:**

The Limited Warranty provided herein by D-Link does not cover:

Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

### **Disclaimer of Other Warranties:**

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

**Limitation of Liability:**

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

**Governing Law:**

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

**Trademarks:**

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**CE Mark Warning:**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

**FCC Statement:**

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

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

**FCC Caution:**

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only.

**IMPORTANT NOTICE:****FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

**Industry Canada Notice:**

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**IMPORTANT NOTE:****Radiation Exposure Statement:**

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

This device has been designed to operate with an antenna having a maximum gain of 8dB for 2.4G and 10dB for 5G. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

### **Federal Communication Commission Interference Statement**

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

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

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

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

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

#### **IMPORTANT NOTE:**

##### **FCC Radiation Exposure Statement:**

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

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

**The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.**

## **Industry Canada Statement**

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

This device has been designed to operate with an antenna having a maximum gain of 8dB for 2.4G and 10dB for 5G.

Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Caution:

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Because high power radars are allocated as primary users (meaning they have priority) in 5250-5350 MHz and 5650-5850 MHz, these radars could cause interference and/or damage to license exempt LAN devices.

## **IMPORTANT NOTE:**

### **IC Radiation Exposure Statement:**

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



### **Federal Communication Commission Interference Statement**

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

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

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

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

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

#### **IMPORTANT NOTE:**

##### **FCC Radiation Exposure Statement:**

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

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

**The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.**

**以下警語適用台灣地區：**

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

在5.25-5.35 GHz頻帶內操作之無線資訊傳輸設備，限於室內使用。  
此器材須經專業安裝並限用於固定式點對點操作。

## **Industry Canada Statement**

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

This device has been designed to operate with an antenna having a maximum gain of .9.7dBi

Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Caution:

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Because high power radars are allocated as primary users (meaning they have priority) in 5250-5350 MHz and 5650-5850 MHz, these radars could cause interference and/or damage to license exempt LAN devices.

## **IMPORTANT NOTE:**

### **IC Radiation Exposure Statement:**

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

## FCC ANTENNA USAGE AND TRANSMIT POWER

To comply with FCC telecommunication regulation, the conducted output power of this transmitter, when use with each specific antenna supplied, cannot exceed the maximum limit indicated in the following tables.

1.

| Antenna Set 1 (Internal antenna):  |                            |                           |                       |                     |              |               |
|--|----------------------------|---------------------------|-----------------------|---------------------|--------------|---------------|
| Transmitter Circuit  | Manufacture                | Antenna Model             | For 2.4GHz Gain (dBi) | For 5GHz Gain (dBi) | Antenna Type | Connector     |
| Chain(0)   | SmartAnt Telecom Co., Ltd. | DWL08-220190              | 8                     | 10                  | PCB          | MMCX R/A plug |
| Chain (1)  | SmartAnt Telecom Co., Ltd. | DWL08-220190              | 8                     | 10                  | PCB          | MMCX R/A plug |
| Antenna Set 2 (External antenna):  |                            |                           |                       |                     |              |               |
| Transmitter Circuit  | Manufacture                | Antenna Model             | Antenna Gain          | Only 2.4GHz         | Antenna Type | Connector     |
| Chain(0)   | SmartAnt Telecom Co., Ltd. | ANT24-0800 (DWL07-050660) | Gain (dBi)            | 8                   | DIPOLE       | N-jack        |
|  |                            |                           | Cable Loss (dB)       | 3                   |              |               |
|  |                            |                           | Net Gain (dBi)        | 5                   |              |               |
|  |                            |                           | Cable length (m)      | 6                   |              |               |
| Chain(1)   | SmartAnt Telecom Co., Ltd. | ANT24-0800 (DWL07-050660) | Gain (dBi)            | 8                   | DIPOLE       | N-jack        |
|  |                            |                           | Cable Loss (dB)       | 3                   |              |               |
|  |                            |                           | Net Gain (dBi)        | 5                   |              |               |
|  |                            |                           | Cable length (m)      | 6                   |              |               |
| Note: While EUT connect with antenna set 2, the function of antenna set 1 were lose. |                            |                           |                       |                     |              |               |

| Wireless Mode | Antenna Gain                              | Certified Antenna Configurations |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | Maximum Conducted Transmit Power |           |           |
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| IEEE 802.11b  | DWL08-220190, PCB antenna                 | 23.55 dBm                        | 26.95 dBm | 23.64 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 22.60 dBm                        | 24.80 dBm | 21.12dBm  |

| Wireless Mode | Antenna Gain                              | Maximum Conducted Transmit Power |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | Maximum Conducted Transmit Power |           |           |
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| IEEE 802.11g  | DWL08-220190, PCB antenna                 | 26.36 dBm                        | 25.85 dBm | 26.37 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 25.42 dBm                        | 27.06 dBm | 23.76 dBm |

| Wireless Mode | Antenna Gain | Maximum Conducted Transmit Power |
|---------------|--------------|----------------------------------|
|---------------|--------------|----------------------------------|

|             |   | 2412MHz   | 2437Hz    | 2462MHz   |
|-------------|---|-----------|-----------|-----------|
| 2.4GHz HT20 | DWL08-220190, PCB antenna                 | 26.62 dBm | 25.68 dBm | 25.38 dBm |
|             | ANT24-0800 (DWL07-050660), DIPOLE antenna | 25.81 dBm | 27.08 dBm | 24.14 dBm |

| Wireless Mode | Antenna Gain                              | Maximum Conducted Transmit Power |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| 2.4GHz HT40   | DWL08-220190, PCB antenna                 | 23.95 dBm                        | 26.51 dBm | 25.08 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 23.77 dBm                        | 26.01 dBm | 22.90Bm   |

| Wireless Mode | Antenna Gain              | Maximum Conducted Transmit Power |        |         |
|---------------|---------------------------|----------------------------------|--------|---------|
|               |                           | 5745MHz                          | 5785Hz | 5825MHz |
| IEEE 802.11a  | DWL08-220190, PCB antenna | 24.25                            | 24.54  | 25.81   |

| Wireless Mode | Antenna Gain              | Maximum Conducted Transmit Power |        |         |
|---------------|---------------------------|----------------------------------|--------|---------|
|               |                           | 5745MHz                          | 5785Hz | 5825MHz |
| 5GHz HT20     | DWL08-220190, PCB antenna | 24.14                            | 24.38  | 25.34   |

| Wireless Mode | Antenna Gain              | Maximum Conducted Transmit Power |        |
|---------------|---------------------------|----------------------------------|--------|
|               |                           | 5755MHz                          | 5795Hz |
| 5GHz HT40     | DWL08-220190, PCB antenna | 23.54                            | 24.54  |

## RSS-210 ANTENNA USAGE AND TRANSMIT POWER

To comply with RSS-210 telecommunication regulation, the conducted output power of this transmitter, when use with each specific antenna supplied, cannot exceed the maximum limit indicated in the following tables.

| Wireless Mode | Antenna Gain                              | Certified Antenna Configurations |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | Maximum Conducted Transmit Power |           |           |
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| IEEE 802.11b  | DWL08-220190, PCB antenna                 | 23.55 dBm                        | 26.95 dBm | 23.64 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 22.60 dBm                        | 24.80 dBm | 21.12dBm  |

| Wireless Mode | Antenna Gain                              | Maximum Conducted Transmit Power |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | Maximum Conducted Transmit Power |           |           |
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| IEEE 802.11g  | DWL08-220190, PCB antenna                 | 26.36 dBm                        | 25.85 dBm | 26.37 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 25.42 dBm                        | 27.06 dBm | 23.76 dBm |

| Wireless Mode | Antenna Gain                              | Maximum Conducted Transmit Power |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | Maximum Conducted Transmit Power |           |           |
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| 2.4GHz HT20   | DWL08-220190, PCB antenna                 | 26.62 dBm                        | 25.68 dBm | 25.38 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 25.81 dBm                        | 27.08 dBm | 24.14 dBm |

| Wireless Mode | Antenna Gain                              | Maximum Conducted Transmit Power |           |           |
|---------------|---|----------------------------------|-----------|-----------|
|               |   | Maximum Conducted Transmit Power |           |           |
|               |   | 2412MHz                          | 2437Hz    | 2462MHz   |
| 2.4GHz HT40   | DWL08-220190, PCB antenna                 | 23.95 dBm                        | 26.51 dBm | 25.08 dBm |
|               | ANT24-0800 (DWL07-050660), DIPOLE antenna | 23.77 dBm                        | 26.01 dBm | 22.90Bm   |

| Wireless Mode | Antenna Gain              | Maximum Conducted Transmit Power |        |         |
|---------------|---------------------------|----------------------------------|--------|---------|
|               |                           | 5745MHz                          | 5785Hz | 5825MHz |
| IEEE 802.11a  | DWL08-220190, PCB antenna | 24.25                            | 24.54  | 25.81   |

| Wireless Mode | Antenna Gain              | Maximum Conducted Transmit Power |        |         |
|---------------|---------------------------|----------------------------------|--------|---------|
|               |                           | 5745MHz                          | 5785Hz | 5825MHz |
| 5GHz HT20     | DWL08-220190, PCB antenna | 24.14                            | 24.38  | 25.34   |

| Wireless Mode | Antenna Gain              | Maximum Conducted Transmit Power |        |
|---------------|---------------------------|----------------------------------|--------|
|               |                           | 5755MHz                          | 5795Hz |
| 5GHz HT40     | DWL08-220190, PCB antenna | 23.54                            | 24.54  |

# Registration



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

Version 1.0  
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# Technical Support

You can find software updates and user documentation on the D-Link website.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

## **Tech Support for customers within the United States:**

D-Link Technical Support over the Telephone:  
(877) 354-6555

D-Link Technical Support over the Internet:  
<http://support.dlink.com>

## **Tech Support for customers within Canada:**

D-Link Technical Support over the Telephone:  
1-877-354-6560

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