



User Manual

Gaming Router AC1300

DGL-5500

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	August 14, 2013	• Initial release for Revision A1 (based on Firmware v1.01 B5)
1.1	March 11, 2014	• Update for Firmware Version 1.11

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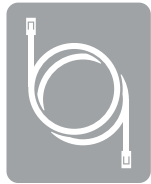
Package Contents



DGL-5500 Wireless AC1300 Gaming Router



Power Adapter



Ethernet Cable



Wi-Fi Configuration Card



Quick Install Guide

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

Note: Using a power supply with a different voltage rating than the one included with the DGL-5500 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none">• An Ethernet-based broadband modem
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An installed Ethernet adapter or wireless adapter <p>Supported Browsers:</p> <ul style="list-style-type: none">• Internet Explorer 7 or higher• Firefox• Safari 4 or higher• Chrome <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>

Introduction

The DGL-5500 Wireless AC1300 Gaming Router provides revolutionary Gigabit 802.11ac wireless speed - up to 1300Mbps – for flawless HD video streaming to multiple devices.

The integrated StreamBoost QoS™ engine intelligently prioritizes bandwidth to make lag and buffering a thing of the past. StreamBoost manages your connection automatically, and gives you the power to manually route more bandwidth to a specific activity – or even to a specific device – intuitively creating optimal allocation. This means lag-free gaming, crystal clear FaceTime® calls, and ultra smooth HD streaming.

What does Wireless AC mean for your home network? Flawless HD video streaming, faster gaming, and lag-free Skype™ and Facetime calls, all with less Wi-Fi interference for smooth, lightning-fast performance. And while your home gains all the cutting-edge benefits of AC, the Wireless AC1300 Dual Band Gigabit Cloud Router is also compatible with all of your current Wireless N products. And with four Gigabit ports, you can give your media players and gaming consoles more speed than you dreamed possible.

The DDGL-5500 router delivers Dual Band Technology for intelligent, versatile, interference-free bandwidth. Check your email and surf the Internet on the 2.4GHz band; or game, make Skype™ calls and stream HD movies to multiple devices using the cleaner, interference-free 5GHz band. Whatever you like to do online, Dual Band has you covered.

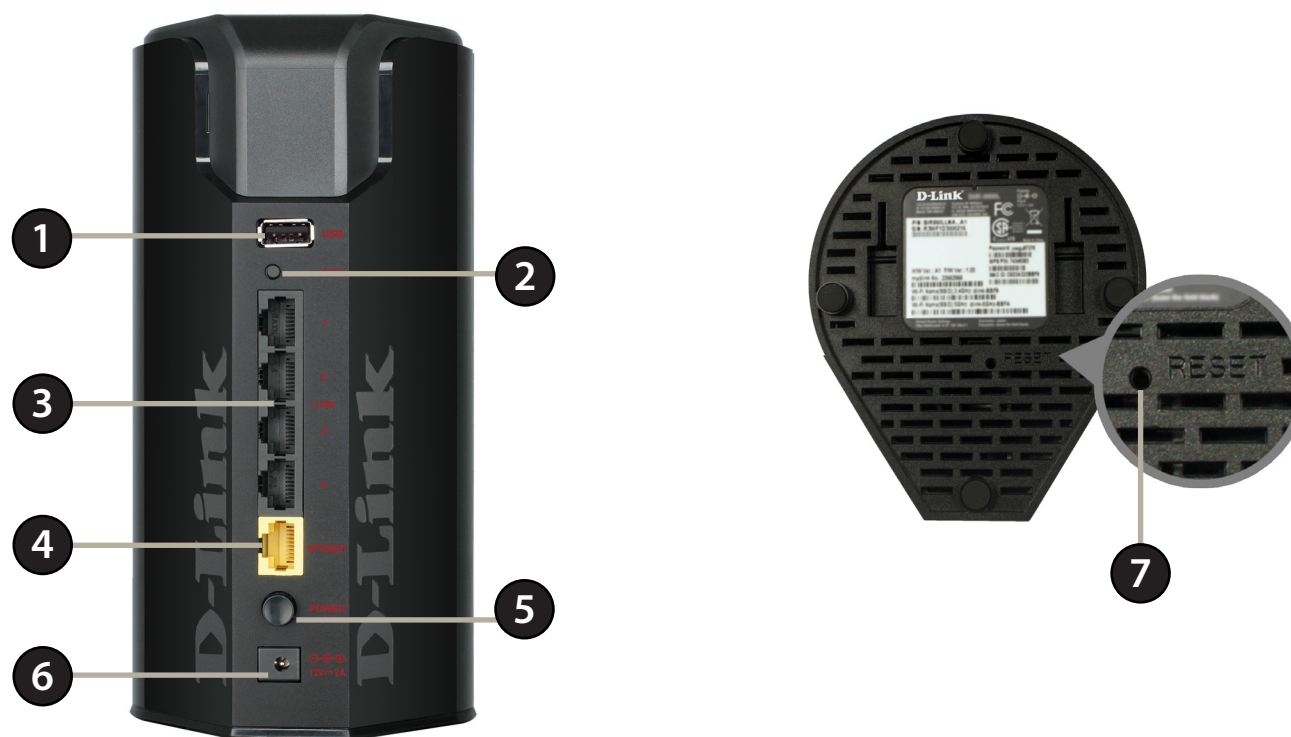
How is StreamBoost QoS (Quality of Service) Different from other QoS Techniques?

- StreamBoost classifies applications and traffic shapes the network to the necessary bandwidth and latency for optimal performance with each application. Most QoS schemes today assign bandwidth by priority, which simply allows a specific application to dominate the network. The difference is that StreamBoost can optimize the network for various simultaneous applications, where prioritization can only optimize for the top priority application. Take a typical example with 3 different simultaneous applications: 2 streaming videos and a media download. Traditional QoS will generally prioritize one application and in most cases, only 1 video stream will play uninterrupted while the other 2 applications have to compete for the remaining bandwidth with inconsistent results. Since StreamBoost applies traffic shaping techniques, both video streams will be allocated the bandwidth needed to ensure simultaneous, uninterrupted performance, and the download will be given all the bandwidth that is left over.
- StreamBoost application detection and traffic shaping automatically and dynamically optimizes the network, rather than requiring manual entry or configuration of QoS settings.
- StreamBoost identifies new applications and devices on your network and updates automatically as long as you are opted into the StreamBoost cloud service. StreamBoost cloud service ensures that the StreamBoost router is able to keep up with the complex and dynamic nature of the Internet, applications and devices. Traditional QoS requires that any updates are applied by the user initiating a firmware update.

* Maximum wireless signal rate derived from IEEE Standard 802.11ac (draft), 802.11a, 802.11g, and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Hardware Overview

Connections

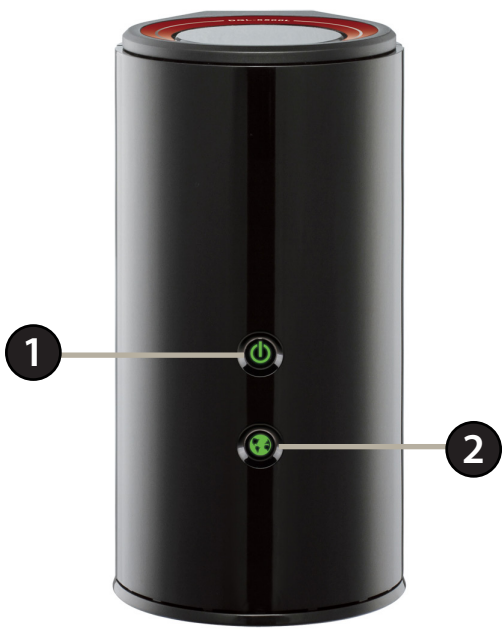


1	USB Port	Connect a USB flash drive or a USB printer to share with other users on your network.*
2	WPS Button	Press to start the WPS process. The Power LED will start to blink.
3	LAN Ports (1-4)	Connect Ethernet devices such as computers, switches, and game consoles.
4	Internet Port	Connect your broadband modem to this port using an Ethernet cable.
5	Power Button	Press to power the router on and off.
6	Power Port	Connect the supplied power adapter.
7	Reset Button	Press and hold the reset button with a paper clip for six seconds to reset the router to the factory default settings.

***Note:** The SharePort™ Plus Utility should be installed on the computer or computers that you would like to use the USB devices with. For devices other than USB storage, only one user can be connected to a USB device at a time. Refer to [“Media Server” on page 43](#) for more information.

Hardware Overview

LEDs



1	Power LED	A solid green light indicates a proper connection to the power supply. The light will be solid orange during boot-up and will blink green during the WPS process.
2	Internet LED	A solid green light indicates a connection to the Internet port. If the LED is orange, the connection is good but the router cannot connect to the Internet.

Installation

This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, or in the attic or garage.

Before you Begin

- **Users with DSL providers** - If you are using a PPPoE connection, you will need your PPPoE user name and password. If you do not have this information, contact your Internet provider. Do not proceed until you have this information.
- **Users with Cable providers** - Make sure you unplug the power to your modem. In some cases, you may need to turn it off for up to 5 minutes.
- **Advanced Users** - If your ISP provided you with a modem/router combo, you will need to set it to “bridge” mode so the DGL-5500 router can work properly. Please contact your ISP or refer to the user manual for your modem/router device.

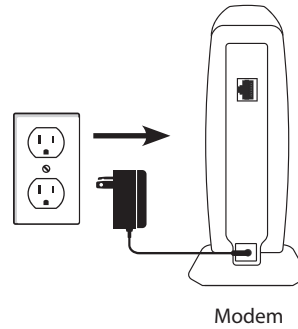
Wireless Installation Considerations

The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. 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:

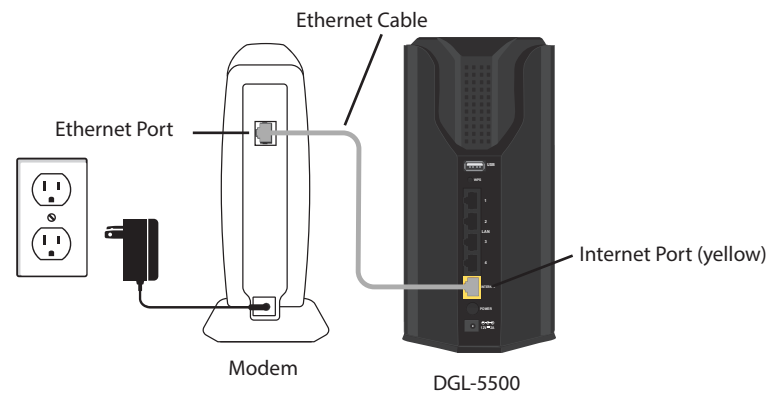
1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
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 2.4GHz 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 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Connect to your Network

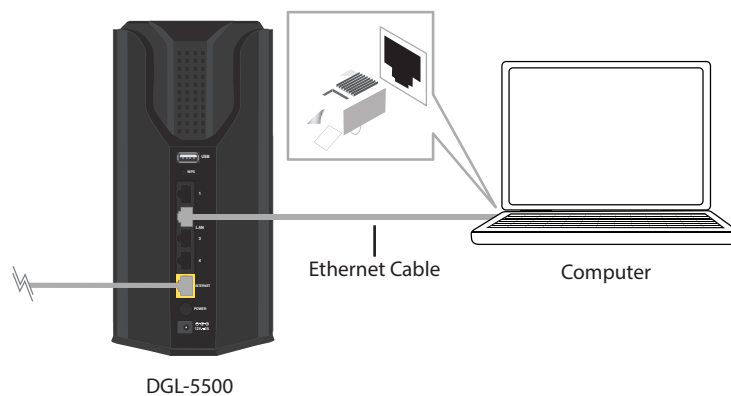
1. Turn off and unplug your DSL or Cable modem. This is required.



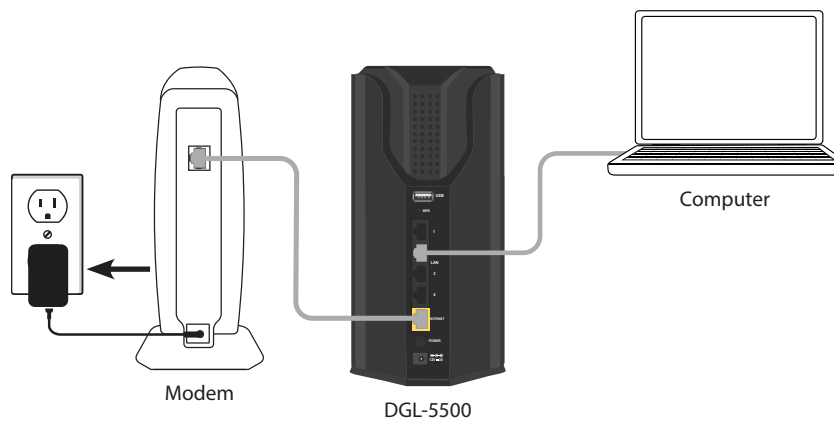
2. Connect an Ethernet cable from the Internet port of the router to the Ethernet port on your DSL or Cable modem.



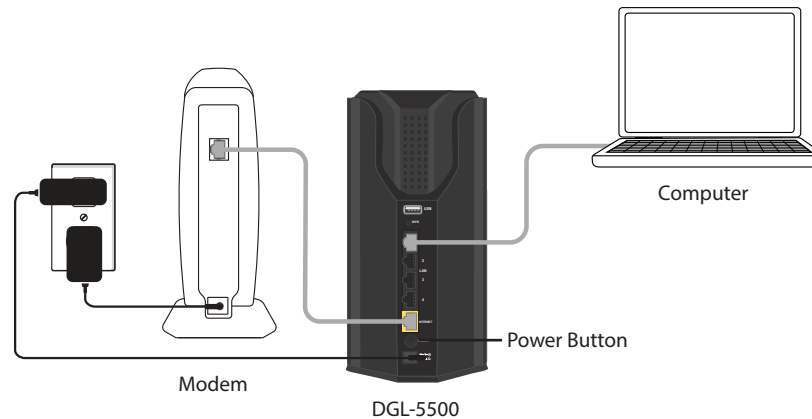
3. Connect another Ethernet cable from the Ethernet port on your computer to one of the LAN ports on the router.



4. Plug the power back into your DSL or Cable modem. Please wait about one minute before continuing.



5. Plug the power adapter into your router and connect to an available power outlet or surge protector. If the Power LED does not light up, press the Power button on the back of the router.



6. After the router has powered up, verify that the power (green) and Internet (orange or green) LEDs are both lit. Skip to [“Web-based Configuration Utility” on page 19](#) to use the manual setup procedure to configure your network and wireless settings. If you did not connect to the Internet, use the D-Link Setup Wizard ([refer to “Quick Setup Wizard” on page 14](#)).

Connect to an Existing Router

Note: *It is strongly recommended to replace your existing router with the DGL-5500 instead of using both. If your modem is a combo router, you may want to contact your ISP or refer to the manufacturer's user guide to put the router into Bridge mode, which will 'turn off' the router (NAT) functions.*

If you are connecting the DGL-5500 router to an existing router to use as a wireless access point and/or switch, you will have to do the following to the DGL-5500 before connecting it to your network:

- Disable UPnP™
- Disable DHCP
- Change the LAN IP address to an available address on your network. The LAN ports on the router cannot accept a DHCP address from your other router.

To connect to another router, please follow the steps below:

1. Plug the power into the router. Connect one of your computers to the router (LAN port) using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the **Networking Basics** section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.
2. Open a web browser, enter **http://192.168.0.1** (or **http://dlinkrouter.local./**) and press **Enter**. When the login window appears, set the user name to **Admin** and leave the password box empty. Click **Log In** to continue.
3. Click on **Advanced** and then click **Firewall Settings**. Uncheck the **Enable UPnP** checkbox. Click **Save Settings** to continue and then click **Restart Later**.
4. Click **Setup** and then click **Network Settings**. Uncheck the **Enable DHCP Server** checkbox. Click **Save Settings** to continue.

5. Under *Router Settings*, enter an available IP address and the subnet mask of your network. Click **Save Settings** to save your settings and then click **Restart Now**. You will need to use this new IP address to access the configuration utility of the router in the future. Close the browser and change your computer's IP settings back to the original values as in Step 1.
6. Disconnect the Ethernet cable from the router and reconnect your computer to your network.
7. Connect an Ethernet cable in one of the **LAN** ports of the router and connect it to your other router. Do not plug anything into the Internet (WAN) port of the D-Link router.
8. You may now use the other three LAN ports to connect other Ethernet devices and computers. To configure your wireless network, open a web browser and enter the IP address you assigned to the router. Refer to the **Configuration** section for more information on setting up your wireless network.

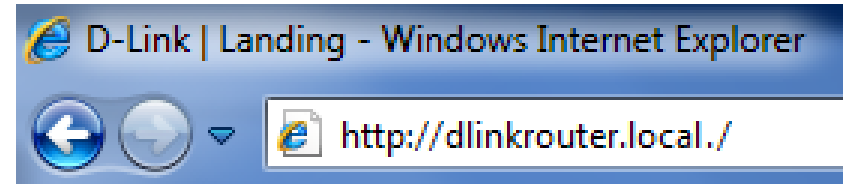
Configuration

There are several different ways you can configure your router to connect to the Internet and connect to your clients:

- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time. Refer to the next page.
- **Manual Setup** - Log into the router and manually configure your router (advanced users only). Refer to ["Web-based Configuration Utility" on page 19](#).

Quick Setup Wizard

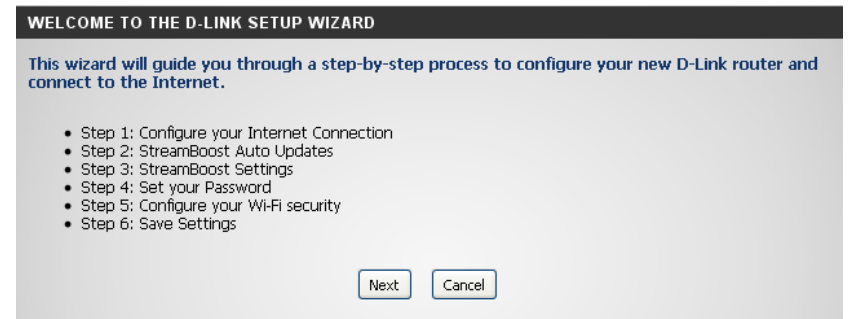
If this is your first time installing the router, launch your web browser (e.g., Internet Explorer, Firefox, Safari, and Chrome), and enter **http://dlinkrouter.local/** or the router's IP address (default is 192.168.0.1). XP users should enter **http://dlinkrouter**.



If this is your first time logging into the router, this wizard will start automatically.

Note: *If you are directed to the login screen, you have a dynamic connection, and the Internet LED is green, you should be connected to the Internet and do not need to continue with the Quick Setup Wizard.*

Click **Next** to continue.



Please wait while your router detects your internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password. (See instructions on page 16 for PPPoE and Static IP).

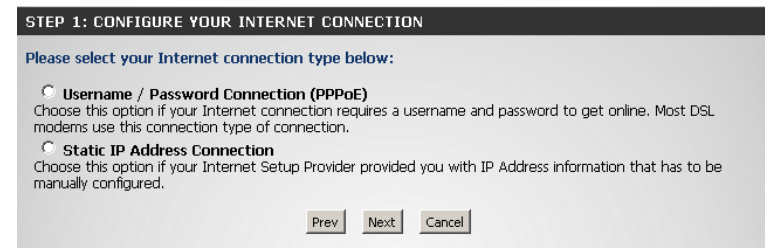
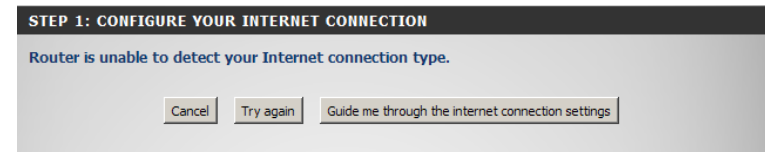
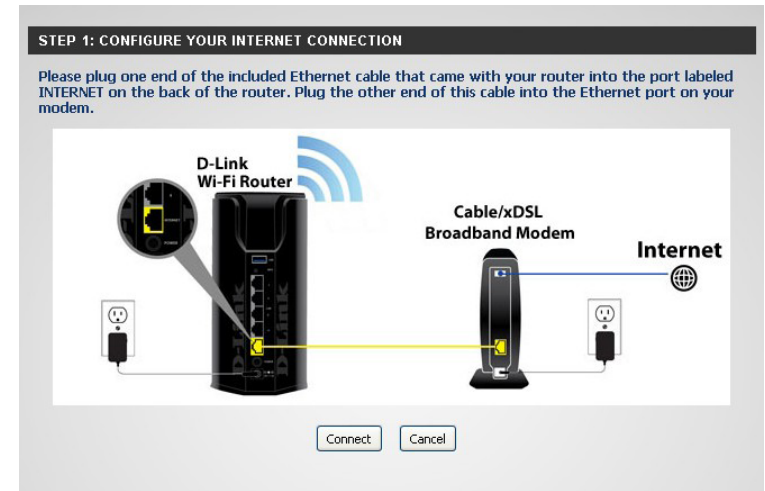


If the router does not detect a valid Ethernet connection from the Internet port, this screen will appear. Connect your broadband modem to the Internet port and then click **Connect**.

If the router detects an Ethernet connection but does not detect the type of Internet connection you have, this screen will appear. Click **Guide me through the Internet Connection Settings** to display a list of connection types to choose from.

Select your Internet connection type. If you are using a PPPoE connection (common with DSL) you can select **Username / Password Connection (PPPoE)**, or select **Static IP Address Connection** if your IP settings are supplied to you by your ISP.

Click **Next** to continue.



If the router detected or you selected **PPPoE**, enter your PPPoE **User Name** and **Password** and click **Next** to continue.

Note: Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

If the router detected or you selected **Static**, enter the IP and DNS settings supplied by your ISP. Click **Next** to continue.

Check the box by either **Yes, I want StreamBoost updates** or **No, I do not wish to receive updates**. Click **Next** to continue.

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

To set up this connection you will need to have a Username and Password from your Internet Service Provider. If you do not have this information, please contact your ISP.

User Name :

Password :

SET STATIC IP ADDRESS CONNECTION

To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.

IP Address :

Subnet Mask :

Gateway Address :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

STEP 2: STREAMBOOST AUTO UPDATES

Maximize your online experience by keeping StreamBoost up to date.

Check below to enable your router to receive automatic StreamBoost updates during your initial 3-year manufacturer service term. The 3-year service term will start on the day the router is purchased but in no event will be valid beyond April 1st, 2017. (After the 3-year period, further updates may be made available from the manufacturer via firmware updates.) StreamBoost updates may help improve your router's Internet traffic management capabilities through better traffic identification and bandwidth management techniques. In exchange, your StreamBoost enabled router will send Qualcomm Atheros, Inc. anonymous information from your router. If you decline, you can find updates through software or firmware postings from your router's manufacturer.

[Learn More.](#)

Would you like to receive StreamBoost auto updates?

☐ Yes, I want StreamBoost updates. I opt-in to data analysis and updates.

☐ No, I do not wish to receive updates.

You can keep the **Enable Auto Bandwidth Estimation** box checked to auto-detect your bandwidth. Uncheck the box to manually enter your download and upload speeds below. Unchecking it enables the **Test Bandwidth** button. Click this button if you want the router to detect your speeds and populate the fields for *Download Speed* and *Upload Speed*. After processing is completed, click **Next** to continue.

Note: When you check the box to Enable Auto Bandwidth Estimation, you enable continuous testing that consumes greater than normal bandwidth.

In order to secure your router, enter a new password. Check the **Enable Graphical Authentication** box to enable CAPTCHA authentication for added security. Click **Save** to continue.

Enter a **Wi-Fi Network Name** (SSID) and **Wi-Fi Password** for both the 2.4GHz and 5GHz bands. Click **Next** to continue.

STEP 3: STREAMBOOST SETTINGS

Enable StreamBoost Bandwidth Control : ☒

Enable Auto Bandwidth Estimation : ☒ (Checking this box will enable testing that will consume bandwidth beyond normal usage)

Download Speed(Mbps) :

Upload Speed(Mbps) :

STEP 4: SET YOUR PASSWORD

By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below, and enabling CAPTCHA Graphical Authentication provides added security protection to prevent unauthorized online users and hacker software from accessing your network settings.

Password :

Verify Password :

Enable Graphical Authentication : ☐

STEP 5: CONFIGURE YOUR WI-FI SECURITY

Give your Wi-Fi network a name and a password. (2.4GHz Band)

Wi-Fi Network Name (SSID) : (Using up to 32 characters)

Wi-Fi Password : (Between 8 and 63 characters)

Give your Wi-Fi network a name and a password. (5GHz Band)

Wi-Fi Network Name (SSID) : (Using up to 32 characters)

Wi-Fi Password : (Between 8 and 63 characters)

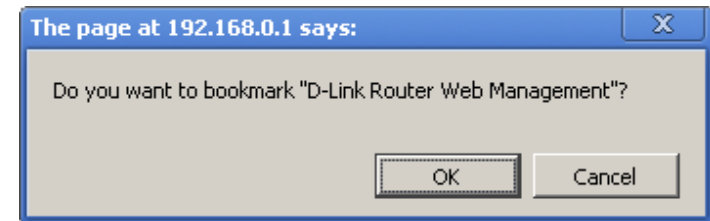
Click **Connect** to finish your router setup.



After the settings are saved, your router will reboot.

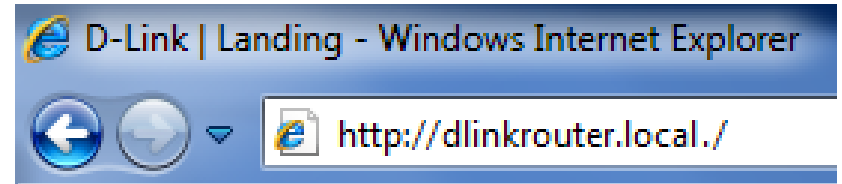


If you want to create a bookmark to the router, click **OK**. Click **Cancel** if you do not want to create a bookmark.



Web-based Configuration Utility

Open a web browser (e.g., Internet Explorer, Chrome, Firefox, or Safari) and enter **http://dlinkrouter.local/** or **http://192.168.0.1**. Windows XP users should enter **http://dlinkrouter**.



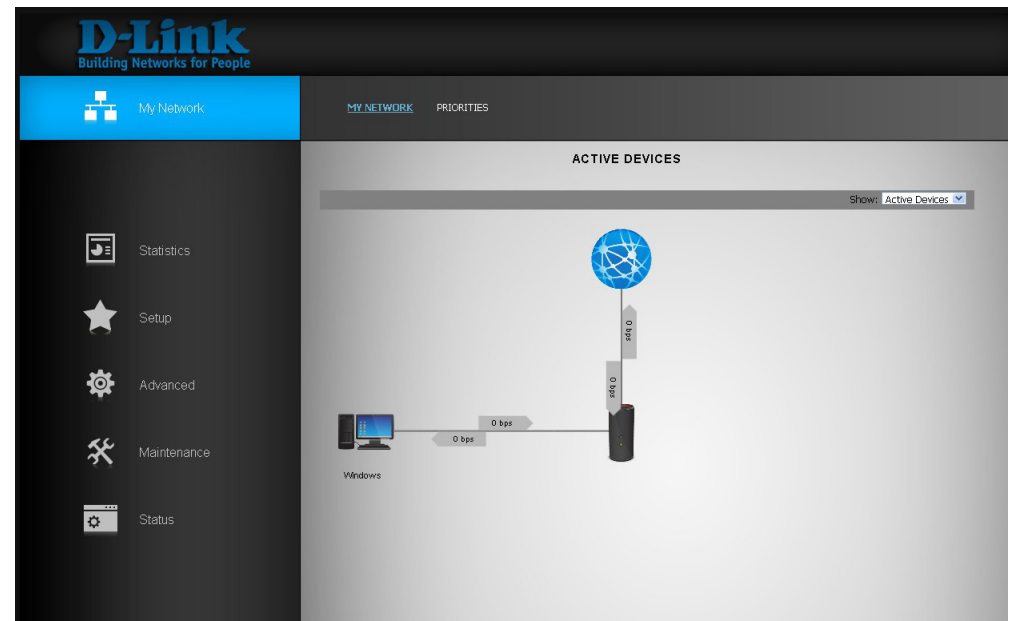
Enter your password and click **Login**.

Note: If you did not create a password with the Setup Wizard, leave the password blank by default.



The *My Network* page will display a graphical layout of your network. Note that devices connected to the router must be transmitting/receiving data to show up. You can click on any of the devices for more information such as IP address, MAC address, and data statistics.

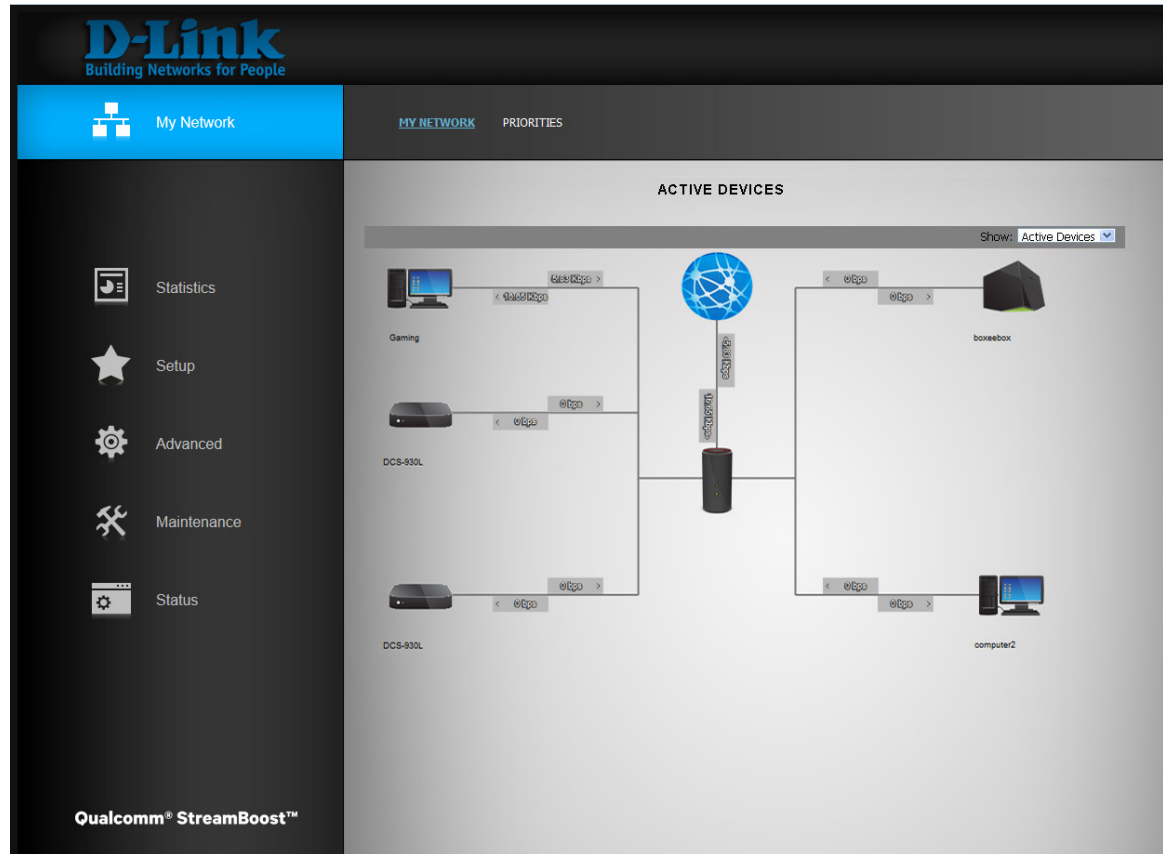
Note: You cannot edit the names or icon images.



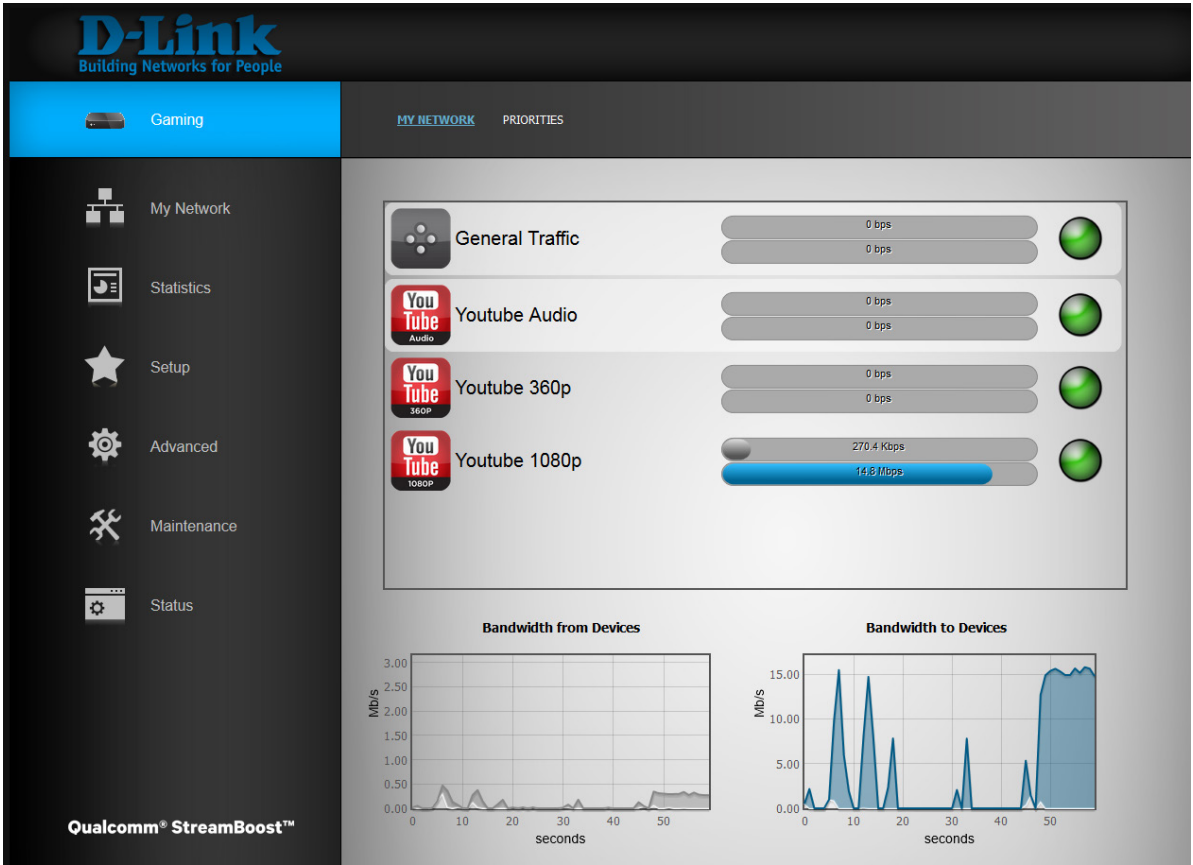
My Network

Active Devices

The *My Network* page will display a graphical diagram of your local network. You can click on the device icon to display more information (refer to the next page). Note that devices may not show up until they transmit data.

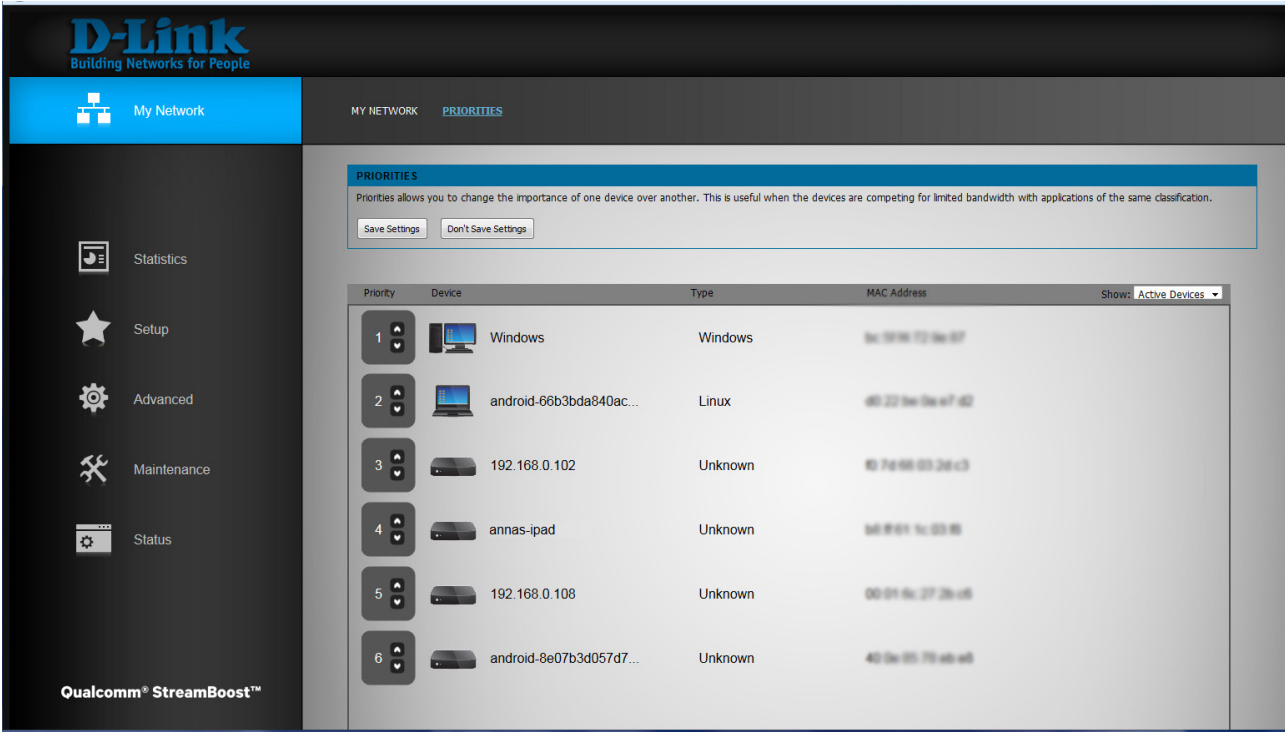


When you click on a device more information will appear. Below is an example of the *Gaming* computer shown in the diagram on the previous page.



Priorities

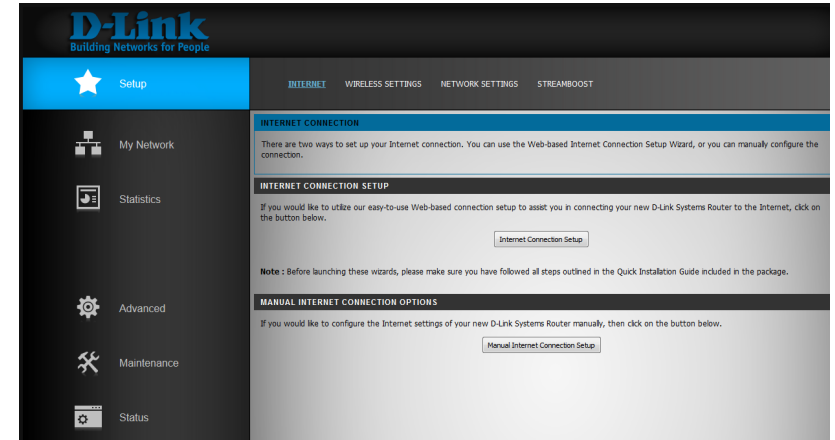
You can select the priority of each device on your local network. The priority control buttons are the arrows within the boxes to the left of each icon representing a device. Click the up arrow to move the device higher in the priority list, or click the down arrow to lower the priority.



Setup

If you want to configure your router to connect to the Internet using the wizard, click **Internet Connection Setup**. Please refer to "[Internet Connection Setup Wizard](#)" on page 27.

Click **Manual Internet Connection Setup** to configure your connection manually. (Instructions for manual setup begin below.)



The next few pages will explain each of the ISP connection types. You can select the type from the **My Internet Connection is** drop-down menu.

Manual Internet Setup

Static (assigned by ISP)

Select **Static IP** if all the Internet port's IP information is provided to you by your ISP (Internet Service Provider). You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP.

My Internet Connection: Select **Static IP** to manually enter the IP settings supplied by your ISP.

IP Address: Enter the **IP Address** assigned by your ISP.

Subnet Mask: Enter the **Subnet Mask** assigned by your ISP.

Default Gateway: Enter the Gateway assigned by your ISP.

DNS Servers: Enter the DNS server information be supplied by your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU.

MAC Address: The default *MAC Address* is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Copy Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

Click **Save Settings**.

The screenshot shows the WAN configuration page. At the top, there's a 'WAN' header. Below it, a text box explains the purpose of the section and lists connection types: Static IP, DHCP, and PPPoE. A note mentions that PPPoE requires client software. There are 'Save Settings' and 'Don't Save Settings' buttons. The 'INTERNET CONNECTION TYPE' section has a dropdown menu set to 'Static IP'. Below this, the 'STATIC IP ADDRESS INTERNET CONNECTION TYPE' section prompts the user to enter static address information. Fields include IP Address (0.0.0.0), Subnet Mask (0.0.0.0), Default Gateway (0.0.0.0), Primary DNS Server, Secondary DNS Server, MTU (1500), and MAC Address. A 'Copy Your PC's MAC Address' button is located next to the MAC Address field.

Internet Setup

Dynamic (Cable)

My Internet Connection: Select **Dynamic IP** 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 and some DSL services.

Host Name: The **Host Name** is optional but may be required by some ISPs. Leave blank if you are not sure.

Use Unicasting: Check the box by **Use Unicasting** if you are having problems obtaining an IP address from your ISP.

Primary/Secondary DNS Server: Enter the Primary and secondary DNS server IP addresses assigned by your ISP. These addresses are usually obtained automatically from your ISP. Leave these fields blank if you did not specifically receive the addresses from your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU.

MAC Address: The default *MAC Address* is set to the Internet port's physical interface MAC address on the router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Copy Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

Click **Save Settings**.

The screenshot shows the WAN configuration page for a Dynamic IP connection. At the top, there's a 'WAN' header. Below it, a text box explains that this section is for configuring the Internet connection type, with options for Static IP, DHCP, and PPPoE. A note states that if using PPPoE, the user must remove or disable any PPPoE client software. There are 'Save Settings' and 'Don't Save Settings' buttons. The 'INTERNET CONNECTION TYPE' section shows 'My Internet Connection is' set to 'Dynamic IP'. Below this, the 'DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE' section provides fields for 'Host Name' (DGL-5500A1), 'Use Unicasting' (checked), 'Primary DNS Server', 'Secondary DNS Server', 'MTU' (1500), and 'MAC Address'. A 'Copy Your PC's MAC Address' button is located at the bottom right of the MAC Address field.

Internet Setup

PPPoE (DSL)

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 you remove the PPPoE software from your computer. The software is no longer needed and will not work through a router.

My Internet Connection is: Select **PPPoE (Username/Password)** from the drop-down menu.

Address Mode: Select **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

IP Address: Enter the **IP Address** (Static IP only).

Username: Enter your PPPoE **Username**.

Password: Enter your PPPoE **Password** and then retype the password in the next field to verify.

Service Name: Enter the ISP **Service Name** (optional).

Reconnect Mode: Select either **Always-on**, **On-Demand**, or **Manual**.

Maximum Idle Time: Enter a **Maximum Idle Time** during which the Internet connection is maintained during inactivity. To disable this feature, set the *Reconnect Mode* to **Always-on**.

DNS Servers: Enter the Primary and secondary DNS server IP addresses assigned by your ISP. These addresses are usually obtained automatically from your ISP. Leave blank if you did not specifically receive these from your ISP.

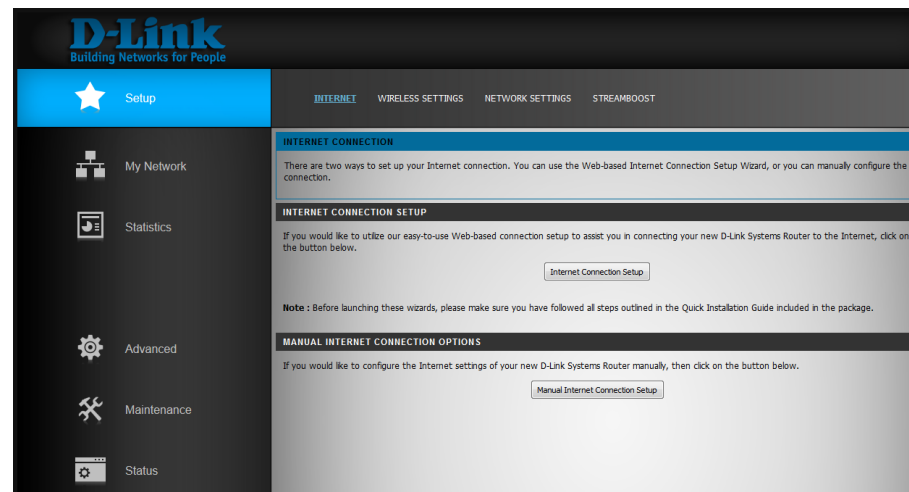
MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1492 is the default MTU.

MAC Address: The default *MAC Address* is set to the Internet port's physical interface MAC address on the router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

The screenshot shows the WAN configuration interface. At the top, there's a 'WAN' header. Below it, a note says: 'Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE. If you are unsure of your connection method, please contact your Internet Service Provider.' A 'Note' below that states: 'If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' There are 'Save Settings' and 'Don't Save Settings' buttons. The 'INTERNET CONNECTION TYPE' section has a dropdown menu set to 'PPPoE (Username / Password)'. Below this, the 'PPPOE INTERNET CONNECTION TYPE' section prompts the user to 'Enter the information provided by your Internet Service Provider (ISP)'. It includes fields for 'Address Mode' (Dynamic IP selected), 'IP Address' (0.0.0.0), 'Username', 'Password', 'Verify Password', 'Service Name' (Optional), 'Reconnect Mode' (On demand selected), 'Maximum Idle Time' (5 minutes), 'Primary DNS Address' (Optional), 'Secondary DNS Address' (Optional), 'MTU' (1492), and 'MAC Address'. A 'Clone Your PC's MAC Address' button is at the bottom.

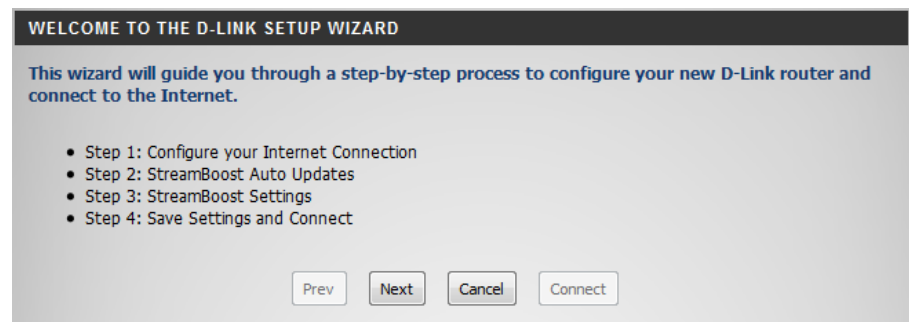
Internet Connection Setup Wizard

If you did not initially choose to install your router with the *Quick Setup Wizard*, you can click on **Internet Connection Setup** from **Setup > Internet**.



This *Setup Wizard* is designed to guide you through a step-by-step process to configure your router and connect to the Internet.

Click **Next** to continue.



The router will scan for your *Internet connection type*. If it does not detect what type, the following screens will appear.

Select your Internet connection type and click **Next** to continue.

If you selected **PPPoE**, enter your PPPoE **User Name** and **Password**. Select **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. Click **Next** to continue.

Note: Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

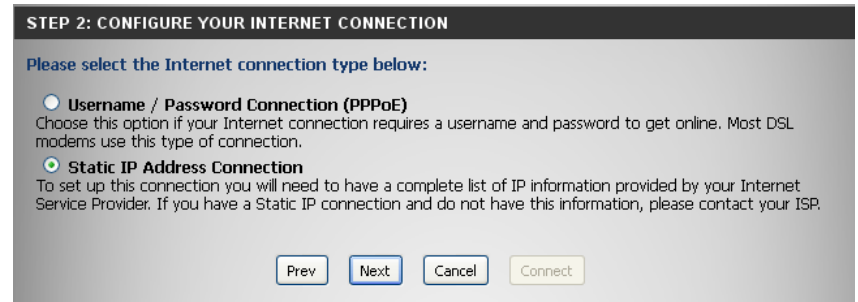


STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Router is detecting your Internet connection type, please wait ...

Progress bar showing detection progress.

Buttons: Prev, Cancel, Connect

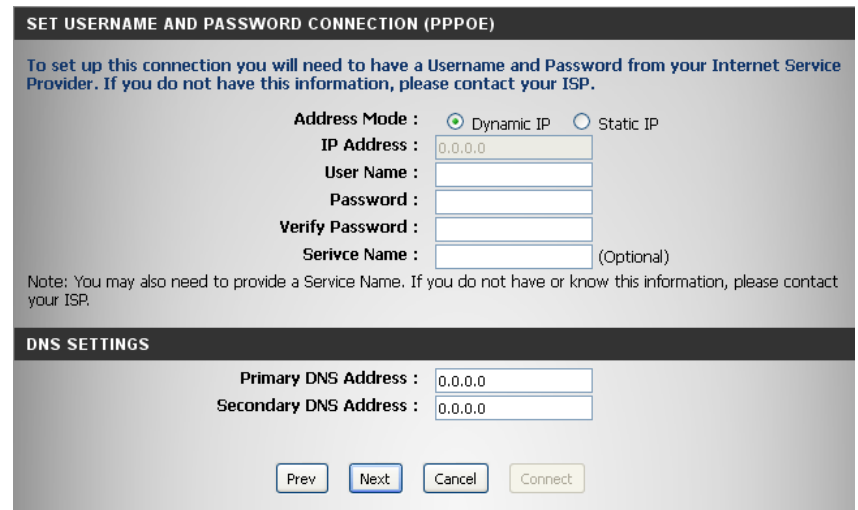


STEP 2: CONFIGURE YOUR INTERNET CONNECTION

Please select the Internet connection type below:

- ☐ Username / Password Connection (PPPoE)
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☒ Static IP Address Connection
To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.

Buttons: Prev, Next, Cancel, Connect



SET USERNAME AND PASSWORD CONNECTION (PPPOE)

To set up this connection you will need to have a Username and Password from your Internet Service Provider. If you do not have this information, please contact your ISP.

Address Mode : ☒ Dynamic IP ☐ Static IP

IP Address : 0.0.0.0

User Name :

Password :

Verify Password :

Service Name : (Optional)

Note: You may also need to provide a Service Name. If you do not have or know this information, please contact your ISP.

DNS SETTINGS

Primary DNS Address : 0.0.0.0

Secondary DNS Address : 0.0.0.0

Buttons: Prev, Next, Cancel, Connect

If you selected **Static**, enter the IP and DNS settings supplied by your ISP. Click **Next** to continue.

SET STATIC IP ADDRESS CONNECTION

To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.

IP Address :

Subnet Mask :

Gateway Address :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

Click either **Yes, I want StreamBoost updates** or **No, I do not wish to receive updates**. Click **Next** to continue.

STEP 3: STREAMBOOST AUTO UPDATES

Maximize your online experience by keeping StreamBoost up to date.

Check below to enable your router to receive automatic StreamBoost updates during your initial 3-year manufacturer service term. The 3-year service term will start on the day the router is purchased but in no event will be valid beyond April 1st, 2017. (After the 3-year period, further updates may be made available from the manufacturer via firmware updates.) StreamBoost updates may help improve your router's Internet traffic management capabilities through better traffic identification and bandwidth management techniques. In exchange, your StreamBoost enabled router will send Qualcomm Atheros, Inc. anonymous information from your router. If you decline, you can find updates through software or firmware postings from your router's manufacturer.

[Learn More.](#)

Would you like to receive StreamBoost auto updates?

☐ Yes, I want StreamBoost updates. I opt-in to data analysis and updates.

☐ No, I do not wish to receive updates.

You can check the **Enable Auto Bandwidth Estimation** box to auto-detect your bandwidth, or uncheck it to manually enter your download and upload speeds below. Click the **Test Bandwidth** button if you want the router to detect your speeds and populate the fields for *Download Speed* and *Upload Speed*. After processing is completed, click **Next** to continue.

Note: When you check the box to Enable Auto Bandwidth Estimation, you enable continuous testing that consumes greater than normal bandwidth.

When the setup process is completed, you will see this screen. Click on **Connect** to save your settings.

After the settings are saved, your router will reboot.

STEP 4: STREAMBOOST SETTINGS

Enable StreamBoost Bandwidth Control : ☒

Enable Auto Bandwidth Estimation : ☐ (Checking this box will enable testing that will consume bandwidth beyond normal usage)

Download Speed(Mbps) :

Upload Speed(Mbps) :

Prev Next Cancel Test Bandwidth Connect

SETUP COMPLETE!

The Setup Wizard has completed. Click the Connect button to save your settings and restart the router.

Prev Next Cancel Connect

SAVE SETTINGS...

Your settings are being saved.
Please wait...

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Manual Wireless Settings

802.11n/g (2.4GHz)

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.

Schedule: Select the time frame that you would like your wireless network enabled. The schedule may be set to **Always**. Any schedule you create will be listed in the drop-down menu. Click **New Schedule** to create a schedule.

Wireless Network Name: Service Set Identifier (SSID) is the name of your wireless network. Create a name for your wireless network using up to 32 characters. The SSID is case-sensitive.

802.11 Mode: Select one of the following:
802.11g Only - Select only if all of your wireless clients are 802.11g.
802.11n Only - Select only if all of your wireless clients are 802.11n.
Mixed 802.11g and 802.11b - Select if you are using both 802.11g and 802.11b wireless clients.
Mixed 802.11n and 802.11g - Select if you are using both 802.11n and 802.11g wireless clients.
Mixed 802.11n, 11g, and 11b - Select if you are using a mix of 802.11n, 802.11g, and 802.11b wireless clients.

Enable Auto Channel Scan: Leave the **Auto Channel Scan** setting enabled to allow the DGL-5500 to choose the channel with the least amount of interference.

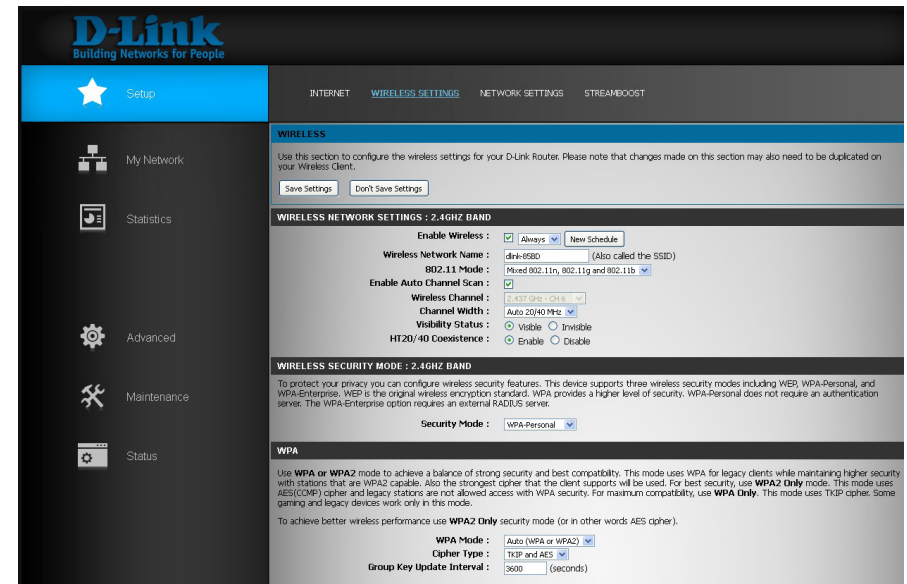
Wireless Channel: Indicates the channel setting for the DGL-5500. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you check **Enable Auto Channel Scan**, this option will be greyed out.

Channel Width: Select the Channel Width:
Auto 20/40 MHz - This is the default setting. Select if you are using both 802.11n and non-802.11n wireless devices.
20MHz - Select if you are not using any 802.11n wireless clients.

Visibility Status: Select **Invisible** if you do not want the SSID of your wireless network to be broadcasted by the DGL-5500. If Invisible is selected, the SSID of the DGL-5500 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DGL-5500 in order to connect to it.

HT20/40 Coexistence: Leave this option enabled to allow the router to coexist with other wireless networks with minimal interference. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz.

Wireless Security: Refer to ["Wireless Security" on page 34](#).



802.11ac/n/a (5GHz)

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.

Schedule: Select the time frame that you would like your wireless network enabled. The schedule may be set to **Always**. Any schedule you create will be listed in the drop-down menu. Click **New Schedule** to create a schedule.

Wireless Network Name: Service Set Identifier (SSID) is the name of your wireless network. Create a name for your wireless network using up to 32 characters. The SSID is case-sensitive.

802.11 Mode: Select one of the following:

- 802.11n Only** - Select if all of your wireless clients are 802.11n.
- 802.11ac Only** - Select only if all of your wireless clients are 802.11ac.
- Mixed 802.11a and 802.11n** - Select if you are using both 802.11n and 802.11a wireless clients.
- Mixed 802.11ac and 802.11n** - Select if you are using both 802.11n and 802.11ac wireless clients.
- Mixed 802.11ac, 802.11n and 802.11a** - Select if you are using 802.11ac, 802.11n, and 802.11a wireless clients.

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DGL-5500 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DGL-5500. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you check **Enable Auto Channel Scan**, this option will be greyed out.

Channel Width: Select the Channel Width:

- 20MHz** - Select if you are not using any 802.11n wireless clients.
- Auto 20/40MHz** - This is the default setting. Select if you are using both 802.11n and non-802.11n wireless devices.
- Auto 20/40/80MHz** - Select if you are using 802.11ac, 802.11n and non-802.11n wireless devices. This option is only available when the 802.11 Mode is set to Mixed 802.11ac.

Visibility Status: Select **Invisible** if you do not want the SSID of your wireless network to be broadcasted by the DGL-5500. If Invisible is selected, the SSID of the DGL-5500 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DGL-5500 in order to connect to it.

Wireless Security: Refer to ["Wireless Security" on page 34](#).

Wi-Fi Protected Setup: Refer to the next page.

WIRELESS NETWORK SETTINGS : 5GHZ BAND

Enable Wireless : ☒ Always

Wireless Network Name : dlink-5500-media (Also called the SSID)

802.11 Mode : Mixed 802.11ac, 802.11n and 802.11a

Enable Auto Channel Scan : ☒

Wireless Channel : 5.200 GHz - CH 40

Channel Width : Auto 20/40/80 MHz

Visibility Status : ☒ Visible ☐ Invisible

WIRELESS SECURITY MODE : 5GHZ BAND

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including WEP, WPA-Personal, and WPA-Enterprise. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Enterprise does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server.

Security Mode : WPA-Personal

WPA

Use **WPA** or **WPA2** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use **WPA2 Only** mode. This mode uses AES(CCM) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use **WPA2 Only** security mode (or in other words AES cipher).

WPA Mode : Auto (WPA or WPA2)

Cipher Type : TKIP and AES

Group Key Update Interval : 3600 (seconds)

PRE-SHARED KEY

Enter an 8 to 63 character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key :

☐ Show Password

WI-FI PROTECTED SETUP

Enable : ☒

Lock WPS-PIN Setup : ☐

Current PIN : 55700115

Wi-Fi Protected Setup: Leave this box checked to keep WPS (Wi-Fi Protected Setup) enabled.

Lock WPS-Pin Setup: Locking the WPS-PIN Method prevents the settings from being changed by any external registrar using its PIN. Devices may still be added to the wireless network using the Wi-Fi Protected Setup Push Button Configuration (WPS-PBC).

Current PIN: Displays the *Current PIN*. A PIN is a unique number that can be used to add the router to an existing network or to create a new network.

Generate New PIN: Click to generate a random number that is a valid PIN. This becomes the router's PIN. You can copy this PIN to the user interface of the wireless client you would like to connect.

Reset PIN to Default: Click to reset the PIN to the factory default setting.

Add Wireless Device with WPS: Click to start the WPS Wizard. The wizard will help you add wireless devices to the network.



Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DGL-5500 offers the following types of security:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)
- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

WPA/WPA2-Personal (PSK)

It is recommended that you enable wireless security on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption.

1. Log in to the web-based configuration by opening a web browser and entering **http://dlinkrouter.local/**. Click on **Setup** and then click **Wireless Settings** on the top.
2. Next to *Security Mode*, select **WPA-Personal**.
3. Next to *WPA Mode*, select **Auto(WPA or WPA2)**, **WPA2 Only**, or **WPA Only**. Use **Auto** if you have wireless clients using both WPA and WPA2.
4. Next to *Cypher Type*, select **TKIP and AES**, **TKIP**, or **AES**.
5. Next to *Group Key Update Interval*, enter the amount of time before the group key used for broadcast and multicast data is changed (3600 is default).
6. Next to *Pre-Shared Key*, enter a Wi-Fi password (key/passphrase). The password must be between 8-63 characters.
7. Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you re-connect using the new Wi-Fi password.

The screenshot shows the 'WIRELESS SECURITY MODE' configuration page. At the top, a note explains that the router supports WEP, WPA-Personal, and WPA-Enterprise, with WPA-Personal being the recommended choice for home use. Below this, the 'Security Mode' is set to 'WPA-Personal'. The 'WPA' section provides detailed instructions on choosing between WPA, WPA2, or WPA2 Only modes based on the client's capabilities and the desired level of security. It also mentions that WPA2 Only uses the strongest AES(Comp) cipher. The 'WPA Mode' is set to 'Auto (WPA or WPA2)', 'Cipher Type' is 'TKIP and AES', and 'Group Key Update Interval' is '3600 (seconds)'. The 'PRE-SHARED KEY' section prompts the user to enter an 8 to 63 character alphanumeric pass-phrase. The 'Pre-Shared Key' field contains 'mywifi@password' and the 'Show Password' checkbox is checked.

WIRELESS SECURITY MODE

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including WEP, WPA-Personal, and WPA-Enterprise. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server.

Security Mode : **WPA-Personal**

WPA

Use **WPA or WPA2** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use **WPA2 Only** mode. This mode uses AES(Comp) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use **WPA2 Only** security mode (or in other words AES cipher).

WPA Mode : **Auto (WPA or WPA2)**

Cipher Type : **TKIP and AES**

Group Key Update Interval : **3600** (seconds)

PRE-SHARED KEY

Enter an 8 to 63 character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key :

☒ Show Password

Configure WPA/WPA2-Enterprise (RADIUS)

It is recommended that you enable wireless security on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption.

1. Log in to the web-based configuration by opening a web browser and entering **http://dlinkrouter.local/**. Click on **Setup** and then click **Wireless Settings** on the top.
2. Next to *Security Mode*, select **WPA-Enterprise**.
3. Next to *WPA Mode*, select **Auto(WPA or WPA2)**, **WPA2 Only**, or **WPA Only**. Use **Auto** if you have wireless clients using both WPA and WPA2.
4. Next to *Cypher Type*, select **TKIP and AES**, **TKIP**, or **AES**.
5. Next to *Group Key Update Interval*, enter the amount of time before the group key used for broadcast and multicast data is changed (3600 is default).
6. Next to *Authentication Timeout*, enter preferred timeout in minutes.
7. Next to *RADIUS Server IP Address* enter the IP Address of your RADIUS server.
8. Next to *RADIUS Server Port*, enter the port you are using with your RADIUS server. 1812 is the default port.
9. Next to *RADIUS Server Shared Secret*, enter the security key.
10. Click **Advanced** to enter settings for an optional backup RADIUS Server.
11. Click **Save Settings** to save your settings.

WIRELESS SECURITY MODE

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including WEP, WPA-Personal, and WPA-Enterprise. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server.

Security Mode : **WPA-Enterprise**

WPA

Use **WPA** or **WPA2** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use **WPA2 Only** mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use **WPA Only**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use **WPA2 Only** security mode (or in other words AES cipher).

WPA Mode : **Auto (WPA or WPA2)**

Cipher Type : **TKIP and AES**

Group Key Update Interval : **3600** (seconds)

EAP (802.1X)

When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server. MAC Address Authentication

Authentication Timeout : **60** (minutes)

RADIUS server IP Address : **0.0.0.0**

RADIUS server Port : **1812**

RADIUS server Shared Secret : **...**

Second MAC Address Authentication : ☒

[Advanced>>](#)

EAP (802.1X)

When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server. MAC Address Authentication

Authentication Timeout : **60** (minutes)

RADIUS server IP Address : **0.0.0.0**

RADIUS server Port : **1812**

RADIUS server Shared Secret : **...**

Second MAC Address Authentication : ☒

[<<Advanced](#)

Optional backup RADIUS server :

Second RADIUS server IP Address : **0.0.0.0**

Second RADIUS server Port : **1812**

Second RADIUS server Shared Secret : **...**

Second MAC Address Authentication : ☒

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings.

Router Settings

Router IP Address: Enter the **IP Address** of the router. The default IP address is 192.168.0.1. If you statically assign your network clients, make sure to use the new IP address as the Default Gateway address.

If you change the IP address, once you click **Save Settings**, you will need to enter the new IP address in your browser to get back into the configuration utility.

Subnet Mask: Enter the **Subnet Mask**. The default subnet mask is 255.255.255.0.

Device Name: Enter a name for the router. Note that if you change the name, you must use it the next time you want to log in to the router (i.e., [http://dlinkrouter.local./](http://dlinkrouter.local/)).

For example, if you change the router name to **myrouter**, to log in, you must enter **[http://myrouter.local./](http://myrouter.local/)**.

Local Domain Name: Enter the **Domain Name** (Optional).

Enable DNS Relay: Uncheck the box to transfer the DNS server information from your ISP to your computers. If checked, your computers will use the router for a DNS server.

D-Link
Building Networks for People

Setup

INTERNET WIRELESS SETTINGS **NETWORK SETTINGS** STREAMBOOST

NETWORK SETTINGS

Use this section to configure the internal network settings of your router and also to configure the built-in DHCP Server to assign IP addresses to the computers on your network. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

Save Settings Don't Save Settings

ROUTER SETTINGS

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

Router IP Address : 192.168.0.1
Subnet Mask : 255.255.255.0
Device Name : dlinkrouter
Local Domain Name :
Enable DNS Relay : ☒

DHCP SERVER SETTINGS

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

Enable DHCP Server : ☒
DHCP IP Address Range : 192.168.0.100 to 192.168.0.199
DHCP Lease Time : 1440 (minutes)
Always Broadcast : ☐ (compatibility for some DHCP clients)
NetBIOS Announcement : ☐
Learn NetBIOS from WAN : ☐
NetBIOS Scope : (Optional)
NetBIOS Node Type : Broadcast only (use when no WINS servers configured)
Point-to-Point (no broadcast)
Mixed mode (Broadcast then Point-to-Point)
Hybrid (Point-to-Point then Broadcast)
Primary WINS IP Address :
Secondary WINS IP Address :

Qualcomm® StreamBoost™

ADD DHCP RESERVATION

DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DGL-5500 has a built-in DHCP server which will automatically assign an IP address to computers/devices on your network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to *Obtain an IP Address Automatically*. When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DGL-5500. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

Enable DHCP Server: Check this box to enable the DHCP server on your router.
Server: Uncheck to disable this function.

DHCP IP Address Range: Enter the starting and ending IP addresses for the DHCP server's IP assignment.

Note: *If you statically (manually) assign IP addresses to your computers or devices, make sure the IP addresses are outside of this range or you may have an IP conflict.*

DHCP Lease Time: The length of time for the IP address lease is the *DHCP Lease Time*. Enter the time in minutes. The default value is 1440.

Always Broadcast: Enable this feature to broadcast your DHCP server to LAN/WLAN clients.

NetBIOS Announcement: NetBIOS allows LAN hosts to discover all other computers within the network. Enable this feature to allow the DHCP Server to offer NetBIOS configuration settings.

Learn NetBIOS from WAN: Enable this feature to allow WINS information to be learned from the WAN side. Disable to allow manual configuration.

NetBIOS Scope: This feature allows the configuration of a NetBIOS 'domain' name under which network hosts operates. This setting has no effect if the *Learn NetBIOS information from WAN* option is enabled.

The screenshot shows the 'DHCP SERVER SETTINGS' page. At the top, it says 'Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.' The settings are as follows:

- Enable DHCP Server:** ☒
- DHCP IP Address Range:** 192.168.0.100 to 192.168.0.199
- DHCP Lease Time:** 1440 (minutes)
- Always broadcast:** ☐ (compatibility for some DHCP Clients)
- NetBIOS announcement:** ☐
- Learn NetBIOS from WAN:** ☐
- NetBIOS Scope:** (Optional)
- NetBIOS node type:**
 - ☒ Broadcast only (use when no WINS servers configured)
 - ☐ Point-to-Point (no broadcast)
 - ☐ Mixed-mode (Broadcast then Point-to-Point)
 - ☐ Hybrid (Point-to-Point then Broadcast)
- Primary WINS IP Address:**
- Secondary WINS IP Address:**

NetBIOS Node Type: Select one of the following types of NetBIOS nodes: **Broadcast only**, **Point-to-Point**, **Mixed-mode**, or **Hybrid**.

WINS IP Address: Enter your WINS Server IP address(es).

DHCP Reservation

If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device.

Note: This IP address must be within the DHCP IP Address Range specified above, under DHCP SERVER SETTINGS.

Enable: Check this box to enable the **DHCP Reservation**.

Host Name: Enter the **Computer Name** or select from the drop-down menu and click <<.

IP Address: Enter the **IP Address** you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

MAC Address: Enter the **MAC Address** of the computer or device.

Copy Your PC's MAC Address: You can use the **Copy Your PC's MAC Address** button to insert the MAC address of the computer you are working from in the MAC address field.

Add: Click **Add** to save your selections. Click **Save Settings** at the top of the screen to activate your DHCP reservations.

DHCP Reservations List

DHCP Reservations List: Lists reservation entries. Displays the *Host Name* (name of your computer or device), *IP Address*, and *MAC Address*.

Enable: Check to enable the reservation.

Edit: Click the edit icon to make changes to the reservation entry.

Delete: Click the trash icon to remove the reservation from the list.

DHCP SERVER SETTINGS

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

Enable DHCP Server : ☒

DHCP IP Address Range : 192.168.0.100 to 192.168.0.199

DHCP Lease Time : 1440 (minutes)

Always Broadcast : ☐ (compatibility for some DHCP Clients)

NetBIOS Announcement : ☐

Learn NetBIOS from WAN : ☐

NetBIOS Scope : (Optional)

NetBIOS Node Type : ☒ Broadcast only (use when no WINS servers configured)
☐ Point-to-Point (no broadcast)
☐ Mixed-mode (Broadcast then Point-to-Point)
☐ Hybrid (Point-to-Point then Broadcast)

Primary WINS IP Address :
Secondary WINS IP Address :



ADD DHCP RESERVATION

Enable : ☐

Host Name : << Computer Name

IP Address :
MAC Address :

Enable	Host Name	IP Address	MAC Address	Edit	Delete
--------	-----------	------------	-------------	------	--------

DHCP RESERVATIONS LIST					
Enable	Host Name	IP Address	MAC Address		
<input checked="" type="checkbox"/>	Graphicstest	192.168.0.105	00:15:e9:2e:26:3c		

NUMBER OF DYNAMIC DHCP CLIENTS			
Host Name	IP Address	MAC Address	Expired Time
Graphicstest	192.168.0.105	00:15:e9:2e:26:3c	6 Days 2 Hours 52 Minutes

Number of Dynamic DHCP Clients Displays the *Host Name* (name of your computer or device), *IP Address*, *MAC Address* and *Expired Time* for each client.

Enable IPv4 Multicast Streams: Check to enable IPv4 Multicast Streams.

ADD DHCP RESERVATION

Enable : ☐

Host Name : << Computer Name

IP Address :

MAC Address : Copy Your PC's MAC Address

AddClear

Enable	Host Name	IP Address	MAC Address	Edit	Delete
--------	-----------	------------	-------------	------	--------

NUMBER OF DYNAMIC DHCP CLIENTS : 0

Hostname	Assigned IP	MAC Address	Expires
----------	-------------	-------------	---------

IPv4 MULTICAST STREAMS

Enable IPv4 Multicast Streams : ☐

StreamBoost

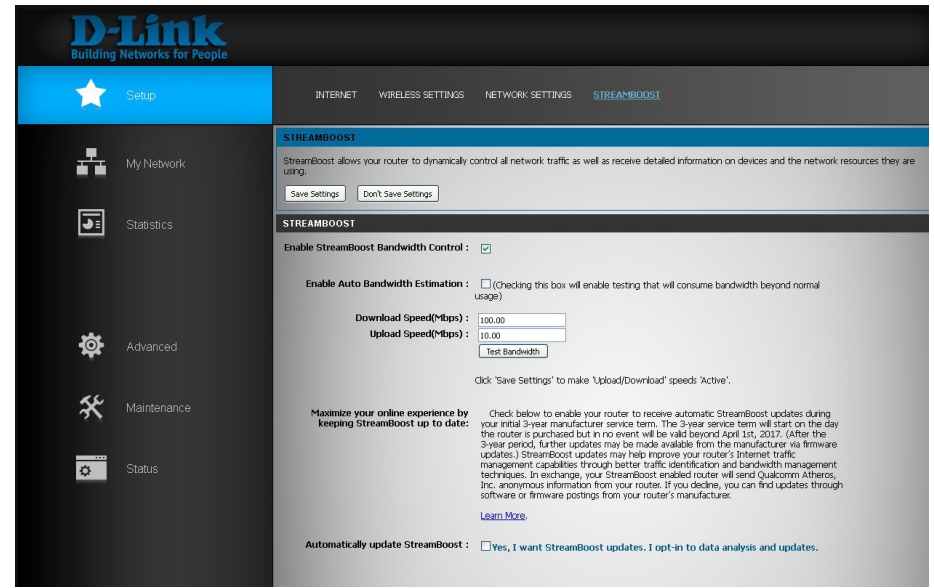
Enable SteamBoost Bandwidth Control: Check this box to allow the router to use StreamBoost and optimize your Internet traffic.

Enable Auto Bandwidth Estimation: Check to have the router automatically estimate your bandwidth speeds. If you uncheck this box, you can manually enter your bandwidth speeds below. Or you can click **Test Bandwidth** (recommended) if you want the router to detect your speeds and populate the fields for *Download Speed* and *Upload Speed*.

Download Speed: If the *Enable Auto Bandwidth Estimation* box is unchecked, you can enter **Download Speed** in Mbit per second.

Upload Speed: If the *Enable Auto Bandwidth Estimation* box is unchecked, you can enter **Upload Speed** in Mbit per second.

Automatically update StreamBoost: Read the information on the screen and check the box if you agree to the terms for SteamBoost updates.



Advanced Media Server

The Media Server allows you to access files from a USB thumb drive plugged into your DGL-5500.

Enable Media Server: Check this box to enable the Media Server function. This will allow you to share data from a USB thumb drive attached to your router. This function must be enabled to use the SharePort Plus Utility*.

Media Server Name: Enter a name for the media server.

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Advanced

SERVER PORT FORWARDING FIREWALL SETTINGS FILTER DMZ SCHEDULES

SERVER

Media Server allows you to share a USB storage device when connected to the USB port of the DGL-5500. The Virtual Server option allows you to identify a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Don't Save Settings

MEDIA SERVER

Enable Media Server : ☒
Media Server Name : DGL-5500A1

24 --- VIRTUAL SERVERS LIST

Name	Port	Traffic Type	Schedule
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All
Public Port 0	Public Port 0	Protocol TCP	Schedule Always
Private Port 0	Private Port 0	Protocol TCP	Inbound Filter Allow All

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***Note:** The SharePort Plus Utility is available for download at:
<http://support.dlink.com/ProductInfo.aspx?m=DGL-5500>

Downloads FAQs Videos

For access to the right downloads, please select the correct hardware revision for your device.

ALL How to find the hardware version?

Type	Date	Download	Release Notes
Firmware (1.11B) Upgrade Instructions	10/25/13	Download	Release Notes
Quick Install Guide (1.00)	07/16/13	Download	
User Manual (1.00)	07/16/13	Download	
Emulator (1.10)	07/16/13	Download	
Datasheet (1.00)	07/16/13	Download	
SharePort Plus Utility (Mac) (4.40)	01/28/14	Download	Release Notes
SharePort Plus Utility (Mac) (4.40)			
SharePort Plus Utility (Win) (4.30)			

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Virtual Server

The Virtual Server option will allow you to open a single port. If you would like to open a range of ports, refer to the next page.

Name: Enter a **Name** for the rule or select an **Application Name** from the drop-down menu and click << to populate the fields.

IP Address: Enter the **IP Address** of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), your computer will be listed in the *Computer Name* drop-down menu. Select your computer and click << to populate the fields.

24 --- VIRTUAL SERVERS LIST				
Name	IP Address	Port	Traffic Type	Schedule
<input type="text"/> << Application Name	<input type="text"/> << Computer Name	Public Port 0	Protocol TCP	Schedule Always
<input type="checkbox"/>	<input type="text"/> 0.0.0.0	Private Port 0	<input type="text"/> 5	Inbound Filter Allow All
<input type="text"/> << Application Name	<input type="text"/> << Computer Name	Public Port 0	Protocol TCP	Schedule Always
<input type="checkbox"/>	<input type="text"/> 0.0.0.0	Private Port 0	<input type="text"/> 6	Inbound Filter Allow All
<input type="text"/> << Application Name	<input type="text"/> << Computer Name	Public Port 0	Protocol TCP	Schedule Always
<input type="checkbox"/>	<input type="text"/> 0.0.0.0	Private Port 0	<input type="text"/> 6	Inbound Filter Allow All
<input type="text"/> << Application Name	<input type="text"/> << Computer Name	Public Port 0	Protocol TCP	Schedule Always
<input type="checkbox"/>	<input type="text"/> 0.0.0.0	Private Port 0	<input type="text"/> 6	Inbound Filter Allow All

Private Port/ Public Port: Enter the port that you want to open next to Private Port and Public Port. The private and public ports are usually the same. The public port is the port seen from the Internet side, and the private port is the port being used by the application on the computer within your local network.

Protocol Type: Select **TCP**, **UDP**, or **Both** from the drop-down menu.

Schedule: The schedule of time when the Virtual Server Rule will be enabled. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times in the **Advanced > Schedules** section.

Inbound Filter: Select **Allow All** (most common) or a created Inbound filter. You may create your own inbound filters in the **Advanced > Filter > Inbound Filter** page.

Port Forwarding

This will allow you to open multiple ports or a range of ports.

Name: Enter a **Name** for the rule or select an **Application Name** from the drop-down menu and click << to populate the fields.

IP Address: Enter the **IP Address** of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), your computer will be listed in the *Computer Name* drop-down menu. Select your computer and click << to populate the fields.

TCP/UDP: Enter the TCP and/or UDP port or ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma.

Example: 24,1009,3000-4000

Schedule: Select a schedule for when the Port Forwarding Rule will be enabled. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own schedule in the **Advanced > Schedules** section.

Inbound Filter: Select **Allow All** (most common) or a created Inbound filter. You may create your own inbound filters in the **Advanced > Filter > Inbound Filter** page.

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Advanced

SERVER PORT FORWARDING FIREWALL SETTINGS FILTER DMZ SCHEDULES

PORT FORWARDING

This option is used to open multiple ports or a range of ports in your router and redirect data through those ports to a single PC on your network. This feature allows you to enter ports in various formats including: Port Ranges (100-150), Individual Ports (80, 88, 888), or Mixed (1020-5000, 689).

Save Settings Don't Save Settings

24 — PORT FORWARDING RULES

Name	IP Address	Ports to Open	Schedule	Inbound Filter
<< Application Name	<< Computer Name	TCP	Always	Allow All
<< Computer Name	<< Computer Name	UDP	Always	Allow All
<< Application Name	<< Computer Name	TCP	Always	Allow All
<< Computer Name	<< Computer Name	UDP	Always	Allow All
<< Application Name	<< Computer Name	TCP	Always	Allow All
<< Computer Name	<< Computer Name	UDP	Always	Allow All
<< Application Name	<< Computer Name	TCP	Always	Allow All
<< Computer Name	<< Computer Name	UDP	Always	Allow All
<< Application Name	<< Computer Name	TCP	Always	Allow All
<< Computer Name	<< Computer Name	UDP	Always	Allow All

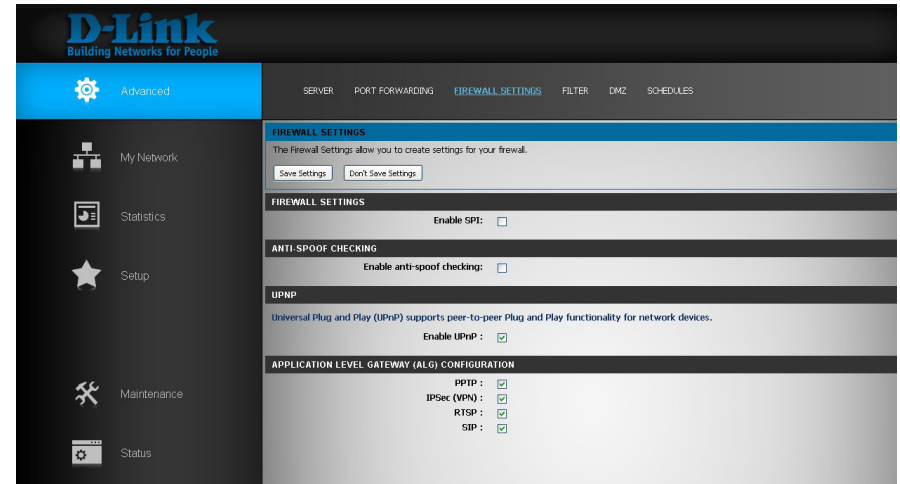
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Firewall Settings

Enable SPI: SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking more state per session. SPI validates that the traffic passing through the session conforms to the protocol.

Enable Anti-Spoof Checking: Enable this feature to protect your network from certain kinds of “spoofing” attacks.

Enable UPnP: Check the Enable UPnP (Universal Plug and Play) box to allow the router to be detected by devices with UPnP enabled. From your Windows computer, the router will be displayed in your network settings. Double-click the icon to access the web-based configuration utility.



This feature also will allow clients on your network to automatically open ports on the router so you do not have to manually open them (i.e., virtual server/port forwarding). If you disable UPnP, you may have to manually open ports for certain applications and games in the Virtual Server or Port Forwarding sections. Please refer to the application manufacturer for a list of ports needed.

PPTP: Allows multiple machines on the LAN to connect to their corporate network using PPTP protocol.

IPSec (VPN): Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This ALG may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.

RTSP: Allows application that uses Real Time Streaming Protocol to receive streaming media from the Internet. QuickTime and Real Player are some of the common applications using this protocol.

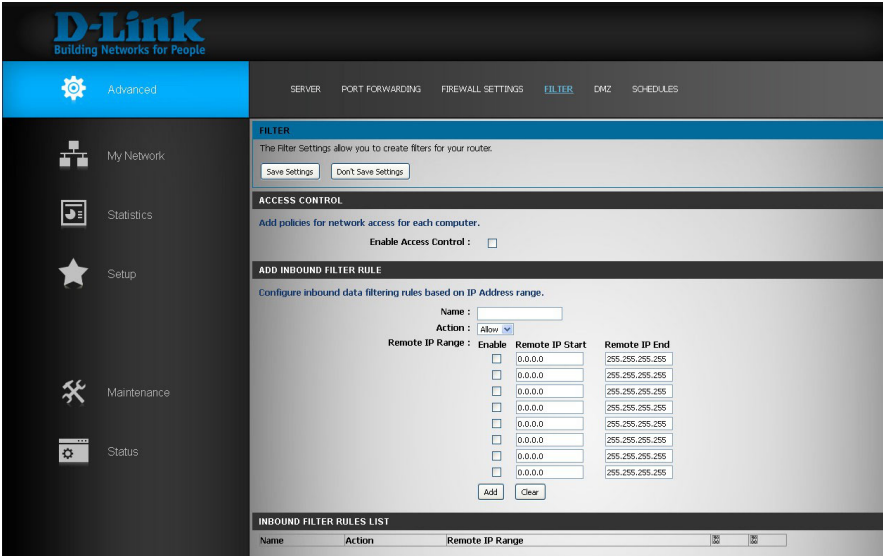
SIP: Allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Filter

Access Control

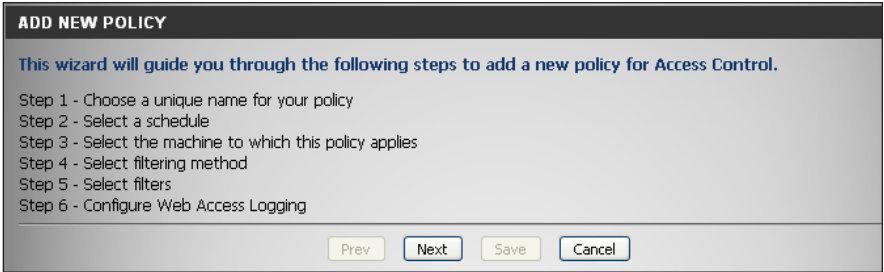
The Access Control section allows you to control access in and out of your network. Use this feature as Parental Controls to only grant access to approved sites, limit web access based on time or dates, and/or block access from applications like P2P utilities or games.

Enable Access Control: Check the **Enable Access Control** box, and you will see a button that says, *Add Policy*. Click on **Add Policy** to start the *Access Control Wizard*.

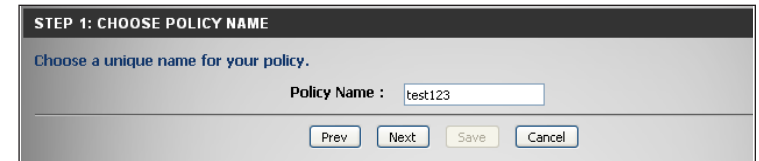


Access Control Wizard

Click **Next** to continue with the wizard.



Enter a name for the policy and then click **Next** to continue.



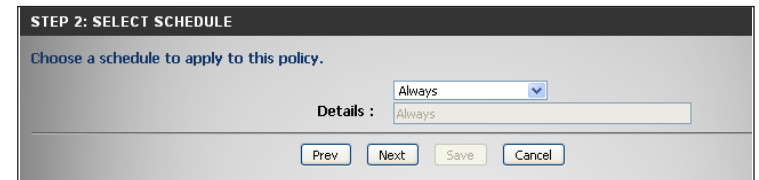
STEP 1: CHOOSE POLICY NAME

Choose a unique name for your policy.

Policy Name : test123

Prev Next Save Cancel

Select a schedule (i.e., **Always**) from the drop-down menu and then click **Next** to continue.



STEP 2: SELECT SCHEDULE

Choose a schedule to apply to this policy.

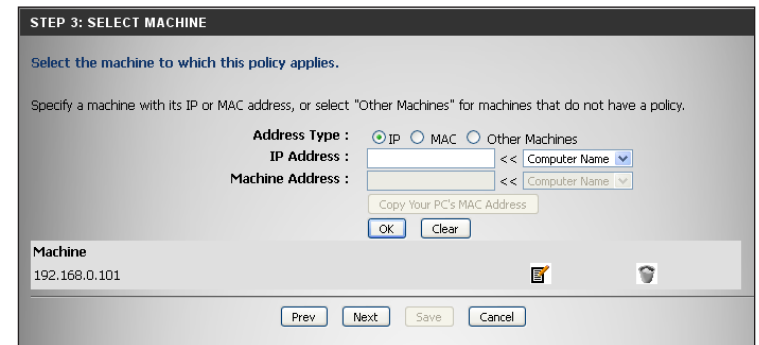
Always

Details : Always

Prev Next Save Cancel

Enter the following information:

- **Address Type** - Select **IP**, **MAC**, or **Other Machines**.
- **IP Address** - Enter the IP address of the computer you want to apply the rule to.
- **Machine Address** - Enter the PC MAC address or click on **Copy Your PC's MAC Address**.



STEP 3: SELECT MACHINE

Select the machine to which this policy applies.

Specify a machine with its IP or MAC address, or select "Other Machines" for machines that do not have a policy.

Address Type : ☒ IP ☐ MAC ☐ Other Machines

IP Address : << Computer Name

Machine Address : << Computer Name

Copy Your PC's MAC Address

OK Clear

Machine

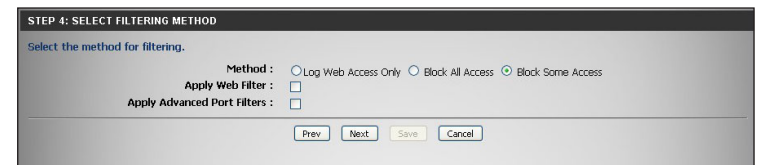
192.168.0.101

Prev Next Save Cancel

Click **OK** and then click **Next** to continue.

Select the filtering method.

If you select the option to **Block Some Access**, check **Apply Web Filter** and/or **Apply Advanced Port Filters**.



STEP 4: SELECT FILTERING METHOD

Select the method for filtering.

Method : ☐ Log Web Access Only ☐ Block All Access ☒ Block Some Access

Apply Web Filter : ☐

Apply Advanced Port Filters : ☐

Prev Next Save Cancel

Click **Next** to continue.

Add Port Filter Rules:

- Enable** - Check to enable the rule.
- Name** - Enter a name for your rule.
- Dest IP Start** - Enter the starting IP address.
- Dest IP End** - Enter the ending IP address.
- Protocol** - Select the protocol.
- Dest Port Start** - Enter the starting port number.
- Dest Port End** - Enter the ending port number.

Click **Next**.

To enable **Web Access Logging**, click **Enable**.

Click **Save** to save the access control rule.

When the access control rule is saved, click **Continue**.

Your newly created policy will now show up under *Policy Table*.

STEP 5: PORT FILTER

Add Port Filters Rules.

Specify rules to prohibit access to specific IP addresses and ports.

Enable	Name	Dest IP Start	Dest IP End	Protocol	Dest Port Start	Dest Port End
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535
<input type="checkbox"/>		0.0.0.0	255.255.255.255	Any	0	65535

Prev Next Save Cancel

STEP 6: CONFIGURE WEB ACCESS LOGGING

Web Access Logging : ☐ Disabled ☒ Enable

Prev Next Save Cancel

The new settings have been saved.
Please wait 47 seconds.

Continue



ACCESS CONTROL

Add policies for network access for each computer.

Enable Access Control : ☒

Add Policy

POLICY TABLE

Enable Policy	Machine	Filtering	Logged	Schedule		
<input checked="" type="checkbox"/>	test123	192.168.0.101	Block Some Access	Yes	Always	 

Inbound Filter

The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range. Inbound Filters can be used with Virtual Server, Port Forwarding, or Remote Administration features.

Name: Enter a **Name** for the inbound filter rule.

Action: Select **Allow** or **Deny**.

Enable: Check the box to enable the rule.

Remote IP Start: Enter the starting IP address.

Remote IP End: Enter the ending IP address.

Add: Click the **Add** button to apply your settings.

Inbound Filter This section will list any rules that have been created. You
Rules List: may click the **Edit** icon to change the settings, enable or disable the rule. Click the **Trash** icon to delete the rule.

ADD INBOUND FILTER RULE

Configure inbound data filtering rules based on IP Address range.

Name :

Action :

Allow

Remote IP Range :

Enable

Remote IP Start

Remote IP End

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

☐

0.0.0.0

255.255.255.255

Add

Clear

INBOUND FILTER RULES LIST

Name	Action	Remote IP Range		
------	--------	-----------------	--	--

MAC Filtering Rules

Use MAC Filters to allow or deny local computers/devices by their MAC addresses from accessing the network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the router.

Configure MAC Filtering: Select **Turn MAC Filtering Off**, **Turn MAC Filtering ON and Filtering: ALLOW computers listed to access the network**, or **Turn MAC Filtering ON and DENY computers listed to access the network** from the drop-down menu.

MAC Address: Enter the MAC address of the computer or device you would like to filter.

To find the MAC address on a computer, please refer to the *Networking Basics* section in this manual.

DHCP Client List: Select a **Computer Name** from the drop-down menu and click << to copy that MAC Address.

Save: Click **Save** to save your entry.

Clear: Click **Clear** to delete your current entry.

MAC Filter List: This section will list your current entries.

Note: If you enable filtering and create an “allow” list, you must add the computer or device you are currently using to the list or you will be blocked when the router reboots.

For the *Website Filtering Rules* section, proceed to the next page.

The screenshot shows the 'MAC FILTERING RULES' configuration page. At the top, it says 'Allow or deny network access using the computer's MAC address.' Below this, there's a section 'Configure MAC Filtering below:' with a dropdown menu set to 'Turn MAC Filtering ON and ALLOW computers listed to access the network'. Underneath, there are two input fields: 'MAC Address' (containing '00:00:00:00:00:00') and 'DHCP Client List' (a dropdown menu with 'Computer Name' selected). There are 'Save' and 'Clear' buttons. Below this is a 'MAC FILTER LIST' section with a table header 'MAC Address' and a single empty row. At the bottom, there's a 'WEBSITE FILTERING RULES' section with a dropdown menu set to 'DENY computers access to ONLY these sites' and a 'Website URL/Domain' input field with 'Save' and 'Clear' buttons. Below that is a 'WEBSITE URL/DOMAIN LIST' section with a table header 'Website URL/Domain' and a single empty row.

Website Filtering Rules

Website Filters are used to allow you to set up a list of Web sites that can be viewed by multiple users through the network. To use this feature select to Allow or Deny, enter the domain or website and click **Save Settings**.

Configure Select either **DENY computers access to ONLY these sites** or **Website Filter: ALLOW computers access to ONLY these sites**.

Website URL/ Domain: Enter the keywords or URLs that you want to allow or block. Click **Save**.

Website URL/ Domain List: Displays list of *URLs* and *Domains*.
When you are finished, click **Save Settings** to restart your router and activate your new settings.

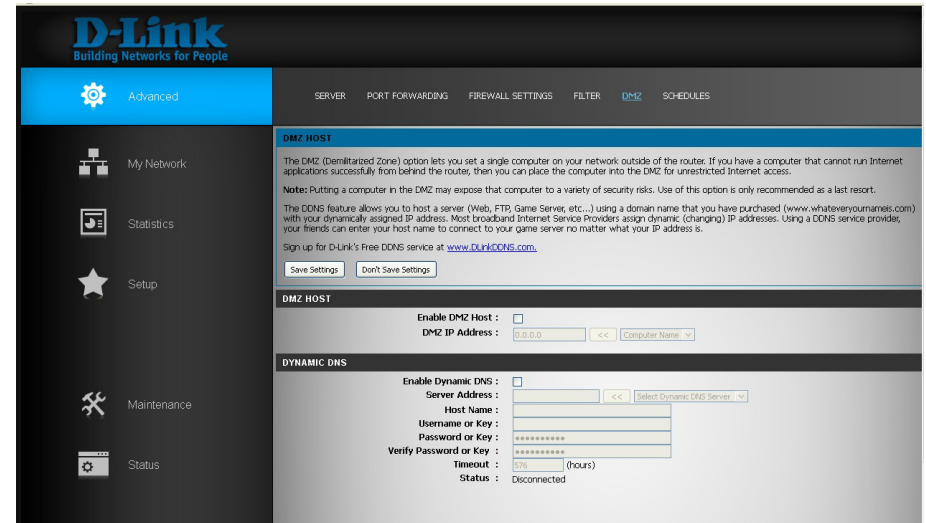


DMZ

Enable DMZ Host: If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer. The computer with unrestricted Internet access is the *DMZ Host*.

Note: *Placing a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.*

DMZ IP Address: Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains its IP address automatically using DHCP, be sure to make a static reservation on the **Setup > Network Settings** page so that the IP address of the DMZ machine does not change.



Dynamic DNS

Enable Dynamic DNS: Dynamic Domain Name System (DDNS) is a method of keeping a domain name linked to a changing IP Address. Check the box to **Enable** DDNS.

Server Address: Select your DDNS provider from the drop-down menu or enter the DDNS **Server Address**.

Host Name: Enter the **Host Name** that you registered with your DDNS service provider.

Username: Enter the **Username** for your DDNS account.

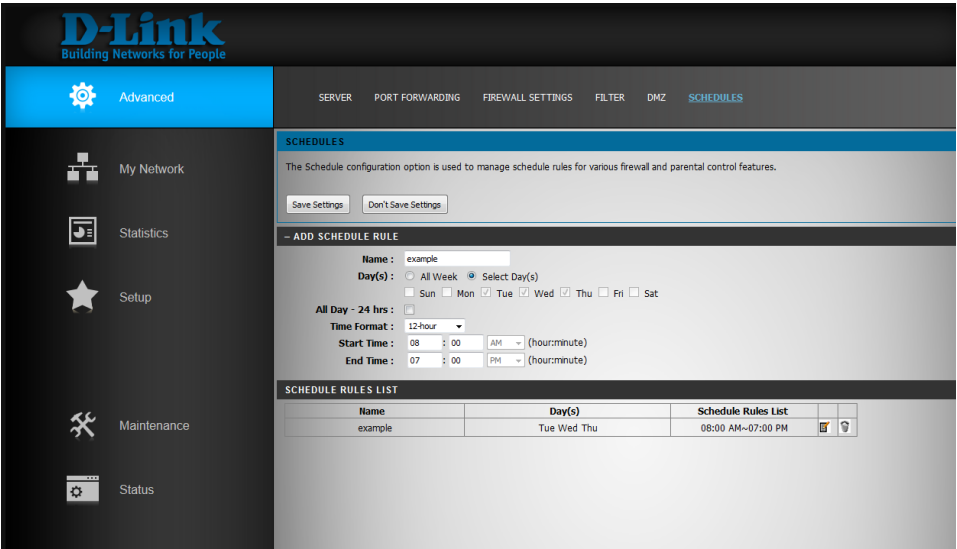
Password: Enter the **Password** for your DDNS account. Re-enter to verify password.

Timeout: Enter a **Timeout** time (in hours).

Status: Displays the current *Connection Status*.

Schedules

- Name:** Enter a name for your new schedule.
- Day(s):** Click **Select Day(s)**, and then check the boxes by the preferred days, or click **All Week** to include every day of the week.
- All Day - 24 Hrs:** Check this box to to select 24 hours, or uncheck it and enter a **Start Time** and **End Time** for your schedule.
- Time Format:** Select **12-hour** or **24-hour** format.
- Schedule Rules** The schedules you created will be listed here. Click the **List:** **Edit** icon to make changes or click the **Trash** icon to remove the schedule.
- Once you create a schedule, click **Save Settings**.



Maintenance

Admin

This page will allow you to change the Administrator password, system name, remote management, and time settings.

Admin Password: Enter a new password for the Admin login name. Enter again to verify password.

Gateway Name: Enter a name for your router.

Enable Graphical Authentication: Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.

Enable HTTPS Server: Check to enable HTTPS to connect to the router securely. This means to connect to the router, you must enter **https://192.168.0.1** (for example) instead of **http://192.168.0.1**.

Enable Remote Management: Remote management allows the DGL-5500 to be configured from the Internet by a web browser. A username/password is still required to access the Web Management interface.

Remote Admin Port: The port number used to access the DGL-5500 is used in the URL. Example: **http://x.x.x.x:8080** whereas x.x.x.x is the Internet IP address of the DGL-5500 and 8080 is the port used for the Web Management interface.

Note: If you checked the box to **Enable HTTPS Server**, you must enter **https://** as part of the URL to access the router remotely.

Remote Admin Inbound Filter: This section will list any rules that are created. You may click the **Edit** icon to change the settings or enable/disable the rule, or click the **Trash** icon to remove the rule. **Details** will display the current remote admin filter.

For the *Time Configuration* section, proceed to the next page.

The screenshot displays the D-Link Maintenance Admin interface. The left sidebar contains navigation links: My Network, Statistics, Setup, Advanced, and Status. The main content area is titled 'Maintenance' and includes tabs for ADMIN and SYSTEM. The ADMIN tab is active, showing the following sections:

- ADMINISTRATOR SETTINGS:** A note about the 'admin' account and a 'Save Settings' button.
- ADMIN PASSWORD:** Fields for Password and Verify Password, with a note to enter the same password in both boxes.
- SYSTEM NAME:** A field for Gateway Name, currently showing 'DGL-5500A1'.
- ADMINISTRATION:** Checkboxes for 'Enable Graphical Authentication', 'Enable HTTPS Server' (checked), and 'Enable Remote Management'. Below these are fields for 'Remote Admin Port' (8080) and 'Remote Admin Inbound Filter' (Allow All).
- TIME CONFIGURATION:** Fields for Time (Tuesday, March 04, 2014 2:28:18 PM), Time Zone (GMT-08:00 Pacific Time (US/Canada), Tijuana), and a checkbox for 'Enable Daylight Saving'.

Time

The Time Configuration section allows you to configure, update, and maintain the correct time on the internal system clock.

Time: Displays the current date and time of the router.

Time Zone: Select your **Time Zone** from the drop-down menu.

- Enable Daylight Saving:

Check to enable manual entry of daylight saving time.
- Daylight Saving Dates:

Enter a start date, an end date, including a day of the week, and time for beginning and ending of daylight saving time.

Click **Save Settings**.

TIME CONFIGURATION

Time : Wednesday, May 29, 2013 1:41:31 PM

Time Zone : (GMT-08:00) Pacific Time (US/Canada), Tijuana

Enable Daylight Saving : ☐

Daylight Saving Dates :

	Month	Week	Day of Week	Time
DST Start	Mar	3rd	Sun	1:00 AM
DST End	Nov	2nd	Sun	1:00 AM

TIME CONFIGURATION

Time : Tuesday, March 04, 2014 2:30:19 PM

Time Zone : (GMT-08:00) Pacific Time (US/Canada), Tijuana

Enable Daylight Saving : ☒

Daylight Saving Dates :

	Month	Week	Day of Week	Time
DST Start	Mar	3rd	Sun	1:00 AM
DST End	Nov	2nd	Sun	1:00 AM

System

The System Settings section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created. You can save the current system settings onto the local hard drive of your computer and upgrade your firmware.

Current Firmware Version: Displays *Current Firmware Version* and *Date* of the firmware installed on your DGL-5500.

Check Online Now for Latest Firmware: Click **Check Now** to see if there is an update available. If there is, you must download the firmware file to the local hard drive on your computer.

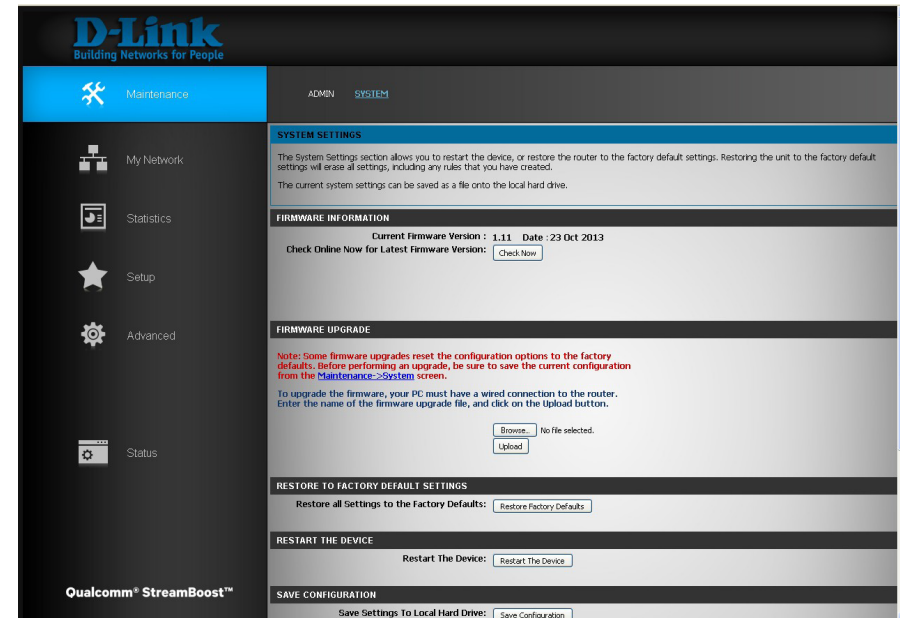
Firmware Upgrade

Browse: After you have downloaded the new firmware to your computer, click **Browse** to locate the firmware update on your hard drive.

Upload: Once you locate the file on your computer, click **Upload** to complete the firmware upgrade.

Restore All Settings to Factory Default: Click **Restore Factory Defaults** to restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the **Save Configuration** button below. (Refer to instructions on the next page.)

Restart the Device: Click **Restart the Device** to reboot the router.



Note: Before upgrading firmware, you may wish to save the current router configuration settings. Use the **Save Configuration** button as described below:

Save Settings to Local Hard Drive: Save the current router configuration settings to a file on the hard disk of the computer you are using. First, click the **Save Configuration** button. A dialog box will open, allowing you to select a location and file name for the current router settings.

Load Settings from Local Hard Drive: Load previously saved router configuration settings from your local hard drive. First, click the **Browse** button to locate a previously saved file of configuration settings. Then, click the **Restore Configuration from File** button to transfer those settings to the router.

The screenshot displays a web-based configuration interface for a router, specifically the 'FIRMWARE UPGRADE' section. The interface is organized into several distinct sections, each with a dark header bar and a light gray content area. The 'FIRMWARE UPGRADE' section at the top includes a red note about configuration resets, instructions for the upgrade process, and buttons for 'Browse' and 'Upload'. Below this is the 'RESTORE TO FACTORY DEFAULT SETTINGS' section with a 'Restore Factory Defaults' button. The 'RESTART THE DEVICE' section contains a 'Restart The Device' button. The 'SAVE CONFIGURATION' section features a 'Save Configuration' button. Finally, the 'UPLOAD CONFIGURATION' section includes 'Browse' and 'Restore Configuration from File' buttons. The interface uses a clean, functional design with clear labels and accessible controls.

FIRMWARE UPGRADE

Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration from the [Maintenance->System](#) screen.

To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button.

No file selected.

RESTORE TO FACTORY DEFAULT SETTINGS

Restore all Settings to the Factory Defaults:

RESTART THE DEVICE

Restart The Device:

SAVE CONFIGURATION

Save Settings To Local Hard Drive:

UPLOAD CONFIGURATION

Load Settings From Local Hard Drive: No file selected.

Status Device Info

This page displays the current information for the DGL-5500. It will display the LAN, WAN (Internet), and Wireless information. If your Internet connection is set up for a Dynamic IP address then a **DHCP Release** button and a **DHCP Renew** button will be displayed. Use **DHCP Release** to disconnect from your ISP and use **DHCP Renew** to connect to your ISP.

If your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

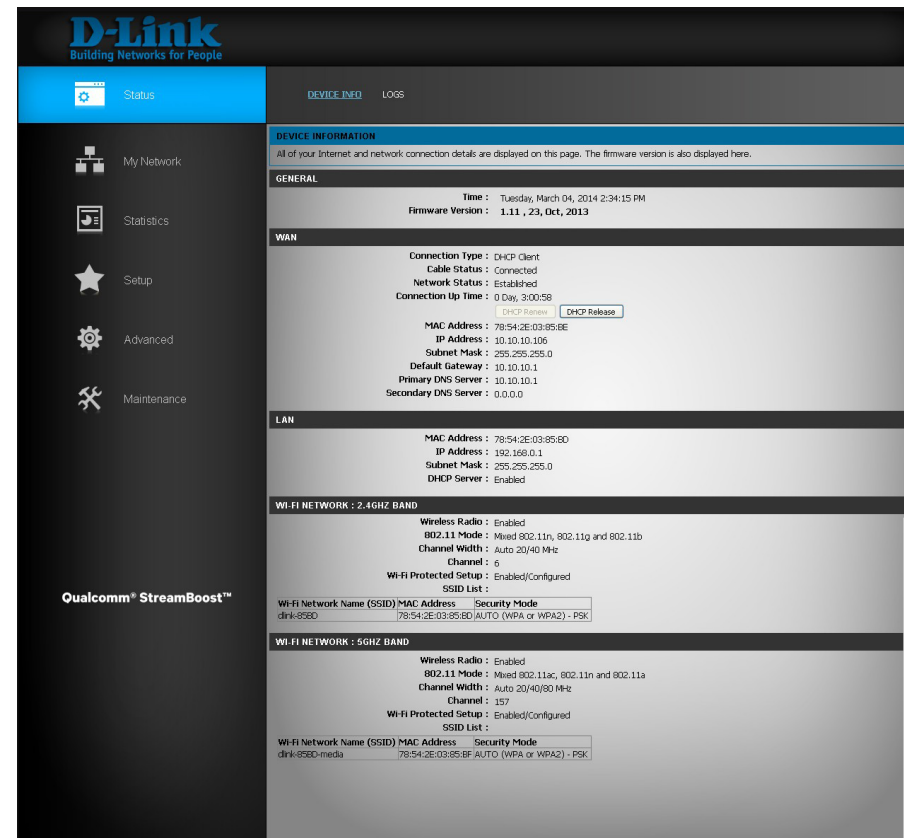
General: Displays the current *Date*, *Time*, and the router's current *Firmware Version*.

WAN: Displays the *MAC Address* and the public IP settings.

LAN: Displays the *MAC Address* and the private (local) IP settings for the router.

Wi-Fi Network (2.4GHz): Displays the 2.4GHz wireless *MAC Address* and your wireless settings such as *SSID*, *Channel*, and security settings.

Wi-Fi Network (5GHz): Displays the 5GHz wireless *MAC Address* and your wireless settings such as *SSID*, *Channel*, and security settings.



Logs

The router automatically logs (records) events of possible interest in its internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. The Logs option allows you to view the router logs and select what types of events you want to view.

Log Type: You can select the type of logs that you would like to review.

Enable Logging to Syslog Server: Click to enable syslog server support, so you can send the log files to a computer on your network that is running a syslog utility. Click **Save Settings**.

First Page: Click to go to the first page.

Last Page: Click to go to the last page.

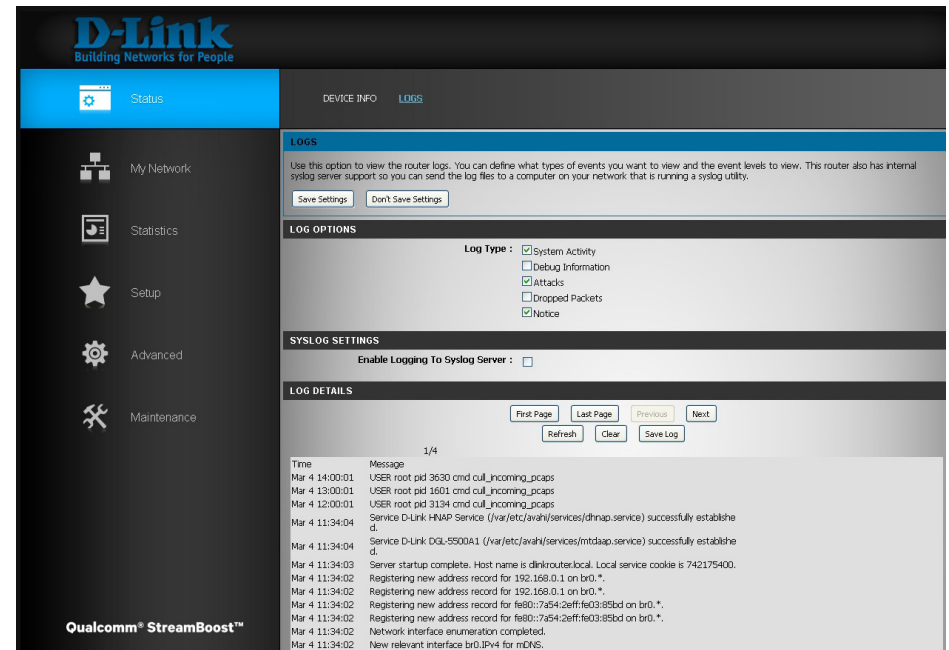
Previous: Click to go back one page.

Next: Click to go to the next page.

Refresh: Updates the log details.

Clear: Clears all of the log contents.

Save Log: Click **Save Log** to save log file to local hard drive.



Statistics

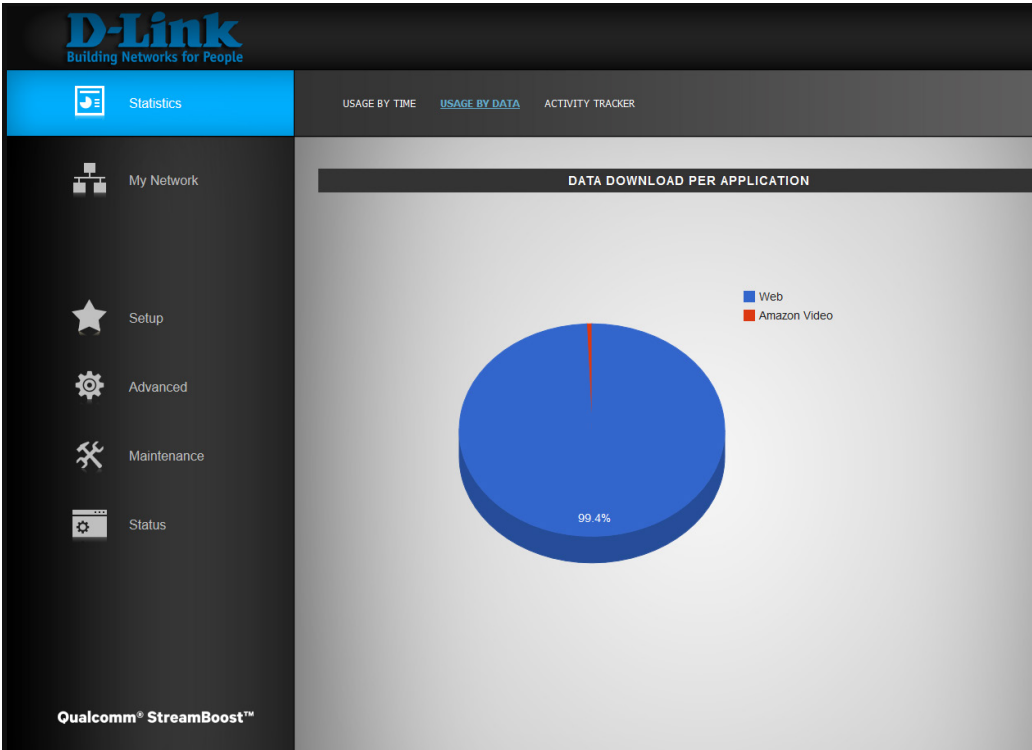
Usage by Time

The screen below displays the **Usage by Time**. Here you can view the *Active Time* (in minutes) and see what applications are being used. You can select the time frame from the drop-down menu. Choose from last month, last week, or last day.



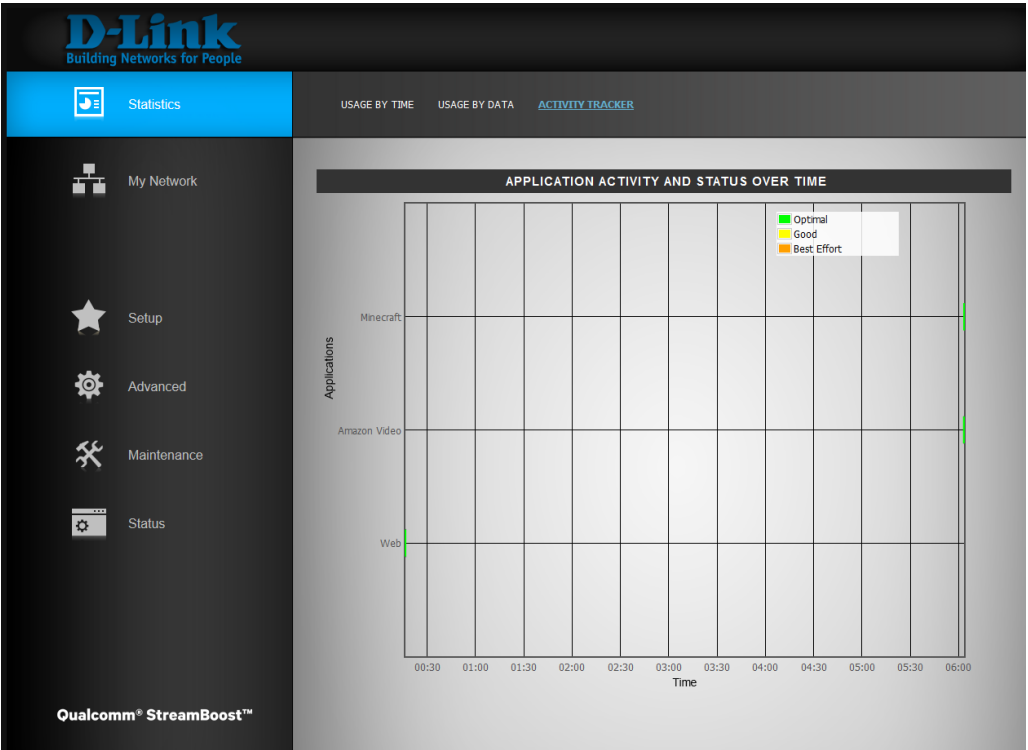
Usage by Data

The screen below displays the **Usage by Data**.



Activity Tracker

The screen below displays *Application Activity and Status Over Time*.

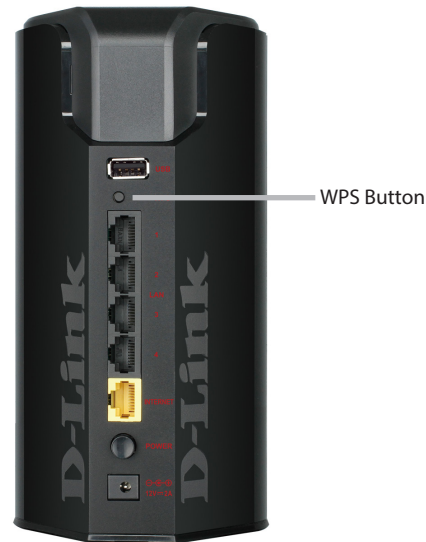


Connect a Wireless Client to your Router

WPS Button

The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DGL-5500 router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DGL-5500 for a minimum of one second. The Power LED on the front will start to blink green.

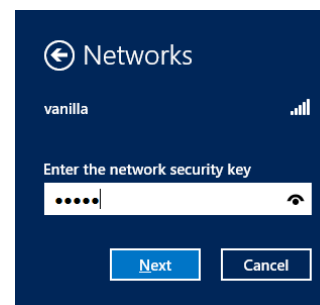
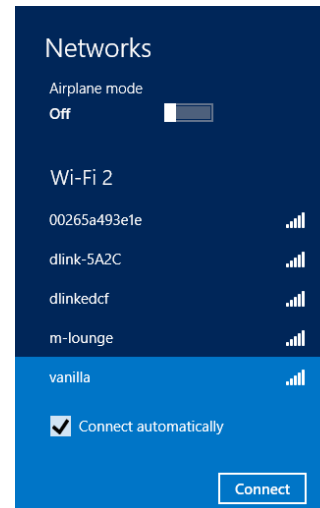
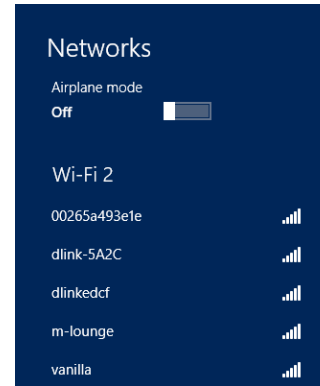


Step 2 - Within two minutes, press the WPS button on your wireless client (or launch the software utility and start the WPS process).

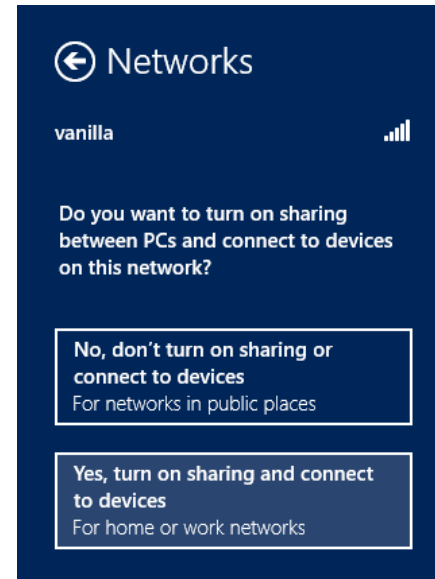
Step 3 - Allow up to one minute to configure. Once the Power LED stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 8

1. Click on the wireless computer icon in your system tray (lower-right corner next to the time).
2. A list of available wireless networks will appear.
3. Click the wireless network (SSID) you want to connect to and then click **Connect**.
4. If the network is secure/encrypted, enter the Wi-Fi password (security key) and click **Next**.



5. Click either to enable or disable file sharing.
6. You will now be connected to your wireless network.



If you get a good signal but cannot access the Internet, confirm the encryption by reviewing the profile or check the TCP/IP settings for your wireless adapter. Refer to the *Networking Basics* section in this manual for more information.

Windows® 7

WPA/WPA2

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner).



Wireless Icon

2. The utility will display any available wireless networks in your area.

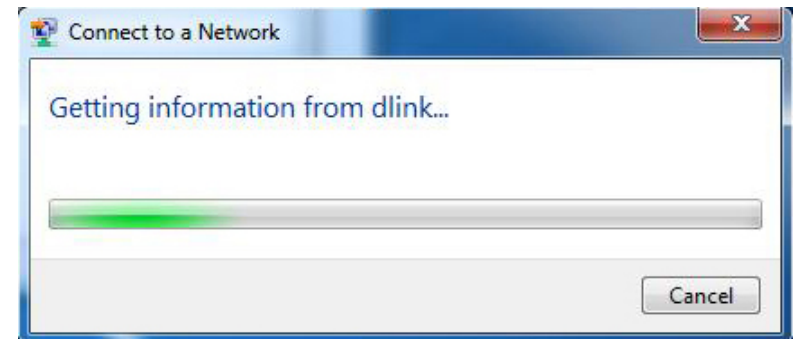


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.

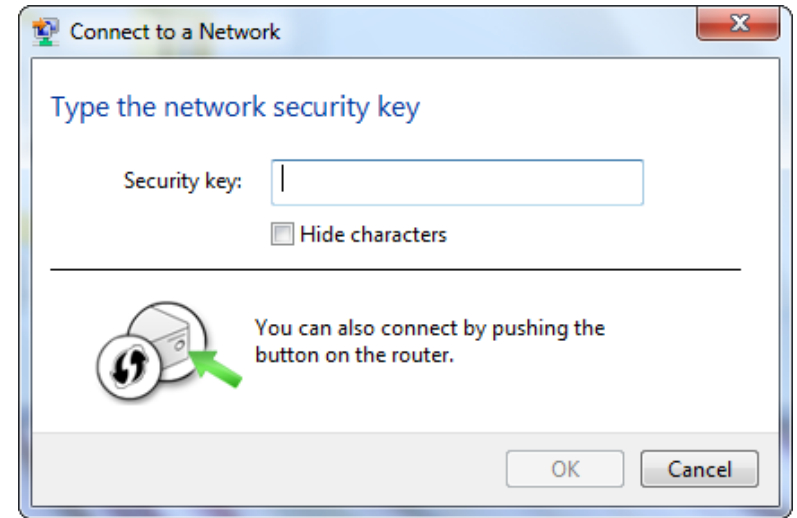


4. The following window appears while your computer tries to connect to the router.



5. Enter the same security key or passphrase that is on your router and click **Connect**. You can also connect by pushing the WPS button on the router.

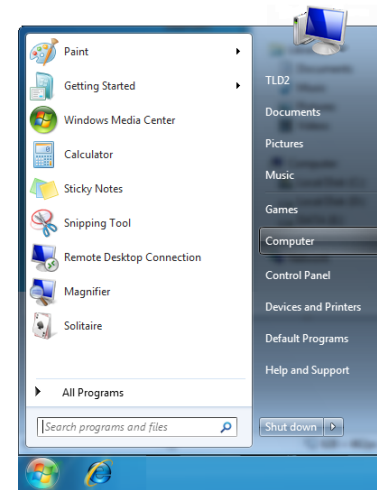
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



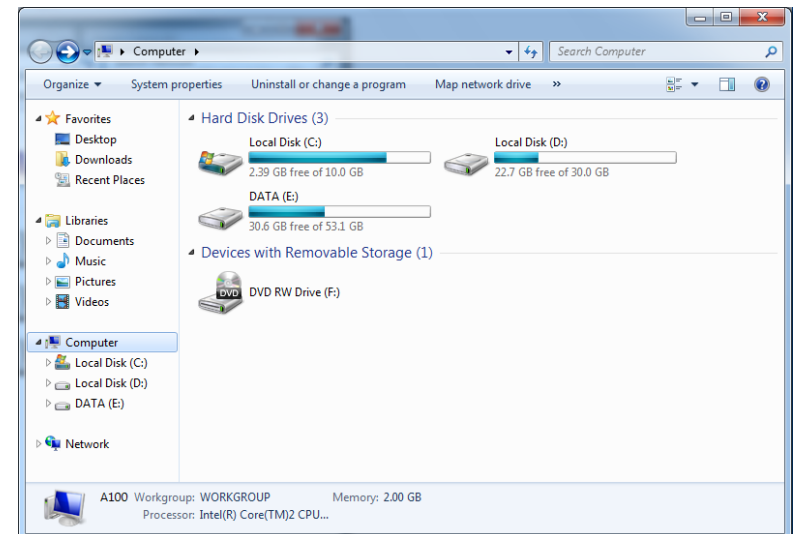
WPS

The WPS feature of the DGL-5500 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

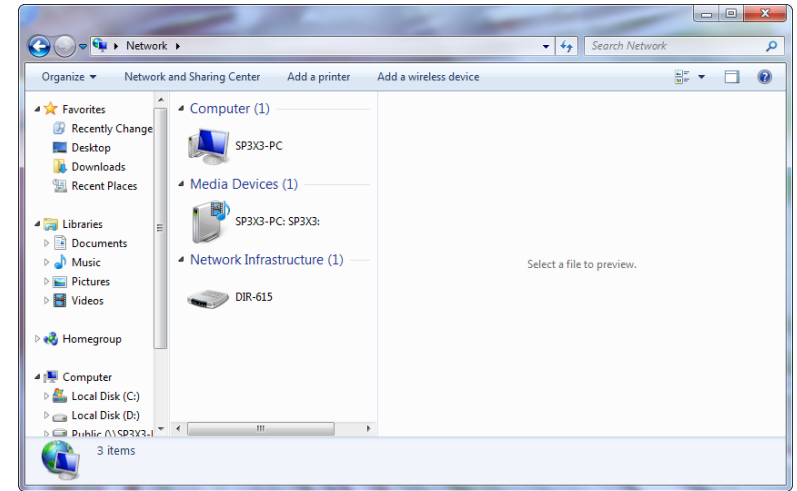
1. Click the **Start** button and select **Computer** from the Start menu.



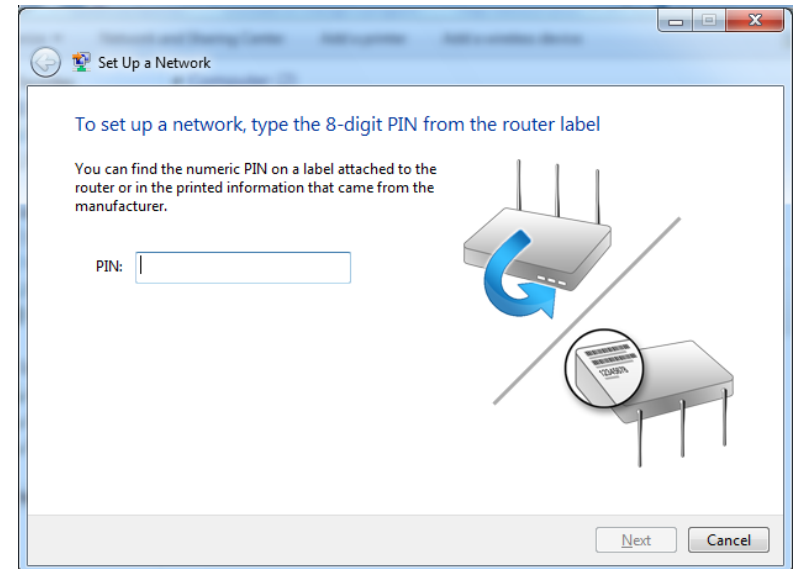
2. Click **Network** on the left side.



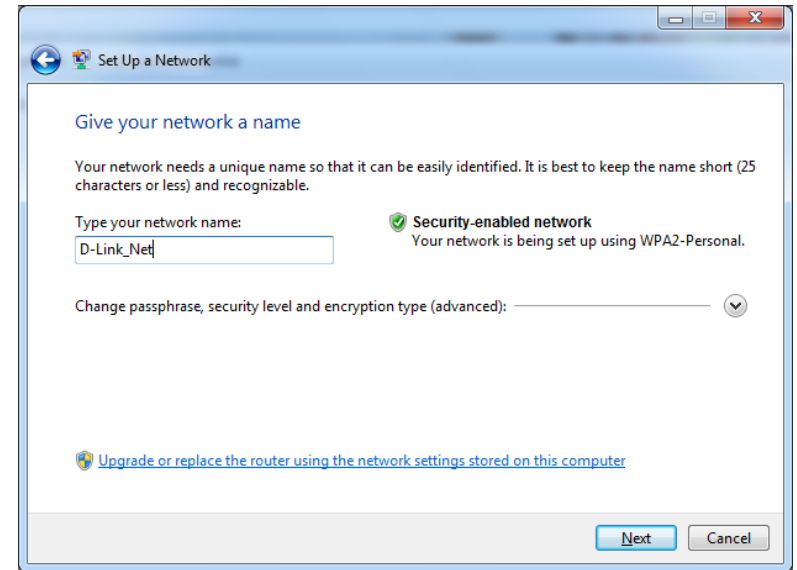
3. Double-click the DGL-5500.




4. Input the WPS PIN number (displayed in the WPS window on the Router's LCD screen or in the **Setup** > **Wireless Setup** menu in the Router's Web UI) and click **Next**.

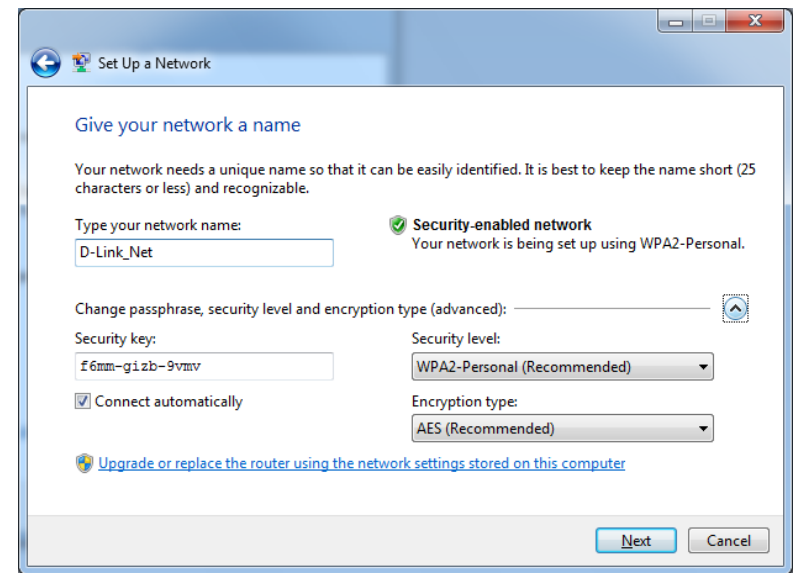


5. Type a name to identify the network.



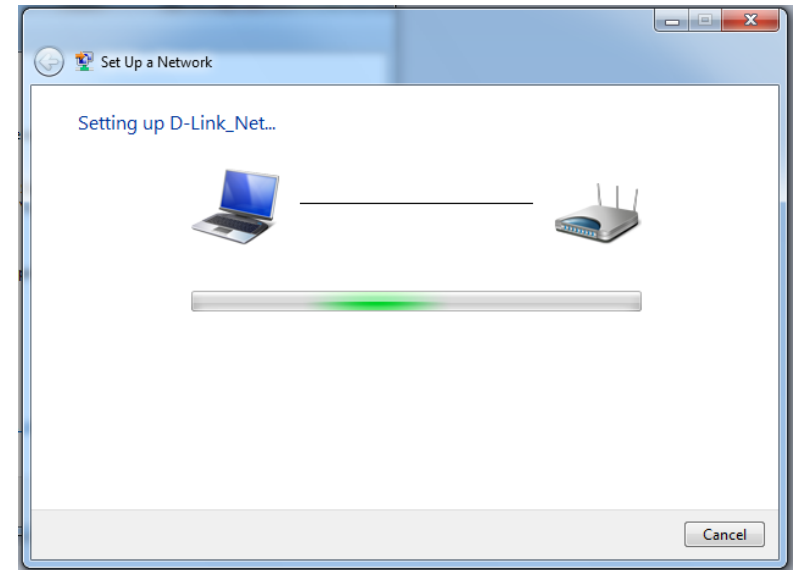
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



7. The following window appears while the Router is being configured.

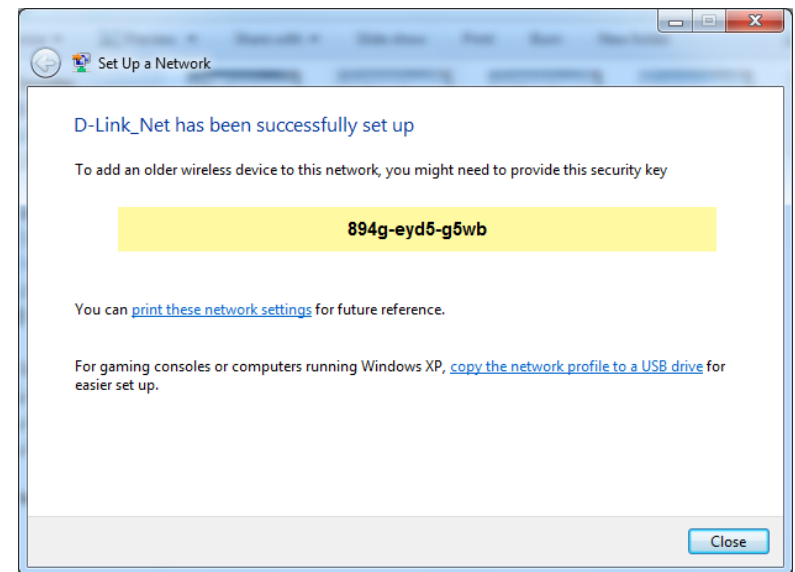
Wait for the configuration to complete.



8. The following window informs you that WPS on the router has been setup successfully.

Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future.

9. Click **Close** to complete WPS setup.



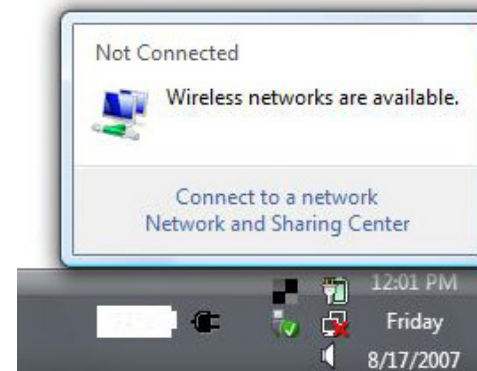
Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

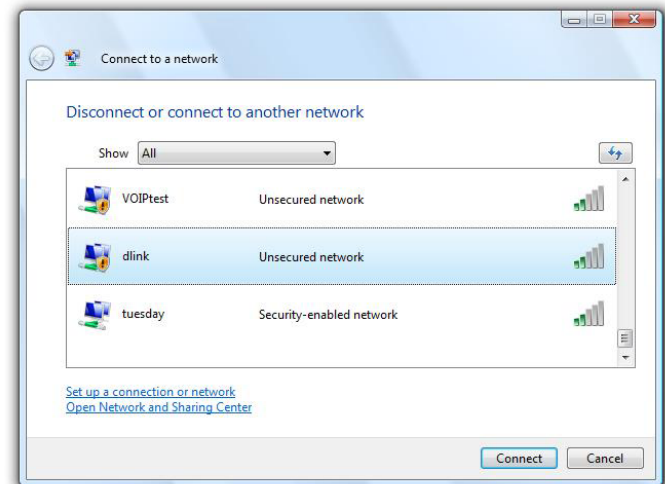
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.



The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



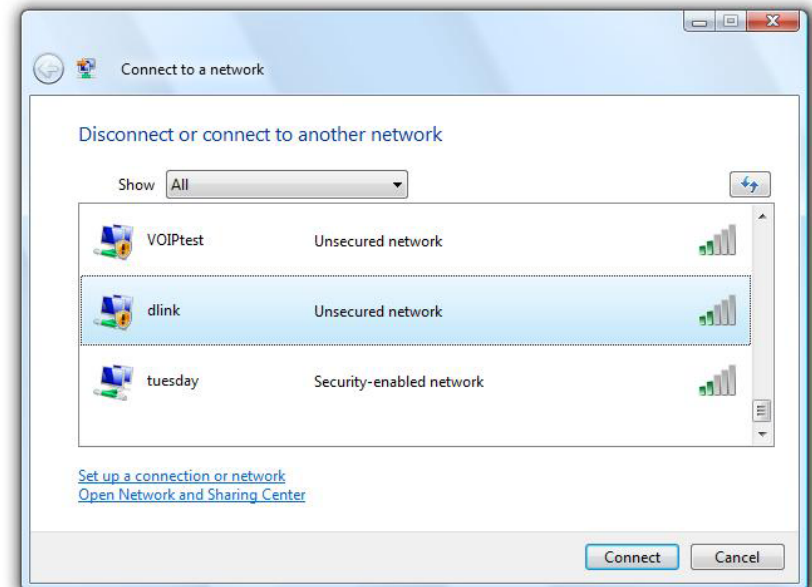
WPA/WPA2

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.

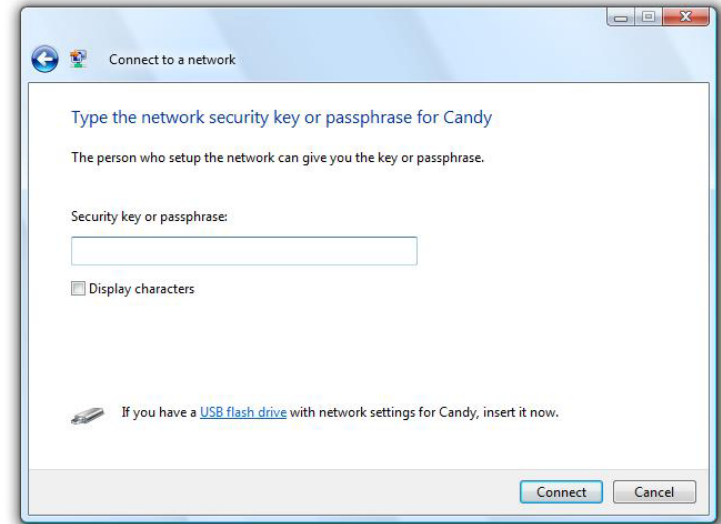


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



WPS/WCN 2.0

The router supports Wi-Fi protection, referred to as WCN 2.0 in Windows Vista®. The following instructions for setting this up depends on whether you are using Windows Vista® to configure the router or third party software.

When you first set up the router, Wi-Fi protection is disabled and unconfigured. To enjoy the benefits of Wi-Fi protection, the router must be both enabled and configured. There are three basic methods to accomplish this: use Windows Vista's built-in support for WCN 2.0, use software provided by a third party, or manually configure.

If you are running Windows Vista®, log into the router and click the **Enable** checkbox in the **Basic > Wireless** section. Use the Current PIN that is displayed on the **Advanced > Wi-Fi Protected Setup** section or choose to click the **Generate New PIN** button or **Reset PIN to Default** button.



If you are using third party software to set up Wi-Fi Protection, carefully follow the directions. When you are finished, proceed to the next section to set up the newly-configured router.

Windows® XP

Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below.

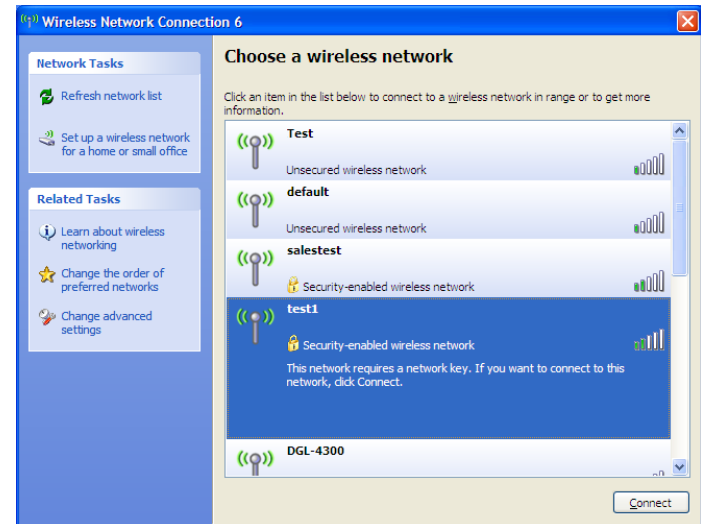
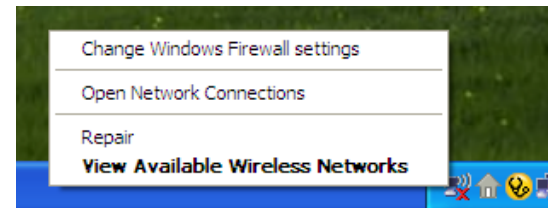
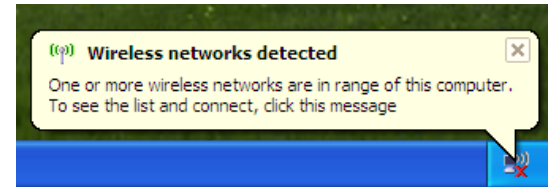
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

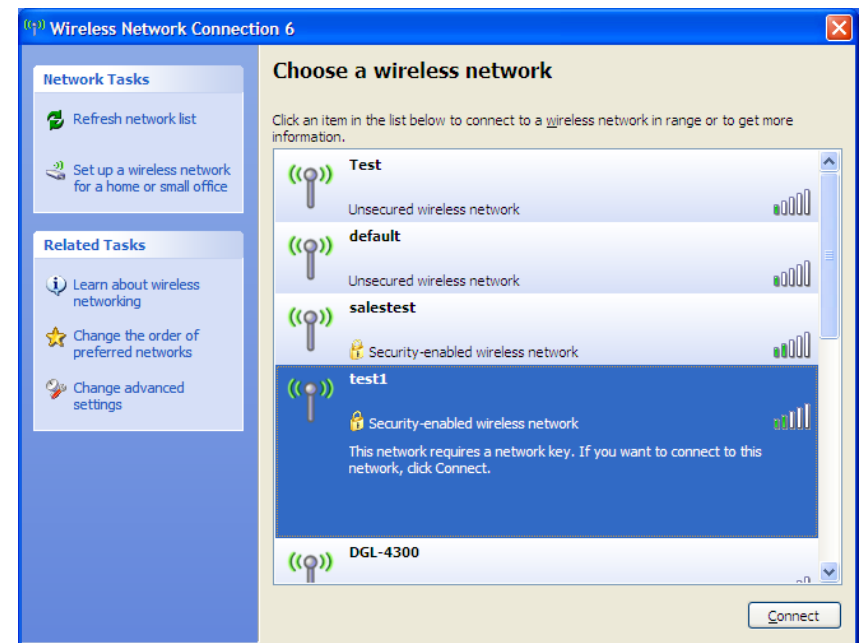
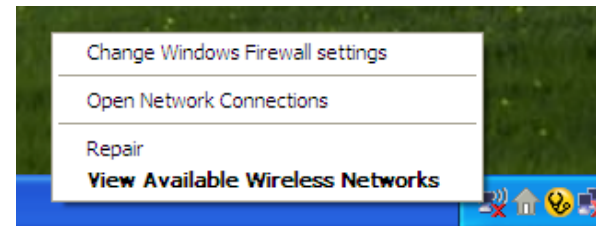
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

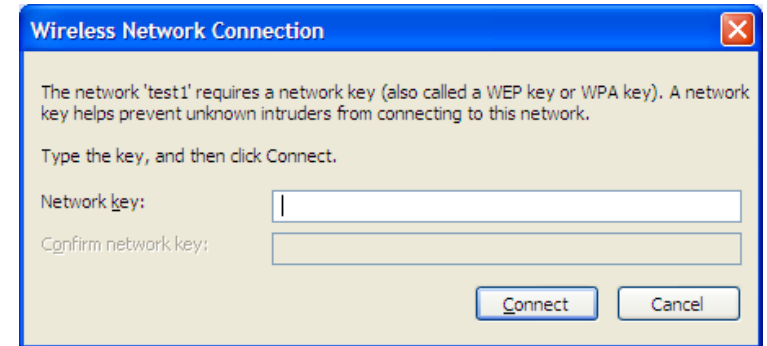
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.
2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK passphrase and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The WPA-PSK passphrase must be exactly the same as on the wireless router.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DGL-5500. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (192.168.0.1 for example), you are not connecting to a website nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Internet Explorer 7 and higher
 - Firefox
 - Chrome
 - Safari 4 and higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
 - Go to **Start > Settings > Control Panel**. Double-click the **Internet Options** icon. From the **Security** tab, click the button to restore the settings to their defaults.
 - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the **LAN Settings** button. Make sure nothing is checked. Click **OK**.
 - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
 - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for your web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. Unfortunately this process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the bottom of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. To re-configure the router, refer to ["Configuration" on page 13](#).



3. Why can't I connect to certain sites or send and receive e-mails when connecting through my router?

If you are having a problem sending or receiving e-mail, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL.

- Click on **Start** and then click **Run**.
- Windows® 95, 98, and Me users type in **command** (Windows® NT, 2000, XP, Vista®, and 7 users type in **cmd**) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

ping [url] [-f] [-l] [MTU value]

Example: **ping yahoo.com -f -l 1472**

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms
C:\>
```

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, let's say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with ($1452+28=1480$).

Once you find your MTU, you can now configure your router with the proper MTU size.

To change the MTU rate on your router follow the steps below:

- Open your browser, enter the IP address of your router (192.168.0.1) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on **Setup** and then click **Manual Configure**.
- To change the MTU enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your e-mail. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Router is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

Why D-Link Wireless?

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

How does wireless work?

Wireless works similar to how cordless phones work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away.

Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home

- Gives everyone at home broadband access
- Surf the web, check email, instant message, etc.
- Gets rid of the cables around the house
- Simple and easy to use

Small Office and Home Office

- Stay on top of everything at home as you would at office
- Remotely access your office network from home
- Share Internet connection and printer with multiple computers
- No need to dedicate office space

Where is wireless used?

Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a D-Link Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

Tips

Here are a few things to keep in mind, when you install a wireless network.

Centralize your router or Access Point

Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to product manual for detail information on how to set it up.

Wireless Modes

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-Hoc** – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more DGL-5500 wireless network Cardbus adapters.

An Infrastructure network contains an Access Point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-Hoc network contains only clients, such as laptops with wireless cardbus adapters. All the adapters must be in Ad-Hoc mode to communicate.

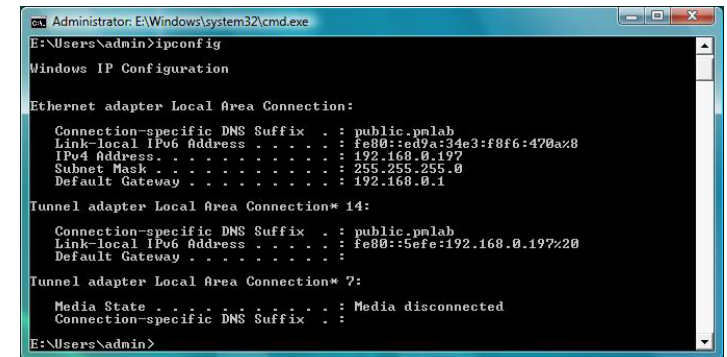
Networking Basics

Check your IP address

After you install your new D-Link wireless adapter and have established a wireless connection, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e., router) automatically. To verify your IP address, please follow the steps below.

Windows® 8 Users

- Press the **Windows key** and **R** together. Type **cmd** in the box and click **OK**.
- At the prompt, type **ipconfig** and press **Enter**.
- This will display the IP address, subnet mask, and default gateway of your adapter.



```
Administrator: E:\Windows\system32\cmd.exe
E:\Users\admin>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : public.pmlab
    Link-local IPv6 Address . . . . . : fe80::ed9a:34e3:f8f6:470a%8
    IPv4 Address. . . . . : 192.168.0.197
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Tunnel adapter Local Area Connection* 14:

    Connection-specific DNS Suffix  . : public.pmlab
    Link-local IPv6 Address . . . . . : fe80::5efe:192.168.0.197%20
    Default Gateway . . . . . :

Tunnel adapter Local Area Connection* 7:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

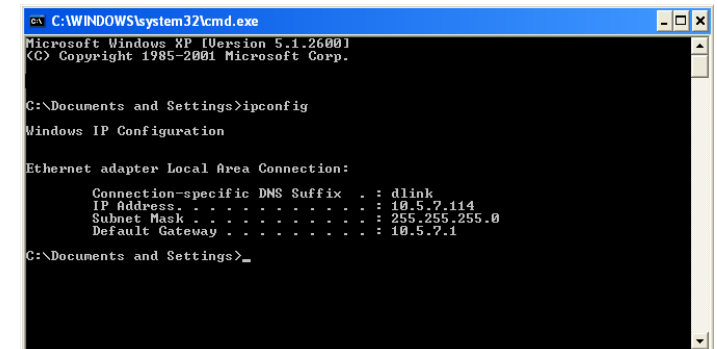
E:\Users\admin>
```

Windows® 7/Vista® Users

- Click **Start**, type **cmd** in the search box and then click **OK**.
- At the prompt, type **ipconfig** and press **Enter**.
- This will display the IP address, subnet mask, and default gateway of your adapter.

Windows® XP Users

- Click on **Start > Run**. In the run box type **cmd** and click **OK**.
- At the prompt, type **ipconfig** and press **Enter**.
- This will display the IP address, subnet mask, and the default gateway of your adapter.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address. . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>
```

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

Statically Assign an IP Address

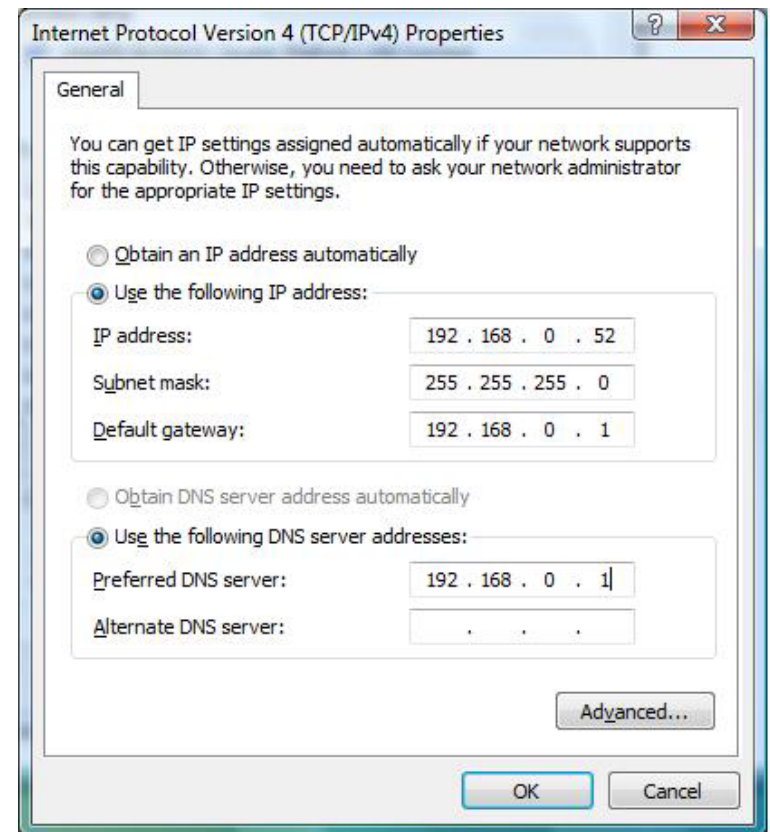
If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Windows® 8 Users

- Press the **Windows** key and then type **IP**. Click **Settings** on the right side and then click **View Network Connections**.
- Right-click on the adapter which represents your D-Link wireless network adapter.
- Highlight **Internet Protocol Version 4 (TCP /IPv4)** and click **Properties**.
- Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or LAN IP address on your router or network.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network.

- Set **Default Gateway** the same as the LAN IP address of your router or gateway.
- Set **Primary DNS** the same as the LAN IP address of your router or gateway.
- The **Secondary DNS** is optional (you may enter a DNS server from your ISP).
- Click **OK** to save your settings.



Windows® 7/ Vista® Users

- Click on **Start > Control Panel** (make sure you are in Classic View). Double-click on the **Network and Sharing Center** icon. If you are using Windows Vista, click on **Manage network connections** along the left panel in the window. For Windows® 7, click on **Change adapter settings**.

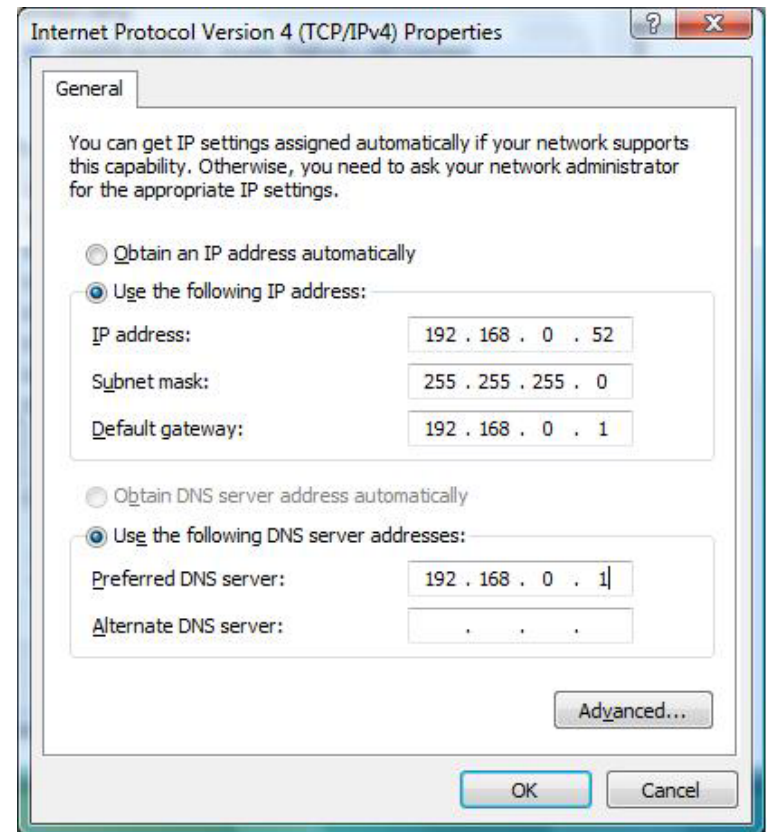
- Right-click on the **Local Area Connection** which represents your D-Link wireless network adapter which will be connected to your network.

- Highlight **Internet Protocol Version 4 (TCP /IPv4)** and click **Properties**.

- Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or LAN IP address on your router or network.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network.

- Set **Default Gateway** the same as the LAN IP address of your router or gateway.
- Set **Primary DNS** the same as the LAN IP address of your router or gateway.
- The **Secondary DNS** is optional (you may enter a DNS server from your ISP).
- Click **OK** to save your settings.

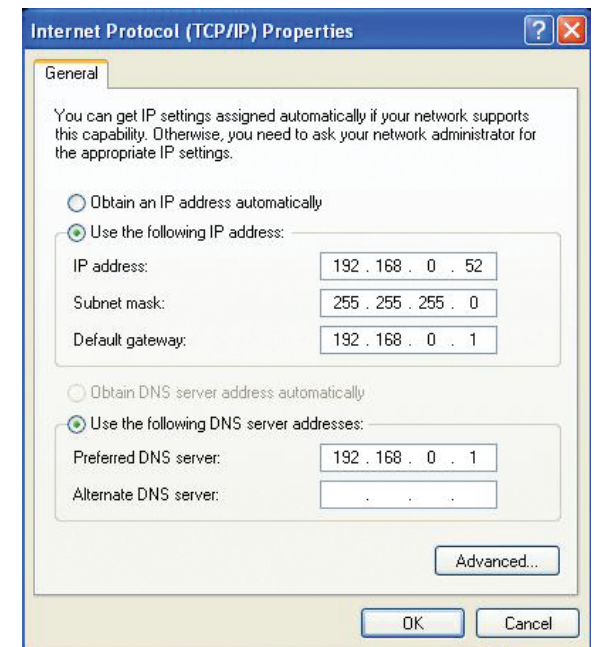


Windows® XP Users

- Click on **Start > Control Panel**. Make sure you are in Classic View. Double-click on the Network Connections icon.
- Right-click on the **Local Area Connection** which represents your D-Link wireless network adapter (or other adapter) which will be connected to your router.
- Highlight **Internet Protocol (TCP/IP)** and click **Properties**.
- Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network.

- Set **Default Gateway** the same as the LAN IP address of your router or gateway.
- Set **Primary DNS** as the LAN IP address of your router or gateway.
- The **Secondary DNS** is optional (you may enter a DNS server from your ISP).
- Click **OK** to save your settings.



Technical Specifications

Standards

- IEEE 802.11ac (draft)
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3x Flow Control support

Physical Interface

- 4 Gigabit Ethernet LAN Ports
- 1 Gigabit Ethernet WAN Port
- 1 WPS Push Button
- Reset Button
- USB 2.0 Port

Security

- Wi-Fi Protected Access (WPA/WPA2)
- WPS™

LEDs

- Power/WPS
- Internet

Power

- DC 12V/2.0A

Maximum Operating Voltage

- 20V

Operating Temperature

- 30° to 104° F (0° to 40° C)

Operating Humidity

- 10% to 90% non-condensing

Certifications

- CE
- FCC
- IC
- C-Tick
- CSA international

Dimensions

- 4.68 x 3.90 x 7.54 inches (119 x 99 x 191 mm)

Weight

- 0.77 lb (349g)

Warranty

- 2-Year Limited Warranty

¹ Maximum wireless signal rate derived from IEEE Standard 802.11ac (draft), 802.11a, 802.11g, and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

² Frequency Range varies depending on country's regulation.

Contacting Technical Support

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

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DGL-5500)
- Hardware Revision (located on the label on the bottom of the router (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the router).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:

(877) 453-5465

Internet Support:

<http://support.dlink.com>

For customers within Canada:

Phone Support:

(800) 361-5265

Internet Support:

<http://support.dlink.ca>

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<http://tsd.dlink.com.tw/GPL.asp>

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Please direct all inquiries to:
Email: GPLCODE@DLink.com
Snail Mail:
Attn: GPLSOURCE REQUEST
D-Link Systems, Inc.
17595 Mt. Herrmann Street
Fountain Valley, CA 92708

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- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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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): Two (2) years
- 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 D-Link 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 (USA):

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 D-Link 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 <https://support.dlink.com>, 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 <http://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. Please refer to the shipping and packaging instructions located online at <http://rma.dlink.com>.
- 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.

Submitting A Claim (Canada):

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:

- Customers need to provide their receipt (proof of purchase) even if the product is registered. Without a receipt, no warranty service will be done. The registration is not considered a proof of purchase.
- 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 D-Link 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 1-800-361-5265, 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.ca/>.
- 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. D-Link 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 be rejected by D-Link. Products shall be fully insured by the customer and shipped to D-Link Networks, Inc., 2525 Meadowvale Boulevard Mississauga, Ontario, L5N 5S2 Canada. 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 Purolator Canada or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in Canada, 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.
- RMA phone number: 1-800-361-5265 Hours of Operation: Monday-Friday, 9:00AM – 9:00PM EST

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.

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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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

FCC Caution:

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

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Operations in the 5.15-5.25GHz band are restricted to indoor usage 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.

ICC 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes:

- (1) le dispositif ne doit pas produire de brouillage préjudiciable, et
- (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution:

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

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.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Registration

Register your product online at registration.dlink.com



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

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