



User Manual

SharePort Go

DIR-506L

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
1.1	September 11, 2012	• Initial release
1.2	January 16, 2013	• Modify Default WiFi SSID
1.3	March 22, 2013	• Added new Setup Wizard

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Product Overview

Package Contents



DIR-506L SharePort Go



CD



USB cable



Rechargeable battery



Quick Install Guide

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

System Requirements

Network Requirements	<ul style="list-style-type: none">• An Ethernet-based Cable or DSL modem• IEEE 802.11n or 802.11g wireless clients• 10/100 Ethernet
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An wireless adapter or Ethernet port <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 8, Firefox 8.0, Safari 4.0, or Google Chrome 16 or higher versions <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>

Introduction

TOTAL PERFORMANCE

Combines award winning router features and Wireless N 150 technology to provide the best wireless performance.

TOTAL SECURITY

The most complete set of security features including Active Firewall and WPA/WPA2 to protect your network against outside intruders.

TOTAL COVERAGE

Provides greater wireless signal rates even at farther distances for best-in-class Whole Home Coverage.

ULTIMATE PERFORMANCE

The D-Link SharePort Go (DIR-506L) lets you create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the DIR-506L router to a cable or DSL modem and share your high-speed Internet access with everyone on the network. In addition, this Router includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online gaming smooth and responsive, providing a better Internet experience.

TOTAL NETWORK SECURITY

The DIR-506L router supports all of the latest wireless security features to prevent unauthorized access, be it from over the wireless network or from the Internet. Support for WPA/WPA2 standards ensure that you'll be able to use the best possible encryption method, regardless of your client devices. In addition, this router utilizes dual active firewalls (SPI and NAT) to prevent potential attacks from across the Internet.

* Maximum wireless signal rate derived from IEEE Standard 802.11n and 802.11g 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.

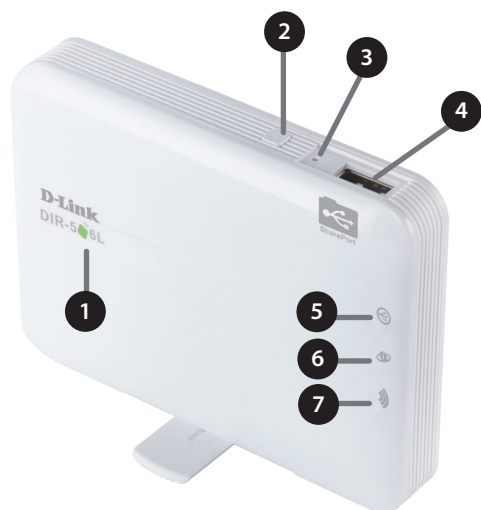
Features

- **Faster Wireless Networking** - The provides an up to 150 Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with 802.11g Devices** - The DIR-506L is still fully compatible with the IEEE 802.11g standards, so it can connect with existing 802.11g devices.
- **Advanced Firewall Features** - The Web-based user interface displays a number of advanced network management features including:
 - **Content Filtering** - Easily applied content filtering based on MAC address and website address.
 - **Filter Scheduling** - These filters can be scheduled to be active on certain days or for a duration of hours or minutes.
 - **Secure Multiple/Concurrent Sessions** - The can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the can securely access corporate networks.

* Maximum wireless signal rate derived from IEEE Standard 802.11n and 802.11g 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

Front/Top



1	Power LED		When charging	When not charging
		Solid green	Battery is fully charged (when device is on)	
		Flashing green		Battery almost full
		Solid amber	Battery is charging	
		Solid red		Low battery
		Flashing red		Very low battery
		Off	Battery is fully charged (when device is off)	Device is turned off
2	WPS Button	Pressing the WPS button allows additional devices to connect securely and automatically.		
3	Reset Button	Pressing the Reset button restores the DIR-506L to its original factory default settings.		
4	USB Port	Connects to a USB flash drive to share your files through SharePort™ Mobile and SharePort™ Web File Access.		
5	USB LED Indicator	Solid green	USB device is connected , SharePort is ready to use	
		Flashing green	USB device is connected, SharePort is not ready	
		Off	No USB device is connected	
6	Ethernet LED Indicator	Solid green	Ethernet connection is established	
		Flashing green	Data is being transferred over Ethernet	
		Off	No Ethernet connection	
7	Wi-Fi LED Indicator	Solid green	Wi-Fi is on and working	
		Flashing green	Data is being transferred over Wi-Fi	
		Flashing green (rapid)	WPS is activated and looking for clients	
		Off	Wi-Fi is off	

Hardware Overview

Side/Left



1	Ethernet LAN/WAN Port	Connects to a cable or DSL modem through an Ethernet cable.
2	Power Switch	Turns the DIR-506L on and off.
3	Mini USB Port	This port provides power to the router and charges the battery.

Hardware Overview

Back



1	Battery cover	Slide the battery cover to remove it and access the battery compartment.
2	Battery compartment	Insert the rechargeable battery into the compartment, making sure the contact points on the battery are properly aligned with the contact points of the device. After proper insertion, replace the battery cover.

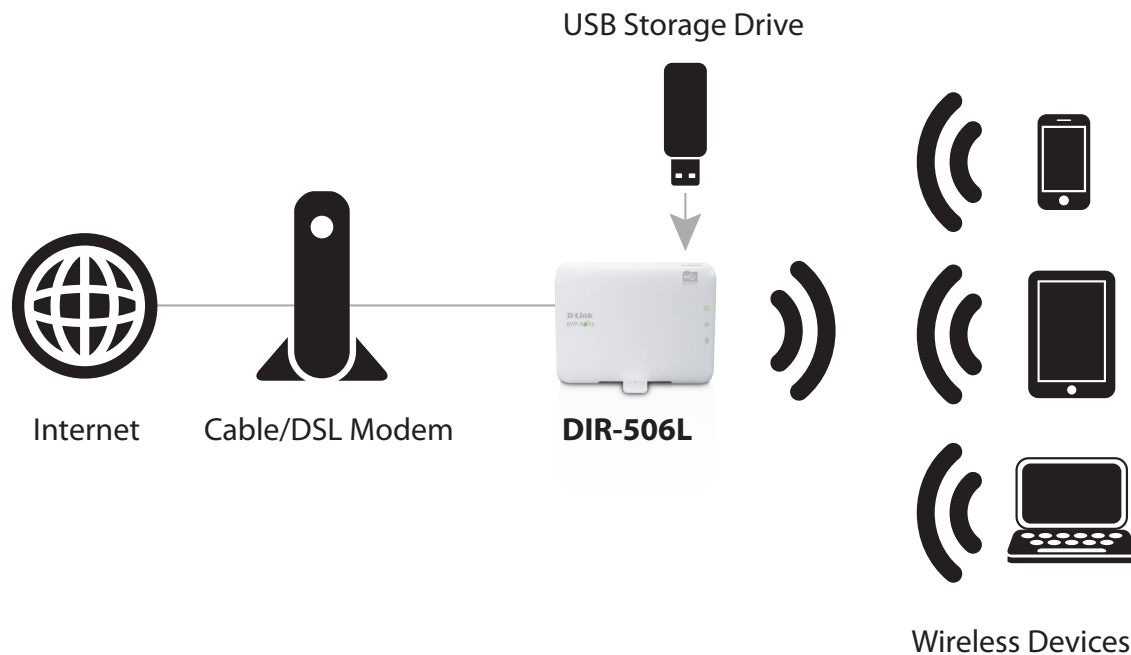
Note: Using a rechargeable battery other than the one that came with your package may cause damage to your device and will void its warranty.

Installation

Setup Overview

The DIR-506L connects to your cable modem, DSL modem, or other Internet source and shares your Internet connection with your devices wirelessly, providing Internet access for an entire home or office. You can also share files with other computers or devices on your wireless network by using the SharePort Mobile feature.

Note: To ensure an optimal experience when using SharePort, we suggest a maximum of 5 simultaneous users.



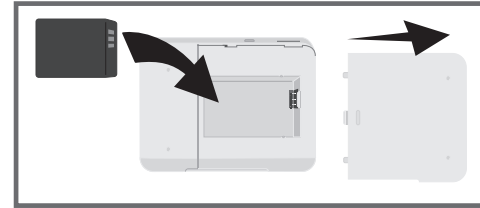
Wireless Installation Considerations

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

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

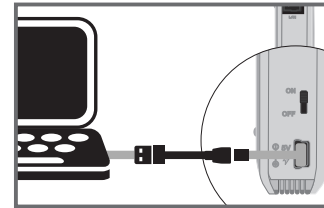
Setting Up Your DIR-506L

1. Slide off the cover and insert the battery. Make sure the gold contacts align with the gold terminals. Slide the cover back on.



2. Connect the USB cable to the DIR-506L and then connect to a USB port on your computer.

Note: Charge the device using the USB cable for at least 4 hours or until it is fully charged before usage.



3. Use the following information to connect to your DIR-506L wirelessly:

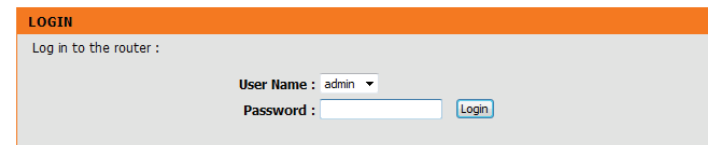
Default WiFi SSID: **DIR506L-####***

Default Password: **0266000123**

* #### is the last 4 digits of your MAC address, which is printed on a label placed in the battery compartment of the DIR-506L.



4. Open a web browser, and go to **http://dlinkrouter.local**. By default, the User Name is **admin**, and the Password should be left blank. After logging in, the Setup Wizard will appear, which is described on the following pages.

A screenshot of the login page for the DIR-506L router. The page has an orange header with the word "LOGIN" in white. Below the header, it says "Log in to the router :". There are two input fields: "User Name" with a dropdown menu showing "admin" and "Password" with a text box. A "Login" button is to the right of the password field.

Initial Setup Wizard

The first time you use your DIR-506L, the Setup Wizard will automatically open.

Click **Next** to continue.

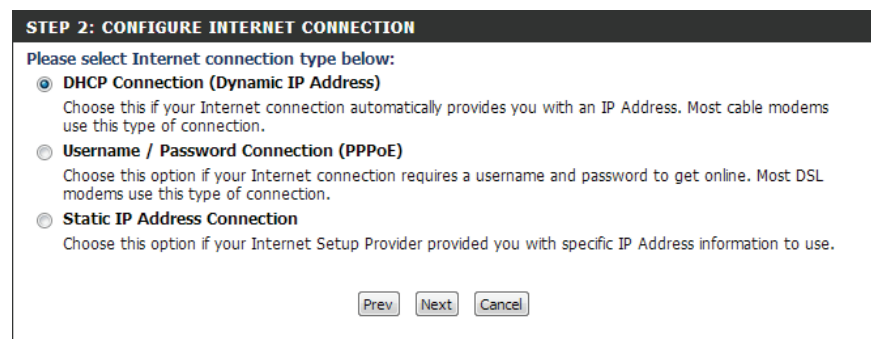
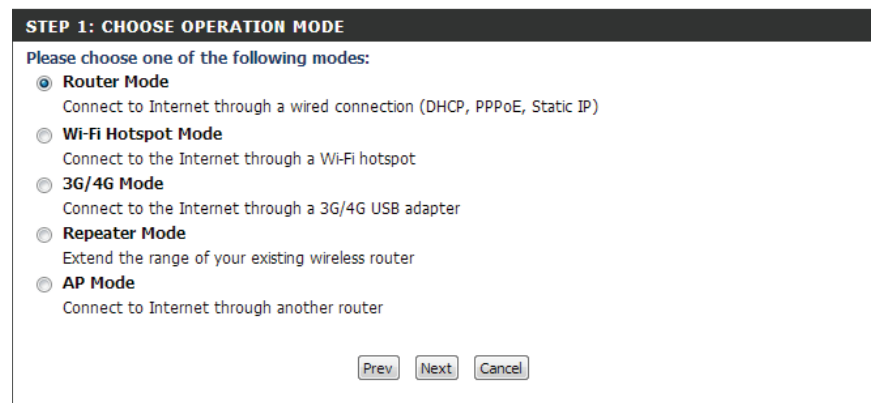
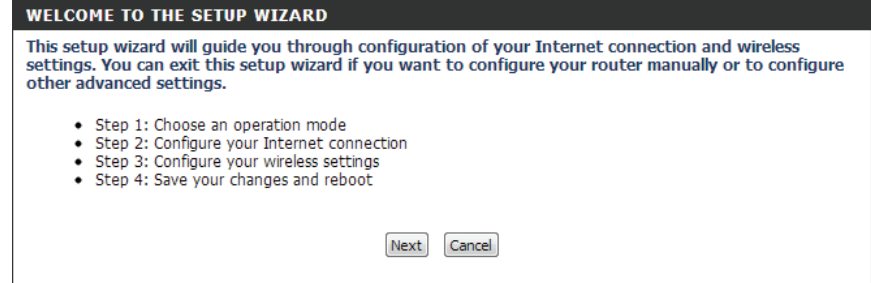
Note: If the Setup Wizard does not open automatically, click the **Internet Connection Setup Wizard** button.

Select an operating mode to use, then click **Next** to continue.

Note: When selecting Hotspot Mode or Repeater Mode, it may take up to 30 seconds before the next screen appears.

If you selected Router Mode, select which type of Internet connection you use, then click **Next**.

- **DHCP** is often used for cable modem and direct Internet connections.
- **PPPoE** is used for most DSL connections. If you choose PPPoE, enter the username and password for your connection on the next screen.
- **Static IP** should only be used if instructed to by your Internet service provider. Enter the IP information provided to you by your ISP on the next screen.



If you selected **Wi-Fi Hotspot Mode**, select the hotspot you want to connect to, then click the **Select** button at the bottom. If the hotspot requires a password, enter it on the next screen.

STEP 2: CONFIGURE INTERNET CONNECTION (WI-FI HOTSPOT)

Select a Wi-Fi hotspot to connect to the Internet with.

Select	SSID	BSSID	Channel	Mode	Security	Signal Strength
<input type="radio"/>	D-Link	1c:bd:b9:c3:8f:50	1	B/G/N Mixed	(None)	70%
<input type="radio"/>	dlink-1111	00:94:e4:cd:d8:04	1	B/G/N Mixed	(None)	91%
<input type="radio"/>	dlink45E8	1c:af:f7:a1:45:e8	12	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	76%
<input type="radio"/>	dlink-2244	00:49:05:11:22:44	13	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	60%

Refresh Select

Prev Next Cancel

If you selected **3G/4G Mode**, enter the PIN code for your SIM card if it uses one, then click **Next**.

STEP 2: CONFIGURE INTERNET CONNECTION (3G/4G)

If your SIM card requires a PIN code to unlock it, please enter it.

Pin Code :

Reconnect Mode : ☒ Auto ☐ Manual

Maximum Idle Time : seconds

Prev Next Cancel

If you selected **Repeater Mode**, select the wireless network you want to extend, then click the **Select** button at the bottom. If the wireless network requires a password, enter it on the next screen.

STEP 2: CONFIGURE INTERNET CONNECTION (REPEATER)

Select the wireless network supplying an Internet connection.

Select	SSID	BSSID	Channel	Mode	Security	Signal Strength
<input type="radio"/>	D-Link	1c:bd:b9:c3:8f:50	1	B/G/N Mixed	(None)	70%
<input type="radio"/>	dlink-1111	00:94:e4:cd:d8:04	1	B/G/N Mixed	(None)	91%
<input type="radio"/>	dlink45E8	1c:af:f7:a1:45:e8	12	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	76%
<input type="radio"/>	dlink-2244	00:49:05:11:22:44	13	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	60%

Refresh Select

Prev Next Cancel

Enter a name for your new wireless network. It is highly recommended that you enable wireless security and enter a password that is 8-63 characters long to use for your wireless network. Click **Next** to continue.

Note: If you set your DIR-506L to use Repeater Mode, it is recommended that you use a different Wi-Fi network name. If you use the same Wi-Fi network name, it will extend your existing Wi-Fi network and will no longer be listed as a separate Wi-Fi network. You can connect your devices to your existing Wi-Fi network as normal, and verify the DIR-506L is working by observing increased signal strength.

Setup is complete! After confirming your settings, click **Save** to save your settings and reboot the DIR-506L.

After the DIR-506L reboots, you will need to reconnect to it using the wireless network name and password you created.

STEP 3: CONFIGURE WIRELESS SETTINGS

Please enter the following information:

Wireless Network Name (SSID) :

Wireless Security : ☒ Disable ☐ Enable

Wireless Password :

Prev Next Cancel

STEP 4: SAVE CHANGES AND REBOOT

Setup is complete!

If this information is correct, click the "Save" button to save your changes.

Mode: Router Mode

Internet connection: DHCP

Wireless Network Name (SSID): dlink_DIR-506L

Wireless Security: Enable

Wireless Password: asdfasd

Prev Save Cancel

Note: After clicking the "Save" button, the router will reboot and you will be disconnected from the router. After it finishes rebooting, use the new settings you created to reconnect to the router.

SharePort Mobile App

The SharePort Mobile app allows you to remotely access files stored on a USB flash drive or USB external hard drive connected to the DIR-506L. For more information on using this feature, please refer to “Storage” on page 45.

Note: The SharePort Web/SharePort Mobile feature of the DIR-506L can only be used when the device is configured for **Router Mode** or **Hotspot Mode**.

1. Plug your USB flash drive into the USB port on top of the DIR-506L.



Note: Do not add or remove USB devices when turning the DIR-506L on or off.

2. Use your iOS or Android mobile device to scan the QR code to the right to download the **SharePort Mobile** app.

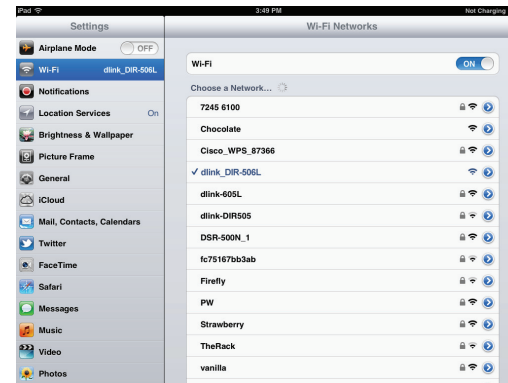
You can also search for the **SharePort Mobile** app directly in the iOS App Store or Google Play.



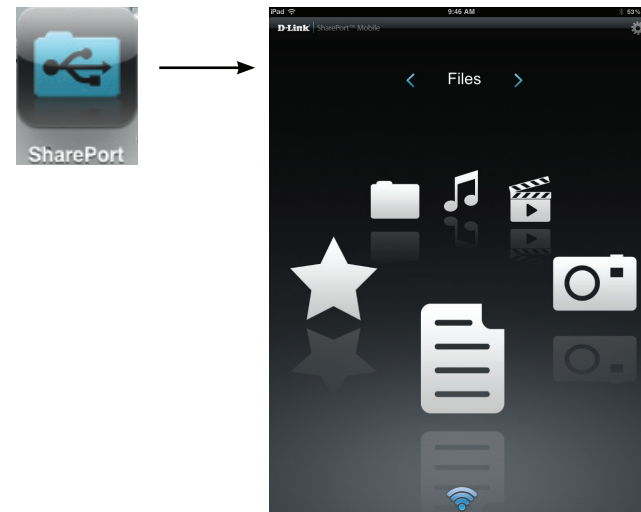
4. From your iOS mobile device, tap **Settings**.



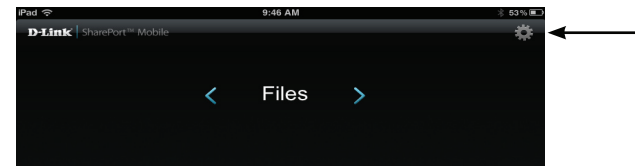
5. Click **Wi-Fi** and select the network (SSID) that you assigned during initial setup. Then, enter your Wi-Fi password.



6. Once connected, tap the **SharePort** icon, and the SharePort app will load.

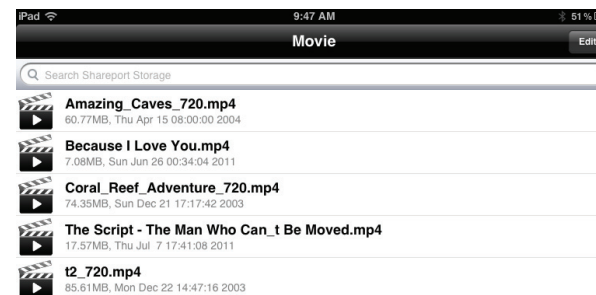


7. Tap on the **Settings** gear icon located on the right top corner of the screen. Then, click **Edit** to enter your User Name and Password. Once you finish, click **Done** to continue.



8. You can now use the SharePort Mobile app to access the files on your USB storage drive.

Note: If you connect a USB storage drive with many files or with a large capacity, it may take a while for the DIR-506L to scan and catalog your files.



QRS Mobile App Setup

1. Use your iOS or Android mobile device to scan the QR code to the right to download the **QRS Mobile** app.

You can also search for the **QRS Mobile** app directly in the iOS App Store or Google Play.



2. From your mobile device, go to **Settings**, and then go to **Wi-Fi**.



Settings

3. Use the following information to connect to your DIR-506L wirelessly:

Default WiFi SSID: **DIR506L-####***

Default Password: **0266000123**

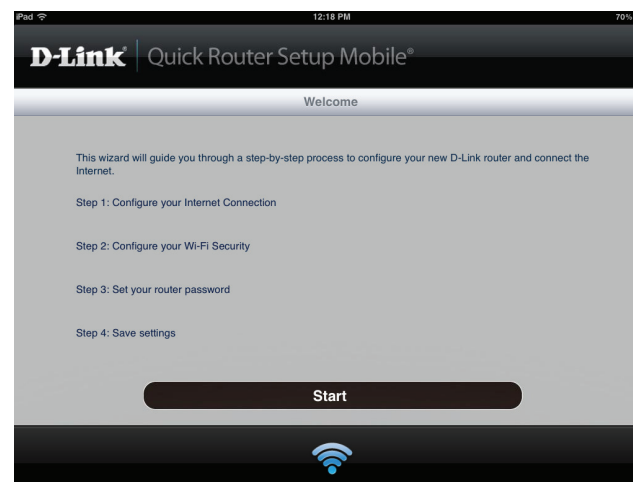
* #### is the last 4 digits of your MAC address, which is printed on a label placed in the battery compartment of the DIR-506L, or on the bottom cover page of this quick installation guide.



4. Once your mobile device is connected, click on the **QRS Mobile** icon.



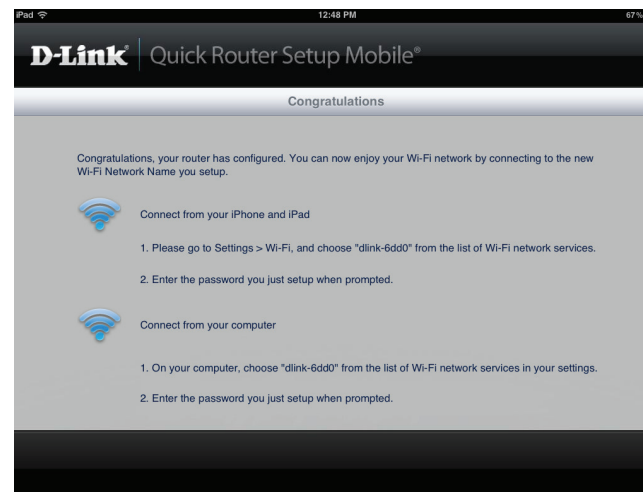
5. Click **Start** to continue.



6. Follow the instructions and click **Next** to continue.




7. After the Setup Wizard is complete, the following screen will appear. You can now change your mobile device and laptop Wi-Fi settings to the wireless network name and password you just created.



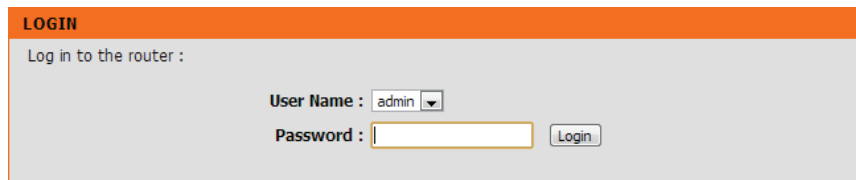
Configuration

Web-based Configuration

To access the configuration utility for the DIR-506L, open a web browser and enter **http://dlinkrouter.local** or **http://192.168.0.1** in the address bar.

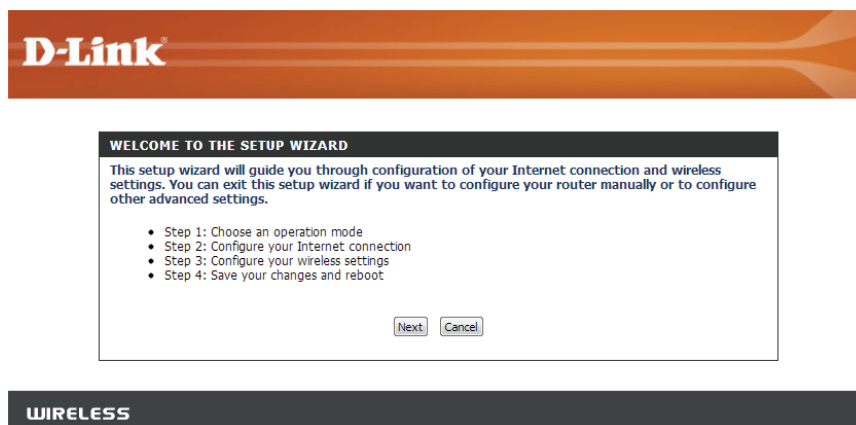
 <http://dlinkrouter.local>

Select **admin** from the drop-down menu and then enter your password. By default, the password is blank.



The screenshot shows the LOGIN page of the D-Link router configuration utility. It has an orange header with the word "LOGIN". Below the header, it says "Log in to the router :". There are two input fields: "User Name :" with a dropdown menu showing "admin" and a small downward arrow, and "Password :" with a text input field. To the right of the password field is a "Login" button.

The first time you open this interface, the Setup Wizard will appear automatically. For more information, refer to "Internet Connection Setup Wizard" on page 21.



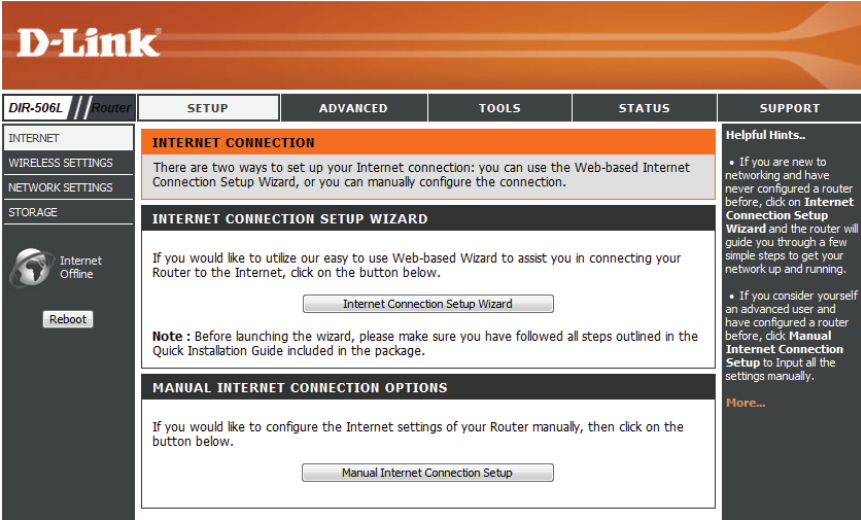
The screenshot shows the "WELCOME TO THE SETUP WIZARD" page. It has an orange header with the "D-Link" logo. Below the header, it says "WELCOME TO THE SETUP WIZARD". The main text reads: "This setup wizard will guide you through configuration of your Internet connection and wireless settings. You can exit this setup wizard if you want to configure your router manually or to configure other advanced settings." Below this text is a list of four steps: "Step 1: Choose an operation mode", "Step 2: Configure your Internet connection", "Step 3: Configure your wireless settings", and "Step 4: Save your changes and reboot". At the bottom right, there are "Next" and "Cancel" buttons.

Setup

Internet Settings

If you want to configure your router to connect to the Internet using a setup wizard, click **Internet Connection Setup Wizard**, and continue to the next page.

To configure your Internet settings manually, click the **Manual Internet Connection Setup** button and go to “Manual Internet Setup” on page 24.



Internet Connection Setup Wizard

The Internet Connection Setup Wizard is designed to guide you through a step-by-step process to configure the Internet and wireless settings of your DIR-506L.

Click **Next** to continue.

Select an operating mode to use, then click **Next** to continue.

Note: When selecting Hotspot Mode or Repeater Mode, it may take up to 30 seconds before the next screen appears.

If you selected Router Mode, select which type of Internet connection you use, then click **Next**.

- **DHCP** is often used for cable modem and direct Internet connections.
- **PPPoE** is used for most DSL connections. If you choose PPPoE, enter the username and password for your connection on the next screen.
- **Static IP** should only be used if instructed to by your Internet service provider. Enter the IP information provided to you by your ISP on the next screen.

WELCOME TO THE SETUP WIZARD

This setup wizard will guide you through configuration of your Internet connection and wireless settings. You can exit this setup wizard if you want to configure your router manually or to configure other advanced settings.

- Step 1: Choose an operation mode
- Step 2: Configure your Internet connection
- Step 3: Configure your wireless settings
- Step 4: Save your changes and reboot

Next Cancel

STEP 1: CHOOSE OPERATION MODE

Please choose one of the following modes:

- ☒ **Router Mode**
Connect to Internet through a wired connection (DHCP, PPPoE, Static IP)
- ☐ **Wi-Fi Hotspot Mode**
Connect to the Internet through a Wi-Fi hotspot
- ☐ **3G/4G Mode**
Connect to the Internet through a 3G/4G USB adapter
- ☐ **Repeater Mode**
Extend the range of your existing wireless router
- ☐ **AP Mode**
Connect to Internet through another router

Prev Next Cancel

STEP 2: CONFIGURE INTERNET CONNECTION

Please select Internet connection type below:

- ☒ **DHCP Connection (Dynamic IP Address)**
Choose this if your Internet connection automatically provides you with an IP Address. Most cable modems use this type of connection.
- ☐ **Username / Password Connection (PPPoE)**
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Static IP Address Connection**
Choose this option if your Internet Setup Provider provided you with specific IP Address information to use.

Prev Next Cancel

If you selected Wi-Fi Hotspot Mode, select the hotspot you want to connect to, then click the **Select** button at the bottom. If the hotspot requires a password, enter it on the next screen.

STEP 2: CONFIGURE INTERNET CONNECTION (WI-FI HOTSPOT)

Select a Wi-Fi hotspot to connect to the Internet with.

Select	SSID	BSSID	Channel	Mode	Security	Signal Strength
<input type="radio"/>	D-Link	1c:bd:b9:c3:8f:50	1	B/G/N Mixed	(None)	70%
<input type="radio"/>	dlink-1111	00:94:e4:cd:d8:04	1	B/G/N Mixed	(None)	91%
<input type="radio"/>	dlink45E8	1c:af:f7:a1:45:e8	12	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	76%
<input type="radio"/>	dlink-2244	00:49:05:11:22:44	13	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	60%

Refresh Select

Prev Next Cancel

If you selected 3G/4G Mode, enter the PIN code for your SIM card if it uses one, then click **Next**.

STEP 2: CONFIGURE INTERNET CONNECTION (3G/4G)

If your SIM card requires a PIN code to unlock it, please enter it.

Pin Code :

Reconnect Mode : ☒ Auto ☐ Manual

Maximum Idle Time : seconds

Prev Next Cancel

If you selected Repeater Mode, select the wireless network you want to extend, then click the **Select** button at the bottom. If the wireless network requires a password, enter it on the next screen.

STEP 2: CONFIGURE INTERNET CONNECTION (REPEATER)

Select the wireless network supplying an Internet connection.

Select	SSID	BSSID	Channel	Mode	Security	Signal Strength
<input type="radio"/>	D-Link	1c:bd:b9:c3:8f:50	1	B/G/N Mixed	(None)	70%
<input type="radio"/>	dlink-1111	00:94:e4:cd:d8:04	1	B/G/N Mixed	(None)	91%
<input type="radio"/>	dlink45E8	1c:af:f7:a1:45:e8	12	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	76%
<input type="radio"/>	dlink-2244	00:49:05:11:22:44	13	B/G/N Mixed	WPA-PSK/WPA2-PSK(TKIP/AES)	60%

Refresh Select

Prev Next Cancel

Enter a name for your new wireless network. It is highly recommended that you enable wireless security and enter a password that is 8-63 characters long to use for your wireless network. Click **Next** to continue.

Note: If you set your DIR-506L to use Repeater Mode, it is recommended that you use a different Wi-Fi network name. If you use the same Wi-Fi network name, it will extend your existing Wi-Fi network and will no longer be listed as a separate Wi-Fi network. You can connect your devices to your existing Wi-Fi network as normal, and verify the DIR-506L is working by observing increased signal strength.

Setup is complete! After confirming your settings, click **Save** to save your settings and reboot the DIR-506L.

After the DIR-506L reboots, you will need to reconnect to it using the wireless network name and password you created.

STEP 3: CONFIGURE WIRELESS SETTINGS

Please enter the following information:

Wireless Network Name (SSID) :

Wireless Security : ☒ Disable ☐ Enable

Wireless Password :

STEP 4: SAVE CHANGES AND REBOOT

Setup is complete!

If this information is correct, click the "Save" button to save your changes.

Mode: Router Mode
Internet connection: DHCP
Wireless Network Name (SSID): dlink_DIR-506L
Wireless Security: Enable
Wireless Password: asdfasd

Note: After clicking the "Save" button, the router will reboot and you will be disconnected from the router. After it finishes rebooting, use the new settings you created to reconnect to the router.

Manual Internet Setup

If you clicked **Manual Internet Connection Setup** on the **Internet Settings** page, you will see this screen. Here, you can configure the Internet connection for your DIR-506L. After making your changes, click the **Save Settings** button.

My Internet Connection is: Select the connection mode to use: **Dynamic IP (DHCP)**, **PPPoE**, **PPTP**, or **L2TP**. The remaining settings will change depending on which connection mode you use.

Note: Most cable modem connections use DHCP, and most DSL connections use PPPoE. If you are not sure which connection mode to use, contact your Internet service provider.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET WIRELESS SETTINGS NETWORK SETTINGS STORAGE

Internet Offline Reboot

INTERNET CONNECTION

Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP and Wi-Fi HotSpot. If you are unsure of your connection method, please contact your Internet Service Provider.

Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Save Settings Don't Save Settings

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is Dynamic IP (DHCP)

DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE

Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password.

Host Name :

Primary DNS Server :

Secondary DNS Server :

MTU : (bytes) MTU default = 1500

MAC Address : Clone

Auto-reconnect : ☒ Enable

Helpful Hints...

- Internet Connection:** When configuring the router to access the Internet, be sure to choose the correct Internet Connection Type from the drop down menu. If you are unsure of which option to choose, please contact your Internet Service Provider (ISP).
- Support:** If you are having trouble accessing the Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed.

More...

If you selected **Dynamic IP (DHCP)**, you will see the following settings.

Host Name: Entering a host name is optional but may be required by some ISPs. Leave this blank if you are not sure.

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

Primary/Secondary DNS Server: Enter the Primary and secondary DNS server IP addresses assigned by your ISP. These addresses are usually obtained automatically from your ISP. Leave this setting at 0.0.0.0 if you did not specifically receive these from your ISP.

MTU: If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.

MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

The screenshot shows the 'INTERNET CONNECTION TYPE' section with the 'Dynamic IP (DHCP)' option selected. Below this, the 'DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE' section contains fields for Host Name, Use Unicasting (checked), Primary DNS Server (0.0.0.0), Secondary DNS Server (0.0.0.0), MTU (1500), and MAC Address (00:00:00:00:00:00). A 'Clone Your PC's MAC address' button is located at the bottom of the MAC Address field.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : Dynamic IP (DHCP)

DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE :

Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password.

Host Name :

Use Unicasting : ☒ (compatibility for some DHCP Servers)

Primary DNS Server :

Secondary DNS Server :

MTU : (bytes) MTU default = 1500

MAC Address :

If you selected **PPPoE**, you will see the following settings. 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.

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

IP Address: Enter the IP address (for 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, set the **Reconnect Mode** to **Always on**.

Primary/Secondary DNS Server: Enter the primary and secondary DNS server addresses (Static PPPoE only).

MTU: If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.

MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : PPPoE (Username / Password) ▼

PPPOE INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode : ☒ Dynamic IP ☐ Static IP

IP Address : 0.0.0.0

Username :

Password :

Verify Password :

Service Name : (optional)

Reconnect Mode : ☐ Always on ☒ On demand ☐ Manual

Maximum Idle Time : 5 (minutes, 0=infinite)

Primary DNS Server : 0.0.0.0 (optional)

Secondary DNS Server : 0.0.0.0 (optional)

MTU : 1492 (bytes) MTU default = 1492

MAC Address : 00:00:00:00:00:00

Clone Your PC's MAC address

If you selected **PPTP**, you will see the following settings. Your ISP will provide you with a username and password. This option is typically used for DSL services.

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

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

PPTP Subnet Mask: Enter the primary and secondary DNS server addresses (for static PPTP only).

PPTP Gateway IP Address: Enter the gateway IP address provided by your ISP.

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

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

Primary/Secondary DNS Server: The DNS server information will be supplied by your ISP (Internet Service Provider).

MTU: If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : PPTP (Username / Password) ▼

PPTP INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode : ☐ Dynamic IP ☒ Static IP

PPTP IP Address : 0.0.0.0

PPTP Subnet Mask : 255.255.255.0

PPTP Gateway IP Address : 0.0.0.0

PPTP Server IP Address : 0.0.0.0

Username :

Password :

Verify Password :

Reconnect Mode : ☐ Always on ☒ On demand ☐ Manual

Maximum Idle Time : 5 (minutes, 0=infinite)

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0

MTU : 1400 (bytes) MTU default = 1492

MAC Address : 00:00:00:00:00:00

Clone Your PC's MAC address

MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : PPTP (Username / Password) ▼

PPTP INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode : ☐ Dynamic IP ☒ Static IP

PPTP IP Address : 0.0.0.0

PPTP Subnet Mask : 255.255.255.0

PPTP Gateway IP Address : 0.0.0.0

PPTP Server IP Address : 0.0.0.0

Username :

Password :

Verify Password :

Reconnect Mode : ☐ Always on ☒ On demand ☐ Manual

Maximum Idle Time : 5 (minutes, 0=infinite)

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0

MTU : 1400 (bytes) MTU default = 1492

MAC Address : 00:00:00:00:00:00

Clone Your PC's MAC address

If you selected **L2TP**, you will see the following settings. Your ISP will provide you with a username and password. This option is typically used for DSL services.

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

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

L2TP IP Address: Enter the L2TP IP address supplied by your ISP (for static IP only).

L2TP Subnet Mask: Enter the subnet mask supplied by your ISP (for static IP only).

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

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

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

Primary/Secondary DNS Server: Enter the primary and secondary DNS server addresses (for static L2TP only).

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : L2TP (Username / Password)

L2TP INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode : ☐ Dynamic IP ☒ Static IP

L2TP IP Address : 0.0.0.0

L2TP Subnet Mask : 255.255.255.0

L2TP Gateway IP Address : 0.0.0.0

L2TP Server IP Address : 0.0.0.0

Username :

Password :

Verify Password :

Reconnect Mode : ☐ Always on ☒ On demand ☐ Manual

Maximum Idle Time : 5 (minutes, 0=infinite)

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0

MTU : 1400 (bytes) MTU default = 1492

MAC Address : 00:00:00:00:00:00

Clone Your PC's MAC address

MTU: If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.

MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : L2TP (Username / Password) ▼

L2TP INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode : ☐ Dynamic IP ☒ Static IP

L2TP IP Address : 0.0.0.0

L2TP Subnet Mask : 255.255.255.0

L2TP Gateway IP Address : 0.0.0.0

L2TP Server IP Address : 0.0.0.0

Username :

Password :

Verify Password :

Reconnect Mode : ☐ Always on ☒ On demand ☐ Manual

Maximum Idle Time : 5 (minutes, 0=infinite)

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0

MTU : 1400 (bytes) MTU default = 1492

MAC Address : 00:00:00:00:00:00

Clone Your PC's MAC address

If you selected **Wi-Fi Hotspot**, the DIR-506L will scan for an available Wi-Fi hotspot to connect to. If one or more is found, they will appear in a list along with details of the signal.

My Internet Connection: Select **Wi-Fi Hotspot** from the drop-down menu.

Wireless AP List: The router will automatically scan for potential hotspot connections and add them to the **Wireless AP List**.

Refresh: The router will rescan for available hotspots.

Select: When you have chosen a hotspot from the list, press **Select** to enter your credentials and connect.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is

Wi-Fi HotSpot

WIRELESS AP LIST

Select	SSID	BSSID	Channel	Mode	Security	Signal Strength
--------	------	-------	---------	------	----------	-----------------

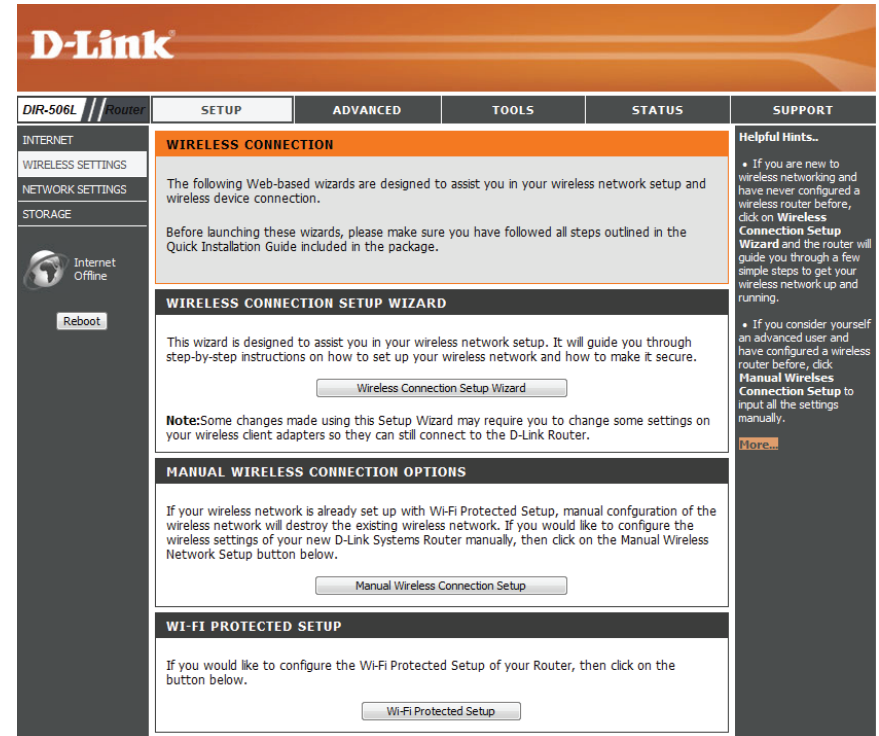
Refresh

Select

Wireless Settings

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

If you want to manually configure the wireless settings on your router click **Manual Wireless Connection Setup** and refer to “Manual Wireless - Router Mode” on page 36.



Wireless Network Setup Wizard

The Internet Connection Setup Wizard is designed to guide you through a step-by-step process to configure your wireless network.

Type your desired wireless network name (SSID) and click **Next**.

Choose your wireless security level from the following options:

BEST (Recommended): Select this option to create a network key using either AES or TKIP, and click **Next**.

BETTER: Select this option to create a network key using TKIP, and click **Next**.

GOOD: Select this option to create a network key using either ASCII or HEX, and click **Next**.

NONE (Not Recommended): Select this option if you do not wish to use a network key, and click **Next**. If you select this option, wireless setup will be completed. Click **Save** to save your settings and complete the setup process.

WELCOME TO THE WIRELESS SECURITY SETUP WIZARD

This wizard will guide you through a step-by-step process to setup your wireless network and make it secure.

- Step 1: Name your Wireless Network
- Step 2: Secure your Wireless Network
- Step 3: Set your Wireless Security Password

Prev Next Cancel Save

STEP 1: NAME YOUR WIRELESS NETWORK

Your wireless network needs a name so it can be easily recognized by wireless clients.

Wireless Network Name (SSID):

Prev Next Cancel Save

STEP 2: SECURE YOUR WIRELESS NETWORK

In order to protect your network from hackers and unauthorized users, it is highly recommended you choose one of the following wireless network security settings.

There are three levels of wireless security -Good Security, Better Security, or Best Security. The level you choose depends on the security features your wireless adapters support.

BEST : ☒ Select this option if your wireless adapters SUPPORT WPA2

BETTER : ☐ Select this option if your wireless adapters SUPPORT WPA

GOOD : ☐ Select this option if your wireless adapters DO NOT SUPPORT WPA

NONE : ☐ Select this option if you do not want to activate any security features

For information on which security features your wireless adapters support, please refer to the adapters' documentation.

Note: All wireless adapters currently support WPA.

Prev Next Cancel Save

If you selected **BEST** for your wireless security option, you will need to choose either **AES** or **TKIP** and manually enter a password for your wireless network. When you are finished, click **Next**.

STEP 3: SET YOUR WIRELESS SECURITY PASSWORD

Once you have selected your security level - you will need to set a wireless security password. With this password, a unique security key will be generated.

Wireless Security Password : AES

Note: You will need to enter the unique security key generated into your wireless clients enable proper wireless communication - not the password you provided to create the security key.

Prev Next Cancel Save

If you selected **BETTER** for your wireless security option, you will need to manually enter a password for your wireless network using TKIP. When you are finished, click **Next**.

STEP 3: SET YOUR WIRELESS SECURITY PASSWORD

Once you have selected your security level - you will need to set a wireless security password. With this password, a unique security key will be generated.

Wireless Security Password : TKIP

Note: You will need to enter the unique security key generated into your wireless clients enable proper wireless communication - not the password you provided to create the security key.

Prev Next Cancel Save

If you selected **GOOD** for your wireless security option, you will need to choose either **ACSII** or **HEX** and manually enter a password for your wireless network. When you are finished, click **Next**.

STEP 3: SET YOUR WIRELESS SECURITY PASSWORD

Once you have selected your security level - you will need to set a wireless security password. With this password, a unique security key will be generated.

Wireless Security Password : ASCII

Note: You will need to enter the unique security key generated into your wireless clients enable proper wireless communication - not the password you provided to create the security key.

Prev Next Cancel Save

Wireless setup is now complete. Click **Save** to save your settings and complete the setup process.

SETUP COMPLETE!

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

Wireless Network Name (SSID) : dlink_DIR-506L

Prev Next Cancel Save

Manual Wireless Network Configuration

If you clicked **Manual Wireless Network Setup** you can choose what mode the DIR-506L will operate in and configure the wireless network settings. After making your changes, click the **Save Settings** button.

Wireless Mode: Choose from either **Router Mode**, **AP (Access Point) Mode**, or **Repeater Mode** from the drop down menu.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar shows a menu with options like INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, and STORAGE. The main content area is titled "WIRELESS NETWORK" and contains the following sections:

- WIRELESS NETWORK**: A section with instructions on how to configure wireless settings and a "Save Settings" button.
- WIRELESS MODE SETTING**: A section where the "Wireless Mode" is set to "Router Mode".
- WIRELESS NETWORK SETTINGS**: A section with various configuration options:
 - Enable Wireless**: ☒
 - Wireless Network Name**: "dlink_DIR-506L" (Also called the SSID)
 - 802.11 Mode**: "B/G/N mixed"
 - Auto Channel Scan**: ☒
 - Wireless Channel**: "2.412 GHz - CH 1"
 - Channel Width**: "Auto 20/40 MHz"
 - Visibility Status**: ☒ Visible ☐ Invisible
- WIRELESS SECURITY MODE**: A section where the "Security Mode" is set to "None".

On the right side of the interface, there is a "Helpful Hints.." section with additional information about wireless network configuration.

Manual Wireless - Router Mode

If you chose **Router** mode you can configure the DIR-506L as a router. After making changes to the wireless network settings, click the **Save Settings** button.

Enable Wireless: Check **Enable Wireless** to enable the wireless function. If you want to disable wireless functions, uncheck the box.

Wireless Network Name: When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

802.11 Mode: Select one of the following based on your needs:

- **802.11b Only:** Select this for 802.11b wireless clients.
- **802.11g Only:** Select this for 802.11g wireless clients.
- **802.11n Only:** Select this for 802.11n wireless clients.
- **Mixed 802.11g and 802.11b:** Select this if you are using a mix of 802.11g and 11b wireless clients.
- **Mixed 802.11n and 802.11g:** Select this if you are using a mix of 802.11n and 11g wireless clients.
- **Mixed 802.11n, 802.11g and 802.11b:** Select this if you are using a mix of 802.11n, 11g, and 11b wireless clients.

Enable Auto Channel Scan: Select **Auto Channel Scan** to automatically choose the channel with the least amount of interference.

Wireless Channel: If Auto Channel Scan is unchecked, choose the channel you want to use for wireless communication.

Channel Width: Use the drop down menu to choose the width of the wireless channel you want to use.

Visibility Status: If you want to broadcast the name of your wireless network choose **Visible**. Choose **Invisible** to hide it.

WIRELESS MODE SETTING	
Wireless Mode :	Router Mode ▾

WIRELESS NETWORK SETTINGS	
Enable Wireless :	<input checked="" type="checkbox"/>
Wireless Network Name :	dlink_DIR-506L (Also called the SSID)
802.11 Mode :	B/G/N mixed ▾
Auto Channel Scan :	<input checked="" type="checkbox"/>
Wireless Channel :	2.412 GHz - CH 1 ▾
Channel Width :	Auto 20/40 MHz ▾
Visibility Status :	<input checked="" type="radio"/> Visible <input type="radio"/> Invisible

WIRELESS SECURITY MODE	
Security Mode :	None ▾

If you select **WEP** as your Security Mode:

WEP Key Length: Select an encryption level and key length to use. This will also set the type and length of the key you will need to enter.

WEP Key: Enter the password(key) for your wireless network. It will need to match the requirements for the WEP Key Length selected above.

Authentication: Choose what Authentication type to use.

WIRELESS SECURITY MODE

Security Mode : WEP

WEP

WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.

You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys.

If you choose the WEP security option this device will **ONLY** operate in **Legacy Wireless mode (802.11B/G)**. This means you will **NOT** get 11N performance due to the fact that WEP is not supported by the Draft 11N specification.

WEP Key Length : 64 bit (10 hex digits) (length applies to all keys)

WEP Key 1 :

Authentication : Both

If you select **WPA-Personal** as your Security Mode:

WPA Mode: Select whether to use **WPA**, **WPA2**, or both **WPA and WPA2** for your wireless network..

Cipher Type: Choose whether to use **TKIP**, **AES**, or both **TKIP and AES** ciphers for your wireless network.

Pre-Shared Key: Enter the password(key) for your wireless network.

WIRELESS SECURITY MODE

Security Mode : WPA-Personal

WPA

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

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

WPA Mode : Auto (WPA or WPA2)

Cipher Type : TKIP and AES

PRE-SHARED KEY

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

Pre-Shared Key :

If you select **WPA-Enterprise** as your Security Mode:

WPA Mode: Select whether to use **WPA**, **WPA2**, or both **WPA and WPA2** for your wireless network..

Cipher Type: Choose whether to use **TKIP**, **AES**, or both **TKIP and AES** ciphers for your wireless network.

RADIUS Server IP Address: Enter your RADIUS server IP address.

RADIUS Server Port: Enter your RADIUS server port.

RADIUS Server Shared Secret: Enter your RADIUS server shared secret.

WIRELESS SECURITY MODE

Security Mode : WPA-Enterprise

WPA

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

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

WPA Mode : Auto (WPA or WPA2)

Cipher Type : TKIP and AES

EAP (802.1X)

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

RADIUS Server IP Address : 0.0.0.0

RADIUS Server Port : 1812

RADIUS Server Shared Secret :

Manual Wireless - Access Point Mode

If you chose **AP Only** mode you can configure the DIR-506L as an access point within an existing network. After making changes to the wireless network settings, click the **Save Settings** button.

Note: If you connect your DIR-506L to another D-Link router, you may want to change the device name of your DIR-506L to avoid having an address/IP conflict with your other router. For more information on changing your device name, refer to “Network Settings” on page 43.

Enable Wireless: Check **Enable Wireless** to enable the wireless function. If you want to disable wireless functions, uncheck the box.

Wireless Network Name: When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

802.11 Mode: Select one of the following based on your needs:

- **802.11b Only:** Select this for 802.11b wireless clients.
- **802.11g Only:** Select this for 802.11g wireless clients.
- **802.11n Only:** Select this for 802.11n wireless clients.
- **Mixed 802.11g and 802.11b:** Select this if you are using a mix of 802.11g and 11b wireless clients.
- **Mixed 802.11n and 802.11g:** Select this if you are using a mix of 802.11n and 11g wireless clients.
- **Mixed 802.11n, 802.11g and 802.11b:** Select this if you are using a mix of 802.11n, 11g, and 11b wireless clients.

WIRELESS MODE SETTING	
Wireless Mode :	AP Only

WIRELESS NETWORK SETTINGS	
Enable Wireless :	<input checked="" type="checkbox"/>
Wireless Network Name :	dlink_DIR-506L (Also called the SSID)
802.11 Mode :	B/G/N mixed
Auto Channel Scan :	<input checked="" type="checkbox"/>
Wireless Channel :	2.412 GHz - CH 1
Channel Width :	Auto 20/40 MHz
Visibility Status :	<input checked="" type="radio"/> Visible <input type="radio"/> Invisible

WIRELESS SECURITY MODE	
Security Mode :	None

Enable Auto Channel Scan: Select **Auto Channel Scan** to automatically choose the channel with the least amount of interference.

Wireless Channel: If Auto Channel Scan is unchecked, choose the channel you want to use for wireless communication.

Channel Width: Use the drop down menu to choose the width of the wireless channel you want to use.

Visibility Status: If you want to broadcast the name of your wireless network choose **Visible**. Choose **Invisible** to hide it.

Security Mode: Select the wireless security mode you wish to use. For more details, refer to "Manual Wireless - Router Mode" on page 36.

WIRELESS MODE SETTING	
Wireless Mode :	AP Only

WIRELESS NETWORK SETTINGS	
Enable Wireless :	<input checked="" type="checkbox"/>
Wireless Network Name :	dlink_DIR-506L (Also called the SSID)
802.11 Mode :	B/G/N mixed
Auto Channel Scan :	<input checked="" type="checkbox"/>
Wireless Channel :	2.412 GHz - CH 1
Channel Width :	Auto 20/40 MHz
Visibility Status :	<input checked="" type="radio"/> Visible <input type="radio"/> Invisible

WIRELESS SECURITY MODE	
Security Mode :	None

Manual Wireless - Repeater Mode

If you chose **Repeater** mode you can configure the DIR-506L as a repeater for another routing device. After making changes to the wireless network settings, click the **Save Settings** button.

Note: If you connect your DIR-506L to another D-Link router, you may want to change the device name of your DIR-506L to avoid having an address/IP conflict with your other router. For more information on changing your device name, refer to “Network Settings” on page 43.

Enable Wireless: Check **Enable Wireless** to enable the wireless function. If you want to disable wireless functions, uncheck the box.

Wireless Network Name: When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

802.11 Mode: Select one of the following based on your needs:

- **802.11b Only:** Select this for 802.11b wireless clients.
- **802.11g Only:** Select this for 802.11g wireless clients.
- **802.11n Only:** Select this for 802.11n wireless clients.
- **Mixed 802.11g and 802.11b:** Select this if you are using a mix of 802.11g and 11b wireless clients.
- **Mixed 802.11n and 802.11g:** Select this if you are using a mix of 802.11n and 11g wireless clients.
- **Mixed 802.11n, 802.11g and 802.11b:** Select this if you are using a mix of 802.11n, 11g, and 11b wireless clients.

WIRELESS MODE SETTING

Wireless Mode : Repeater

WIRELESS NETWORK SETTINGS

Enable Wireless : ☒

Wireless Network Name : DHP-W310AV (Also called the SSID)

802.11 Mode : B/G/N mixed

Auto Channel Scan : ☐

Wireless Channel : 2.412 GHz - CH 1

Channel Width : Auto 20/40 MHz

Authentication : WPA-PSK/WPA2-PSK

Encryption : TKIP/AES

Pre-Shared Key : 1234567890

Visibility Status : ☒ Visible ☐ Invisible

REPEATER

Wireless Mode : Repeater Mode Site survey

WIRELESS AP LIST

Enable Auto Channel Scan: Select **Auto Channel Scan** to automatically choose the channel with the least amount of interference.

Wireless Channel: If Auto Channel Scan is unchecked, choose the channel you want to use for wireless communication.

Channel Width: Use the drop down menu to choose the width of the wireless channel you want to use.

Visibility Status: If you want to broadcast the name of your wireless network choose **Visible**. Choose **Invisible** to hide it.

Wireless Mode: Click the **Site Survey** button to search for available wireless networks, then select a wireless network to connect to and repeat/extend. If the wireless network requires a password, enter it in the **Pre-Shared Key** box above.

WIRELESS MODE SETTING

Wireless Mode : Repeater

WIRELESS NETWORK SETTINGS

Enable Wireless : ☒

Wireless Network Name : DHP-W310AV (Also called the SSID)

802.11 Mode : B/G/N mixed

Auto Channel Scan : ☐

Wireless Channel : 2.412 GHz - CH 1

Channel Width : Auto 20/40 MHz

Authentication : WPA-PSK/WPA2-PSK

Encryption : TKIP/AES

Pre-Shared Key : 1234567890

Visibility Status : ☒ Visible ☐ Invisible

REPEATER

Wireless Mode : Repeater Mode
WIRELESS AP LIST

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings. After making your changes, click the **Save Settings** button.

Router Settings

Device Name: By default, you can access the configuration interface by going to **http://dlinkrouter.local**. in a web browser. Changing the device name allows you to change this address, which can be useful if the DIR-506L is connected to another D-Link product through Repeater or Wi-Fi Hotspot mode.

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 IP address in your browser to get back into the configuration utility.

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

Local Domain Name: Enter a name for the DIR-506L.

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

DHCP Lease Time: Enter the length of time to lease IP addresses to devices on your network.

Primary DNS IP Address: Configure the IP address of the preferred DNS server.

The screenshot shows the D-Link DIR-506L Router configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar shows a menu with INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS (selected), and STORAGE. The main content area is titled 'NETWORK SETTING' and contains the following sections:

- NETWORK SETTING:** A text box explaining that this section is used to configure internal network settings and the built-in DHCP server. It includes a note that this section is optional and a 'Reboot' button.
- DEVICE NAME:** A text box labeled 'Device Name' with the value 'http:// dlinkrouter .local'.
- ROUTER SETTINGS:** A section for configuring the router's internal network settings. It includes fields for 'Router IP Address' (192.168.0.1), 'Default Subnet Mask' (255.255.255.0), and 'Local Domain Name'.
- DHCP SERVER SETTINGS:** A section for configuring the built-in DHCP server. It includes a checkbox for 'Enable DHCP Server' (checked), a 'DHCP IP Address Range' (50 to 199), a 'DHCP Lease Time' (86400 seconds), and fields for 'Primary DNS IP Address', 'Secondary DNS IP Address', 'Primary WINS IP Address', and 'Secondary WINS IP Address'.

A 'Helpful Hints...' sidebar on the right provides additional information about DHCP settings.

Secondary DNS IP Address Enter the IP address of the backup DNS server, if any.

Primary WINS IP Address Enter the IP address of the preferred WINS server.

Secondary WINS IP Address Enter the IP address of the backup WINS server, if any.

DEVICE NAME
Device Name : http:// <input type="text" value="dlinkrouter"/> .local.

ROUTER SETTINGS
Use this section to configure the internal network settings of your router. The IP address that is configured here is the IP address that you use to access the Web-based management interface. If you change the IP address here, you may need to adjust your PC's network settings to access the network again.
Router IP Address : <input type="text" value="192.168.0.1"/>
Default Subnet Mask : <input type="text" value="255.255.255.0"/>
Local Domain Name : <input type="text"/>

DHCP SERVER SETTINGS
Use this section to configure the built-in DHCP server to assign IP address to the computers on your network.
Enable DHCP Server : <input checked="" type="checkbox"/>
DHCP IP Address Range : <input type="text" value="50"/> to <input type="text" value="199"/> (addresses within the LAN subnet)
DHCP Lease Time : <input type="text" value="86400"/> (Seconds)
Primary DNS IP Address : <input type="text"/>
Secondary DNS IP Address : <input type="text"/>
Primary WINS IP Address : <input type="text"/>
Secondary WINS IP Address : <input type="text"/>

Storage

This page will allow you to access files from a USB external hard drive or flash drive that is plugged into the DIR-506L from your local network or the Internet using either a web browser or the SharePort Mobile app on a smartphone or tablet. You can create users to customize access rights to the files stored on the USB drive. After making changes, click the **Save Settings** button.

Enable Shareport Web Access: Tick this checkbox to enable sharing files stored on a USB storage drive connected to the DIR-506L.

HTTP Access Port: Enter a port to use for HTTP web access to your files (8181 is the default). You will have to add this port to the IP address of the DIR-506L when connecting.
For example: `http://192.168.0.1` or `http://dlinkrouter.local.:8181`

Allow Remote Access: Check to enable remote access to your router's storage.

User Name: To create a new user, enter a user name. To edit an existing user, use the dropdown box to the right.

Password/Verify Password: Enter a password you want to use for the account, re-enter the password in the **Verify Password** text box, then click **Add/Edit** to save your changes.

User List: This section shows existing user accounts. There are **admin** and **guest** accounts by default.

Number of Devices: This section shows you information about the USB storage device plugged into the router.

SharePort Web Access Link This will give you a direct link to the web access interface that you can click on or copy and paste.

The screenshot shows the D-Link DIR-506L Router web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar shows a menu with INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, and STORAGE (which is currently selected). The main content area is titled 'STORAGE' and contains the following sections:

- STORAGE:** A text box explaining that Share Port Web Access allows access to files on a USB storage drive. It includes a checkbox for 'Enable SharePort Web Access' (checked), an 'HTTP Access Port' field (8181), and an 'Allow Remote Access' checkbox (unchecked). Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- SHAREPORT WEB ACCESS:** A section with the same settings as above.
- 10 -- USER CREATION:** A form for creating or editing users. It includes fields for 'User Name', 'Password', and 'Verify Password', along with a dropdown menu for 'User Name' and 'Add/Edit' and 'Delete' buttons.
- USER LIST:** A table showing existing users. It has columns for 'No.', 'User Name', 'Access Path', 'Permission', and a 'Modify/Delete' column. The table lists two users: 'admin' with access path '/' and 'Read/Write' permission, and 'guest' with access path 'None' and 'Read Only' permission.
- NUMBER OF DEVICES: 1:** A table showing the status of the USB storage device. It has columns for 'Device', 'Total Space', and 'Free Space'. The device 'usb_a1' has a total space of 4.0GB and free space of 1.3GB.
- SHAREPORT WEB ACCESS LINK:** A section providing a direct link to the web access interface: <http://192.168.0.1:8181>.

The bottom of the interface shows a 'WIRELESS' tab in the sidebar.

Advanced Virtual Server

This will allow you to open a single port. If you would like to open a range of ports, refer to “Application Rules” on page 47. After making your changes, click the **Save Settings** button.

Well-known Services: This contains a list of pre-defined services. You can select a service, select a rule ID, then click the **Copy to** button to copy the default settings for that service to the specified rule ID.

ID: Specifies which rule to copy the selected Well known service settings to when you click the **Copy to** button.

Use schedule rule: Select a schedule to use and copy to the specified rule ID when you click the **Copy to** button. You may select **Always On** or use a specific schedule that you have defined. To create and edit schedules, please refer to “Schedules” on page 64.

ID: This identifies the rule.

Service Ports: Enter the external ports you want to open for the service.

Server IP: Port: Enter the IP address and ports of the computer on your local network that you want to allow the incoming service through.

Enable: Tick the checkbox to enable the specified rule.

Schedule Rule #: Specify the schedule rule number to use, or click **Add New Rule...** to create a new schedule. To create schedules, please refer to “Schedules” on page 64.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

VIRTUAL SERVER

The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Don't Save Settings

Well known services -- select one -- Copy to ID --

Use schedule rule ---ALWAYS ON---

VIRTUAL SERVERS LIST

ID	Service Ports	Server IP : Port	Enable	Schedule Rule#
1			<input type="checkbox"/>	Add New Rule...
2			<input type="checkbox"/>	Add New Rule...
3			<input type="checkbox"/>	Add New Rule...
4			<input type="checkbox"/>	Add New Rule...
5			<input type="checkbox"/>	Add New Rule...
6			<input type="checkbox"/>	Add New Rule...
7			<input type="checkbox"/>	Add New Rule...
8			<input type="checkbox"/>	Add New Rule...
9			<input type="checkbox"/>	Add New Rule...
10			<input type="checkbox"/>	Add New Rule...
11			<input type="checkbox"/>	Add New Rule...
12			<input type="checkbox"/>	Add New Rule...
13			<input type="checkbox"/>	Add New Rule...
14			<input type="checkbox"/>	Add New Rule...
15			<input type="checkbox"/>	Add New Rule...
16			<input type="checkbox"/>	Add New Rule...
17			<input type="checkbox"/>	Add New Rule...
18			<input type="checkbox"/>	Add New Rule...
19			<input type="checkbox"/>	Add New Rule...
20			<input type="checkbox"/>	Add New Rule...

Internet Offline

Reboot

Helpful Hints...

- You can select your computer from the list of DHCP clients in the Computer Name drop down menu, or enter the IP address manually of the computer you would like to open the specified port to.
- This feature allows you to open a range of ports to a computer on your network. To do so, enter the first port in the range you would like to open on the router in the first box under Public Port and last port of the range in the second one. After that you enter the first port in the range that the internal server uses in the first box under Private Port and the last port of the range in the second.
- To open a single port using this feature, simply enter the same number in both boxes.

[More...](#)

Application Rules

Some applications may require multiple connections, such as Internet gaming, video conferencing, and VoIP calls over the Internet. These applications may have difficulty working through NAT (Network Address Translation). Application Rules allow some of these applications work with the DIR-506L. If you need to run applications that require multiple connections, specify the port normally associated with the application in the **Trigger Port** setting and the ports associated with the trigger port to open them for inbound traffic. After making your changes, click the **Save Settings** button.

Popular applications: Enter a name for the rule or select an application from the drop-down menu and click << to automatically fill in the rule with the default settings for that application.

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

Incoming Ports: Enter the ports you want to allow incoming traffic when the trigger port is activated.

Enable: Check to enable this rule or leave unchecked to ignore it.

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DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

VIRTUAL SERVER
APPLICATION RULES
MAC ADDRESS FILTER
URL FILTER
OUTBOUND FILTER
INBOUND FILTER
SNMP
ROUTING
ADVANCED WIRELESS
ADVANCED NETWORK

APPLICATION RULES

This option is used to open single or multiple ports on your router when the router senses data sent to the Internet on a 'trigger' port or port range. Special Applications rules apply to all computers on your internal network.

Save Settings Don't Save Settings

Popular applications -- select one -- Copy to ID --

APPLICATION RULES

ID	Trigger	Incoming Ports	Enable
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>
10			<input type="checkbox"/>
11			<input type="checkbox"/>
12			<input type="checkbox"/>

Internet Offline
Reboot

Helpful Hints...

- Check the **Application Name** drop down menu for a list of pre-defined applications that you can select from. If you select one of the pre-defined applications, click the arrow button next to the drop down menu to fill out the appropriate fields.

More...

MAC Address Filter

Use MAC (Media Access Control) Filters to control access to your network based on the MAC addresses of connected clients. You can set MAC address filtering to only allow the listed MAC addresses to connect, or block access to all listed MAC addresses. After making your changes, click the **Save Settings** button.

MAC Address Control: Click **Enable** to allow MAC filtering.

Connection Control: When this option is selected, only PCs and devices with MAC addresses listed below with the 'C' option checked can connect to the router. The drop-down menu will allow you to choose whether all other MAC addresses that are not in the list will be blocked or allowed to connect.

Association Control: When this option is selected, only PCs and devices with MAC addresses listed below with the 'A' option checked can associate themselves with the wireless LAN. The drop-down menu will allow you to choose whether all other MAC addresses that are not in the list will be blocked or allowed to associate.

MAC Address: Enter the MAC addresses you would like to filter and then select whether you want them group with the 'C' (Connection Control) group, the 'A' (Association Control) group, or both. If the control groups are not enabled, these designations will be ignored.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

VIRTUAL SERVER
APPLICATION RULES
MAC ADDRESS FILTER
URL FILTER
OUTBOUND FILTER
INBOUND FILTER
SNMP
ROUTING
ADVANCED WIRELESS
ADVANCED NETWORK

Internet Offline
Reboot

MAC ADDRESS FILTER

The MAC (Media Access Controller) Address filter option is used to control network access based on the MAC Address of the network adapter. A MAC address is a unique ID assigned by the manufacturer of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access.

Save Settings Don't Save Settings

MAC FILTERING SETTINGS

MAC Address Control : ☐ Enable

☐ Connection control Wireless and wired clients with C checked can connect to this device; and allow unspecified MAC addresses to connect.

☐ Association control Wireless clients with A checked can associate to the wireless LAN; and allow unspecified MAC addresses to associate.

DHCP clients -- select one -- Copy to ID --

MAC FILTERING RULES

ID	MAC Address	C	A
1		<input type="checkbox"/>	<input type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>

Previous page Next page

Helpful Hints..

- MAC Address Control:** Allows you to assign different access right for different users and to assign a specific IP address to a certain MAC address.
- Connection control:** Connection control allows you to allow or deny the wired and wireless clients to connect to this device and the Internet. Check Connection control to enable the controlling.
- Association control:** The Association process is the exchange of information between wireless clients and this device to establish a link between them. A wireless client is capable of transmitting and receiving data to

URL Filters

Website Filters are used to allow you to set up a list of websites to either allow or block access to. After making your changes, click the **Save Settings** button.

URL Filtering: Check the **Enable** box to allow website filter rules.

URL Filtering Rules: Enter the websites you want to block or allow in the text boxes. Any website address that contains the text entered will be blocked once you click **Enable** and then save your settings..

The screenshot shows the D-Link DIR-506L Router web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options: VIRTUAL SERVER, APPLICATION RULES, MAC ADDRESS FILTER, URL FILTER (selected), OUTBOUND FILTER, INBOUND FILTER, SNMP, ROUTING, ADVANCED WIRELESS, and ADVANCED NETWORK. The main content area is titled 'URL FILTER' and contains the following sections:

- URL FILTER**: A message stating 'URL Blocking will block LAN computers to connect to pre-defined Websites.' with 'Save Settings' and 'Don't Save Settings' buttons.
- URL FILTERING SETTING**: A section with 'URL Filtering : ☐ Enable'.
- URL FILTERING RULES**: A table with 5 rows and 3 columns: ID, URL, and Enable.

The 'URL FILTERING RULES' table is as follows:

ID	URL	Enable
1	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="checkbox"/>

On the right side of the interface, there is a 'Helpful Hints..' section with a bullet point: '• Create a list of Web Sites to which you would like to deny or allow through the network.' and a 'More...' link.

Outbound Filters

The Outbound Filter option is an advanced method of controlling data sent from the DIR-506L. With this feature you can configure outbound data filtering rules that control data based on an IP address range. Outbound Filters can be used on outbound packets.

Outbound Filter: Check the **Enable** box to allow outbound filtering rules.

Use schedule rule: Select from the drop-down menu how you want the rule to be scheduled and apply this schedule to existing rules.

Outbound Filter Rules List: This section will list any rules that are created. You may click the **Edit** icon to change the settings or enable/disable the rule, or click the **Delete** icon to remove the rule.

Allow/Deny all to pass: Here you decide whether to use the outbound filters to allow or deny passage of addresses and ports that match the filter rules you set.

Source IP and Ports: Enter the source IP address and port. Enter 0.0.0.0 if you do not want to specify an IP range.

Destination IP and Ports: Enter the destination IP address and port. Enter 0.0.0.0 if you do not want to specify an IP range.

Enable: Check this box to enable the rule you are creating.

Add New Rule: Specify the schedule rule number to use, or click **Add New Rule...** to create a new schedule. To create schedules, please refer to "Schedules" on page 64.

The screenshot shows the D-Link DIR-506L Router configuration interface. The left sidebar lists various configuration options: VIRTUAL SERVER, APPLICATION RULES, MAC ADDRESS FILTER, URL FILTER, OUTBOUND FILTER (selected), INBOUND FILTER, SNMP, ROUTING, ADVANCED WIRELESS, and ADVANCED NETWORK. The main content area is titled 'OUTBOUND FILTER' and includes a description: 'Packet Filter enables you to control what packets are allowed to pass the router. Outbound filter applies on all outbound packets.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. The 'OUTBOUND FILTER SETTING' section shows 'Outbound Filter' checked (Enable) and 'Use schedule rule' set to 'ALWAYS ON'. The 'OUTBOUND FILTER RULES LIST' section has two radio buttons: 'Allow all to pass except those match the following rules.' (selected) and 'Deny all to pass except those match the following rules.' Below is a table with 8 rows, each with columns for ID, Source IP:Ports, Destination IP:Ports, Enable, and Schedule Rule#. Each row has an 'Add New Rule...' button. At the bottom are 'Previous page' and 'Next page' buttons. A 'Reboot' button is visible in the sidebar. A 'Helpful Hints...' sidebar on the right explains that the Packet Filter enables control over packets passing through the router and that inbound filters apply to packets destined for virtual servers or DMZ hosts.

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.

Inbound Filter: Check the **Enable** box to allow inbound filtering rules.

Use schedule rule: Select from the drop-down menu how you want the rule to be scheduled and apply this schedule to existing rules.

Inbound Filter Rules List: This section will list any rules that are created. You may click the **Edit** icon to change the settings or enable/disable the rule, or click the **Delete** icon to remove the rule.

Allow/Deny all to pass: Here you decide whether to use the inbound filters to allow or deny passage of addresses and ports that match the filter rules you set.

Source IP and Ports: Enter the source IP address and port. Enter 0.0.0.0 if you do not want to specify an IP range.

Destination IP and Ports: Enter the destination IP address and port. Enter 0.0.0.0 if you do not want to specify an IP range.

Enable: Check this box to enable the rule you are creating.

Schedule Rule #: Specify the schedule rule number to use, or click **Add New Rule...** to create a new schedule. To create schedules, please refer to "Schedules" on page 64.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

INBOUND FILTER

Packet Filter enables you to control what packets are allowed to pass the router. Inbound filter applies on packets that destined to Virtual Servers or DMZ host only.

Save Settings Don't Save Settings

INBOUND FILTER SETTING

Inbound Filter : ☐ Enable

Use schedule rule : ---ALWAYS ON--- Copy to ID --

INBOUND FILTER RULES LIST

☒ Allow all to pass except those match the following rules.
☐ Deny all to pass except those match the following rules.

ID	Source IP:Ports	Destination IP:Ports	Enable	Schedule Rule#
1	:	:	<input type="checkbox"/>	Add New Rule...
2	:	:	<input type="checkbox"/>	Add New Rule...
3	:	:	<input type="checkbox"/>	Add New Rule...
4	:	:	<input type="checkbox"/>	Add New Rule...
5	:	:	<input type="checkbox"/>	Add New Rule...
6	:	:	<input type="checkbox"/>	Add New Rule...
7	:	:	<input type="checkbox"/>	Add New Rule...
8	:	:	<input type="checkbox"/>	Add New Rule...

Previous page Next page

Helpful Hints...

- Packet Filter enables you to control what packets are allowed to pass the router. Outbound filter applies on all outbound packets. However, Inbound filter applies on packets that destined to Virtual Servers or DMZ host only. You can select one of the two filtering policies:

More...

Internet Offline

Reboot

SNMP

The Simple Network Management Protocol is an application layer protocol to remotely manage network devices so you can find and solve network problems with ease. After making your changes, click the **Save Settings** button.

SNMP Local: Enable this option to allow local SNMP management.

SNMP Remote: Enable this option to allow remote SNMP management.

Get Community: Enter a name for the read community of your SNMP server.

Set Community: Enter a name for the write community of your SNMP server.

IP 1: Set the first IP address to be managed here.

IP 2: Set a second IP address to be managed here.

IP 3: Set a third IP address to be managed here.

IP 4: Set a fourth IP address to be managed here.

SNMP Version: Choose the version of SNMP to be used by your server.

WAN Access IP Address: Enter the IP address used for WAN access here.

The screenshot shows the D-Link DIR-506L Router configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration categories: VIRTUAL SERVER, APPLICATION RULES, MAC ADDRESS FILTER, URL FILTER, OUTBOUND FILTER, INBOUND FILTER, SNMP (selected), ROUTING, ADVANCED WIRELESS, and ADVANCED NETWORK. Below the sidebar, there is a status section showing 'Internet Offline' and a 'Reboot' button. The main content area is titled 'SNMP' and contains the following settings:

- SNMP Local:** Radio buttons for Enabled and Disabled (Disabled is selected).
- SNMP Remote:** Radio buttons for Enabled and Disabled (Disabled is selected).
- Get Community:** A text input field.
- Set Community:** A text input field.
- IP 1:** A text input field.
- IP 2:** A text input field.
- IP 3:** A text input field.
- IP 4:** A text input field.
- SNMP Version:** Radio buttons for V1 and V2c (V1 is selected).
- WAN Access IP Address:** A text input field.

At the top of the main content area, there is a summary box stating 'Use Simple Network Management Protocol(SNMP) for management purposes.' with 'Save Settings' and 'Don't Save Settings' buttons. On the right side, there is a 'Helpful Hints...' section with a bullet point explaining the capability to remotely manage a computer network by polling and setting terminal values and monitoring network events, followed by a 'More...' link.

Routing

The Routing option is an advanced method of customizing specific routes of data through your network. After making your changes, click the **Save Settings** button.

RIP: Select **Enable** to turn on routing and auto-select the RIP version, or select **RIPv1** or **RIPv2**.

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

Subnet Mask: 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.

Hop: Enter a number to represent the hop value of this route.

Enable: Check to enable this route or leave unchecked to ignore it.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

ROUTING

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

Save Settings Don't Save Settings

RIP SETTING

RIP : ☒ Enable ☐ RIPv1 ☐ RIPv2

ROUTING RULES

ID	Destination	Subnet Mask	Gateway	Hop	Enable
1					<input type="checkbox"/>
2					<input type="checkbox"/>
3					<input type="checkbox"/>
4					<input type="checkbox"/>
5					<input type="checkbox"/>
6					<input type="checkbox"/>
7					<input type="checkbox"/>
8					<input type="checkbox"/>

Helpful Hints..

- Each route has a check box next to it; check this box if you want the route to be enabled.
- The destination IP address is the address of the host or network you wish to reach.
- The netmask field identifies the portion of the destination IP in use.
- The gateway IP address is the IP address of the router, if any, used to reach the specified destination.

[More...](#)

Advanced Wireless

This screen allows you to set various advanced wireless settings of your DIR-506L. Unless you are experiencing specific problems, it is recommended that you leave these settings at their default values. After making your changes, click the **Save Settings** button.

Beacon Interval This value determines the frequency in which packets broadcast by the router will synchronize the wireless network. Choose a value here.

Transmit Power: Use the dropdown box to set the transmit power of the antennas.

RTS Threshold: Enter the size of each Request to Send frame.

Fragmentation: Enter a value of the maximum size for a packet before the data is fragmented into multiple packets.

DTIM Interval: Set your Delivery Traffic Indication Message rate here.

WMM Capable: WMM is Quality of Service(QoS) for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

TX Rates: Select the TX data rate you would like to use from the drop-down menu.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

GUEST ZONE

Use this section to configure the guest zone settings of your router. The guest zone provide a separate network zone for guest to access Internet.

Save Settings Don't Save Settings

ADVANCED WIRELESS SETTINGS

Beacon Interval : 100 (msec, range:1~1000, default: 100)

Transmit Power : 100%

RTS Threshold : 2347 (1~2347, default: 2347)

Fragmentation : 2346 (256~2346, default: 2346, even number only)

DTIM Interval : 1 (range: 1~255, default: 3)

WMM Capable ☒ Enable ☐ Disable

TX Rates : Best

Internet Offline

Reboot

Helpful Hints..

- Use this section to configure the guest zone settings of your router. The guest zone provide a separate network zone for guest to access Internet.

More...

Advanced Network

This screen allows you to set various advanced network settings of your DIR-506L. Unless you are experiencing specific problems, it is recommended that you leave these settings at their default values. After making your changes, click the **Save Settings** button.

Enable UPnP: To use the Universal Plug and Play (UPnP™) feature click on **Enabled**. UPnP provides compatibility with networking equipment, software and peripherals.

Enable WAN Ping Respond: Checking the box will allow the DIR-506L to respond to pings. Unchecking the box may provide some extra security from hackers.

Enable Power Saving in Battery Mode: Checking this box will allow the router to minimize the power usage when disconnected from a power source and using the battery, while still providing the necessary power for normal operations.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

VIRTUAL SERVER

APPLICATION RULES

MAC ADDRESS FILTER

URL FILTER

OUTBOUND FILTER

INBOUND FILTER

SNMP

ROUTING

ADVANCED WIRELESS

ADVANCED NETWORK

ADVANCED WIRELESS

If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.

Save Settings Don't Save Settings

UPNP

Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.

Enable UPnP : ☒

WAN PING

If you enable this feature, the WAN port of your router will respond to ping requests from the Internet that are sent to the WAN IP Address.

Enable WAN Ping Respond : ☒

POWER SAVING

Enable this option to activate power saving policy when power is supplied by battery.

Enable Power Saving in Battery Mode : ☒

Internet Offline

Reboot

Helpful Hints...

• It is recommended that you leave these parameters at their default values. Adjusting them could limit the performance of your wireless network. Use 802.11d only for countries where it is required.

More...

Tools

Administrator Settings

This page will allow you to change the password for the administrator account for configuring the settings of the DIR-506L. You can also turn on remote management. After making your changes, click the **Save Settings** button.

New Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

Confirm Password: Enter the same password that you entered in the previous textbox in order to confirm its accuracy.

Enable Remote Management: Remote management allows the DIR-506L to be configured over the Internet through a web browser. A username/password is still required to access the configuration interface.

IP Allowed to Access: This is the IP that will be used to access the DIR-506L configuration interface when using remote management.

Port: This is the port number to be used for remote management.

D-Link

DIR-506L // Router

SETUP ADVANCED **TOOLS** STATUS SUPPORT

ADMINISTRATOR SETTINGS

To help secure your network, we recommend that you should choose a new password.

Save Settings Don't Save Settings

ADMINISTRATOR (THE DEFAULT LOGIN NAME IS "admin")

New Password :

Confirm Password :

REMOTE MANAGEMENT

Enable Remote Management : ☒ Enabled

IP Allowed to Access :

Port :

Reboot

Helpful Hints..

- For security reasons, it is recommended that you change the password for the Admin and User accounts. Be sure to write down the new and passwords to avoid having to reset the router in case they are forgotten.
- Enabling Remote Management, allows you or others to change the router configuration from a computer on the Internet.
- Choose a port to open for remote management.

[More...](#)

Time and Date

The Time page 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. Daylight Saving can also be configured to automatically adjust the time when needed. After making your changes, click the **Save Settings** button.

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

Enable Daylight Saving: To select Daylight Saving time manually, click the **Enable Daylight Saving: Daylight Saving** check box. Next use the drop-down menu to select a **Daylight Saving Offset** and then enter a start date and an end date for daylight saving time.

Automatically Synchronize with Internet Time Server: NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Enter the NTP server or select one from the drop-down menu.

The screenshot shows the D-Link DIR-506L Router web interface. The top navigation bar includes links for ADMIN, SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled "TIME AND DATE" and contains the following sections:

- TIME AND DATE:** A brief description of the Time and Date Configuration option, followed by "Save Settings" and "Don't Save Settings" buttons.
- TIME AND DATE CONFIGURATION:** Displays the current time as "Fri Jan 01, 2010 08:03:13". The "Time Zone" is set to "(GMT +08:00) Beijing, Hong Kong, Taipei". The "Enable Daylight Saving" checkbox is unchecked.
- AUTOMATIC TIME AND DATE CONFIGURATION:** The checkbox "Automatically synchronize with Internet time server" is checked. The "NTP Server Used" is set to "time-nw.nist.gov". There is an "Update Now" button.
- SYNC. RESULT:** A large empty box for displaying synchronization results.

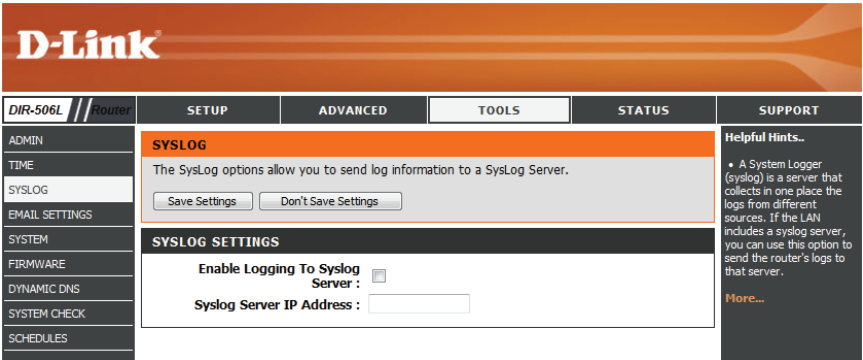
On the right side of the interface, there is a "Helpful Hints..." section with a tip about timekeeping and a "More..." link.

SysLog

The Broadband Router 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 SysLog Server: Check this box to send the router logs to a SysLog Server.

SysLog Server IP Address: The address of the SysLog server that will be 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 Notification: When this option is enabled, router activity logs are emailed to a designated email address.

SMTP Server IP and Port: Enter the SMTP server address and SMTP port used for sending email.

SMTP Username: Enter your account username for sending email.

SMTP Password: Enter the password associated with the account.

Send E-mail alert to: Enter the email address(es) where you would like your email alerts delivered.

E-mail Subject: Enter a subject line for the alert emails.

The screenshot shows the D-Link DIR-506L Router Web Interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS (highlighted), SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. At the bottom of the sidebar, there is a status indicator for 'Internet Offline' and a 'Reboot' button.

The main content area is titled 'EMAIL SETTINGS' and contains the following options:

- Enable Email Notification:** A checkbox that is currently unchecked.
- SMTP Server IP and Port:** A text input field followed by a colon and another text input field.
- SMTP Username:** A text input field.
- SMTP Password:** A text input field.
- Send E-mail alert to:** A text input field with a dropdown arrow on the right.
- E-mail Subject:** A text input field.

Below the input fields, there are two buttons: 'Save Settings' and 'Don't Save Settings' (located above the input fields), and 'Email Log Now' (located below the 'E-mail Subject' field). On the right side of the interface, there is a 'Helpful Hints..' section with a link to 'More...'. The hint text reads: '• You may want to make the email settings similar to those of your email client program.'

System Settings

This page allows you to save and restore your configuration, and reset the DIR-506L to the factory default settings.

Save Settings To Local Hard Drive: Clicking the **Save** button will allow you to save the current repeater configuration settings to a file on the hard disk of the computer you are using. You will then see a file dialog where you can select a location and file name for the settings.

Load Settings From Local Hard Drive: Use this option to load previously saved configuration settings. Click **Browse** to find a previously saved configuration file. Then, click the **Upload Settings** button to transfer those settings to the DIR-506L.

Restore to Factory Default Settings: This option will restore all configuration settings back to the factory default settings. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save your current configuration settings, use the **Save** button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

ADMIN
TIME
SYSLOG
EMAIL SETTINGS
SYSTEM
FIRMWARE
DYNAMIC DNS
SYSTEM CHECK
SCHEDULES

Internet Offline
Reboot

SYSTEM SETTINGS

The System Settings section allows you to 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 have created.

The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file created by device can be uploaded into the unit.

SAVE AND RESTORE SETTINGS

Save Settings To Local Hard Drive :

Load Settings From Local Hard Drive :

Restore To Factory Default Settings :

Helpful Hints..

- Once your router is configured the way you want it, you can save the configuration settings to a configuration file.
- You might need this file so that you can load your configuration later in the event that the router's default settings are restored.

[More...](#)

Firmware

You can upgrade the firmware of the DIR-506L here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the upgrade. Please check the D-Link support website for firmware updates at <http://support.dlink.com>. You can download firmware upgrades to your hard drive from this site.

Upload: After you have downloaded the new firmware, click **Choose File** to locate the firmware update on your hard drive. Click **Upgrade** to complete the firmware upgrade. Do not disconnect from the DIR-506L or power your computer or DIR-506L off during the upgrade process.

Accept unofficial firmware: Check this box to apply a firmware file that is not an official release from D-Link. Using this option is not recommended.

The screenshot shows the D-Link DIR-506L Router's web interface for the Firmware Upgrade section. The interface has a dark blue header with the D-Link logo. Below the header is a navigation bar with tabs: SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains a menu with options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE (selected), DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'FIRMWARE UPGRADE' and contains the following sections:

- FIRMWARE UPGRADE**: A message stating 'There may be new firmware for your Router to improve functionality and performance. To upgrade the firmware, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Save Settings below to start the firmware upgrade.'
- FIRMWARE INFORMATION**: Displays 'Current Firmware Version : V2.14(EU)' and 'Current Firmware Date : 2013/03/19'.
- FIRMWARE UPGRADE**: Contains a red note: 'Note! Do not power off the unit when it is being upgraded. The upgrade procedure takes about 180 seconds. When the upgrade is done successfully, the unit will be restarted automatically.' Below the note, it says 'To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button.'

At the bottom of the main content area, there is an 'Upload' section with a text input field, a 'Browse...' button, and 'Upgrade' and 'Cancel' buttons. Below this is a checkbox labeled 'Accept unofficial firmware.' which is currently unchecked. On the right side of the interface, there is a 'Helpful Hints..' section with a bullet point about firmware updates and a 'More...' link.

Dynamic DNS

The DDNS feature allows you to host a server (Web, FTP, Game Server, etc...) behind your 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. After making your changes, click the **Save Settings** button.

Enable DDNS: Tick the checkbox to enable DDNS.

Provider: Select your DDNS service from the drop-down menu.

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

Username / E-mail: Enter the Username or key for your DDNS account.

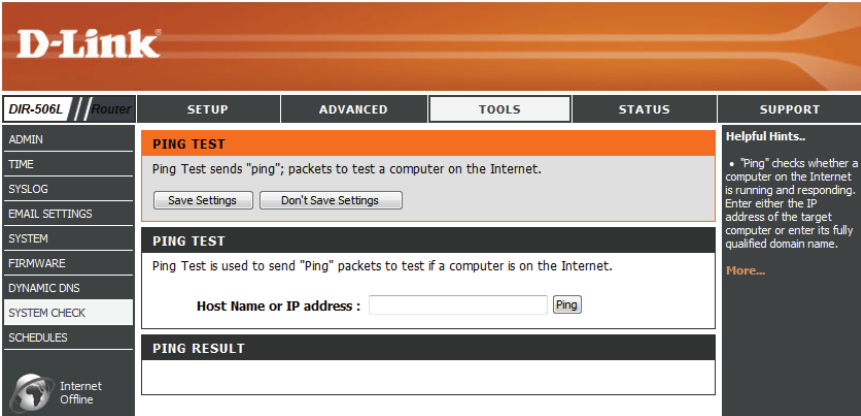
Password / Key: Enter the Password or key for your DDNS account.

The screenshot shows the D-Link DIR-506L Router web interface. The top navigation bar includes 'D-Link', 'DIR-506L // Router', and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various settings: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS (selected), SYSTEM CHECK, and SCHEDULES. The main content area is titled 'DYNAMIC DNS' and contains the following text: 'The Dynamic DNS 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 your host name to connect to your game server no matter what your IP address is.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. Further down, there is a section for configuring DDNS with the following fields: 'Enable DDNS' (checkbox), 'Provider' (dropdown menu showing 'www.DlinkDDNS.com'), 'Host Name', 'Username / E-mail', and 'Password / Key'. On the right side, there is a 'Helpful Hints...' section with a bullet point: 'To use this feature, you must first have a Dynamic DNS account from one of the providers in the drop down menu.' and a 'More...' link. At the bottom left, there is a status indicator 'Internet Offline' and a 'Reboot' button.

System Check

This page allows you to run a ping test to check your Internet connectivity.

Host Name or IP address: The Ping Test is used to send ping packets to test if your is connected to the Internet. Enter the host name or IP address that you wish to ping and click the **Ping** button.



Schedules

You can create schedules for use with some of the features of the DIR-506L, which will allow those features to be active during certain times of the day or week.

Enable Schedule: Allows the DIR-506L to apply schedule rules for the filters you have configured.

After entering the details of your schedule, click the **Save** button to save your changes.

Schedule Rules The list of created schedules will be listed here. Click the **List: Add New Rule...** button to create a schedule rule.

If you click **Add New Rule...**, you will see the following screen:

Name of Rule #: Enter a name for your new schedule.

Policy: Select **Activate** or **Inactivate** to decide whether features that use the schedule should be active or inactive except during the times specified.

Week Day: Select a day of the week for the start time and end time.

Start Time (hh:mm): Enter the time at which you would like the schedule to become active.

End Time (hh:mm): Select the time at which you would like the schedule to become inactive.

After making your changes, click **Save Settings** to save the schedule.

Status

Device Info

This page displays the current information for the DIR-506L. It will display the LAN and wireless LAN information.

General: Displays the time and firmware version.

WAN: Displays information about the connection to your modem or Internet connection.

LAN: Displays the MAC address and the private (local) IP settings for the access point.

Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

LAN Computers: Displays information about the devices on your local network.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO LOG STATISTICS WIRELESS

Internet Offline Reboot

DEVICE INFORMATION

All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.

Refresh

GENERAL

Time : Fri Jan 01, 2010 08:03:31 +0800
Firmware Version : V2.14(EU) , 2013/03/19

WAN

Connection Type : DHCP Client
Network Status : Client Disconnected
Remaining Lease Time : N/A
Renew Release
MAC Address : 90:94:E4:E7:4C:93
IP Address : 0.0.0.0
Subnet Mask : 0.0.0.0
Default Gateway : 0.0.0.0
DNS Server : 0.0.0.0 , 0.0.0.0

LAN

MAC Address : 90:94:E4:E7:4C:94
IP Address : 192.168.0.1
Subnet Mask : 255.255.255.0
DHCP Server : Enabled

WIRELESS LAN

MAC Address : 90:94:E4:E7:4C:94
Wireless : Enabled
SSID : dlink_DIR-506L
Security : Auto(None)
Channel : Auto
802.11 Mode : B/G/N Mixed
Wi-Fi Protected Setup : Enabled

LAN COMPUTERS

IP Address	Name	MAC
192.168.0.121	06955PCWIN7	00-16-41-3C-A7-7A

Helpful Hints...
• All of your LAN, WAN and WIRELESS connection details are displayed here.
More...

Log

The DIR-506L keeps a running log of events and activities occurring on the DIR-506L. If the DIR-506L is rebooted, the logs are automatically cleared.

Log Options: There are several types of logs that can be viewed: **System Activity, Debug Information, Attacks, Dropped Packets** and **Notice**.

Previous: This button directs you to the previous page of the log.

Next: This button directs you to the next page of the log.

First Page: This button directs you to the first page of the log.

Last Page: This button directs you to the last page of the log.

Refresh: This button refreshes the log.

Download: This button opens dialog where you can save the current log to your hard drive.

Clear logs: This button clears all current log content.

D-Link

DIR-506L // Router

SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO
LOG
STATISTICS
WIRELESS

Internet Offline
Reboot

VIEW LOG

View Log displays the activities occurring on the device.

Page: 1/4 (Log Number : 49)

Previous Next First Page Last Page
Refresh Download Clear logs Link To Log Settings

SYSTEM LOG

Time	Message
Jan 1 07:59:57	kernel: klogd started: BusyBox v1.3.2 (2013-01-21 09:46:34 CST)
Jan 1 07:59:59	BEID: BEID STATUS : 0 , STATUS OK!
Jan 1 07:59:59	commander: Ethernet port configuration: Configured as WAN
Jan 1 08:00:01	syslog: Failure parsing line 12 of /etc/udhcpd.conf
Jan 1 08:00:01	syslog: server_config.pool_check = 1
Jan 1 08:00:01	syslog: start = 192.168.0, end = 192.168.0, lan_ip = 192.168.0, interface=br0, ifindex=0
Jan 1 08:00:01	udhcpd[1144]: udhcpd (v0.9.9-pre) started
Jan 1 08:00:11	commander: Init NAT Server ...
Jan 1 08:00:15	syslog: =====
Jan 1 08:00:15	syslog: family_member = 6E21
Jan 1 08:00:16	syslog: ROM_ID = DLK6E2114001
Jan 1 08:00:16	syslog: pv = 1
Jan 1 08:00:16	syslog: cs_offset = 7f0000
Jan 1 08:00:16	syslog: cs_length = e000
Jan 1 08:00:16	syslog: CSID_TEST_FW_STR = 0

Helpful Hints...
• Check the log frequently to detect unauthorized network usage.
More...

Statistics

The DIR-506L keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. Click the **Refresh Statistics** button to update the information, or click the **Clear Statistics** button to reset all statistics. The traffic counter will reset if the DIR-506L is rebooted.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes 'DIR-506L // Router', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar contains 'DEVICE INFO', 'LOG', 'STATISTICS' (highlighted), and 'WIRELESS'. Below 'WIRELESS' is a globe icon labeled 'Internet Offline' and a 'Reboot' button. The main content area is titled 'TRAFFIC STATISTICS' and contains the text 'Traffic Statistics display Receive and Transmit packets passing through the device.' with a 'Refresh' button. Below this is a section titled 'WAN STATISTICS INFORMATION' containing a table with three columns: 'Statistics', 'Inbound', and 'Outbound'. The table lists 'Octects', 'Unicast Packets', and 'Multicast Packets', all with values of 0. On the right, a 'Helpful Hints..' section provides a summary of the statistics and a 'More...' link.

Statistics	Inbound	Outbound
Octects	0	0
Unicast Packets	0	0
Multicast Packets	0	0

Wireless

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

DIR-506L

Router

DEVICE INFO

LOG

STATISTICS

WIRELESS

Internet Offline

Reboot

SETUP

ADVANCED

TOOLS

STATUS

SUPPORT

WIRELESS CLIENT LIST

View the wireless clients that are connected to the router. (A client might linger in the list for a few minutes after an unexpected disconnect.)

Refresh

WIRELESS CLIENT TABLE

ID	MAC Address
----	-------------

Helpful Hints..

- This is a list of all wireless clients that are currently connected to your wireless router.

More...

D-Link DIR-506L User Manual

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Help

This screen gives you more information about the various parts of the configuration interface. Click on a link to learn more about that topic.

DIR-506L

///

SETUP

ADVANCED

TOOLS

STATUS

SUPPORT

MENU

SETUP

ADVANCED

TOOLS

STATUS

SUPPORT MENU

- Setup
- Advanced
- Tools
- Status

SETUP HELP

- Internet
- Wireless Settings
- Network Settings
- Media Server
- Storage

ADVANCED HELP

- VIRTUAL SERVER
- Application Rules
- MAC Address Filter
- URL Filter
- Outbound Filter
- Inbound Filter
- SNMP
- Routing
- Guest Zone
- Advanced Wireless
- Advanced Network

TOOLS HELP

- Admin
- Time
- SysLog
- Email settings
- System
- Firmware
- Dynamic DNS
- System Check
- Schedules

STATUS HELP

- Device Info
- Log
- Statistics
- Wireless

WIRELESS

Connecting a Wireless Client

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-506L 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-506L for about 1 second. The WPS button will start to blink.

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

Step 3 - Allow up to 1 minute to configure. Once the WPS light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 7

WPA/WPA2

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

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



Wireless Icon

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

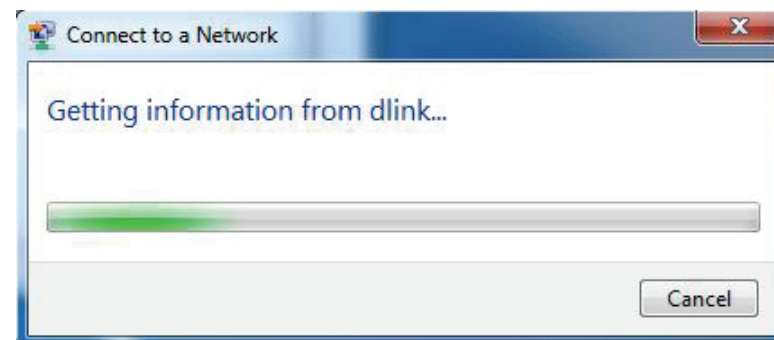


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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

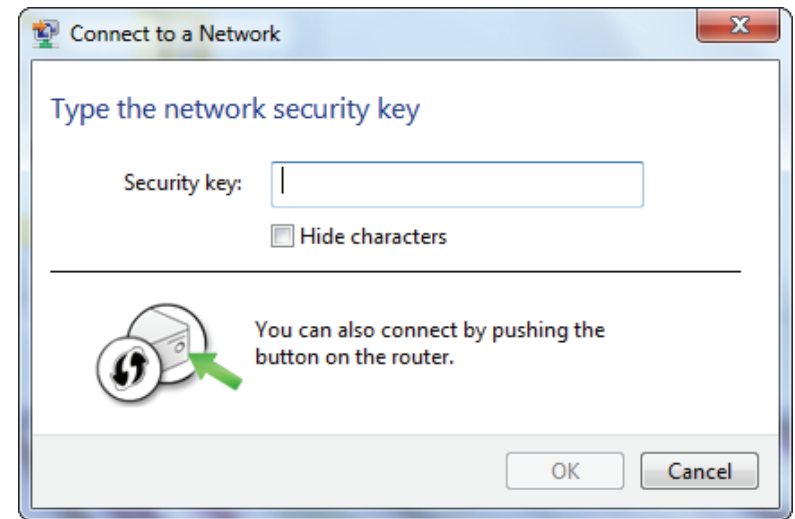


4. The following window appears while your computer tries to connect to the router.



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

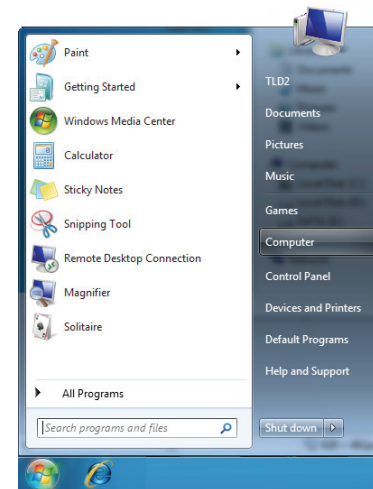
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



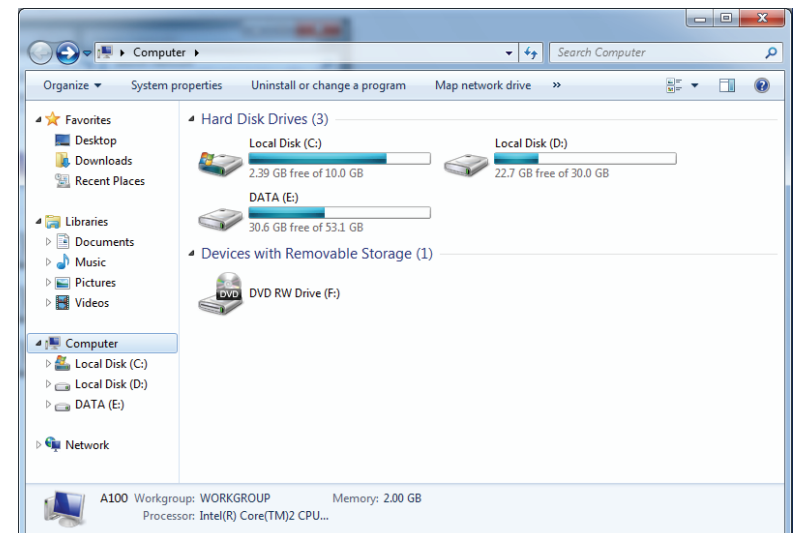
WPS

The WPS feature of the DIR-506L can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

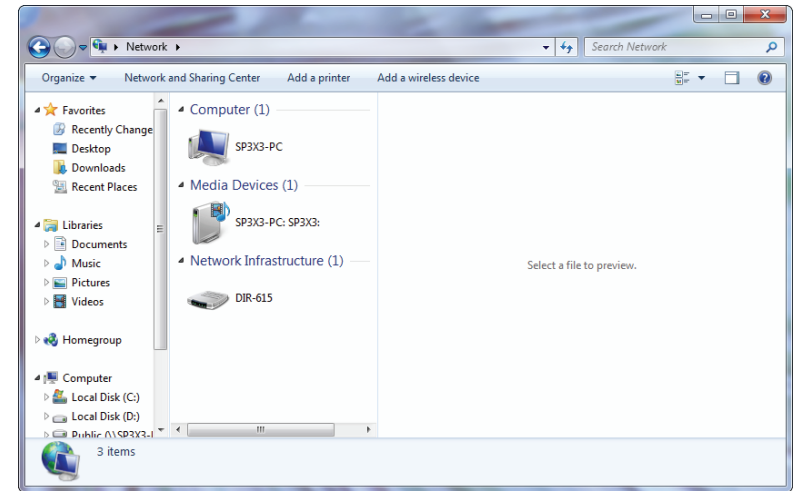
1. Click the **Start** button and select **Computer** from the Start menu.



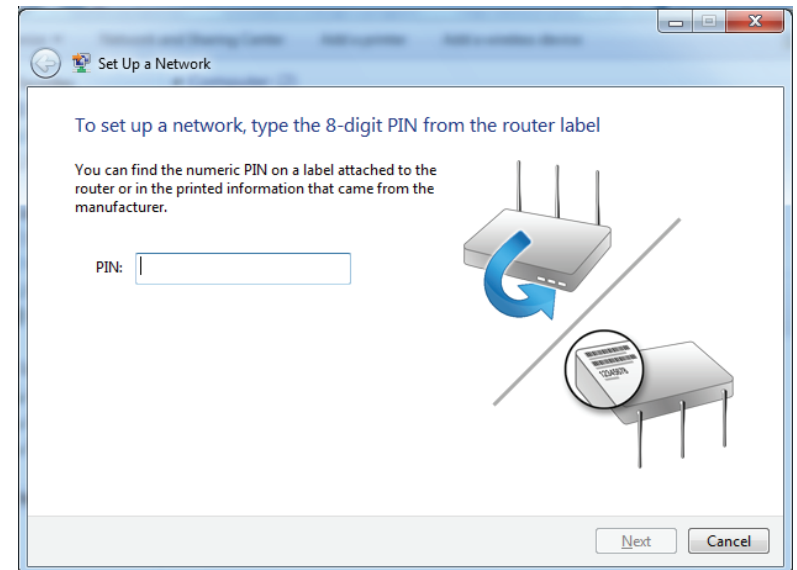
2. Click **Network** on the left side.



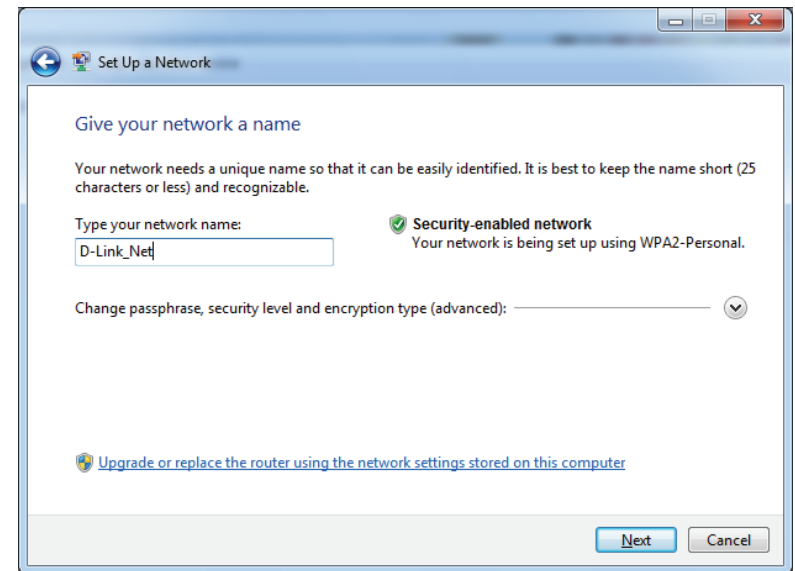
3. Double-click the DIR-506L.



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

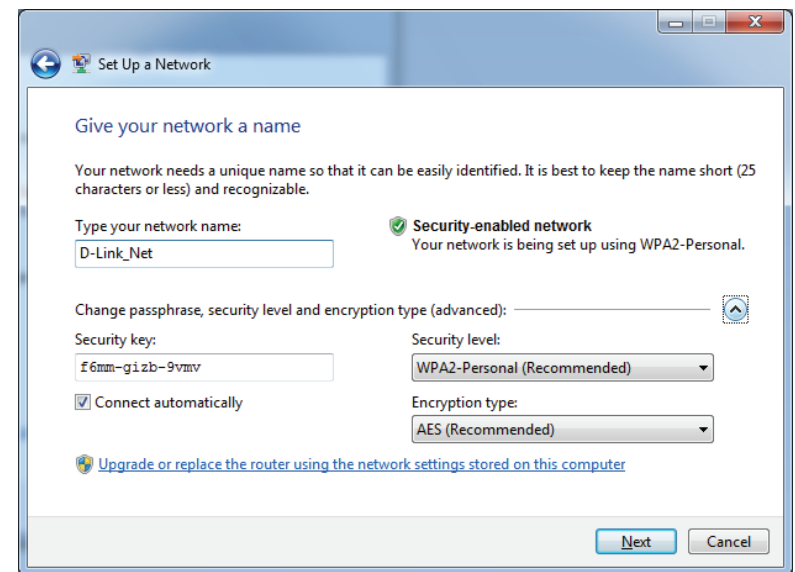


5. Type a name to identify the network.



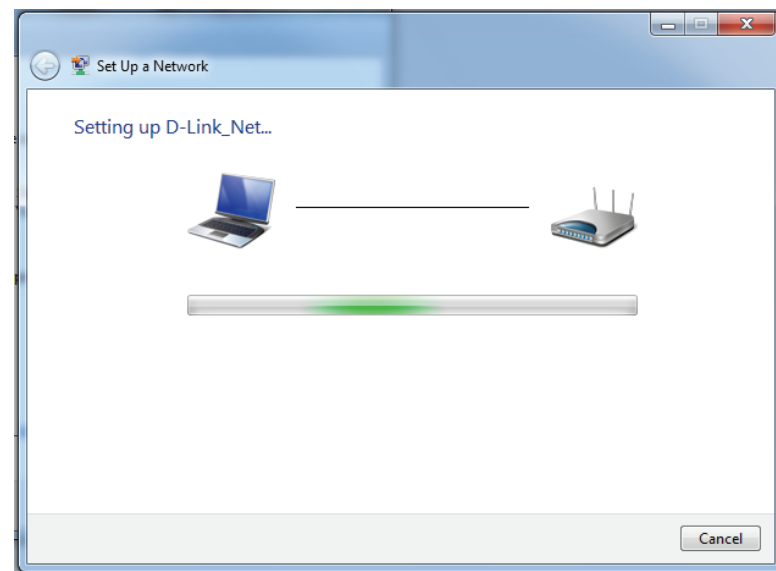
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

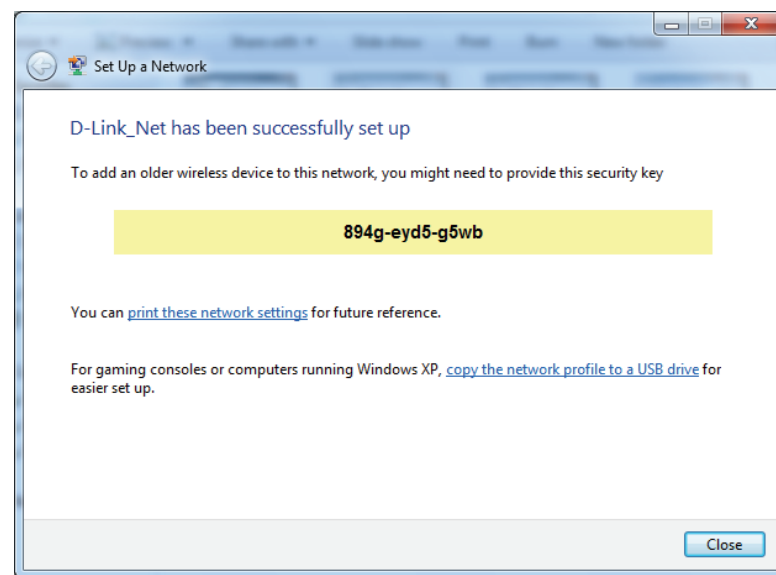
Wait for the configuration to complete.



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

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

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



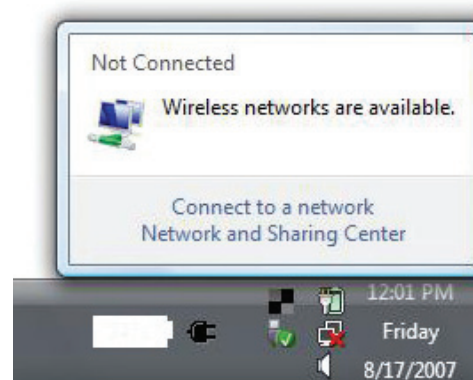
Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's utility or Windows® 2000, 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.

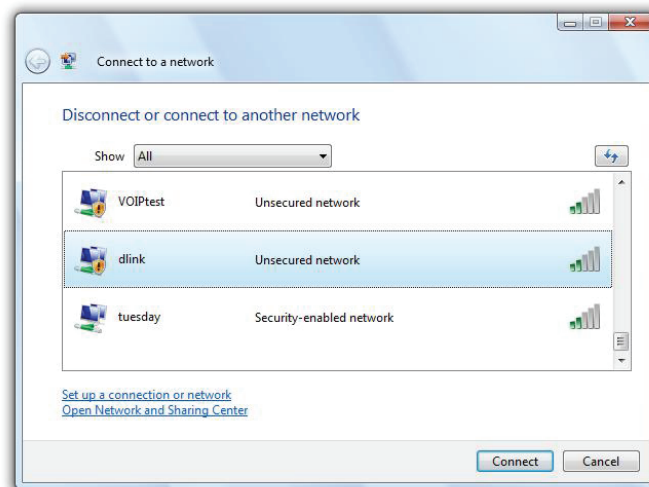
or

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.

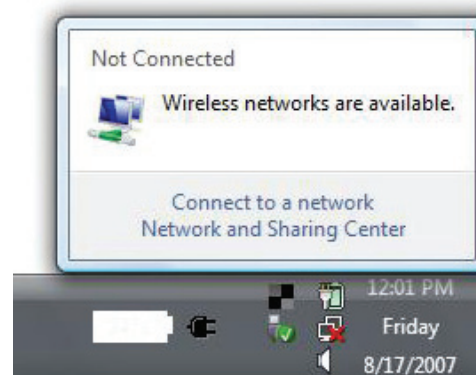
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



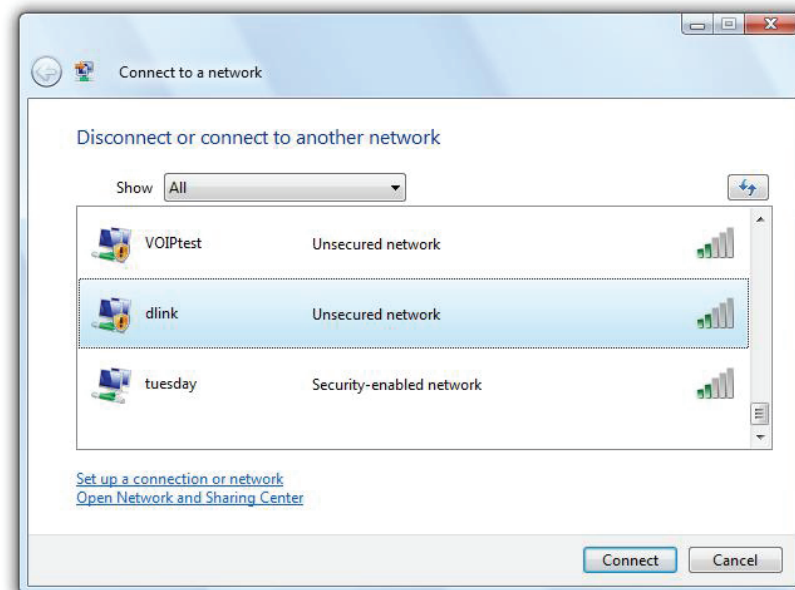
WPA/WPA2

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**.

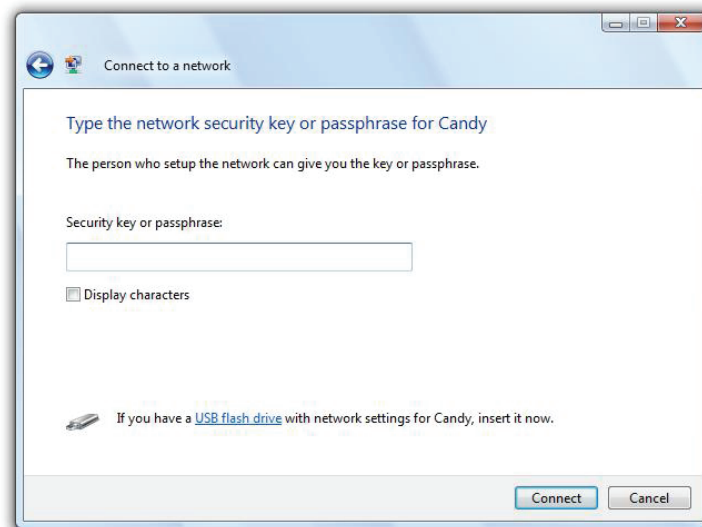


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



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.

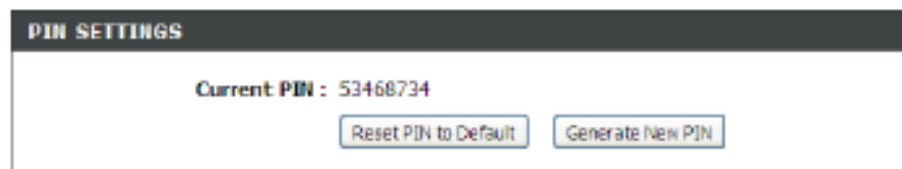


WPS/WCN 2.0

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). The following instructions are for Service Pack 2 users. 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.

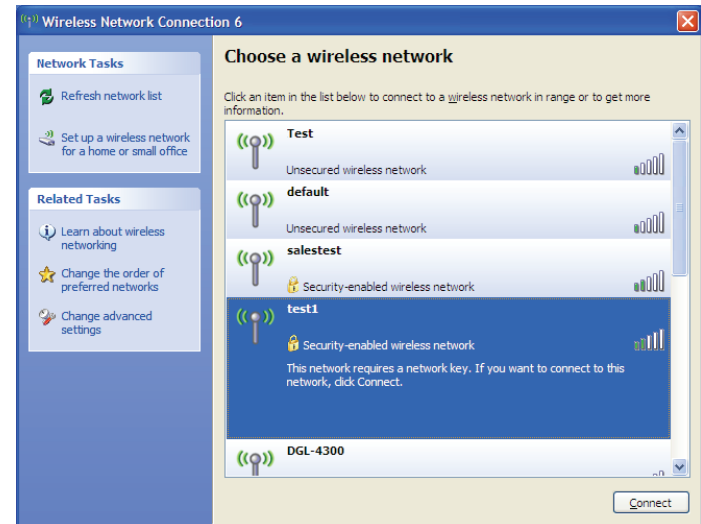
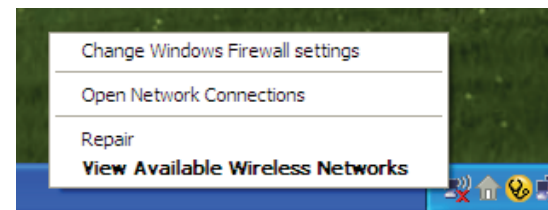
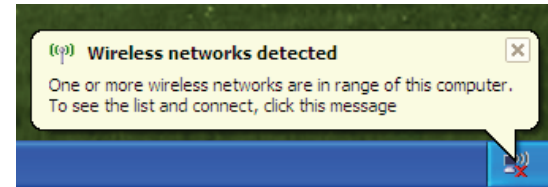
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

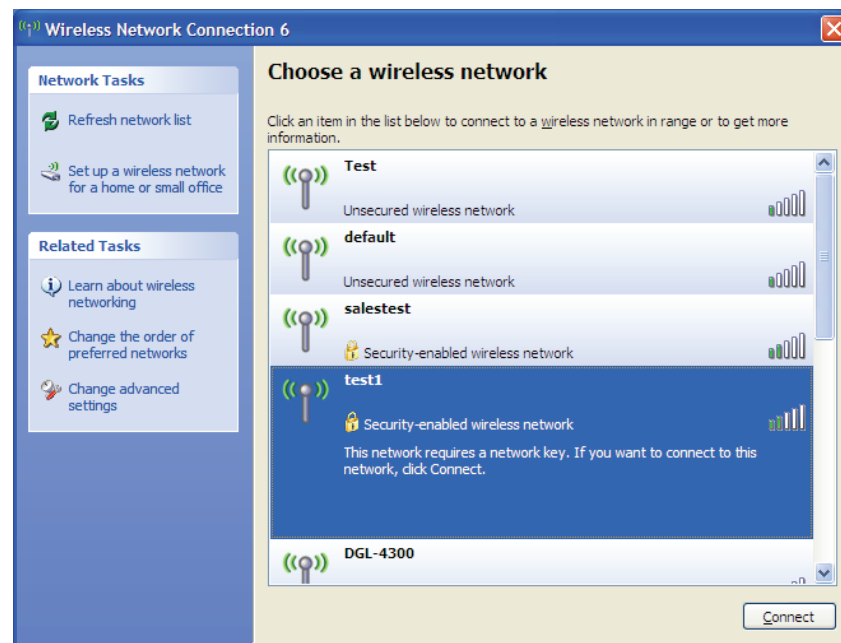
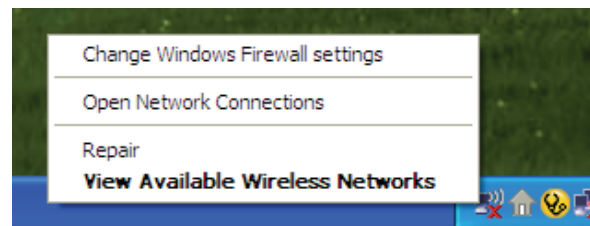
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

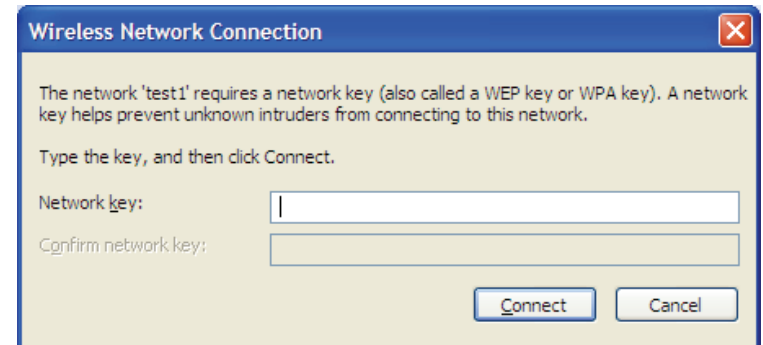
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

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 . 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 (http://192.168.0.1 or http://dlinkrouter.local. 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® 6.0 and higher
 - Mozilla Firefox 3.0 and higher
 - Google™ Chrome 2.0 and higher
 - Apple Safari 3.0 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 rear panel 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. The default IP address is 192.168.0.1 or <http://dlinkrouter.local>. When logging in, the username is **admin** and leave the password box empty.

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

If you are having a problem sending or receiving email, 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**

You should start at 1472 and work your way down by 10 each time.

```
C:\>ping yahoo.com -f -l 1482

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

Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -l 1472

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

Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>
```

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

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

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

- Open your browser, enter the IP address of your router (192.168.0.1 or <http://dlinkrouter.local>.) 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 email. 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 phone 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 as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home

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

Small Office and Home Office

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

Don't let 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.

Networking Basics

Check your IP address

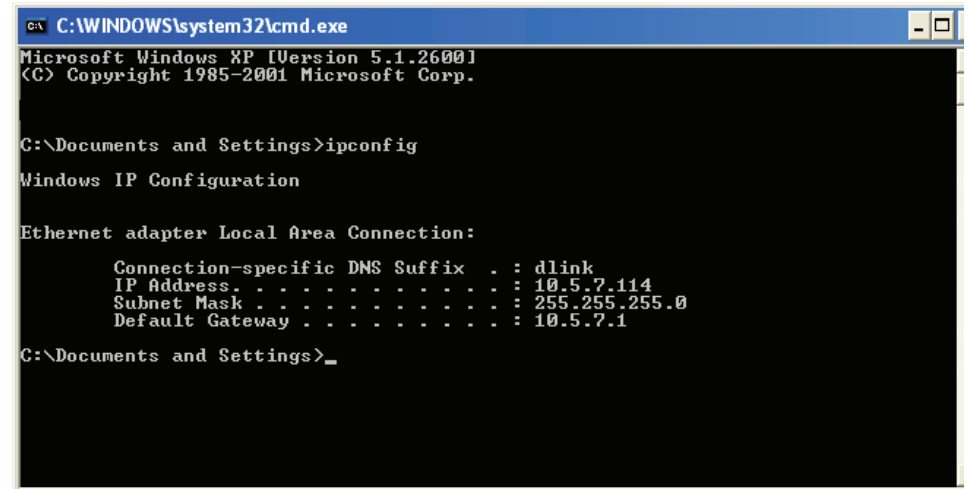
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type **cmd** in the **Start Search** box.)

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.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600.1
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

C:\Documents and Settings>_
```

Assign a Static 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:

Step 1

Windows® 7 - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center**.

Windows Vista® - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections**.

Windows® XP - Click on **Start > Control Panel > Network Connections**.

Windows® 2000 - From the desktop, right-click **My Network Places > Properties**.

Step 2

Right-click on the **Local Area Connection** which represents your network adapter and select **Properties**.

Step 3

Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

Step 4

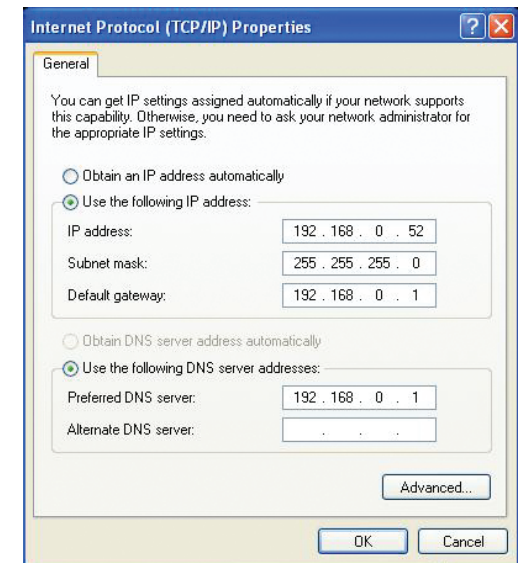
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1 or http://dlinkrouter.local., 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 the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1 or http://dlinkrouter.local.).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1 or http://dlinkrouter.local.). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

Click **OK** twice to save your settings.



Technical Specifications

Standards

- IEEE 802.11g, compatible with 802.11n devices
- IEEE 802.3
- IEEE 802.3u

Wireless Modes

- Router/AP Mode
- Repeater Mode
- Wi-Fi Hot Spot Mode

Wireless Frequency Range ¹

- 2.4 GHz to 2.4835 GHz

Antennas

- Internal Antenna

Security

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

Advanced Features

- SharePort™ Mobile app for iOS ²
- VPN pass-through
- UPnP™ Support
- Web File Access Support
- Wi-Fi WMM Quality of Service

Advanced Firewall Features

- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- MAC Address Filtering

Device Management

- Web UI

Diagnostic LEDs

- Power/Status

Operating Temperature

- 0 to 40 °C (32 to 104 °F)

Operating Humidity

- 0% to 90% non-condensing

Certifications

- CE
- Wi-Fi Certified
- FCC
- IC

Dimensions

- 102.9 x 79.8 x 22.3 mm

Weight

- 0.125 kg

¹ Frequency Range varies depending on local regulations

² SharePort Mobile app functionality only available when in Router or Wi-Fi Hotspot mode.

GPL Code Statement

This D-Link product includes software code developed by third parties, including software code subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL"). As applicable, the terms of the GPL and LGPL, and information on obtaining access to the GPL code and LGPL code used in this product, are available to you at:

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

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Where such specific license terms entitle you to the source code of such software, D-Link will provide upon written request via email and/or traditional paper mail the applicable GPL and LGPL source code files via CD-ROM for a nominal cost to cover shipping and media charges as allowed under the GPL and LGPL.

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

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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Safety Statements

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 ~ 5.725GHz 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 ~ 5.25GHz 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.