D-Link®



User Manual

Wireless AC600
Dual Band Cloud Router

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 | July 16, 2013 | Initial release for Revision A1 |

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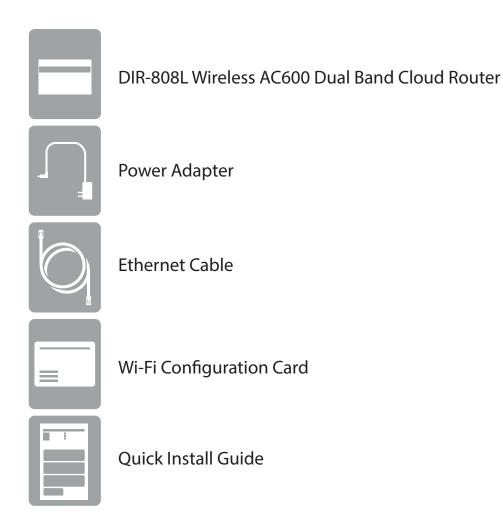
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Package Contents



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 DIR-808L will cause damage and void the warranty for this product.

System Requirements

| Network Requirements | An Ethernet-based broadband modem |
|---|--|
| Web-based Configuration Utility Requirements | Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter or wireless adapter Supported Browsers: • Internet Explorer 7 or higher • Firefox • Safari 4 or higher • Chrome Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version. |
| mydlink Requirements | iPhone/iPad/iPod Touch (iOS 3.0 or higher) Android device (1.6 or higher) Computer with the following browser requirements: Internet Explorer 7 or higher Firefox Safari 5 or higher Chrome iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc. |

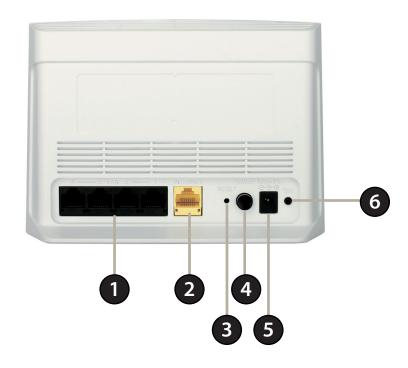
Introduction

The DIR-808L Wireless AC600 Dual Band Cloud Router provides revolutionary wireless speed - up to 150Mbps (802.11n)/433Mbps (802.11ac) - for flawless HD video streaming to multiple devices.

With ground-breaking mydlink Cloud Services, you can monitor your home network from anywhere on your iPhone, iPad, and Android device. See websites that are being visited, block unwanted devices and receive automatic e-mail alerts when unauthorized connections are attempted.

^{*} 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



| 4 | Power Button Power Port | Press the power button to power on and off. Connect the supplied power adapter. |
|---|-------------------------|--|
| 4 | Power Button | Press the power button to power on and off. |
| 3 | Reset Button | Press and hold the reset button with a paper clip for ten seconds to reset the router to the factory default settings. |
| 2 | Internet Port | Connect your broadband modem to this port using an Ethernet cable. |
| 1 | LAN Ports (1-4) | Connect Ethernet devices such as computers, media players, and video game consoles. |

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. If this LED is blinking orange, this indicates that the "on demand" connection type is set and the Internet connection is idle. |

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

- Please configure the router with the computer that was last connected directly to your modem.
- **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 DIR-808L router can work properly. Please contact your ISP or refer to the user manual for your modem/router
 device.

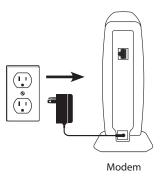
Wireless Installation Considerations

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:

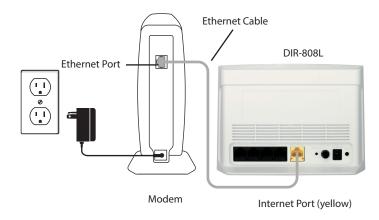
- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between 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 in not in use.

Connect to your Network

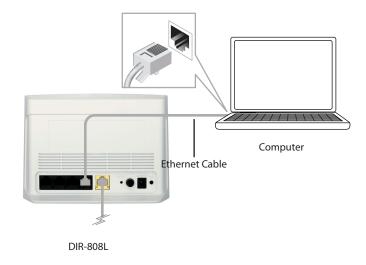
1. Turn off and unplug your DSL or Cable modem. This is required.



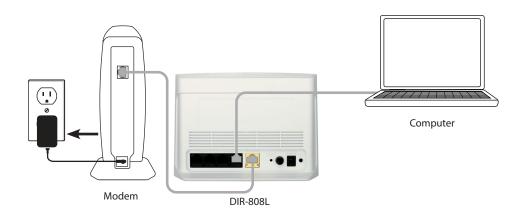
2. Connect an Ethernet cable from the Internet port of the router to the Ethernet port on your DSL or Cable modem.



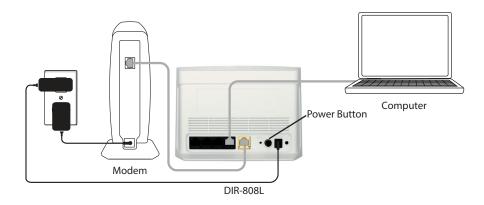
3. Connect another Ethernet cable from the Ethernet port on your computer to one of the LAN ports on the router.



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. Please skip to page 13 to configure your router and 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 page 14).

Connect to an Existing Router

Note: It is strongly recommended to replace your existing router with the DIR-808L instead of using both. If your modem is a combo router, you may want to contact your ISP or manufacturer's user guide to put the router into Bridge mode, which will 'turn off' the router (NAT) functions.

If you are connecting the DIR-808L router to an existing router to use as a wireless access point and/or switch, you will have to do the following to the DIR-808L 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 **Advanced Network**. Uncheck the **Enable UPnP** checkbox. Click **Save Settings** to continue.
- 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. 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 3 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** and **Wireless Security** sections 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:

- QRS Mobile App Use your iPhone, iPad, or Android device to configure your router. Refer to page 21
- D-Link Setup Wizard This wizard will launch when you log into the router for the first time. Refer to page 14.
- Manual Setup Log into the router and manually configure your router (advanced users only). Refer to page 23.

Quick Setup Wizard

If this is your first time installing the router, launch your web browser (e.g., Internet Explorer), and you will automatically be directed to the **Setup Wizard** screen.

If you have already configured your settings, or if you are asked to login, and you would like to access the Configuration Utility, refer to page 22.



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

This wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.

WELCOME TO THE D-LINK SETUP WIZARD

This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

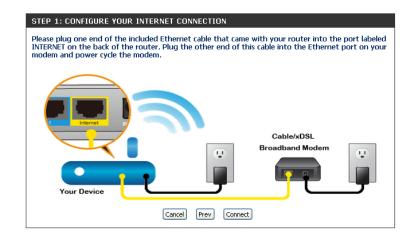
• Step 1: Configure your Internet Connection
• Step 2: Configure your Wi-Fi Security
• Step 3: Set your Password
• Step 4: Select your Time Zone
• Step 5: Confirm WI-FI settings
• Step 6: mydlink Registration

Cancel Next

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, PPTP and L2TP).



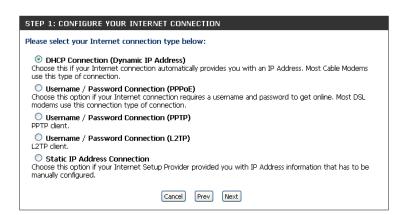
If the router does not detect a valid Ethernet connection from the Internet port, this screen will appear. Connect your broadband modem to the Internet port and then click **Connect**.



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 and click **Next** to continue. You can select **DHCP Connection (Dynamic IP Address)** if your Internet connection automatically provides you with an IP Address. This option is commonly used for cable modem services. 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 **PPTP**, enter your PPTP **User Name**, **Password**, and other information supplied by your ISP. Click **Next** to continue.



| SET USERNAME AND PASSWORD O | ONNECTION (PPTP) |
|---|--|
| | d to have a Username and Password from your Internet P address. If you do not have this information, please contact |
| Address Mode | : O Dynamic IP O Static IP |
| PPTP IP Address | : 0.0.0.0 |
| PPTP Subnet Mask | : 0.0.0.0 |
| PPTP Gateway IP Address | : 0.0.0.0 |
| PPTP Server IP Address (ma be same as gateway) | |
| User Name | : |
| Password | : ••••••••••••• |
| Verify Password | : |
| DNS SETTINGS | |
| Primary DNS Address | : 0.0.0.0 |
| Secondary DNS Address | : 0.0.0.0 |
| | Cancel Prev Next |

If the router detected or you selected **L2TP**, enter your L2TP **User Name**, **Password**, and other information supplied by your ISP. Click **Next** to continue.

SET USERNAME AND PASSWORD CONNECTION (L2TP) To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need L2TP IP address. If you do not have this information, please contact Address Mode :

Dynamic IP

Static IP L2TP IP Address : 0.0.0.0 L2TP Subnet Mask: 0.0.0.0 L2TP Gateway IP Address L2TP Server IP Address (may be same as gateway) User Name: Password : Verify Password : DNS SETTINGS Primary DNS Address : 0.0.0.0 Secondary DNS Address : 0.0.0.0 Prev Next Cancel

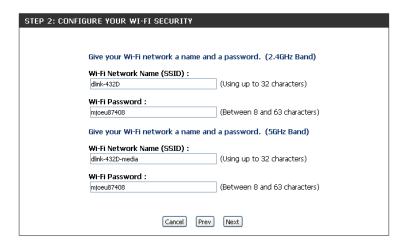
If the router detected or you selected **Static**, enter the IP and DNS settings supplied by your ISP. Click **Next** to continue.

| 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 : | 0.0.0.0 |
| Subnet Mask: | 0.0.0.0 |
| Gateway Address : | 0.0.0.0 |
| DNS SETTINGS | |
| Primary DNS Address : | : 0.0.0.0 |
| Secondary DNS Address : | : 0.0.0.0 |
| | Cancel Prev Next |

For both the 2.4GHz and 5GHz segments, create a wireless network name (SSID) using up to 32 characters.

Create a wireless security passphrase or key (between 8-63 characters). Your wireless clients will need to have this passphrase or key entered to be able to connect to your wireless network.

Click **Next** to continue.



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

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.

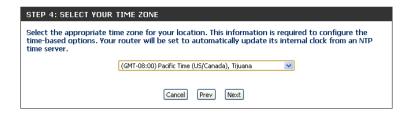
Password:

Verify Password:

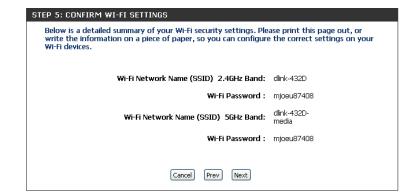
Enable Graphical
Authentication:

Cancel Prev Next

Select your time zone from the drop-down menu and click **Next** to continue.



The *Confirm Wi-Fi Settings* window will display your wireless settings. Make a note of this information so you can configure your Wi-Fi devices. Click **Next** to continue.

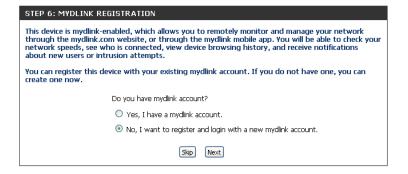


The Saving Settings window will appear.



To use the free mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select if you do have a mydlink account or if you need to create one. Click **Next** to continue.

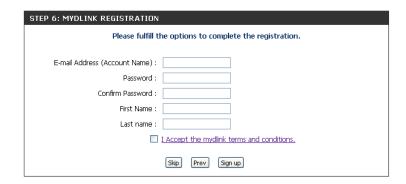
If you do not want to register at this time, click **Skip**.



If you clicked **Yes, I have a mydlink account** enter your mydlink **Account Name** (*E-mail address*) and **Password**. Click **Login** to register your router.



If you clicked **No, I want to login with a new mydlink account** fill out the requested information and click **Sign up** to create your mydlink account. This is a free service. Refer to www.mydlink.com for more information.



The mydlink App will allow you to receive notices, browse network users, and configure your router from an iPhone/iPad/iPod Touch (iOS 3.0 or higher), or Android device (1.6 or higher).

To download the "mydlink lite" app, visit the Apple Store, Google Play, or **http://mydlink.com/Lite**.



PC and Mac users can use the mydlink portal at http://mydlink.com.



QRS Mobile App

D-Link offers an app for your iPad, iPhone (iOS 4.3 or higher), or Android device to install and configure your router.

Step 1

From your iPad, iPhone, or Android device, go to the iTunes Store and search for 'D-Link'. Select **QRS Mobile** and then download it.

You may also scan this code to download.

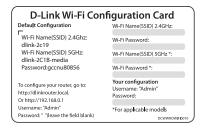






Step 2

Once your app is installed, you may now configure your router. Connect to the router wirelessly by going to your wireless utility on your device. Scan for the wireless network name (SSID) as listed on the supplied *Wi-Fi Configuration Card*. Select and then enter your security password (*Wi-Fi Password*).



Step 3

Once you connect to the router, launch the QRS mobile app and it will guide you through the installation of your router.



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 may use 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.



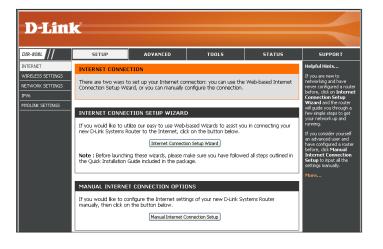
Internet Connection Setup

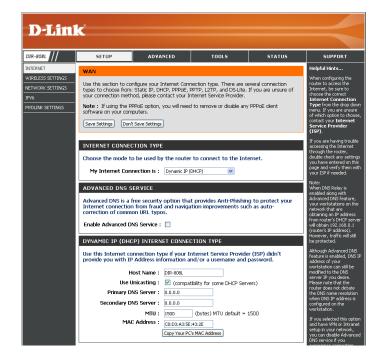
If you want to configure your router to connect to the Internet using the wizard, click **Internet Connection Setup Wizard**. Refer to page 32.

If you consider yourself an advanced user, click **Manual Internet Connection Setup** to configure your connection manually. (Instructions for manual setup begin below.)



Advanced DNS is a free security option that provides anti-phishing protection against fraud, plus it enables auto-correction of common URL typos. If you are using a VPN, do not check the box to enable this feature.





Manual Internet Setup Static (assigned by ISP)

Select **Static IP** if all the IP information is provided to you by your ISP.

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

Enable Advanced DNS Click on the checkbox to enable anti-phishing protection against **Service:** fraud and auto-correction of common URL typos.

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: The **DNS Server** information will be supplied by your ISP (Internet Service Provider.)

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.

Internet Setup Dynamic (Cable)

My Internet Select **Dynamic IP (DHCP)** to obtain IP Address information **Connection is:** automatically from your ISP. This option is commonly used for cable modem services.

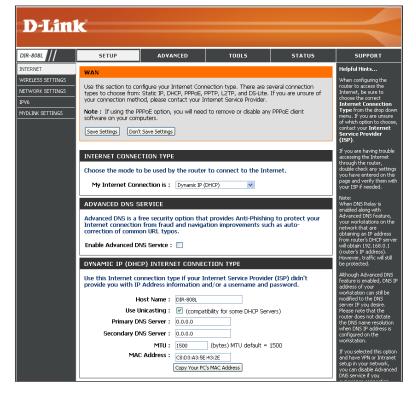
Enable Advanced Click on the checkbox to enable anti-phishing protection against **DNS Service:** fraud and auto-correction of common URL typos.

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 if you are having problems obtaining an IP address **Primary/Secondary** from your ISP.

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 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. 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.

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

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

Enable Advanced Click on the checkbox to enable anti-phishing protection against fraud **DNS Service:** and auto-correction of common URL typos.

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 PPPoE only).

Username: Enter your PPPoE **Username**.

Password: Enter your PPPoE **Password** and retype the password in the next box.

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

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

Maximum Idle Enter a maximum idle time during which the Internet connection is

Time: maintained during inactivity. Enable Auto-reconnect to disable this

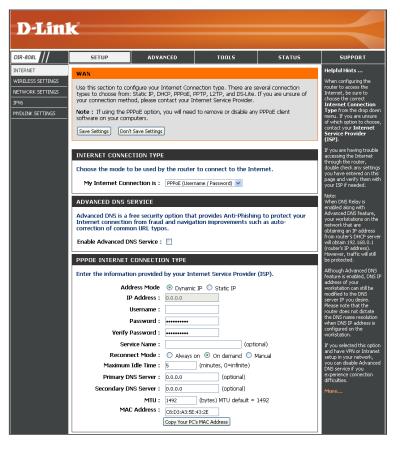
feature.

DNS Servers: Enter the Primary and Secondary **DNS Server** Addresses of your

choice or supplied by your ISP (Internet Service Provider.)

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

The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended MAC Address: 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.



Internet Setup

Choose PPTP (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a username and password.

My Internet Select **PPTP (Username/Password)** from the drop-down menu.

Connection is:

Enable Advanced Click on the checkbox to enable anti-phishing protection against fraud

DNS Service: and auto-correction of common URL typos.

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**.

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

PPTP Subnet Enter the **Subnet Mask** (Static PPTP only).

Mask:

PPTP Gateway IP Enter the **Gateway IP Address** provided by your ISP.

Address:

PPTP Server IP Enter the **Server IP Address** provided by your ISP (optional).

Address:

Username: Enter your PPTP Username.

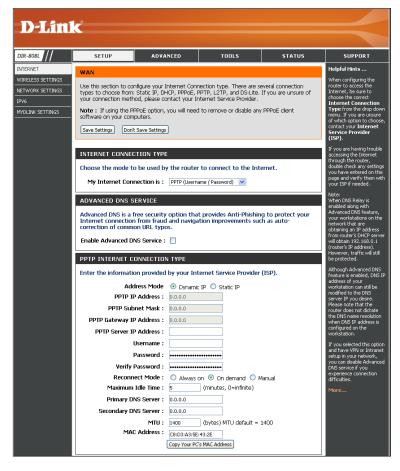
Password: Enter your PPTP **Password** and then retype the password in the next

box.

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

Maximum Idle Enter a Maximum Idle Time during which the Internet connection is

Time: maintained during inactivity. To disable this feature, enable Auto-reconnect.



DNS Servers: The **DNS Server** information will be supplied by your ISP (Internet Service Provider.)

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1400 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.

Internet Setup

Choose L2TP (Layer 2 Tunneling Protocol) if your ISP uses a L2TP connection. Your ISP will provide you with a username and password.

My Internet Select **L2TP (Username/Password)** from the drop-down menu. **Connection is:**

Enable Advanced Click on the checkbox to enable anti-phishing protection against **DNS Service:** fraud and auto-correction of common URL typos.

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**.

L2TP IP Address: Enter the L2TP **IP Address** supplied by your ISP (Static only).

L2TP Subnet Enter the **Subnet Mask** supplied by your ISP (Static only). **Mask**:

L2TP Gateway IP Enter the **Gateway IP Address** provided by your ISP. Address:

L2TP Server IP Enter the **Server IP Address** provided by your ISP (optional). **Address:**

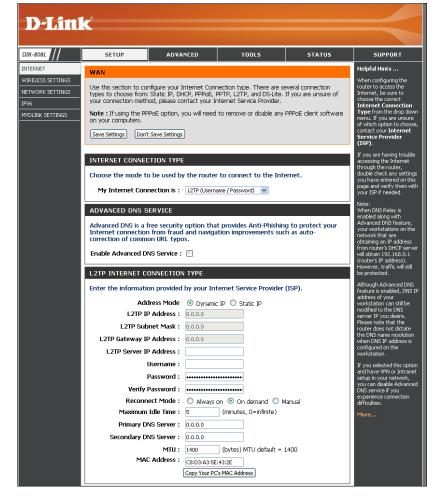
Username: Enter your L2TP **Username**.

Password: Enter your L2TP **Password** and then retype the password in the

next box.

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

Maximum Idle Enter a Maximum Idle Time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Auto-reconnect.



DNS Servers: Enter the Primary and Secondary **DNS Server** Addresses (Static L2TP only).

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1400 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.

Internet Setup DS-Lite

DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration:

My Internet Select **DS-Lite** from the drop-down menu. **Connection is:**

DS-Lite Select the **DS-Lite DHCPv6 Option** to let the router allocate **Configuration:** the AFTR IPv6 address automatically. Select the **Manual**

Configuration option to enter the AFTR IPv6 address in

manually.

AFTR IPv6 After selecting the Manual Configuration option above,

Address: enter the AFTR IPv6 Address here.

B4 IPv4 Address: Enter the B4 IPv4 Address here. (Optional.)

WAN IPv6 Once connected, the WAN IPv6 Address will be displayed here.

Address:

IPv6 WAN Once connected, the IPv6 WAN Default Gateway address will

Default Gateway be displayed here.



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 Wizard** from the **Setup** > **Internet** screen.

INTERNET CONNECTION

There are two ways to set up your Internet connection: you can use the Web-based Internet Connection Setup Wizard, or you can manually configure the connection.

INTERNET CONNECTION SETUP WIZARD

If you would like to utilize our easy to use Web-based Wizards to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.

Internet Connection Setup Wizard

Note: Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

MANUAL INTERNET CONNECTION OPTIONS

If you would like to configure the Internet settings of your new D-Link Systems Router manually, then click on the button below.

Manual Internet Connection Setup

This wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.



In order to secure your router, enter a new **Password**. Click **Next** to continue.

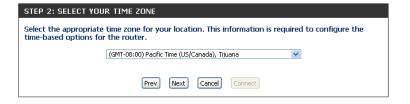
By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below:

Password:

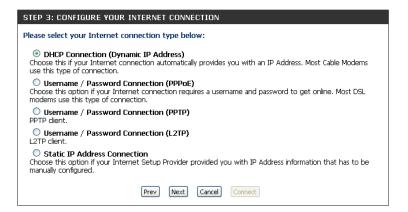
Verify Password:

Prev Next Cancel Connect

Select your **Time Zone** from the drop-down menu and click **Next** to continue.



Select your Internet connection type. You can select **DHCP Connection (Dynamic IP Address)** if your Internet connection automatically provides you with an IP Address. This option is commonly used for cable modem services. Click **Next** to continue.



If you selected **DHCP Connection (Dynamic IP Address)** you can click on **Copy Your PC's MAC Address** to copy your computer's MAC address to your router. Click **Next** to continue.

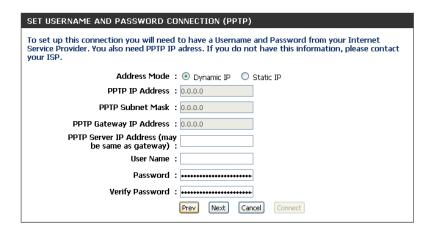


If you selected **PPPoE**, enter your PPPoE **User Name**, **Password**, and other information supplied by your ISP. Click **Next** to continue.

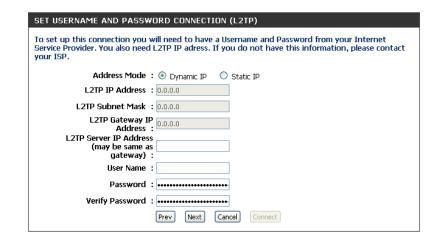
Note: Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

| ET 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 : O Dynamic PPPoE O 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. | | |
| Prev Next Cancel Connect | | |

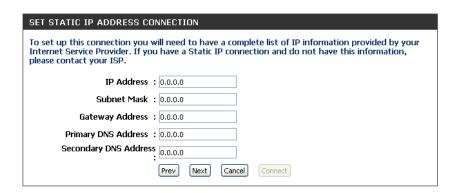
If you selected **PPTP**, enter your PPTP **User Name**, **Password**, and other information supplied by your ISP. Click **Next** to continue.



If you selected **L2TP**, enter your L2TP **User Name**, **Password**, and other information supplied by your ISP. Click **Next** to continue.



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



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

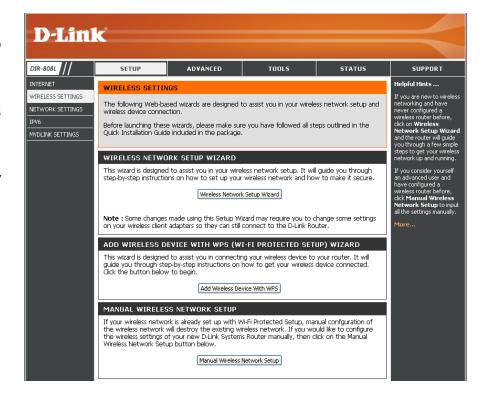


Wireless Settings

If you want to configure the wireless settings on your router using the wizard, click **Wireless Network Setup Wizard** and refer to the next page.

Click **Add Wireless Device with WPS** if you want to add a wireless device using Wi-Fi Protected Setup (WPS). Refer to page 40.

Click **Manual Wireless Network Setup** if you want to manually configure the wireless settings on your router. Refer to page 42.



Wireless Network Setup Wizard

To run the security wizard, click on **Setup** > **Wireless Settings**. Click on **Wireless Network Setup Wizard**.

WIRELESS SETTINGS

The following Web-based wizards are designed to assist you in your wireless network setup and wireless device connection.

Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

WIRELESS NETWORK SETUP WIZARD

This wizard is designed to assist you in your wireless network setup. It will guide you through step-by-step instructions on how to set up your wireless network and how to make it secure.

Wireless Network Setup Wizard

Note: Some changes made using this Setup Wizard may require you to change some settings on your wireless client adapters so they can still connect to the D-Link Router.

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD

This wizard is designed to assist you in connecting your wireless device to your router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the button below to begin.

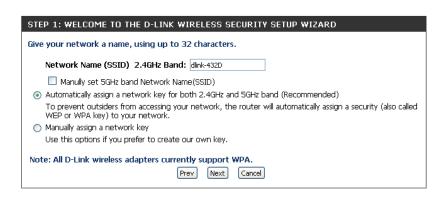
Add Wireless Device With WPS

Enter a **Network Name** for your wireless network (SSID). Click on the checkbox if you would also like to name the 5GHz frequency. Do not use personal information as your SSID since users with wireless devices within range of your router will be able to see this information.

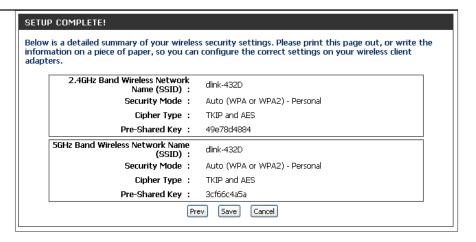
Then select one of the following options:

Automatically: Select this option to automatically generate the router's network key and click **Next**.

Manually: Select this option to manually enter your network key and click **Next**.



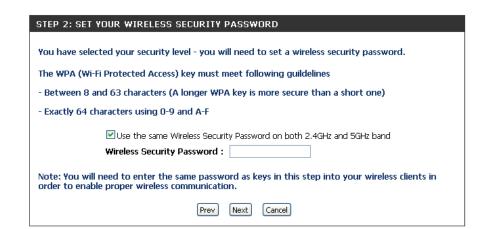
If you selected **Automatically**, the summary window will display your settings. Write down the security key and enter this on your wireless clients. Click **Save** to save your settings.



If you selected **Manually**, the following screen will appear.

Create a passphrase for your security password. Click **Next** to continue.

Note: The security password/passphrase must be between 8 and 63 characters and is case-sensitive. You will need to enter this passphrase on your wireless clients exactly or it will not connect.



Add Wireless Device with WPS Wizard

From the **Setup** > **Wireless Settings** screen, click **Add Wireless Device with WPS**.

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD

This wizard is designed to assist you in connecting your wireless device to your router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the button below to begin.

Add Wireless Device With WPS

Select **Auto** to add a wireless client using WPS (*Wi-Fi Protected Setup*) and then click **Next**. Skip to the next page.

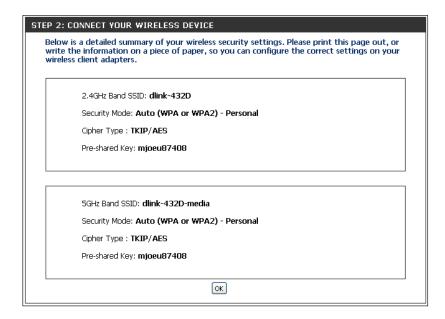
Please select one of following configuration methods and click next to continue.

Auto
Select this option if your wireless device supports WPS (Wi-Fi Protected Setup)

Manual
Select this option will display the current wireless settings for you to configure the wireless device manually

Next Cancel

If you selected **Manual**, a settings summary screen will appear. Write down the security key and enter this on your wireless clients. Click **OK** to finish. This will take you to the *Wireless Status* screen.



PIN: Select this option to use PIN method. In order to use this method you must know the wireless client's eight digit PIN. Click **Connect**.

PBC: Select this option to use PBC (Push Button) method to add a wireless client. Click **Connect**.

| ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD |
|--|
| There are two ways to add wireless device to your wireless network: |
| -PIN (Personal Identification Number) |
| -PBC (Push Button Configuration) |
| |
| please enter the PIN from your wireless device and click the below 'Connect' Button |
| O PBC |
| please press the push button on your wireless device and click the below 'Connect' Button within 120 seconds |
| Prev Connect |

Once you click **Connect**, you will have a 120 second time limit to apply the settings to your wireless client(s) and successfully establish a connection.

ADD WIRELESS DEVICE WITH WPS

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within 115 seconds ...

Click **OK** to finish. This will take you to *Wireless Status* screen.



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 available in the drop-down menu. Click **Add New** to create a schedule.

available in the drop-down menu. Click **Add New** to create a schedule

Wireless Network Service Set Identifier (SSID) is the name of your wireless network. Create

Name: a name for your wireless network using up to 32 characters. The SSID is

case-sensitive.

802.11 Mode: Select one of the following:

802.11b Only - Select only if all of your wireless clients are 802.11b.
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 802.11n, 802 11g, and 802 11b - Select if you are using a mix of

802.11n, 802.11g, and 802.11b wireless clients.

Enable Auto Channel The **Auto Channel Scan** setting can be enabled to allow the DIR-808L to

Scan: choose the channel with the least amount of interference.

WIRELESS NETWORK SETTINGS Wireless Band: 2.4GHz Band Always V Add New Enable Wireless: Wireless Network Name: dlink-432D (Also called the SSID) Mixed 802.11n, 802.11g and 802.11b 802.11 Mode: Enable Auto Channel Scan: Wireless Channel: 2,437 GHz - CH 6 Transmission Rate: Best (automatic) Channel Width: Auto 20/40 MHz 🔻 Visibility Status: 💿 Visible 🔘 Invisible

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 💌

Wireless Channel: Indicates the channel setting for the DIR-808L. 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.

Transmission Rate: Best (automatic) is selected by default, or you can select a channel from the drop-down menu.

Channel Width: Select the Channel Width:

Auto 20/40 - 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 broadcast by the DIR-808L. If Invisible is selected, the SSID of the DIR-808L will not

be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-808L in order to connect to it.

Wireless Security: Refer to page 44 for more information regarding wireless security.

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 available in the drop-down menu. Click Add New to

create a schedule.

Wireless Network Service Set Identifier (SSID) is the name of your wireless network.

Name: 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 only if all of your wireless clients are 802.11n. 802.11ac Only - Select only if all of your wireless clients are 802.11ac.

Mixed 802.11n and 802.11a - Select if you are using both 802.11n

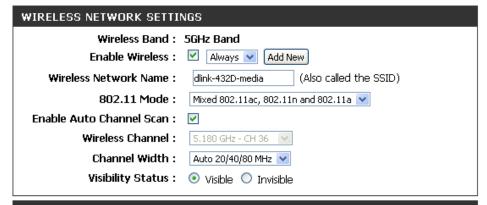
and 802.11a wireless clients.

Mixed 802.11ac and 802.11n - Select if you are using both 802.11ac

and 802.11n wireless clients.

Mixed 802.11ac, 802.11n and 802.11a - Select if you are using a

mix of 802.11ac, 802.11n, and 802.11a wireless clients.



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

Scan:

Enable Auto Channel The **Auto Channel Scan** setting can be enabled to allow the DIR-808L to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DIR-808L. 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 DIR-808L. If Invisible is selected, the SSID of the DIR-808L will

not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-808L in order to connect to it.

Wireless Security: Refer to page 44 for more information regarding wireless security.

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-808L 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.

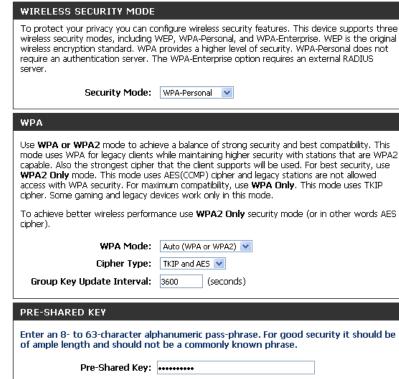
WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

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 to enable wireless security on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption.

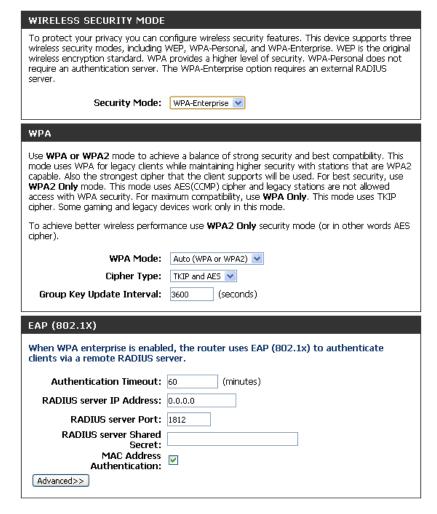
- 1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1). Click on **Setup** and then click **Wireless Settings** on the left side.
- 2. Next to **Security Mode**, select **WPA-Personal**.
- 3. Next to **WPA Mode**, select **Auto (WPA 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 key (passphrase). The key is entered as a pass-phrase in ASCII format at both ends of the wireless connection. The pass-phrase 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 enable WPA-PSK on your adapter and enter the same passphrase as you did on the router.



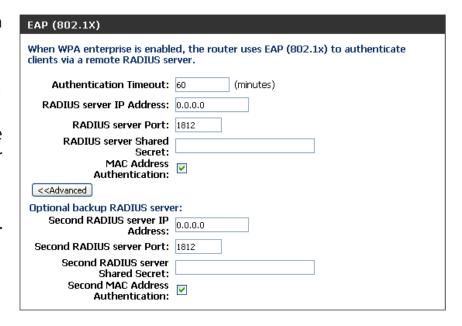
Configure WPA/WPA2-Enterprise (RADIUS)

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

- 1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1). Click on **Setup** and then click **Wireless Settings** on the left side.
- 2. Next to **Security Mode**, select **WPA-Enterprise**.
- 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 a time 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. If the **MAC Address Authentication** box is checked, then the user will need to connect from the same computer whenever logging into the wireless network.
- 11. Click **Advanced** to enter settings for a secondary RADIUS Server.
- 12. Click **Save Settings** to save your settings.



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 change the **IP Address**, once you click **Save Settings**, you will need to enter the new 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.

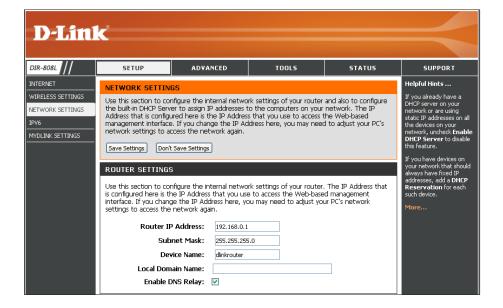
Local Domain Enter the Domain Name (Optional).

Name:

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.



DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DIR-808L has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private 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 DIR-808L. 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 Check this box to enable the DHCP server on your router. **Server:** Uncheck to disable this function.

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

in minutes.

Always Enable this feature to broadcast your network's DHCP server to

Broadcast: LAN/WLAN clients.

NetBIOS NetBIOS allows LAN hosts to discover all other computers within

Announcement: the network, enable this feature to allow the DHCP Server to offer NetBIOS configuration settings.

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

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 from WAN* is activated.

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: V DHCP IP Address Range: 192,168,0,100 to 192,168,0,200 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: 0.0.0.0 Secondary WINS IP Address: 0.0.0.0

NetBIOS Node Select the type of **NetBIOS Node**: **Broadcast only**, **Point-to-Point**, **Mixed-mode**, or **Hybrid**.

Type:

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

Address:

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.

Enable: Check this box to **Enable** the reservation.

Computer 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 You can use the Copy Your PC's MAC Address button

MAC Address: to replace the Internet port's MAC Address with the MAC

address of your Ethernet card.

Save: Click Save to save your entry. You must click Save Settings

at the top to activate your reservations.

DHCP Reservations List

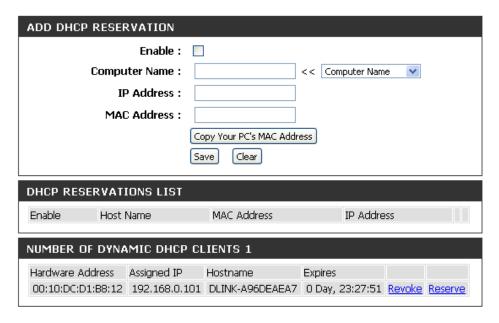
DHCP Displays any reservation entries. Displays the *Host Name* **Reservations List:** (name of your computer or device), *MAC Address*, and *IP*

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.





IPv6

On this page, the user can configure the IPv6 Connection type. There are three ways to set up the IPv6 Internet connection.

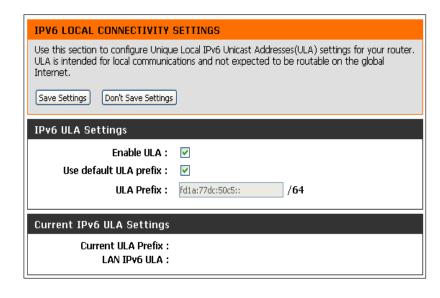
For the beginner user that has not configured a router before, click on the **IPv6 Internet Connection Setup Wizard** button and the router will guide you through a few simple steps to get your network up and running. (Refer to page 54.)

For the advanced user that has configured a router before, click on the **Manual IPv6 Internet Connection Setup** button to input all the settings manually. (Refer to page 59.)

If you would like to manually configure the IPv6 local connectivity settings of your router, click on **IPv6 Local Connectivity Settings**.



Click on **Enable ULA.** You can check **Use default ULA prefix**, or you can leave the box unchecked and enter the prefix manually in the **ULA Prefix** text box.



IPv6 Internet Connection Setup Wizard

On this page, the user can configure the IPv6 Connection type using the IPv6 Internet Connection Setup Wizard.

Click the **IPv6 Internet Connection Setup Wizard** button and the wizard will guide you through a few simple steps to get your network up and running.



Click **Next** to continue to the next page. Click **Cancel** to return to the main page.



The router will try to detect whether its possible to obtain the IPv6 Internet connection type automatically. If this succeeds then the user will be guided through the input of the appropriate parameters for the connection type found.



However, if the automatic detection fails, the user will be prompt to either **Try again** or to click on the **Guide me through the IPv6 settings** button to initiate the manual continual of the wizard.

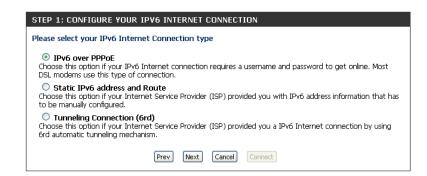


There are several connection types to choose from. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider.

Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computers has been removed or disabled.

The three options available on this page are IPv6 over PPPoE, Static IPv6 address and Route, and Tunneling Connection (6rd).

Choose the required IPv6 Internet Connection type and click on the **Next** button to continue. Click on the **Prev** button to return to the previous page. Click on the **Cancel** button to discard all the changes made and return to the main page.



IPv6 over PPPoE

After selecting the IPv6 over PPPoE option, the user will be able to configure the IPv6 Internet connection that requires a username and password to get online. Most DSL modems use this type of connection.

The following parameters will be available for configuration:

PPPoE Session: Select the PPPoE Session value used here. This

option will state that this connection shares it's information with the already configured IPv6 PPPoE connection, or the user can create a new

PPPoE connection here.

Username: Enter the PPPoE Username used here. If you do

not know your user name, please contact your ISP.

Password: Enter the PPPoE **Password** used here. If you do not

know your password, please contact your ISP.

Verify Password: Re-enter the PPPoE **Password** used here.

Service Name: Enter the **Service Name** for this connection here.

This field is optional.



Static IPv6 Address Connection

This mode is used when your ISP provides you with a set IPv6 addresses that does not change. The IPv6 information is manually entered in your IPv6 configuration settings. You must enter the IPv6 address, Subnet Prefix Length, Default Gateway, Primary DNS Server, and Secondary DNS Server. Your ISP provides you with all this information.

Use Link-Local Address is used by nodes and routers when

Address: communicating with neighboring nodes on the same link.

This mode enables IPv6-capable devices to communicate

with each other on the LAN side.

IPv6 Address: Enter the WAN **IPv6 Address** for the router here.

Subnet Prefix Enter the WAN **Subnet Prefix Length** value used here.

Length:

Default Gateway: Enter the WAN **Default Gateway** IPv6 address used here.

Primary IPv6 DNS Enter the WAN **Primary IPv6 DNS Server** address used here.

Server:

Secondary IPv6 Enter the WAN Secondary IPv6 DNS Server address used

DNS Server: here.

LAN IPv6 Address: These are the settings of the LAN (Local Area Network) IPv6

interface for the router. The router's **LAN IPv6 Address** configuration is based on the IPv6 Address and Subnet assigned by your ISP. (A subnet with prefix /64 is supported

in LAN.)

| SET STATIC IPV6 ADDRESS CONNECTION |
|--|
| To set up this connection you will need to have a complete list of IPv6 information provided by your IPv6 Internet Service Provider. If you have a Static IPv6 connection and do not have this information, please contact your ISP. |
| Use Link-Local Address: ☑ |
| IPv6 Address : FE80:0:0:0:CAD3:A3FF:FE5E:432t |
| Subnet Prefix Length: 64 |
| Default Gateway : |
| Primary IPv6 DNS Server : |
| Secondary IPv6 DNS Server : |
| LAN IPv6 Address : /64 |
| Prev Next Cancel Connect |

Tunneling Connection (6rd)

After selecting the Tunneling Connection (6rd) option, the user can configure the IPv6 6rd connection settings.

The following parameters are available for configuration:

6rd IPv6 Prefix: Enter the 6rd IPv6 address and prefix value used

here.

IPv4 Address: Enter the IPv4 Address used here.

Mask Length: Enter the IPv4 Mask Length used here.

Assigned IPv6 Prefix: Displays the *Assigned IPv6 Prefix* value here.

6rd Border Relay IPv4 Enter the 6rd Border Relay IPv4 Address used

Address: here.

IPv6 DNS Server: Enter the primary IPv6 DNS Server address used

here.

SET UP 6RD TUNNELING CONNECTION

To set up this 6rd tunneling connection you will need to have the following information from your IPv6 Internet Service Provider. If you do not have this information, please contact your ISP.

6rd IPv6 Prefix: /32

IPv4 Address: 10.10.10.105 Mask Length: 0

Assigned IPv6 Prefix: None
6rd Border Relay IPv4
Address: 0.0.0.0.0

IPv6 DNS Server: Prev Next Cancel Connect

The IPv6 Internet Connection Setup Wizard is complete.

Click on the **Connect** button to save your settings. Click on the **Prev** button to return to the previous page. Click on the **Cancel** button to discard all the changes made and return to the main page.



IPv6 Manual Setup

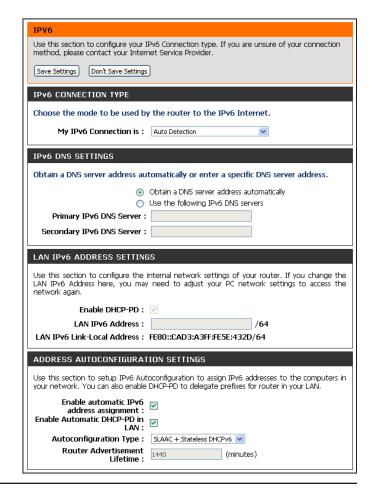
There are several connection types to choose from: **Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IPv4 Tunnel, 6to4, 6rd,** and **Local Connectivity Only**. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider.

Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computers has been removed or disabled.

Auto Detection

Select **Auto Detection** to have the router detect and automatically configure your IPv6 setting from your ISP.

Click Save Settings.



Static IPv6

My IPv6 Connection is: Select **Static IPv6** from the drop-down menu.

WAN IPv6 Address Enter the address settings supplied by your Internet provider

Settings: (ISP).

LAN IPv6 Address: Enter the LAN (local) IPv6 Address for the router.

LAN IPv6 Link-Local Displays the Router's *LAN IPv6 Link-Local Address*.

Address:

Enable Automatic IPv6 Check to enable the Autoconfiguration feature.

address assignment:

Autoconfiguration Type: Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC +

Stateless DHCPv6.

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your

Start: local computers.

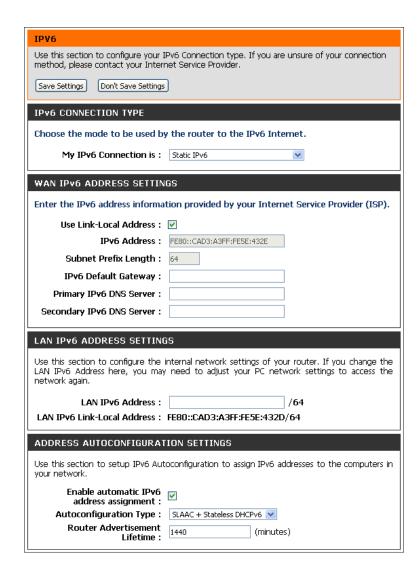
IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your

End: local computers.

Router Advertisement Enter the **Router Advertisement Lifetime** (in minutes).

Lifetime:

Click Save Settings.



Autoconfiguration

My IPv6 Connection is: Select Autoconfiguration (SLAAC/DHCPv6) from the drop-

down menu.

IPv6 DNS Settings: Select either Obtain DNS server address automatically or

Use the following IPv6 DNS servers.

Primary/Secondary IPv6 Enter the primary and secondary **DNS Server** addresses.

DNS Server:

Enable DHCP-PD: Check this box to **Enable DHCP** prefix delegation.

LAN IPv6 Address: Enter the LAN (local) **IPv6 Address** for the router.

LAN IPv6 Link-Local Displays the Router's *LAN IPv6 Link-Local Address*.

Address:

Enable automatic IPv6 Check to enable the Autoconfiguration feature.

address assignment:

Autoconfiguration Type: Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC +

Stateless DHCPv6.

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your

Start: local computers.

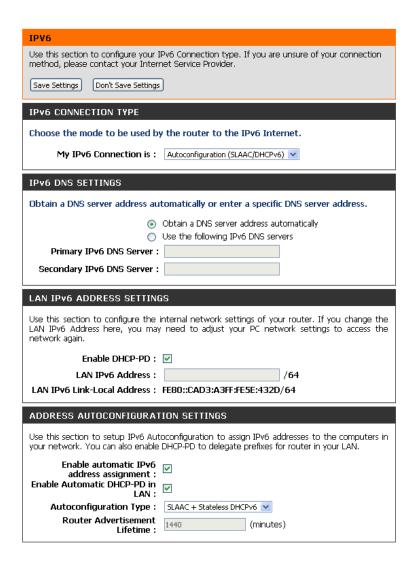
IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your

End: local computers.

Router Advertisement Enter the **Router Advertisement Lifetime** (in minutes).

Lifetime:

Click Save Settings.



PPPoE

My IPv6 Connection is: Select PPPoE from the drop-down menu.

PPPoE: Enter the PPPoE account settings supplied by your Internet

provider (ISP).

PPPoE Session: Select **Create a new session** if you have IPv6.

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 PPPoE only).

User Name: Enter your PPPoE **User Name**.

Password: Enter your PPPoE **Password** and then retype the password in the

next box.

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, enable

Auto-reconnect.

MTU: Maximum Transmission Unit - you may need to change the MTU for

optimal performance with your specific ISP. 1492 is the default MTU.

IPv6 DNS Settings: Select either Obtain IPv6 DNS servers automatically or Use the

following IPv6 DNS servers

Primary/Secondary IPv6 Enter the primary and secondary DNS Server addresses.

DNS Servers:

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider. Save Settings | Don't Save Settings IPv6 CONNECTION TYPE Choose the mode to be used by the router to the IPv6 Internet. My IPv6 Connection is: PPPoE Enter the information provided by your Internet Service Provider (ISP). PPPoE Session:

Share with IPv4

Create a new session Address Mode:

O Dynamic IP
O Static IP IP Address: User Name : admin Password: Verify Password : Service Name: (optional) Reconnect Mode : Always on
 On demand Maximum Idle Time: 5 (minutes, 0=infinite) MTU: 1492 (bytes) MTU default = 1492 IPv6 DNS SETTINGS Enter a specific DNS server address Obtain IPv6 DNS server address automatically Use the following IPv6 DNS servers Primary IPv6 DNS Server: Secondary IPv6 DNS Server: LAN IPV6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the Enable DHCP-PD: LAN IPv6 Address : LAN IPv6 Link-Local Address: FE80::CAD3:A3FF:FE5E:432D/64 ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign IPv6 addresses to the computers in your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN. Enable automatic IPv6 address assignment: Enable Automatic DHCP-PD in LAN: Autoconfiguration Type: SLAAC + Stateless DHCPv6 💌 Router Advertisement (minutes) Lifetime:

Enable DHCP-PD: Check this box to **Enable DHCP** prefix delegation.

LAN IPv6 Address: Enter the LAN (local) IPv6 Address for the router.

LAN IPv6 Link-Local Displays the Router's *LAN IPv6 Link-Local Address*.

Address:

Enable Automatic IPv6 Check to enable the IPv6 Autoconfiguration.

address assignment:

Enable Automatic DHCP- Check to enable delegation of prefixes for router addresses.

PD in LAN:

Autoconfiguration Type: Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC +

Stateless DHCPv6.

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your

Start: local computers.

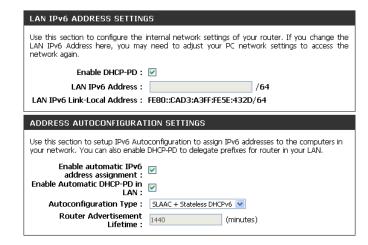
IPv6 Address Range End: Enter the end IPv6 Address for the DHCPv6 range for your

local computers.

Router Advertisement Enter the Router Advertisement Lifetime (in minutes).

Lifetime:

Click Save Settings.



IPv6 in **IPv4** Tunneling

My IPv6 Connection is: Select IPv6 in IPv4 Tunnel from the drop-down menu.

IPv6 in **IPv4** Tunnel Enter the settings supplied by your Internet provider (ISP).

Settings:

IPv6 DNS Settings: Select either Obtain IPv6 DNS server address automatically

or Use the following IPv6 DNS servers

Primary/Secondary Enter the primary and secondary **DNS Server** addresses.

IPv6 DNS Servers:

Enable DHCP-PD: Check this box to **Enable DHCP** prefix delegation.

LAN IPv6 Address: Enter the LAN (local) IPv6 Address for the router.

LAN IPv6 Link-Local Displays the Router's *LAN IPv6 Link-Local Address*.

Address:

Enable Automatic IPv6 Check to enable the Autoconfiguration feature.

Address Assignment:

Enable Automatic Check to enable delegation of prefixes for router addresses.

DHCP-PD in LAN:

Autoconfiguration Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless

Type: DHCPv6.

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your local

Start: computers.

IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your local

End: computers.

Router Advertisement Enter the Router Advertisement Lifetime (in minutes).

Lifetime:

Click Save Settings.

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider. Don't Save Settings **IPv6 CONNECTION TYPE** Choose the mode to be used by the router to the IPv6 Internet. My IPv6 Connection is : IPv6 in IPv4 Tunnel IPv6 in IPv4 TUNNEL SETTINGS Enter the IPv6 in IPv4 Tunnel information provided by your Tunnel Broker. Remote IPv4 Address: 0.0.0.0 Remote IPv6 Address: Local IPv4 Address: 10.10.10.105 Local IPv6 Address: IPv6 DNS SETTINGS Obtain a DNS server address automatically or enter a specific DNS server address. Obtain a DNS server address automatically Use the following IPv6 DNS servers Primary IPv6 DNS Server: Secondary IPv6 DNS Server: LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. Enable DHCP-PD: LAN IPv6 Address: LAN IPv6 Link-Local Address: FE80::CAD3:A3FF:FE5E:432D/64 ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign IPv6 addresses to the computers in your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN. Enable automatic IPv6 address assignment: Enable Automatic DHCP-PD in LAN: Autoconfiguration Type: SLAAC + Stateless DHCPv6 V Router Advertisement

6 to 4 Tunneling

My IPv6 Connection is: Select 6 to 4 from the drop-down menu.

6to4 Settings: Enter the IPv6 settings supplied by your Internet provider (ISP).

Primary/Secondary Enter the primary and secondary **IPv6 DNS Server** addresses.

IPv6 DNS Servers:

LAN IPv6 Address: Enter the LAN (local) IPv6 Address for the router.

LAN IPv6 Link-Local Displays the Router's *LAN IPv6 Link-Local Address*.

Address:

Enable Automatic IPv6 Check to enable the Autoconfiguration feature.

Address Assignment:

Autoconfiguration Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless

Type: DHCPv6.

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your local

Start: computers.

IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your local

End: computers.

Router Advertisemt Enter the Router Advertisement Lifetime (in minutes).

Lifetime:

Click Save Settings.



6rd

My IPv6 Connection is: Select 6rd from the drop-down menu.

6rd Settings: Enter the address settings supplied by your Internet Service

provider (ISP).

Primary/Secondary IPv6 Enter the primary and secondary **IPv6 DNS Server** addresses.

DNS Servers:

LAN IPv6 Address: Enter the LAN (local) **IPv6 Address** for the router.

LAN IPv6 Link-Local Displays the Router's LAN IPv6 Link-Local Address.

Address:

Enable Automatic IPv6 Check to enable the Autoconfiguration feature.

address assignment:

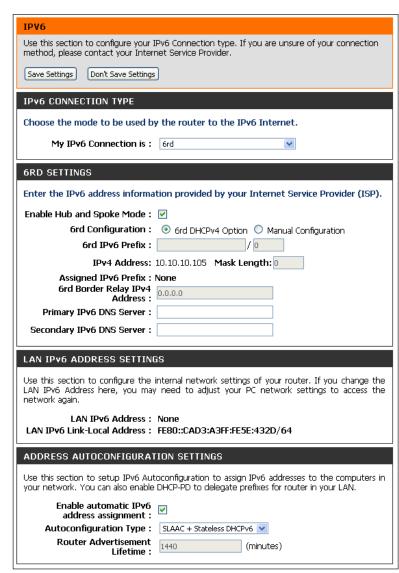
Autoconfiguration Type: Select Stateful (DHCPv6), SLAAC+RDNSS or SLAAC + Stateless

DHCPv6.

Router Advertisement Enter the Router Advertisement Lifetime (in minutes).

Lifetime:

Click Save Settings.



Local Connectivity

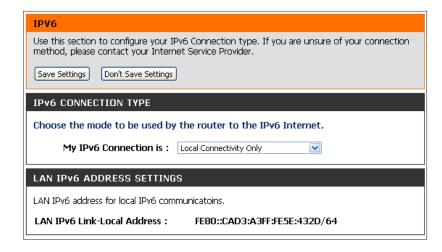
My IPv6 Connection Select Local Connectivity Only from the drop-down

is: menu.

LAN IPv6 Link- Displays the *LAN IPv6 Link-Local Address* of the router.

Local Address:

Click Save Settings.



mydlink Settings

The DIR-808L features a cloud service that pushes information such as firmware upgrade notifications, user activity, and intrusion alerts to the mydlink^m app on Android and Apple mobile devices. To insure that your router is up-to-date with the latest features, mydlink^m will notify you when an update is available for your router. You can also monitor a user's online activity with real-time website browsing history, maintaining a safe and secure environment, especially for children.

On this page the user can configure the mydlink[™] settings for this router. This feature will allow use of the mydlink cloud services that include online access and management of this router through the mydlink portal website, or by using portable device applications like iOS apps and Android applications.

mydlink Service: Displays whether your device is registered with a mydlink account or not. If you are registered, your mydlink e-mail address will be displayed.

Register mydlink Click to go to the mydlink website to register or edit your **Service:** settings. Please refer to page 19 for the registration steps.



Advanced Virtual Server

The Virtual Server 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 from the drop-down menu. Select an **Application Name** and click << to populate the field.

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), you computer will be listed in the "Computer Name" drop-down menu. Select your computer and click <<.

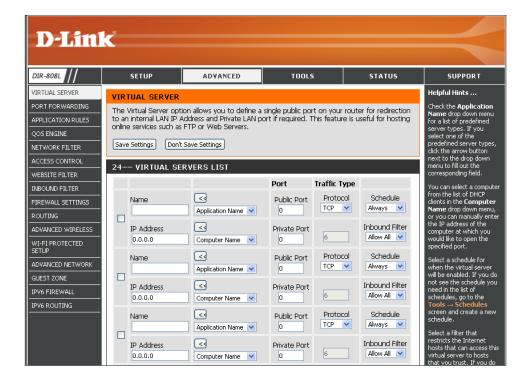
Private Port/ Enter the port(s) that you want to open in the fields

Public Port: below 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: 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 allows the service to always be enabled. You can create your own times in the **Tools** > **Schedules** section.

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



Port Forwarding

The Port Forwarding section will allow you to open a single port or a range of ports in your router.

Name: Enter a Name for the rule or select an Application
Name from the drop-down menu. When an
Application Name is selected, click << to populate
the field.

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), you computer will be listed in the **Computer Name** drop-down menu. Select your computer and click <<.

Ports to Open Enter the **TCP** and/or **UDP** port or ports that you **TCP/UDP:** 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: The schedule of time when the Port Forwarding Rule will be enabled. The schedule may be set to **Always**, which will allow the service to always be enabled. You can create your own times in the **Tools** > **Schedules** section.

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



Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulty working through NAT (Network Address Translation). Special Applications make some of these applications work with the DIR-808L. If you need to run applications that require multiple connections, specify the port normally associated with an application in the **Trigger Port** field, select the **Traffic Type** as **TCP** or **UDP**, then enter the **Firewall** (public) **Port**(s) associated with the **Trigger Port** to open them for inbound traffic.

The DIR-808L provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

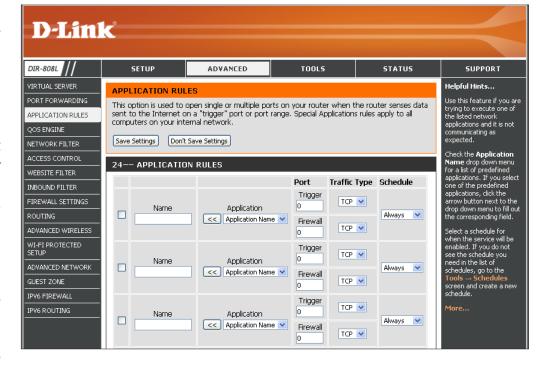
Name: Enter a Name for the rule. You may select a pre-defined **Application Name** from the drop-down menu and click <<.

Trigger: This is the port used to trigger the application. You can enter either a single port or a range of ports.

Firewall: This is the port number on the Internet side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

Traffic Type: Select the protocol of each Trigger and Firewall Port (**TCP**, **UDP**, or **Both**).

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



QoS Engine

The QoS Engine option helps improve your network gaming performance by prioritizing applications. By default the QoS Engine settings are disabled and application priority is not automatically classified.

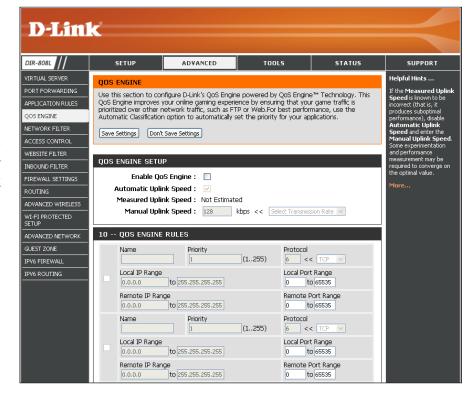
Enable QoS This option is disabled by default. Check the box to enable this **Engine:** option for providing better performance with online games and other interactive applications, such as VoIP.

Automatic Uplink Automatic Uplink speed, which is determined by your ISP, is Speed: the data transfer rate from the router to your ISP. This option is enabled by default when the Enable QoS Engine option is checked. If you wish to limit your uplink speed, uncheck the Automatic Uplink Speed checkbox. This will allow you to enter the uplink speed manually where it says Manual Uplink Speed, or select a rate from the drop-down menu that says Select Transmission Rate.

Measured Uplink This field displays the detected Measured Uplink Speed.

Speed:

QoS Engine Rules: A *QoS Engine Rule* identifies a specific message flow and assigns a priority to that flow. For most applications, automatic classification will be adequate, and specific QoS Engine Rules are not required.



The QoS Engine supports overlaps between rules, where more than one rule can match for a specific message flow. If more than one rule is found to match, the rule with the highest priority will be used.

Name: Create a **Name** that is meaningful to you for the rule.

Priority: The **Priority** of the message flow is entered here -- 1 receives the highest priority (most urgent) and 255 receives the lowest priority (least urgent).

Protocol: The **Protocol** used by the messages.

Local IP Range: The rule applies to a flow of messages whose LAN-side IP address falls within the range set here.

Local Port Range: The rule applies to a flow of messages whose LAN-side port number is within the range set here.

Remote IP Range: The rule applies to a flow of messages whose WAN-side IP address falls within the range set here.

Remote Port The rule applies to a flow of messages whose WAN-side port number is within the range set here. **Range:**

Click on the **Save Settings** button to accept the changes made, or click on **Don't Save Settings** to discard the changes.

Network (MAC) Filters

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers 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 Broadband Router.

Configure MAC Select Turn MAC Filtering Off, Allow MAC addresses
Filtering: listed below, or Deny MAC addresses listed below from the drop-down menu.

MAC Address: Enter the MAC Address 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 DHCP client from the drop-down menu and click << to copy that MAC Address.

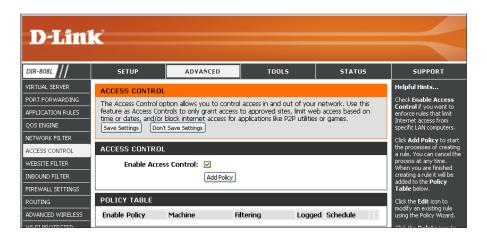
Click **Clear** to remove a MAC Address from the MAC filtering list. Click **Save Settings** to accept the changes made, or click **Don't Save Settings** to discard the changes.



Access Control

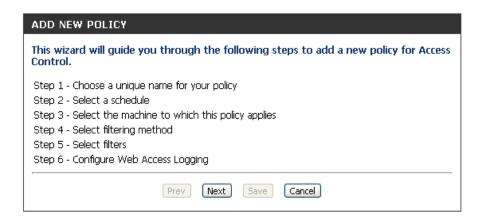
The Access Control section allows you to control access in and out of your network. Use this feature as Parental Controls to only grant access to approved sites, limit web access based on time or dates, and/or block access from applications like P2P utilities or games.

Enable Access Check the **Enable Access Control** box, and then **Control**: click on **Add Policy** to start the Wizard.



Access Control Wizard

The wizard will guide you through a step-by-step process. Click **Next** to continue.



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

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

Enter the following information and then click **Next** to continue.

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

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

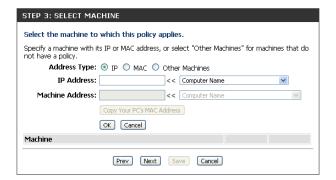
Select a filtering method from **Log Web Access Only**, **Block All Access** or **Block Some Access**.

If you choose **Block Some Access**, check **Apply Web Filter** and/or **Apply Advanced Port Filters**.

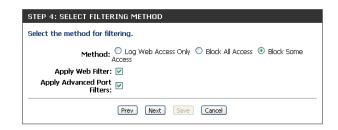
Click **Next** to continue.











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** from the drop-down list.

Dest Port Start - Enter the starting port number.

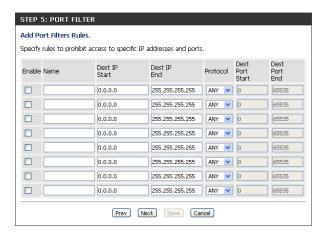
Dest Port End - Enter the ending port number.

Click Next.

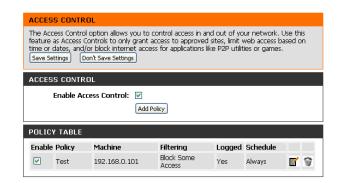
To enable **Web Access Logging**, click **Enabled**.

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

Your newly created policy will now show up under *Policy Table*. You may click the **Edit** icon to change the policy, or click the **Trash** icon to delete the policy.





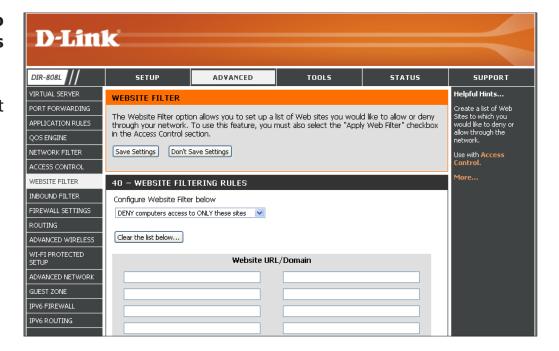


Website Filters

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**. You must also select **Apply Web Filter** under the *Access Control* section (pages 75 - 77).

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

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



Inbound Filters

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.

Remote IP Check to Enable rule.

Range: Enable:

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 are created.

Rules List: You may click the Edit icon to change the

settings or enable/disable the rule, or click

the **Trash** icon to delete the rule.



Firewall Settings

A firewall protects your network from the outside world. The DIR-808L offers a firewall type functionality. The SPI (Stateful Packet Inspection) feature helps prevent cyber attacks. There are times when you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ.

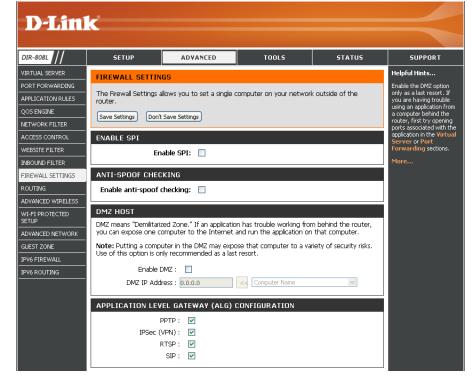
Enable SPI: SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol.

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

Enable DMZ: If an application has trouble working from behind the router, you can **Enable DMZ** to expose a computer to the Internet and run the application on that computer.

Note: Placing a computer in the DMZ may expose that computer to a variety of security risks. Using 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 it's 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.

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. 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 function may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this option off.

Routing

The Routing option is an advanced method of customizing specific routes of data through your network.

Name: Enter a Name for your route.

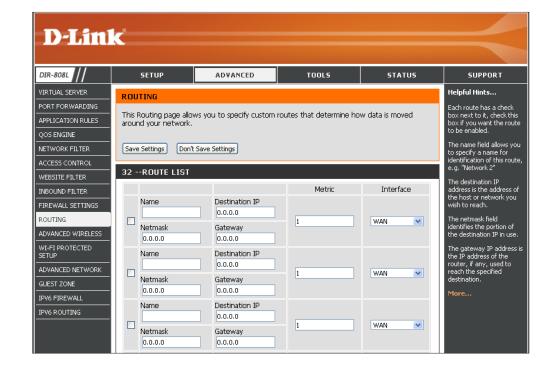
Destination IP: Enter the IP address of packets that will take this route.

Netmask: Enter the **Netmask** of the route, please note that the octets must match your destination IP address.

Gateway: Enter your next hop gateway to be taken if this route is used.

Metric: The route **Metric** is a value from 1 to 16 that indicates the cost of using this route. A value 1 is the lowest cost and 15 is the highest cost.

Interface: Select the **Interface** that the IP packet must use to transit out of the router when this route is used.



Advanced Wireless

Transmit Power: Select the transmit power of the antennas from the

drop-down list.

WLAN Partition: Checking this box enables 802.11d operation.

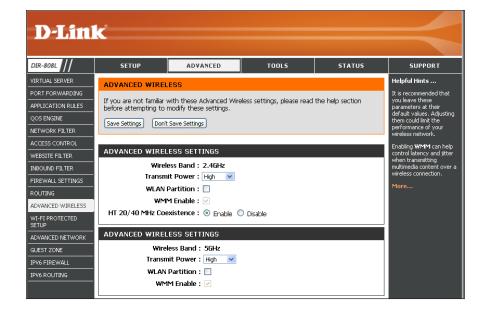
802.11d is a wireless specification developed to allow implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.

WMM Enable: WMM is QoS for your wireless network. Enabling this

will improve the quality of video and voice applications

for your wireless clients.

HT 20/40MHz Enable this option to reduce interference from Coexistence: other wireless networks in your area. 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.



Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the "Initial setup" as well as the "Add New Device" processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufactures. The process is just as easy as pressing a button for the Push-Button Method or correctly entering the eight-digit code for the Pin Code Method. The time reduction in setup and ease of use are quite beneficial, while the highest wireless Security setting of WPA2 is automatically used.

Enable: Click to **Enable** the Wi-Fi Protected Setup feature.

Note: if this option is unchecked, the WPS button on the side of the router will be disabled.

Lock WPS-PIN Locking the WPS-PIN method prevents the settings from

Setup: being changed by any external registrar using its PIN. Devices can still be added to the wireless network using the Wi-Fi Protected Setup Push Button Configuration (WPS-PBC). It is still possible to change wireless networks settings with Manual Wireless Network Setup or Wireless Network Setup Wizard.

Wizard

PIN Settings: A PIN is a unique number that can be used to add the router

to an existing network or to create a new network. Only the Administrator ("admin" account) can change or reset the PIN.

Current PIN: Displays the Current PIN.

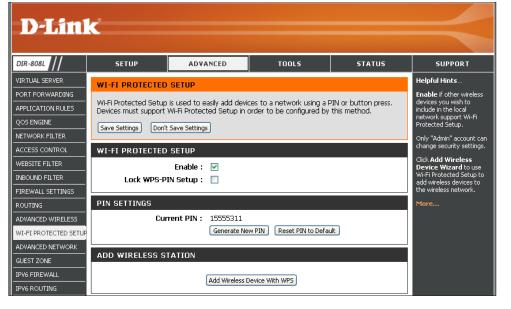
Generate New PIN: Create a random number that is a valid PIN. This becomes your

router's PIN. You can then copy this PIN to the user interface

of the wireless client.

Reset PIN to Click to restore the default PIN of the router.

Default:



Add Wireless This section gives you access to a Wizard that helps you add wireless devices to the wireless network. The wizard will either display **Station:** the wireless network settings to guide you through manual configuration, prompt you to enter the PIN for the device, or ask you to press the configuration button on the device. If the device supports Wi-Fi Protected Setup and has a configuration button, you can add it to the network by pressing the configuration button on the device and then the on the router within 60 seconds. The status LED on the router will flash three times if the device has been successfully added to the network.

There are several ways to add a wireless device to your network. A "registrar" controls access to the wireless network. A registrar only allows devices onto the wireless network if you have entered the PIN, or pressed a special Wi-Fi Protected Setup button on the device. The router acts as a registrar for the network, although other devices may act as a registrar as well.

Add Wireless Click to start the wizard and refer to page 40. **Device with WPS:**

WPS Button

You can also simply press the WPS button on the back of the router, and then press the WPS button on your wireless client to automatically connect without logging into the router.

Refer to page 109 for more information about WPS.



Advanced Network Settings

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

Enable WAN Ping Checking this box will allow the DIR-808L to respond **Respond:** to pings. Unchecking the box may provide some extra security from hackers.

WAN Ping Inbound Allow All is the default selection from the drop-down **Filter:** menu when you check *Enable WAN Ping Respond*, allowing you to apply the inbound Filter to the WAN Ping. (Refer to page 79 for more information about inbound filters.)

WAN Port Speed: You may set the port speed of the Internet port to 10Mbps, 100Mbps, or Auto 10/100Mbps (recommended).

Enable IPV4 Check the box to allow multicast traffic to pass through **Multicast Streams:** the router from the Internet (IPv4).

Enable IPV6 Check the box to allow multicast traffic to pass through **Multicast Streams:** the router from the Internet (IPv6).



Guest Zone

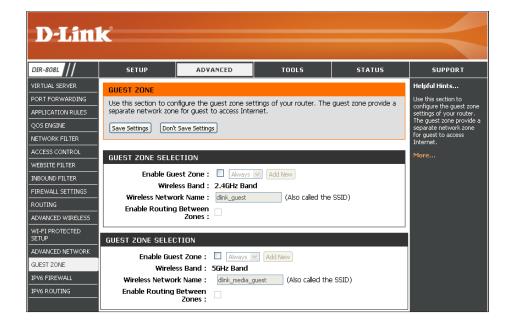
The Guest Zone feature will allow you to create temporary zones that can be used by guests to access the Internet. These zones will be separate from your main wireless network. You may configure different zones for the 2.4GHz and 5GHz wireless bands.

Enable Guest Check the box to enable the Guest Zone feature. **Zone:**

Schedule: The schedule of time when the Guest Zone will be active. 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 Tools > Schedules section or click Add New.

Wireless Enter a **Wireless Network Name** (SSID) that is **Network Name**: different from your main wireless network.

Enable Routing Check to allow network connectivity between the **Between Zones:** different zones created.



IPv6 Firewall

The DIR-808L's IPv6 Firewall feature allows you to configure which kind of IPv6 traffic is allowed to pass through the device. The IPv6 Firewall functions in a similar way to the IP Filters feature.

Enable IPv6 Check the box to Enable IPv6 Ingress Filtering. **Ingress Filtering:**

Enable IPv6 Check the box to enable the IPv6 firewall simple security. **Simple Security:**

Configure IPv6 Select an action from the drop-down menu. Firewall below:

Name: Enter a Name to identify the IPv6 firewall rule.

Schedule: Use the drop-down menu to select the time **Schedule** that the IPv6 Firewall Rule will be enabled on. The schedule may be set to **Always**, which will allow this service to always be enabled. You can create your own times in the **Tools** > **Schedules** section.

Source: Use the **Interface** drop-down menu to specify the interface that connects to the source IPv6 addresses of the firewall rule.

IP Address Range: Enter the source IPv6 address range in the adjacent IP Address Range field.

Dest: Use the **Interface** drop-down menu to specify the interface that connects to the destination IP addresses of the firewall rule.

Protocol: Select the **Protocol** of the firewall port (**All**, **TCP**, **UDP**, or **ICMP**).

Port Range: Enter the first port of the range that will be used for the firewall rule in the first box and enter the last port in the field in the second box.



IPv6 Routing

This page allows you to specify custom routes that determine how data is moved around your network.

Route List: Check the box next to the route you wish to enable.

Name: Enter a specific Name to identify this route.

Destination IPv6/ This is the IP address of the router used to reach the **Prefix Length:** specified destination or enter the IPv6 address prefix length of the packets that will take this route.

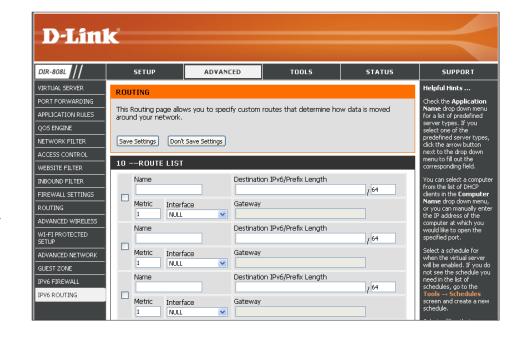
Metric: Enter the metric value for this rule here.

Interface: Use the drop-down menu to specify if the IP packet

must use the WAN or LAN interface to transit out of

the Router.

Gateway: Enter the next hop that will be taken if this route is used.



Tools Admin

This page will allow you to change the Administrator password and also enable Remote Management.

Password: Enter a new **Password** for the Administrator login. Enter again to verify.

Gateway Name: Enter a name for your router.

Enable Graphical Check to enable a challenge-response test that requires users to type letters **Authentication:** or numbers from a distorted image displayed on the screen. This helps

prevent online hackers and unauthorized users from gaining access to your

router's network settings.

Enable HTTPS Check to enable HTTPS to connect to the router securely. This means to

Server: connect to the router, you must enter https://192.168.0.1 (for example)

instead of http://192.168.0.1.

 $\textbf{Enable Remote} \quad \text{Remote management allows the DIR-808L to be configured from the Internet}$

Management: 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 DIR-808L is used in the URL. Example:

http://x.x.x.x:8080 whereas x.x.x.x is the Internet IP address of the DIR-808L

and 8080 is the port used for the Web Management interface.

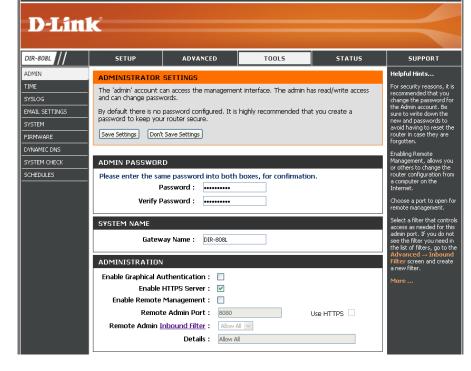
If you have enabled HTTPS Server, you must enter https:// as part of the

URL to access the router remotely.

Remote Admin Select Allow All or Deny All from the drop-down menu.

Inbound Filter:

Details: This field will display the current remote admin filter.



Time

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the Time Server. You have the option of using NTP, which is short for Network Time Protocol. An NTP server will sync the time and date with your router. Daylight Saving can also be configured to automatically adjust the time when needed.

Current Router Displays the current date and time of the router. **Time:**

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

Enable Daylight Check to enable manual entry of daylight saving **Saving:** time.

Daylight Saving Enter a DST Start, and DST End. Select Month, Dates: Week, Day of Week, and Time for daylight saving time.

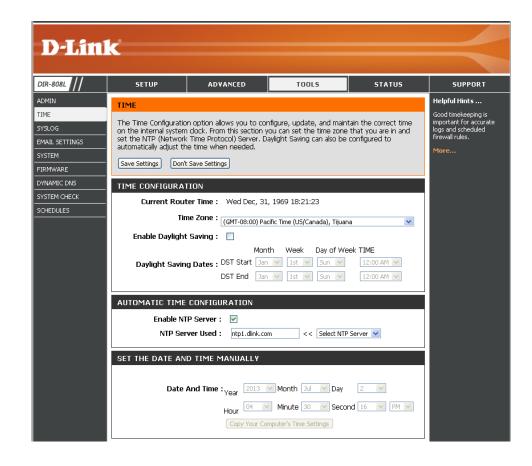
Enable NTP Server: This option is strongly recommended. Check the box to allow the router to connect to an **NTP Server**

on the Internet (not a local server).

NTP Server Used: Select an **NTP Server** from the drop-down menu.

Date and Time: To manually input the **Date** and **Time**, enter the values in these fields for the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second**. Click **Save Settings**.

You can also click **Copy Your Computer's Time Settings** to synch the date and time with the computer you are currently on.



SysLog

The DIR-808L keeps a running log of events and activities occurring on the Router. You may send these logs to a SysLog server on your network.

Enable Logging to Check this box to send the router logs to a SysLog **SysLog Server:** Server.

SysLog Server IP The IP Address of the SysLog server that will be **Address:** used to send the logs. You may also select your computer from the drop-down menu (only if receiving an IP address from the router via DHCP).



Email Settings

The Email feature can be used to send the system log files, router alert messages, and firmware update notification to your email address.

Enable Email When this option is enabled, router activity logs are sent to a **Notification:** designated e-mail address.

From Email Address: This e-mail address will appear as the sender when you receive a log

file or firmware upgrade notification via e-mail.

To Email Address: Enter the e-mail address where you want the email sent.

SMTP Server Address: Enter the **SMTP Server Address** for sending e-mail.

SMTP Server Port: Enter the SMTP port used on the server.

Enable Authentication: Check this box if your SMTP server requires authentication.

Account Name: Enter your account for sending e-mail.

Password: Enter the Password associated with the account. Re-type the

password associated with the account.

On Log Full: When this option is selected, logs will be sent via e-mail to your

account when the log is full.

On Schedule: Selecting this option will send the logs via e-mail according to

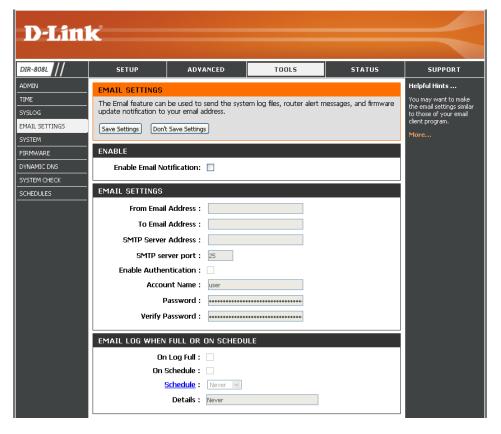
schedule.

Schedule: This option is enabled when **On Schedule** is selected. You can select

a schedule from the list of defined schedules. To create a schedule,

go to Tools > Schedules.

Details: Detail will display selected schedule.



System

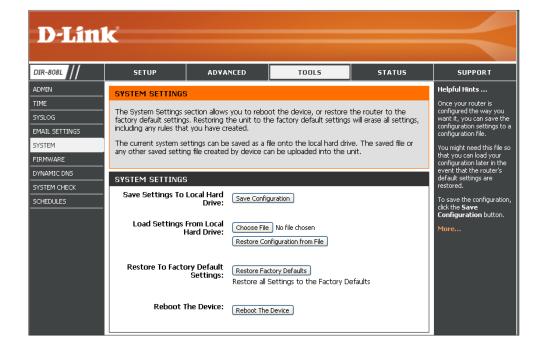
This section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created.

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

Load Settings Use this option to load previously saved router from Local Hard configuration settings. First, use the Choose Drive: File option to find a previously saved file of configuration settings. Then, click the Restore Configuration from File button to transfer those settings to the router.

Restore to This option will restore all configuration settings Factory Default back to the settings that were in effect at the **Settings:** 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 above.

Reboot the Click to reboot the router. Device:



Firmware

You can check for firmware updates and upgrade the firmware for your router here. Check online for the latest updates by clicking **Check Now**. Make sure the firmware you want to use is downloaded to the local hard drive of your computer.

Firmware Upgrade

Choose File: After you have downloaded the new firmware, click **Choose File** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

Upload: Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the access point.

Language Pack Upgrade

You can change the language of the web UI by uploading available language packs.

Choose File: After you have downloaded the new language pack, click Choose File to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.

Upload: Once you have a language pack update on your computer, use this option to browse for the file and then upload the information into the access point.



Dynamic DNS

The Dynamic DNS (DDNS) feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter in your domain name to connect to your server no matter what your IP address is.

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

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

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

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

Password or Enter the Password or Key for your DDNS Key: account.

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

Status: Displays the current connection status.



DDNS for IPv6 Hosts

Enable: Check the box to **Enable** DDNS for IPv6 Hosts.

IPv6 Enter the IPv6 Address of your computer/server Address: in your local network. You can click the << button

and select a **Computer Name** or server from the

drop-down list.

Host Name: Enter the IPv6 Host Name that you registered with

your DDNS service provider. Click Save.

IPv6 DDNS After you save your entry, the IPv6 DDNS host

List: information will be displayed here.

Enable: Check to **Enable** the entry.

Host Name: Displays the name of your IPv6 DDNS host.

IPv6 Address: Displays the IPv6 Address of your computer/

server associated with the IPv6 DDNS host.

Edit/Delete: Click the edit icon to make changes to the entry

or click the trash icon to delete the entry.

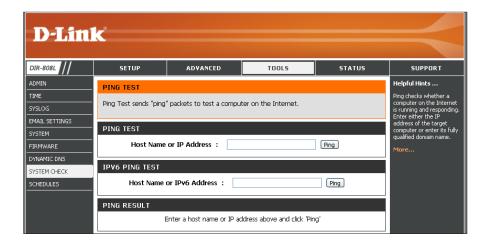


System Check

Ping Test/Host The *Ping Test* is used to send Ping packets to test if a Name or IP computer is on the Internet. Enter the IP Address that you Address: wish to Ping and click Ping.

IPv6 Ping Test/ Enter the IPv6 Address that you wish to Ping and click Ping. Host Name or IPv6 Address:

Ping Result: The results of your ping attempts will be displayed here.



Schedules

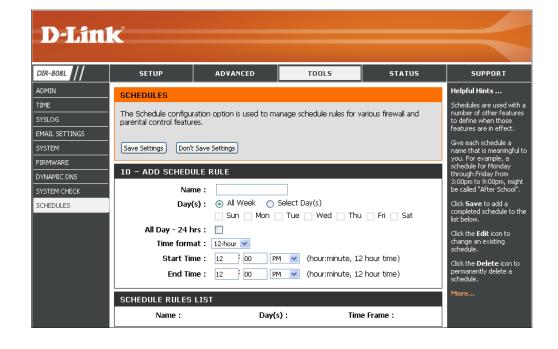
Schedules can be created for use with enforcing rules. For example, if you want to restrict web access to Mon-Fri from 3pm to 8pm, you could create a schedule selecting Mon, Tue, Wed, Thu, and Fri and enter a Start Time of 3pm and End Time of 8pm.

Name: Enter a Name for your new schedule.

Day(s): Select a Day, a range of Days, or All Week to include every day of the week.

Time: Check All Day - 24 hrs or select a Time format and enter a Start Time and End Time for your schedule below.

Schedule Rules The list of schedules will be listed here. Click the List: Edit icon to make changes or click the Trash icon to delete the schedule.



Status Device Info

This page displays the current information for the DIR-808L. It will display the LAN, WAN (Internet), and Wireless information. If your Internet connection is set up for a Dynamic IP address then a **Release** button and a **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **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 router's *Time* and *Firmware* version.

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

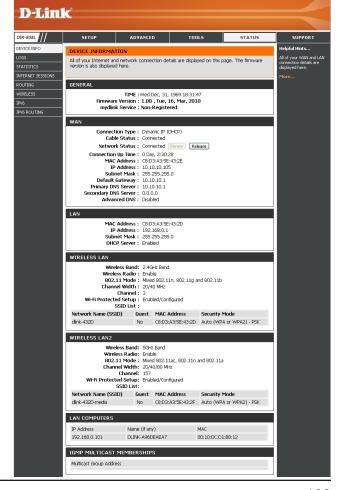
LAN: Displays the *MAC Address* and the private (local) IP settings for the router.

Wireless LAN: Displays the 2.4GHz wireless *MAC Address* and your wireless settings such as *Network Name (SSID)* and *Channel*.

Wireless LAN2: Displays the 5GHz wireless *MAC Address* and your wireless settings such as *Network Name (SSID)* and *Channel*.

LAN Computers: Displays computers and devices that are connected to the router via Ethernet and that are receiving an IP address assigned by the router (DHCP).

IGMP Multicast Displays IPv4 and IPv6 *Multicast Group Addresses*. **Memberships:**



Logs

The router automatically logs (records) events of possible interest in it's 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. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

Log Options: You can select the types of messages that you want to display from the log. System Activity, Debug Information, Attacks, Dropped Packets, and Notice messages can be selected. Click Apply Log Settings

Now to activate your 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: Click to **Refresh** the page.

Clear: Clears all of the log contents.

Email Now: This option will send copy of the router log to your email

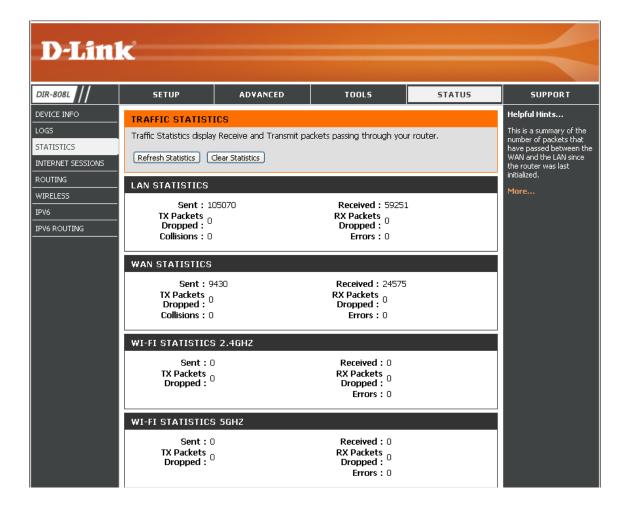
address configured in the **Tools** > **Email Settings** page.

Save Log: This option will save the router log to a local hard drive.



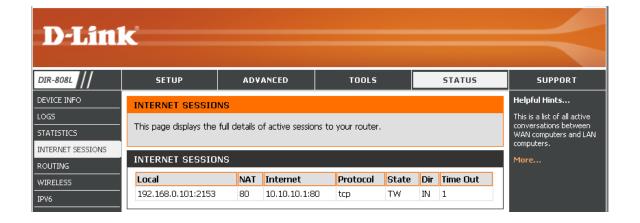
Statistics

The screen below displays the **Traffic Statistics**. Here you can view the amount of packets that pass through the DIR-808L on both the WAN, LAN ports and the Wi-Fi® segments. The traffic counter will reset if the device is rebooted.



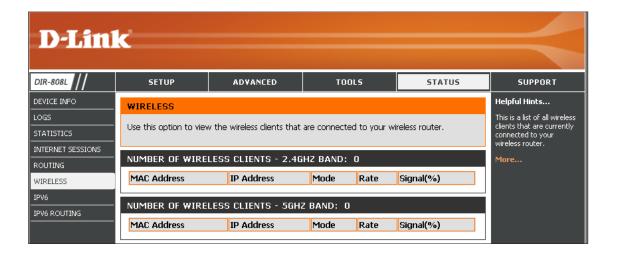
Internet Sessions

The Internet Sessions page displays full details of active Internet sessions through your router. An Internet session is a conversation between a program or application on a LAN-side computer and a program or application on a WAN-side computer.



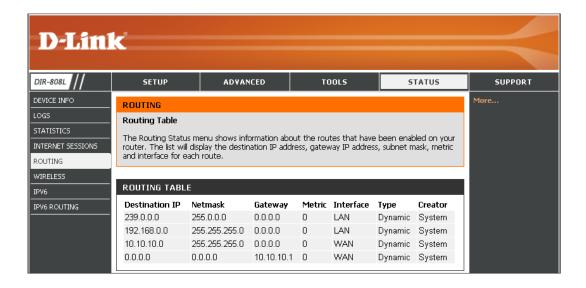
Wireless

The wireless client table displays a list of current connected wireless clients. This table also displays the connection rate and MAC address of the connected wireless clients.



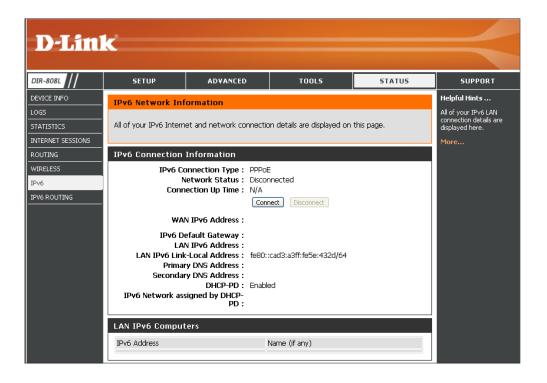
Routing

This page will display your current routing table.



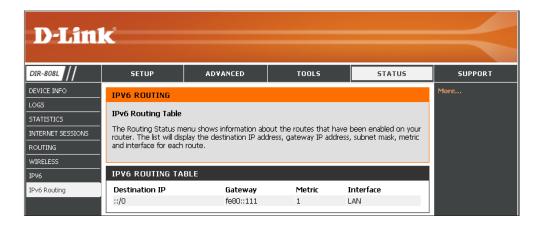
IPv6

The IPv6 Status page displays a summary of the Router's IPv6 connection details, and displays the IPv6 Address and host Name (if any) for IPv6 clients.

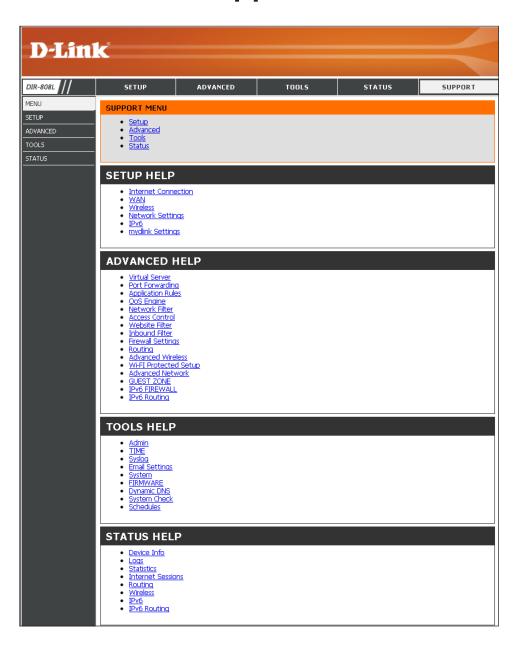


IPV6 Routing

This page displays the IPV6 routing details configured for your router.



Support



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 DIR-808L 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 DIR-808L for about one second. The Internet LED on the front will start to blink.



- **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 Internet light 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).



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

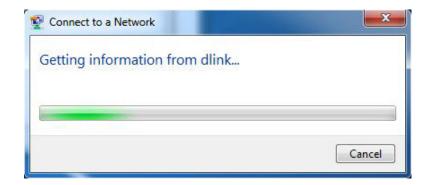


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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.

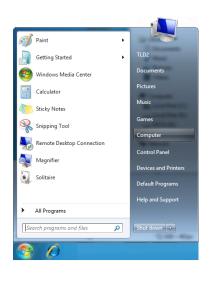
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



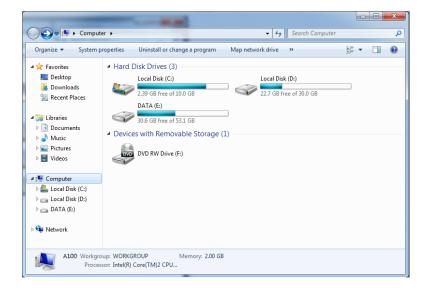
WPS

The WPS feature of the DIR-808L can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

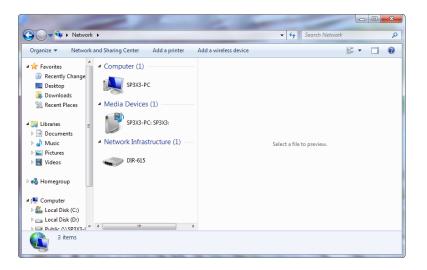
1. Click the **Start** button and select **Computer** from the Start menu.



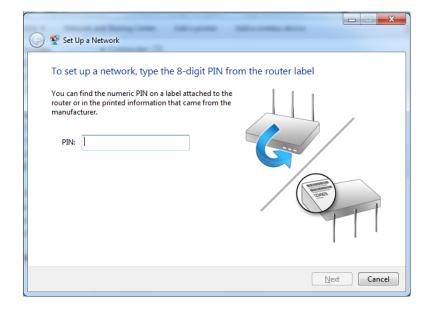
2. Click **Network** on the left side.



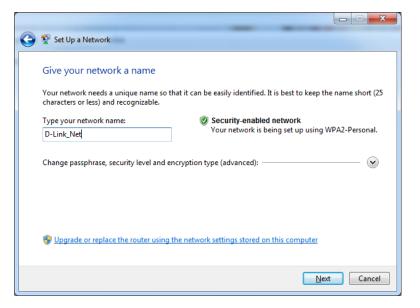
3. Double-click the DIR-808L.



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**.

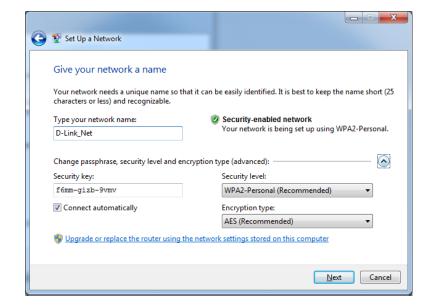


5. Type a name to identify the network.



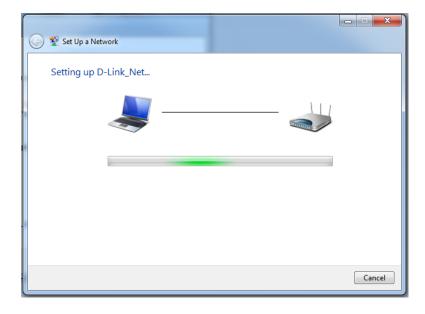
6. To configure advanced settings, click the vicon.

Click **Next** to continue.



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

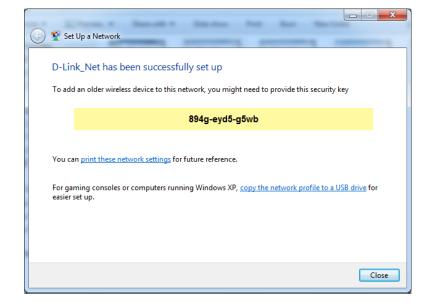
Wait for the configuration to complete.



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.



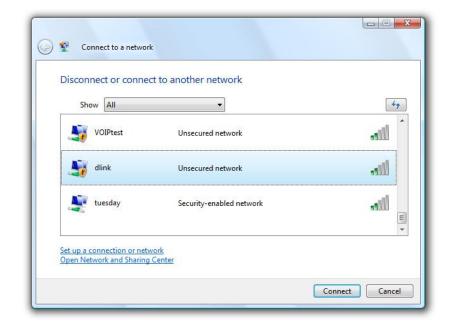
WPA/WPA2

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**.

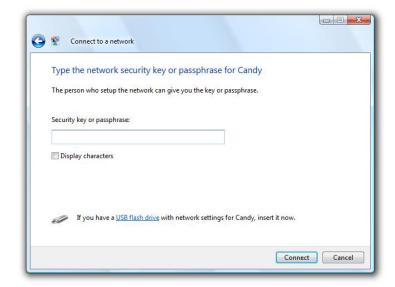


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



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.

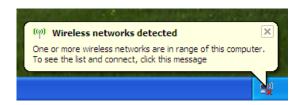
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

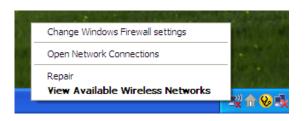
or

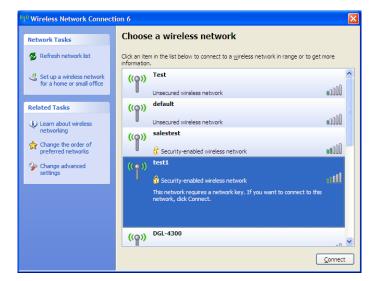
Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

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.







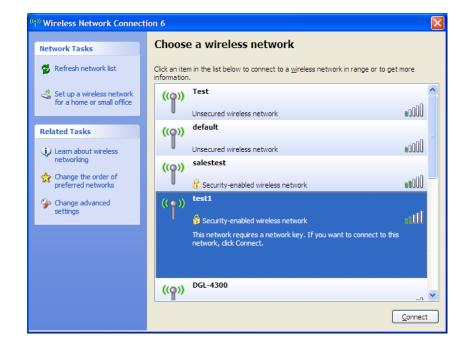
WPA/WPA2

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**.

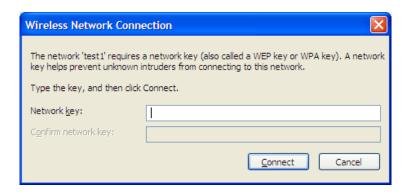


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



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 DIR-808L. 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:
 - Microsoft Internet Explorer® 7 and higher
 - Mozilla Firefox 3.5 and higher
 - Google™ Chrome 8 and higher
 - Apple 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 back 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 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 -1 1482

Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:

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 -1 1472

Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:

Reply from 66.94.234.13: bytes=1472 time=93ms TIL=52

Reply from 66.94.234.13: bytes=1472 time=109ms TIL=52

Reply from 66.94.234.13: bytes=1472 time=203ms TIL=52

Reply from 66.94.234.13: bytes=1472 time=203ms TIL=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, lets 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 as 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 you 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 DIR-808L 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.

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.

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:

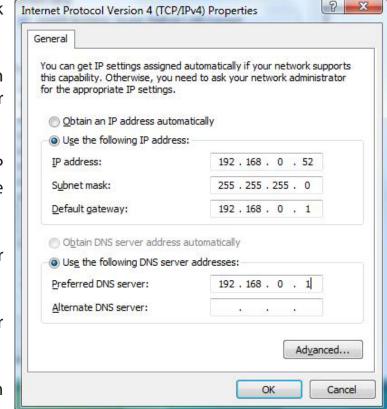
Windows® 8 Users

- 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.

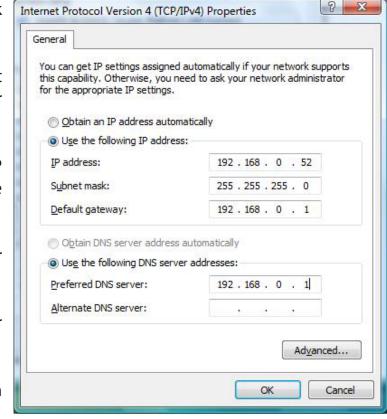


Windows® 7/ Vista® Users

- 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.

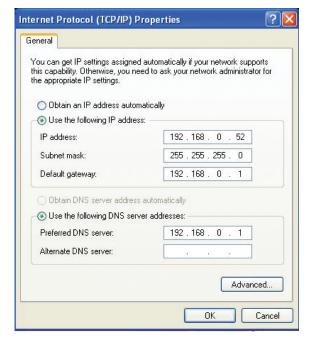


Windows® XP Users

- 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

Physical Interface

- Four Fast Ethernet LAN Ports
- One WAN Port
- One WPS Push Button
- One Reset Button

Security

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

LEDs

- Power/WPS
- Internet

Power

• DC 12V/1.0A

Operating Temperature

• 32° to 104° F (0° to 40° C)

Operating Humidity

• 10% to 90% non-condensing

Certifications

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

Dimensions

• 6.16" x 4.46" x 2.11" (156.5mm x 113.2mm x 53.6mm)

Weight

• 0.41 lb (184.7g)

Warranty

• 1-Year Limited Warranty

¹ Maximum wireless signal rate derived from IEEE Standard 802.11ac (draft), 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. DIR-808L)
- 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

GPL Code Statement

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 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 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.

Disclaimer of Other Warranties:

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

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

Limitation of Liability:

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

Governing Law:

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

Trademarks:

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CE Mark Warning:

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

FCC Statement:

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

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

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

FCC Caution:

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

Operations in the 5.15-5.25GHz / $5.470 \sim 5.725$ GHz 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. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

If this device is going to be operated in $5.15 \sim 5.25$ GHz frequency range, then it is restricted in indoor environment only. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

ICC Notice:

Operation is subject to the following two conditions:

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

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

- (i) The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;
- (ii) The maximum antenna gain (2dBi) permitted (for devices in the band 5725-5825 MHz) to comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate, as stated in section A9.2(3).

In addition, users should also be cautioned to take note that high-power radars are allocated as primary users (meaning they have priority) of the bands 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

- (1) Ce périphérique ne doit pas causer d'interférence et.
- (2) Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

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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