



User Manual

Pocket Cloud Router

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

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Package Contents



DIR-506L Pocket Cloud Router



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 installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 8 or higher• Firefox 8.0 or higher• Safari 4.0 or higher• Google Chrome (16.0.9.12.75) <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 Pocket Cloud Router (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.

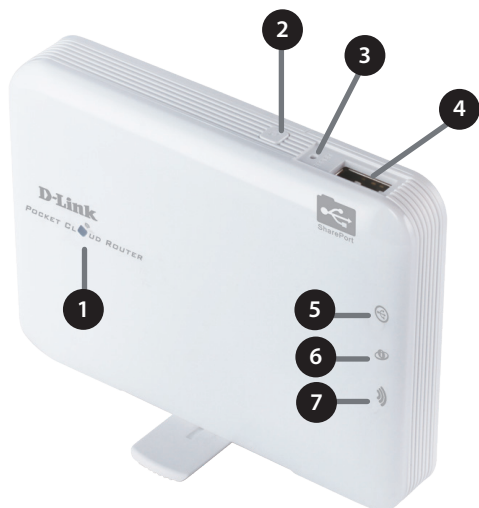
Features

- **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 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		charging	no charging
		flashing green		high battery capacity
		solid green	Battery full charged when device on	
		solid amber	Battery in charging	
		solid red		low battery capacity
		flashing red		need to charge device as soon as possible
		off	Battery full charged when device off	device 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	Connect a USB flash drive to configure the wireless settings using SharePort™ Mobile and SharePort™ Web File Access. Both allow you to share a USB or a storage device with your local network.		
5	USB LED Indicator	regular flashing green	Connect to USB (Shareport is not ready)	
		solid green	Connect to USB (Shareport is ready)	
		Off	remove USB	
6	Ethernet LED Indicator	solid green	Normal use: Ethernet connection is established	
		flashing green	Normal use: data packet transferred via Ethernet	
		Off	Ethernet is not connected	
7	Wi-Fi LED Indicator	solid green	WiFi on	
		flashing green	data packet transferred via WiFi	
		Fast flashing green	WPS mode for WiFi Client	
		Off	WiFi off	

Hardware Overview

Side/Left



1	Ethernet LAN/WAN Port	The auto MDI/MDIX Internet port is the connection for the Ethernet cable to the cable or DSL modem.
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



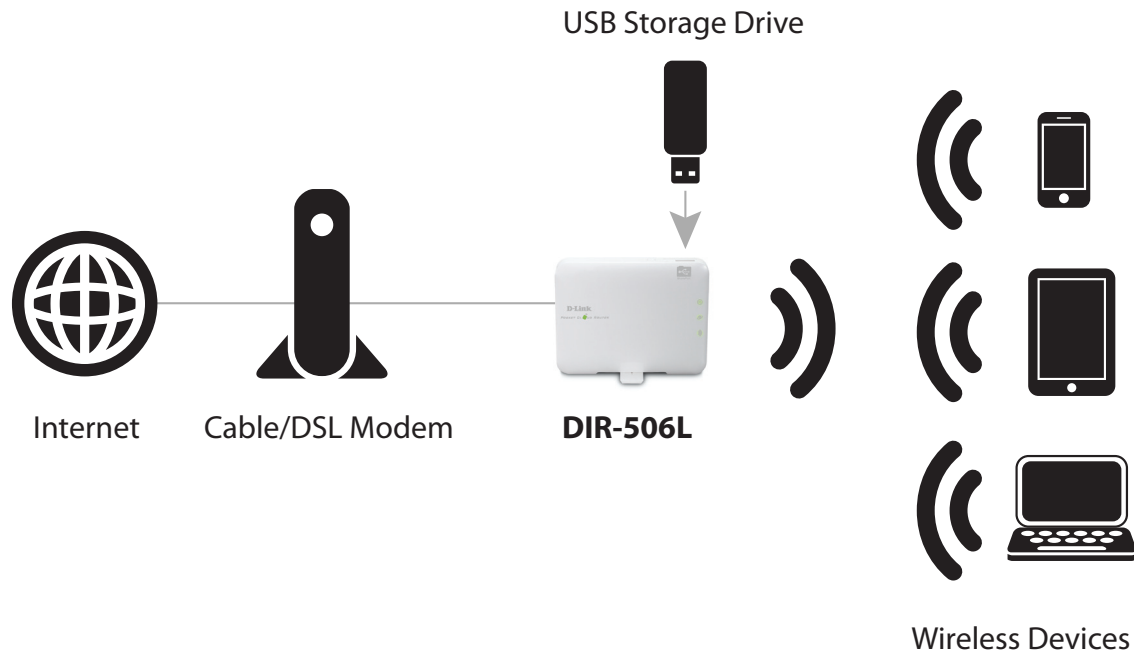
1	Battery cover	Slide the battery cover to remove it and access the battery compartment.
2	Battery compartment	Insert the rechargeable battery into the compartment, making sure the contact points on the battery are properly aligned with the contact points of the device. After proper insertion, replace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

Router Setup Diagram

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: Ensure Shareport using quality, we suggest this application can be shared with 5 users.



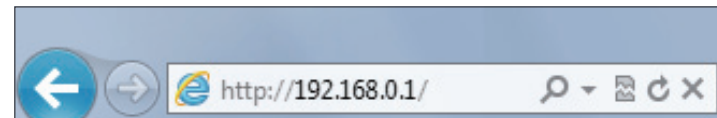
Wireless Installation Considerations

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:

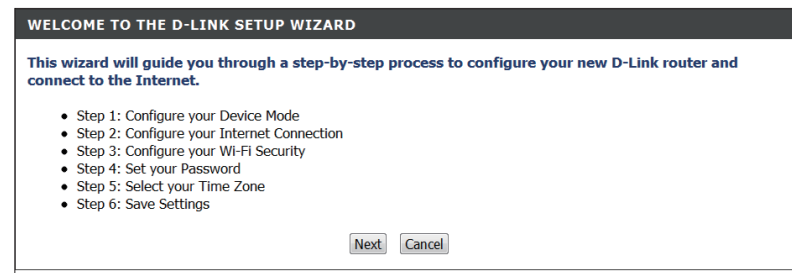
1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between 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. Plug in your DIR-506L mini-USB to a powered USB port on a computer to begin use. This will also charge the battery if you have one installed. Verify that the device status LED is on before continuing.
2. Use the following information to connect to your DIR-506L wirelessly:
Default WiFi SSID: dlink_DIR-506L
Default Password: 0266000123
3. Open your web browser, and type **http://192.168.0.1** or **http://dlinkrouter.local** in the address bar to begin the Setup Wizard.



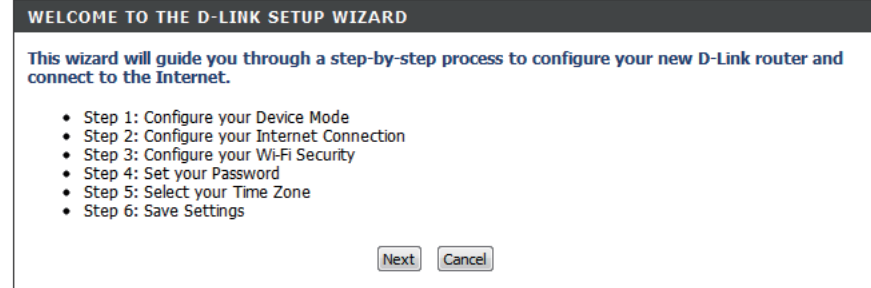
Please follow the on-screen instructions to complete setup.



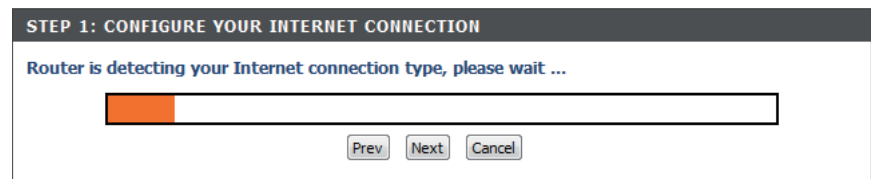
Initial Setup Wizard

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

Click **Next** to continue.

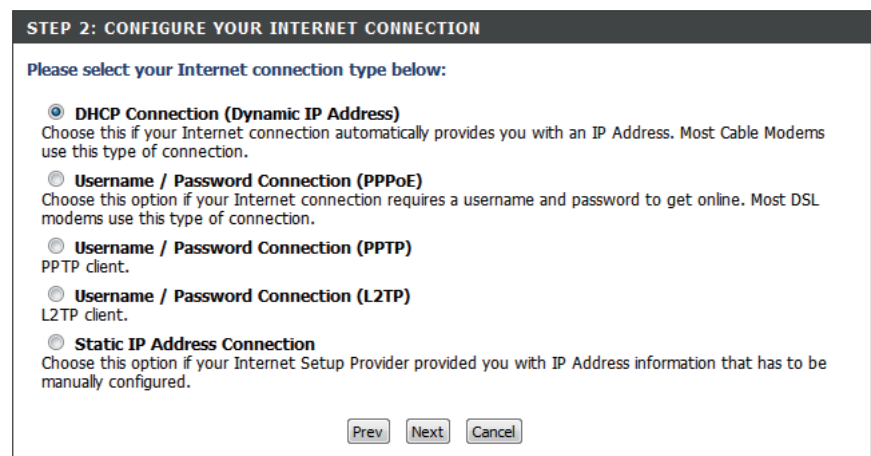


If you chose Router mode, the DIR-506L will try to detect what type of Internet connection you have and will ask you for the related settings. Enter the settings for your connection and click **Next**.



If your Internet connection cannot be detected (or if you click the **Prev** button after the previous step), you will need to select which type of Internet connection you have. Select your Internet connection type, then click the **Next** button and enter the related settings.

Note: Most cable modem connections use DHCP, and most DSL modem connections use **PPPoE**. If you are not sure which connection type you use or what settings to enter, contact your Internet service provider.



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

Click **Next** to continue.

Enter a password to secure configuration access to your router. Please note that this password will be used to log in to the configuration interface, but is not the same as the password used for your wireless network. Check the **Enable Graphical Authentication** box to enable CAPTCHA authentication for added security. Click **Next** to continue.

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

Setup is complete, and your wireless network name and password will be displayed. It is recommended that you write this information down for future reference. Click **Save** to save your settings and reboot the router.

STEP 3: CONFIGURE YOUR WI-FI SECURITY

Give your Wi-Fi network a name.

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

Give your Wi-Fi network a password.

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

STEP 4: SET YOUR PASSWORD

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

Password :

Verify Password :

Enable Graphical Authentication :

STEP 5: SELECT YOUR TIME ZONE

Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.

SETUP COMPLETE!

Below is a detailed summary of your Wi-Fi 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 Wi-Fi devices.

Wi-Fi Network Name (SSID): MyDLinkNetwork
Wi-Fi Password : MyPassword

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

SharePort Mobile App (iOS, Android)

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 44.

Note: The SharePort Web/SharePort Mobile feature of the DIR-506L can only be used when the device is configured for **Router** mode in the wireless settings.

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

Note: Don't unplug USB to avoid USB crash during USB LED flashing.



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 the Android Market/Google Play.



iOS

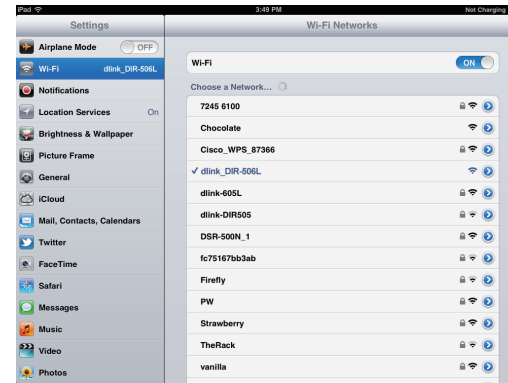


Android

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



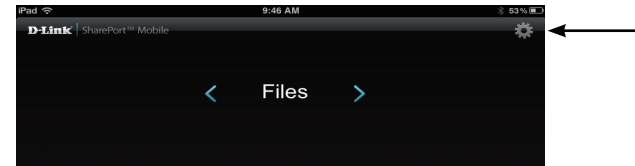
5. Click **Wi-Fi** and select the network (SSID) that you assigned during initial setup. Then, enter your Wi-Fi password.



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

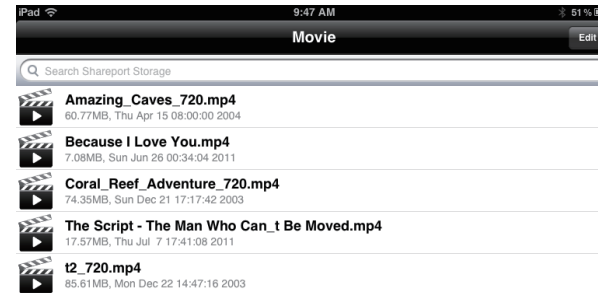


7. Tap on the **Settings** gear icon located on the right top corner of the screen. Then, click **Edit** to enter your User Name and Password. Once you finish, click **Done** to continue.



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.

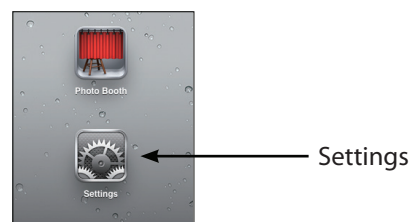


QRS Mobile App Setup (iOS)

1. Use your iOS mobile device to scan the QR code to the right to download the **QRS Mobile** app from the App Store.



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



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

Default WiFi SSID: dlink_DIR-506L

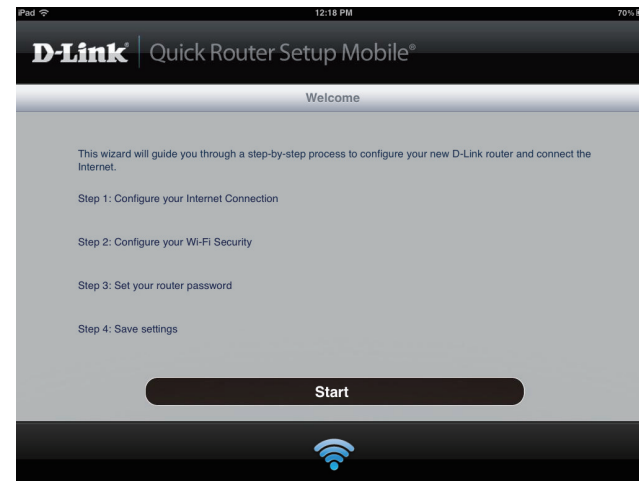
Default Password: 0266000123



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



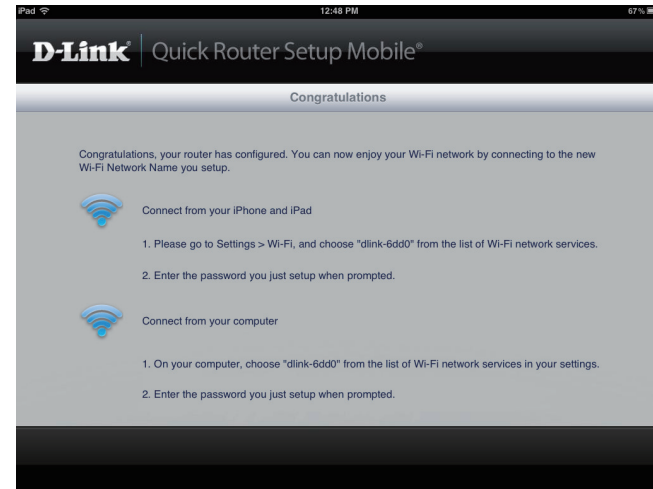
5. Click **Start** to continue.



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

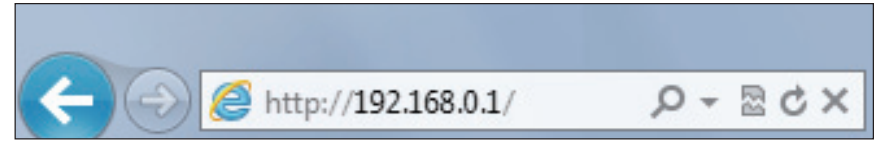


7. After the Setup Wizard is complete, the following screen will appear. You can now change your mobile device and laptop Wi-Fi settings to the wireless network name and password you just created.



Web-based Configuration

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



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

 A screenshot of the "LOGIN" page. 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 :" and "Password :". The "User Name" field has a blue border. To the right of the "Password" field is a "Login" button.

The configuration interface will open, and you can configure the different settings of the DIR-506L.

A screenshot of the D-Link DIR-506L configuration interface. The top navigation bar is orange with the D-Link logo. Below it is a menu with tabs: "DIR-506L //", "SETUP", "ADVANCED", "TOOLS", "STATUS", and "SUPPORT". The "SETUP" tab is selected. On the left is a sidebar with menu items: "INTERNET", "WIRELESS SETTINGS", "NETWORK SETTINGS", "MEDIA SERVER", and "STORAGE". The main content area is titled "INTERNET CONNECTION" and contains the "INTERNET CONNECTION SETUP WIZARD". The wizard text says: "There are two ways to set up your Internet connection: you can use the Web-based Internet Connection Setup Wizard, or you can manually configure the connection." Below this, it says: "If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your Router to the Internet, click on the button below." There is a button labeled "Internet Connection Setup Wizard". A "Note" follows: "Note : Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package." Below the note, there is a section for "MANUAL INTERNET CONNECTION OPTIONS" with the text: "If you would like to configure the Internet settings of your Router manually, then click on the button below." There is a button labeled "Manual Internet Connection Setup". On the right side of the main content area, there is a "Helpful Hints.." section with two bullet points: "• If you are new to networking and have never configured a router before, click on Internet Connection Setup Wizard and the router will guide you through a few simple steps to get your network up and running." and "• If you consider yourself an advanced user and have configured a router before, click Manual Internet Connection Setup to Input all the settings manually." Below the hints is a "More..." link. At the bottom of the page, there is a "WIRELESS" section header.

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 25.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists menu items: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, and STORAGE. The main content area is titled "INTERNET CONNECTION" and contains the following text:

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

INTERNET CONNECTION SETUP WIZARD

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

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

MANUAL INTERNET CONNECTION OPTIONS

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

On the right side, there is a "Helpful Hints..." section with the following text:

- If you are new to networking and have never configured a router before, click on **Internet Connection Setup Wizard** and the router will guide you through a few simple steps to get your network up and running.
- If you consider yourself an advanced user and have configured a router before, click **Manual Internet Connection Setup** to Input all the settings manually.

A "More..." link is also present at the bottom of the hints section.

The bottom of the page shows the "WIRELESS" section header.

Internet Connection Setup Wizard

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

Click **Next** to continue.




WELCOME TO THE SETUP WIZARD

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

- Step 1: Set your Password
- Step 2: Select your Time Zone
- Step 3: Configure your Internet Connection
- Step 4: Save Settings and Connect

Prev Next Cancel Connect

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



STEP 1: SET YOUR PASSWORD

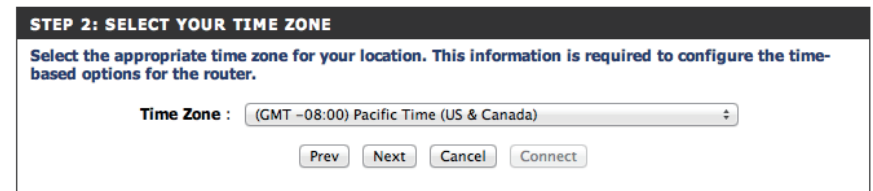
To secure your new networking device, please set and verify a password below:

Password : [masked]

Verify Password : [masked]

Prev Next Cancel Connect

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



STEP 2: SELECT YOUR TIME ZONE

Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.

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

Prev Next Cancel Connect

Select which type of Internet connection you have. Select your Internet connection type, then click the **Next** button and enter the related settings.

Note: Most cable modem connections use DHCP, and most DSL modem connections use **PPPoE**. If you are not sure which connection type you use or what settings to enter, contact your Internet service provider.

If you selected **DHCP Connection**, you will see the following screen. If your ISP requires you to enter a MAC address and Host Name, fill them in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

Click **Next** to continue.

Setup is complete, and your wireless network name and password will be displayed. It is recommended that you write this information down for future reference. Click **Save** to save your settings and reboot the router.

STEP 3: CONFIGURE YOUR INTERNET CONNECTION

Please select the 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.
- Username / Password Connection (PPTP)**
PPTP client.
- Username / Password Connection (L2TP)**
L2TP client.
- Wi-Fi HotSpot**
Wi-Fi HotSpot
- Static IP Address Connection**
Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

DHCP CONNECTION (DYNAMIC IP ADDRESS)

To set up this connection, please make sure that you are connected to the Router with the PC that was originally connected to your broadband connection. If you are, then click the **Clone MAC button** to copy your computer's MAC Address to the Router.

MAC Address :

Host Name :

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

SETUP COMPLETE!

The Internet Connection Setup Wizard has completed. Click the **Connect** button to save your settings and reboot the router.

If you selected **PPPoE Connection**, you will see the following screen. Enter your PPPoE username, password and verify password, then click **Next** to continue.

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

SET USERNAME / PASSWORD CONNECTION (PPPOE)

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

Address Mode : Dynamic IP Static IP

IP Address :

User Name :

Password :

Verify Password :

Service Name : (optional)

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

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

If you selected **PPTP Connection**, you will see the following screen. Enter your PPTP username, password, and other information supplied by your ISP. Click **Next** to continue.

SET USERNAME / PASSWORD CONNECTION (PPTP)

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

Address Mode : Dynamic IP Static IP

PPTP IP Address :

PPTP Subnet Mask :

PPTP Gateway IP Address :

PPTP Server IP Address :

User Name :

Password :

Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

If you selected **L2TP Connection**, you will see the following screen. Enter your L2TP username, password, and other information supplied by your ISP. Click **Next** to continue.

SET USERNAME / PASSWORD CONNECTION (L2TP)

To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need L2TP IP address. If you do not have this information, please contact your ISP.

Address Mode : Dynamic IP Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

L2TP Server IP Address :

User Name :

Password :

Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

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

SET STATIC IP ADDRESS CONNECTION

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

IP Address :

Subnet Mask :

Gateway Address :

Primary DNS Address :

Secondary DNS Address :

Your setup is complete. Click **Connect** to save your settings and reboot your router.

SETUP COMPLETE!

The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings and reboot 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 // SETUP ADVANCED TOOLS STATUS SUPPORT

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...

WIRELESS

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.

INTERNET CONNECTION TYPE

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

My Internet Connection is :

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 :

Username :

Password :

Verify Password :

Service Name : (optional)

Reconnect Mode : Always on On demand Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server : (optional)

Secondary DNS Server : (optional)

MTU : (bytes) MTU default = 1492

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 :

PPTP Subnet Mask :

PPTP Gateway IP Address :

PPTP Server IP Address :

Username :

Password :

Verify Password :

Reconnect Mode : Always on On demand Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server :

Secondary DNS Server :

MTU : (bytes) MTU default = 1492

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 :

PPTP Subnet Mask :

PPTP Gateway IP Address :

PPTP Server IP Address :

Username :

Password :

Verify Password :

Reconnect Mode : Always on On demand Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server :

Secondary DNS Server :

MTU : (bytes) MTU default = 1492

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 :

L2TP Subnet Mask :

L2TP Gateway IP Address :

L2TP Server IP Address :

Username :

Password :

Verify Password :

Reconnect Mode : Always on On demand Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server :

Secondary DNS Server :

MTU : (bytes) MTU default = 1492

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 INTERNET CONNECTION TYPE :

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

Address Mode : Dynamic IP Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

L2TP Server IP Address :

Username :

Password :

Verify Password :

Reconnect Mode : Always on On demand Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server :

Secondary DNS Server :

MTU : (bytes) MTU default = 1492

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.

Note: In WiFi hotspot mode, if hotspot is assigning 192.168.0.x IP to clients, there will be IP conflict with DIR-506L default IP 192.168.0.x.
Please help to change DIR-506L LAN IP to 192.168.y.x with y avoiding 0.

The screenshot shows two sections of the router's configuration interface. The top section is titled "INTERNET CONNECTION TYPE" and contains the instruction "Choose the mode to be used by the router to connect to the Internet." Below this, a label "My Internet Connection is" is followed by a dropdown menu currently set to "Wi-Fi HotSpot". The bottom section is titled "WIRELESS AP LIST" and features a table with the following headers: "Select", "SSID", "BSSID", "Channel", "Mode", "Security", and "Signal Strength". Below the table are two buttons: "Refresh" and "Select".

Wireless Settings

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

If you want to manually configure the wireless settings on your router click **Manual Wireless Network Setup** and refer to “Manual Wireless - Router Mode” on page 37.

The screenshot displays the D-Link DIR-506L web interface. At the top, it shows 'Product Page : DIR-506L' and 'Firmware Version : V1.01'. The D-Link logo is prominently displayed. Below the logo is a navigation menu with tabs for 'DIR-506L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'SETUP' tab is selected, and the 'WIRELESS CONNECTION' section is highlighted in orange. The main content area is divided into three sections: 'WIRELESS CONNECTION SETUP WIZARD', 'MANUAL WIRELESS CONNECTION OPTIONS', and 'WI-FI PROTECTED SETUP'. Each section contains a brief description and a button to proceed. On the right side, there is a 'Helpful Hints...' section with two bullet points and a 'More...' link. The bottom of the page features a dark grey bar with the word 'WIRELESS' in white capital letters.

DIR-506L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET	WIRELESS CONNECTION				Helpful Hints... <ul style="list-style-type: none"> • If you are new to wireless networking and have never configured a wireless router before, click on Wireless Connection Setup Wizard and the router will guide you through a few simple steps to get your wireless network up and running. • If you consider yourself an advanced user and have configured a wireless router before, click Manual Wireless Connection Setup to input all the settings manually. More...
WIRELESS SETTINGS	There are 3 ways to setup your wireless connection. You can use the Wireless Connection Setup wizard or you can manually configure the connection.				
NETWORK SETTINGS	Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.				
MEDIA SERVER	WIRELESS CONNECTION SETUP WIZARD If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your Wireless Router to the Internet, click on the button below. <input type="button" value="Wireless Connection Setup Wizard"/>				
STORAGE	Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.				
	MANUAL WIRELESS CONNECTION OPTIONS If you would like to configure the Internet settings of your Router manually, then click on the button below. <input type="button" value="Manual Wireless Connection Setup"/>				
	WI-FI PROTECTED SETUP If you would like to configure the Wi-Fi Protected Setup of your Router, then click on the button below. <input type="button" value="Wi-Fi Protected Setup"/>				

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**.

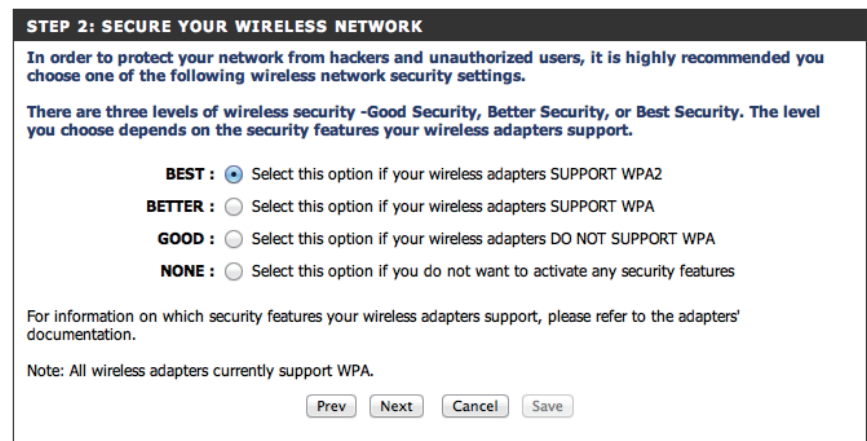
Choose your wireless security level from the following options:

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.



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 :

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.

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 :

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.

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 :

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.

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

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.

D-Link

DIR-506L // SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET
WIRELESS SETTINGS
NETWORK SETTINGS
MEDIA SERVER
STORAGE

WIRELESS NETWORK

Use this section to configure the wireless settings for this device. Please note that changes made on this section may also need to be duplicated on your wireless client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2.

Save Settings Don't Save Settings

WIRELESS MODE SETTING

Wireless Mode : Router Mode

WIRELESS NETWORK SETTINGS

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

Security Mode : None

Helpful Hints..

- Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform scan to see what's available. In order for your wireless devices to connect to your router, you will need to manually enter the Wireless Network Name on each device.

If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.

[More...](#)

WIRELESS

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

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 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 : (length applies to all keys)

WEP Key 1 :

Authentication :

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

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 :

Cipher Type :

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

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 :

Cipher Type :

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 :

RADIUS Server Port :

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.

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 : AP Only ▾

WIRELESS NETWORK SETTINGS

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

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.

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 :	Repeater

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

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

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 to disable this function.

DHCP Lease Time: The length of time for the IP address lease. Enter the Lease time in minutes.

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

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

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

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

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 lists menu items: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, and STORAGE. The main content area is titled 'NETWORK SETTING' and contains the following sections:

- NETWORK SETTING:** A text block explaining the purpose of the section and a note that it is optional. Below the text are two buttons: 'Save Settings' and 'Don't Save Settings'.
- ROUTER SETTINGS:** A text block explaining the purpose of the section. Below the text are three input fields: 'Router IP Address' (pre-filled with 192.168.0.1), 'Default Subnet Mask' (pre-filled with 255.255.255.0), and 'Local Domain Name'.
- DHCP SERVER SETTINGS:** A text block explaining the purpose of the section. Below the text are several settings:
 - 'Enable DHCP Server' with a checked checkbox.
 - 'DHCP IP Address Range' with input fields for 50 and 199, followed by '(addresses within the LAN subnet)'.
 - 'DHCP Lease Time' with an input field for 86400 and '(Seconds)'.
 - 'Primary DNS IP Address' with an empty input field.
 - 'Secondary DNS IP Address' with an empty input field.
 - 'Primary WINS IP Address' with an empty input field.
 - 'Secondary WINS IP Address' with an empty input field.

On the right side of the interface, there is a 'Helpful Hints...' section with a bullet point: 'If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, uncheck Enable DHCP Server to disable this feature.' Below this is a 'More...' link.

Media Server

This feature allows you to share music, pictures and videos with any devices connected to your network. After making your changes, click the **Save Settings** button.

Enable DLNA Check this box to enable the media server feature.
Media Server:

Media Server Enter your media server's name.
Name:

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists menu items: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, and STORAGE. The main content area is titled "MEDIA SERVER" and contains the following text: "Enable DLNA Media Server allows you to share media with DLNA certified devices. Any DLNA certified devices that connect to your network can play your shared music, pictures, and videos." Below this is a note: "Note: The shared media may not be secure. Allowing any devices to stream is recommended only on secure networks." There are two buttons: "Save Settings" and "Don't Save Settings". A section titled "DLNA MEDIA SERVER" contains a checked checkbox for "Enable DLNA Media Server" and a text input field for "Media Server Name". The bottom of the page has a "WIRELESS" section header.

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 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, MEDIA SERVER, and STORAGE. The main content area is titled 'STORAGE' and contains the following sections:

- SharePort Web Access:** Includes a checkbox for 'Enable SharePort Web Access' (checked), an 'HTTP Access Port' field with the value '8181', and a checkbox for 'Allow Remote Access' (checked). There are 'Save Settings' and 'Don't Save Settings' buttons.
- 10 -- USER CREATION:** Includes fields for 'User Name', 'Password', and 'Verify Password'. A dropdown menu is next to the 'User Name' field. There are 'Add/Edit' and 'Delete' buttons.
- USER LIST:** A table showing existing user accounts.

No.	User Name	Access Path	Permission	
1	admin	/	Read/Write	
2	guest	None	Read Only	
3	DlinkTest	(1) /usb_a1	Read/Write	
- NUMBER OF DEVICES : 1:** A table showing the details of the connected USB storage device.

Device	Total Space	Free Space
usb_a1	4.0GB	0.8GB
- SHAREPORT WEB ACCESS LINK:** A text box containing the URL `http://192.168.0.1:8181`.

On the right side of the interface, there is a 'Helpful Hints...' section with a note: 'The Storage page contains information about the USB storage drives currently plugged in to the device.' and a 'More...' link.

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 46. After making your changes, click the **Save Settings** button.

Name: 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.

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

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

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

D-Link

DIR-506L // Router

SETUP ADVANCED MAINTENANCE STATUS HELP

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

8--VIRTUAL SERVERS LIST

		Port	Traffic Type
<input type="checkbox"/>	Name 0.0.0.0 << Application Name	Public 0	Protocol TCP
	IP Address 0.0.0.0 << Computer Name	Private 0	6
<input type="checkbox"/>	Name 0.0.0.0 << Application Name	Public 0	Protocol TCP
	IP Address 0.0.0.0 << Computer Name	Private 0	6
<input type="checkbox"/>	Name 0.0.0.0 << Application Name	Public 0	Protocol TCP
	IP Address 0.0.0.0 << Computer Name	Private 0	6
<input type="checkbox"/>	Name 0.0.0.0 << Application Name	Public 0	Protocol TCP
	IP Address 0.0.0.0 << Computer Name	Private 0	6
<input type="checkbox"/>	Name 0.0.0.0 << Application Name	Public 0	Protocol TCP
	IP Address 0.0.0.0 << Computer Name	Private 0	6
<input type="checkbox"/>	Name 0.0.0.0 << Application Name	Public 0	Protocol TCP
	IP Address 0.0.0.0 << Computer Name	Private 0	6

Helpful Hints...
Check the **Application Name** drop down menu for a list of predefined server types. If you select one of the predefined server types, click the arrow button next to the drop down menu to fill out the corresponding field.
You can select a computer from the list of DHCP clients in the **Computer Name** drop down menu, or you can manually enter the IP address of the computer at which you

WIRELESS

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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.

The screenshot shows the D-Link DIR-506L web interface. The main content area is titled 'APPLICATION RULES'. It contains a text box with the following text: '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.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. There is a 'Popular applications' section with a dropdown menu showing 'PC-to-Phone' and a 'Copy to ID' field with the value '1'. Below this is a table with 12 rows, each representing an application rule. The table has columns for 'ID', 'Trigger', 'Incoming Ports', and 'Enable'. The 'Enable' column contains checkboxes, all of which are currently unchecked. On the right side of the interface, there is a 'Helpful Hints...' section with the following text: '• 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.' Below this text is a 'More...' link. The bottom of the interface has a 'WIRELESS' tab.

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"/>

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 When this option is selected, only PCs and devices with
Control: 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 When this option is selected, only PCs and devices with
Control: 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 // SETUP ADVANCED TOOLS STATUS SUPPORT

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 unspecified MAC addresses to connect.

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

DHCP clients Copy to ID

MAC FILTERING RULES

ID	MAC Address	C	A
1	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="text"/>	<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. If a client is denied to connect to this device, it means that the client can't access the Internet and some network resources. Choose **allow** or **deny** to allow or deny clients whose MAC addresses are not listed in the **Control table**.
- 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 this device only after the association process is successfully completed.

More...

WIRELESS

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 web interface. The top navigation bar includes 'D-Link', 'DIR-506L', and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists configuration categories: VIRTUAL SERVER, APPLICATION RULES, MAC ADDRESS FILTER, URL FILTER, OUTBOUND FILTER, INBOUND FILTER, SNMP, ROUTING, GUEST ZONE, 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 the label 'URL Filtering : Enable'.
- URL FILTERING RULES:** A table with 5 rows and 3 columns: ID, URL, and Enable.

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

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"/>

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.

Schedule Rule #: Provide an identification number for the rule.

Add New Rule: Click the **Add** button to apply your settings. You must click **Save Settings** at the top to save the settings.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes 'D-Link', 'DIR-506L', and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'ADVANCED' tab is selected, and the 'OUTBOUND FILTER' section is active. Below the navigation, there are sections for 'OUTBOUND FILTER' (with 'Save Settings' and 'Don't Save Settings' buttons), 'OUTBOUND FILTER SETTING' (with 'Outbound Filter' checkbox and 'Use schedule rule' dropdown), and 'OUTBOUND FILTER RULES LIST' (a table with columns for ID, Source IP:Ports, Destination IP:Ports, Enable, and Schedule Rule#, plus 'Add New Rule...' buttons for each row). A 'Helpful Hints..' sidebar is visible on the right.

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 #: Provide an identification number for the rule.

Add New Rule: Click the **Add** button to apply your settings. You must click **Save Settings** at the top to save the settings.

D-Link

DIR-506L // 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...

Previous page Next page

WIRELESS

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...

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.

D-Link

DIR-506L // SETUP ADVANCED TOOLS STATUS SUPPORT

SNMP

Use Simple Network Management Protocol(SNMP) for management purposes.

Save Settings Don't Save Settings

SNMP

SNMP Local : Enabled Disabled

SNMP Remote : Enabled Disabled

Get Community :

Set Community :

IP 1 :

IP 2 :

IP 3 :

IP 4 :

SNMP Version : V1 V2c

WAN Access IP Address :

Helpful Hints..

• Gives a user the capability to remotely manage a computer network by polling and setting terminal values and monitoring network events.

[More...](#)

WIRELESS

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 // 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="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<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...

WIRELESS

Guest Zone

The Guest Zone feature allows you to create a separate wireless network for guests to access the Internet without allowing them to connect to your own devices. After making your changes, click the **Save Settings** button.

Enable Guest Zone: Tick this checkbox to enable the Guest Zone feature.

Add New Schedule: Select when the Guest Zone will be active. The schedule may be set to **Always**, which will allow the Guest Zone to be on at all times. You can select a schedule you created, or you can click the **Add New Schedule** button to create a schedule.

Wireless

Network Name: Enter a wireless network name (SSID) for your guest zone. It should be different than the network name of your main wireless network.

Enable Routing Between Zones:

Check to allow network connectivity between the Guest

Security Mode: Zone and your main network.

Here, you can select between **None**, **WEP**, **WPA-Personal**, and **WPA-Enterprise**. Refer to "Wireless Settings" on page 33 for information on how to configure the different security modes.

The screenshot shows the D-Link router's configuration interface for the Guest Zone. The page is titled "GUEST ZONE" and includes a "Save Settings" button and a "Don't Save Settings" button. Below this, the "GUEST ZONE SELECTION" section contains the following settings:

- Enable Guest Zone:** Always (with an "Add New Schedule" button)
- Wireless Band:** 2.4GHz Band
- Wireless Network Name:** default (with a note: "(Also called the SSID)")
- Enable Routing Between Zones:**
- Security Mode:** None

The interface also features a "Helpful Hints..." section on the right side, which provides additional information about the Guest Zone feature.

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.

The screenshot displays the D-Link DIR-506L configuration interface. The top navigation bar includes 'DIR-506L //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'ADVANCED' tab is active, showing a sub-menu with 'VIRTUAL SERVER', 'APPLICATION RULES', 'MAC ADDRESS FILTER', 'URL FILTER', 'OUTBOUND FILTER', 'INBOUND FILTER', 'SNMP', 'ROUTING', 'GUEST ZONE', 'ADVANCED WIRELESS', and 'ADVANCED NETWORK'. The 'ADVANCED WIRELESS' section is highlighted, containing a warning: 'If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.' Below the warning are 'Save Settings' and 'Don't Save Settings' buttons. The 'ADVANCED WIRELESS SETTINGS' section includes the following parameters:

- 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 :** MCS 3 - 26[54]

A 'Helpful Hints...' sidebar on the right contains a note: '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.' and a 'More...' link.

Advanced Network

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.

The screenshot displays the D-Link DIR-506L Advanced Network configuration page. The page is organized into several sections:

- Navigation Menu:** Includes links for DIR-506L, SETUP, ADVANCED (selected), TOOLS, STATUS, and SUPPORT.
- Left Sidebar:** Lists various configuration categories such as VIRTUAL SERVER, APPLICATION RULES, MAC ADDRESS FILTER, URL FILTER, OUTBOUND FILTER, INBOUND FILTER, SNMP, ROUTING, GUEST ZONE, ADVANCED WIRELESS, and ADVANCED NETWORK (selected).
- ADVANCED NETWORK Section:** Contains a warning message: "If you are not familiar with these Advanced Network settings, please read the help section before attempting to modify these settings." Below this are "Save Settings" and "Don't Save Settings" buttons.
- UPNP Section:** Describes UPnP functionality and includes the option "Enable UPnP : .
- WAN PING Section:** Explains that enabling this feature allows the WAN port to respond to ping requests. It includes the option "Enable WAN Ping Respond : .
- POWER SAVING Section:** Offers an option to activate power saving when on battery, with the option "Enable Power Saving in Battery Mode : .
- Right Sidebar:** Titled "Helpful Hints...", it provides additional information:
 - UPnP helps other UPnP LAN hosts interoperate with the router. Leave the UPnP option enabled as long as the LAN has other UPnP applications.
 - For added security, it is recommended that you disable the WAN Ping Respond option. Ping is often used by malicious Internet users to locate active networks or PCs.
 - A "More..." link is also present.

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.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes 'DIR-506L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'TOOLS' tab is selected, and the 'ADMINISTRATOR SETTINGS' section is active. The page contains the following elements:

- ADMINISTRATOR SETTINGS:** A message: "To help secure your network, we recommend that you should choose a new password." Below this are two buttons: "Save Settings" and "Don't Save Settings".
- ADMINISTRATOR (THE DEFAULT LOGIN NAME IS "admin"):** Two input fields: "New Password" and "Confirm Password".
- REMOTE MANAGEMENT:**
 - "Enable Remote Management": Enabled
 - "IP Allowed to Access":
 - "Port":
- 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.

Auto Sync: 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 displays the D-Link DIR-506L web interface. The top navigation bar includes 'D-Link', 'DIR-506L //', and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. A left sidebar lists menu items: 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 summary section with a description: 'The Time and Date Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server.' It includes 'Save Settings' and 'Don't Save Settings' buttons.
- TIME AND DATE CONFIGURATION:** Shows the current 'Time : Fri Jan 01, 2010 08:06:48' and 'Time Zone : (GMT -08:00) Pacific Time (US & Canada)'. It has an 'Enable Daylight Saving' checkbox which is currently unchecked.
- AUTOMATIC TIME AND DATE CONFIGURATION:** Features a checked checkbox for 'Automatically synchronize with Internet time server' and an 'NTP Server Used' field set to 'time-nw.nist.gov' with an 'Update Now' button.
- SYNC. RESULT:** A large empty rectangular box intended for synchronization results.

On the right side, there is a 'Helpful Hints...' section with a tip: '• Good timekeeping is important for accurate logs and scheduled firewall rules.' and a 'More...' link. The bottom of the page has a 'WIRELESS' label.

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).

The screenshot displays the D-Link DIR-506L web interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for 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 'SYSLOG' and contains the following text: 'The SysLog options allow you to send log information to a SysLog Server.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. Underneath, the 'SYSLOG SETTINGS' section includes a checkbox for 'Enable Logging To Syslog Server' and a text input field for 'Syslog Server IP Address'. On the right side of the interface, there is a 'Helpful Hints...' section with a bullet point explaining that a System Logger (syslog) is a server that collects logs from different sources. It notes that if the LAN includes a syslog server, users can use this option to send the router's logs to that server. A 'More...' link is also present.

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 web interface for the DIR-506L router. The top navigation bar includes 'Product Page : DIR-506L' and 'Firmware Version : V1.01'. The main menu has tabs for 'DIR-506L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various system settings: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The 'EMAIL SETTINGS' page is active, displaying the following configuration options:

- Enable Email Notification:** A checkbox that is currently unchecked.
- SMTP Server IP and Port:** Two input fields for the server address and port.
- SMTP Username:** An input field for the email account username.
- SMTP Password:** An input field for the email account password.
- Send E-mail alert to:** A text area for entering the email address(es) to receive alerts.
- E-mail Subject:** An input field for the subject line of the alert emails.

Buttons for 'Save Settings' and 'Don't Save Settings' are located above the main configuration area. A 'Helpful Hints...' section on the right provides additional information, and a 'More...' link is also present. The 'WIRELESS' logo is visible at the bottom of the interface.

System Settings

This page allows you to save and restore your configuration, reset and reboot the DIR-506L, and remove any added language packs.

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.

The screenshot displays the D-Link DIR-506L web interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration categories, with 'SYSTEM' currently selected. The main content area is titled 'SYSTEM SETTINGS' and contains the following text:

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 : no file selected

Restore To Factory Default Settings :

On the right side, there is a 'Helpful Hints...' section with the following text:

- 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.

A 'More...' link is also present at the bottom of the hints section.

Firmware Upgrade

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 web interface. The top navigation bar includes 'DIR-506L //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists menu items: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'FIRMWARE UPGRADE' and contains the following text:

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

Current Firmware Version : V1.01
Current Firmware Date : 2012/06/07

FIRMWARE UPGRADE

**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.**

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.

Upload : no file selected

Accept unofficial firmware.

The right sidebar contains 'Helpful Hints..' with a note: 'Firmware updates are released periodically to improve the functionality of your router and to add features. If you run into a problem with a specific feature of the router, check if updated firmware is available for your router.' 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 Dynamic

DNS: 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 or

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

Password or

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

D-Link

DIR-506L // SETUP ADVANCED TOOLS STATUS SUPPORT

DYNAMIC DNS

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.

Save Settings Don't Save Settings

DYNAMIC DNS

Enable DDNS :

Provider : DynDNS.org(Dynamic) ▾

Host Name :

Username / E-mail :

Password / Key :

Helpful Hints...

- To use this feature, you must first have a Dynamic DNS account from one of the providers in the drop down menu.

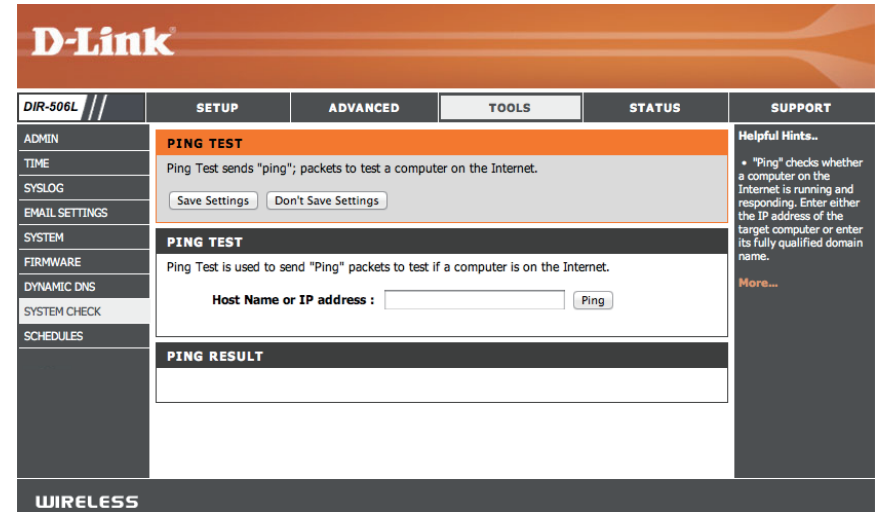
[More...](#)

WIRELESS

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.



The screenshot displays the D-Link DIR-506L 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: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled "PING TEST" and contains the following text: "Ping Test sends 'ping'; packets to test a computer on the Internet." Below this text are two buttons: "Save Settings" and "Don't Save Settings". A second "PING TEST" section follows, with the text: "Ping Test is used to send 'Ping' packets to test if a computer is on the Internet." This section includes a text input field labeled "Host Name or IP address :" and a "Ping" button. Below the input field is a "PING RESULT" section, which is currently empty. On the right side of the interface, there is a "Helpful Hints..." section with the text: "* 'Ping' checks whether a computer on the Internet is running and responding. Enter either the IP address of the target computer or enter its fully qualified domain name." and a "More..." link. The bottom of the interface features a "WIRELESS" section.

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.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes 'DIR-506L //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various configuration categories: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'SCHEDULES' and contains the following text: 'The Schedule configuration option is used to manage schedule rules for "Virtual Server" and "Inbound Filter".' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'SCHEDULE RULE' section features an 'Enable Schedule' checkbox, which is currently unchecked. Below the checkbox is a table with three columns: 'Rule#', 'Rule Name', and 'Action'. At the bottom of the table are three buttons: 'Previous page', 'Next page', and 'Add New Rule...'. The right sidebar, titled 'Helpful Hints...', contains several bullet points: 'Schedules are used with a number of other features to define when those features are in effect.', 'Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called "After School".', 'Click Save to add a completed schedule to the list below.', 'Click Edit icon to change an existing schedule.', and 'Click Delete icon to permanently delete a schedule.' The bottom of the page features a 'WIRELESS' section.

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 //

SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO

LOG

STATISTICS

WIRELESS

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 : Thu Dec 31, 2009 16:01:51 -0800
Firmware Version : V1.01 , 2012/06/07

WAN

Connection Type : DHCP Client
Network Status : Client Disconnected
Remaining Lease Time : N/A
MAC Address : F0:7D:68:E8:BA:BD
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 : F0:7D:68:E8:BA:BE
IP Address : 192.168.0.1
Subnet Mask : 255.255.255.0
DHCP Server : Enabled

WIRELESS LAN

MAC Address : F0:7D:68:E8:BA:BE
Wireless : Enabled
SSID : dlink_DIR-506L_DEMO
Security : Auto(None)
Channel : Auto
802.11 Mode : B/G/N Mixed
Wi-Fi Protected Setup : Enabled

LAN COMPUTERS

IP Address	Name	MAC
192.168.0.51	android-d5227ded654ef55	00-37-6D-CE-E4-17
192.168.0.101	DaveBook-Pro-2	00-25-00-4E-68-2A

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

WIRELESS

Logs

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.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes 'D-Link' logo and tabs for 'DIR-506L //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar contains 'DEVICE INFO', 'LOG', 'STATISTICS', and 'WIRELESS'. The main content area is titled 'VIEW LOG' and contains the following text: 'View Log displays the activities occurring on the device.' Below this, it says 'Page: 1/8 (Log Number : 111)'. There are buttons for 'Previous', 'Next', 'First Page', 'Last Page', 'Refresh', 'Download', and 'Clear logs'. A 'Link To Log Settings' button is also present. Below the 'VIEW LOG' section is a 'SYSTEM LOG' table with two columns: 'Time' and 'Message'. The table contains one entry: 'Dec 31 16:00:16' in the 'Time' column and 'syslog: =====' in the 'Message' column. On the right side of the interface, there is a 'Helpful Hints..' section with a note: '+ Check the log frequently to detect unauthorized network usage.' and a 'More...' link.

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.

D-Link

DIR-506L // SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO
LOG
STATISTICS
WIRELESS

TRAFFIC STATISTICS

Traffic Statistics display Receive and Transmit packets passing through the device.

Refresh

WAN STATISTICS INFORMATION

Statistics	Inbound	Outbound
Octets	0	0
Unicast Packets	0	0
Multicast Packets	0	0

Helpful Hints..

- This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.

More...

WIRELESS

Wireless Client List

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.

The screenshot shows the D-Link DIR-506L web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains links for DEVICE INFO, LOG, STATISTICS, and WIRELESS. The main content area is titled "WIRELESS CLIENT LIST" and includes a "Refresh" button. Below this is a "WIRELESS CLIENT TABLE" with two columns: ID and MAC Address. The table lists two clients with IDs 1 and 2, and their respective MAC addresses: 00-37-6D-CE-E4-17 and 00-25-00-4E-68-2A. A "Helpful Hints..." section on the right provides additional information about the list.

ID	MAC Address
1	00-37-6D-CE-E4-17
2	00-25-00-4E-68-2A

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.

The screenshot displays the D-Link DIR-506L configuration interface. At the top, the D-Link logo is visible. Below it, a navigation bar contains tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The main content area is titled 'SUPPORT MENU' and is divided into four sections: SETUP HELP, ADVANCED HELP, TOOLS HELP, and STATUS HELP. Each section contains a list of links to various configuration topics.

DIR-506L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
MENU	SUPPORT MENU				
SETUP	<ul style="list-style-type: none"> Setup Advanced Tools Status 				
ADVANCED					
TOOLS					
STATUS					
	SETUP HELP				
	<ul style="list-style-type: none"> Internet Wireless Settings Network Settings Media Server Storage 				
	ADVANCED HELP				
	<ul style="list-style-type: none"> VIRTUAL SERVER Application Rules MAC Address Filter URL Filter Outbound Filter Inbound Filter SNMP Routing Guest Zone Advanced Wireless Advanced Network 				
	TOOLS HELP				
	<ul style="list-style-type: none"> Admin Time SysLog Email settings System Firmware Dynamic DNS System Check Schedules 				
	STATUS HELP				
	<ul style="list-style-type: none"> 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).

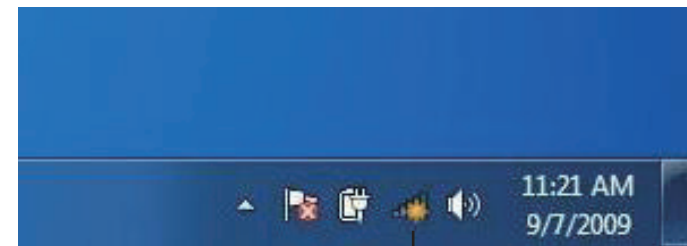
Step 3 - Allow up to 1 minute to configure. Once the WPS light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

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.

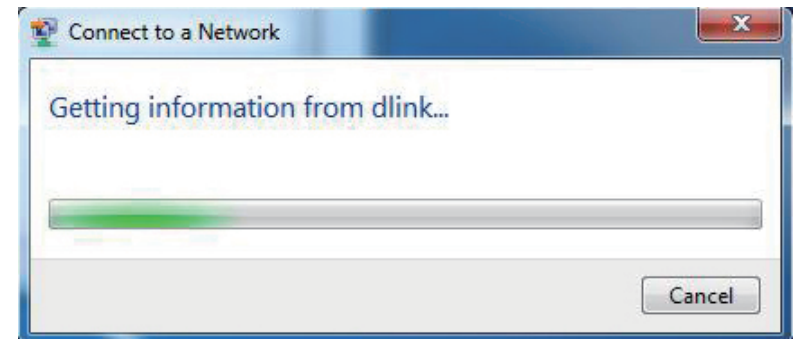


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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.

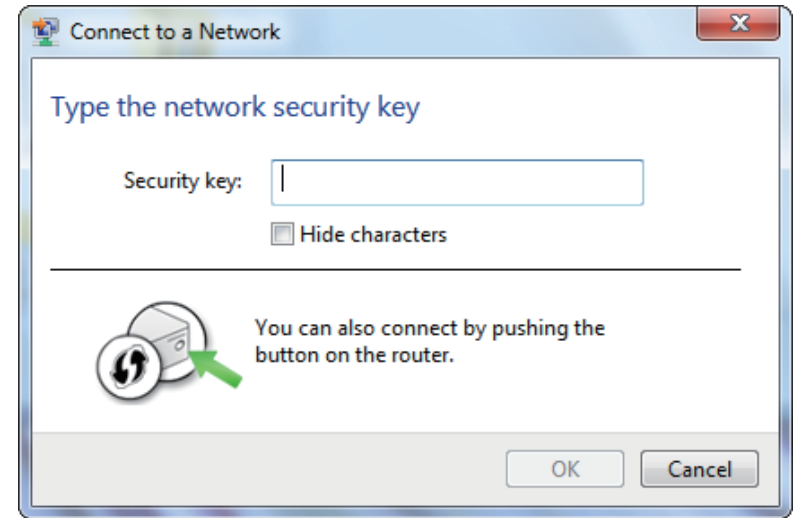


4. The following window appears while your computer tries to connect to the router.



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.

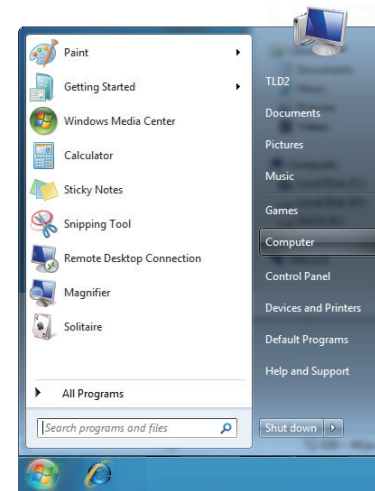
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



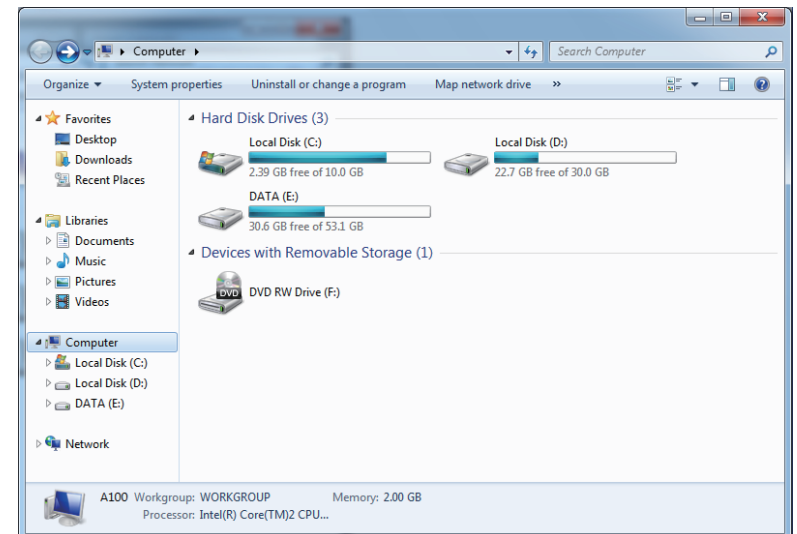
WPS

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:

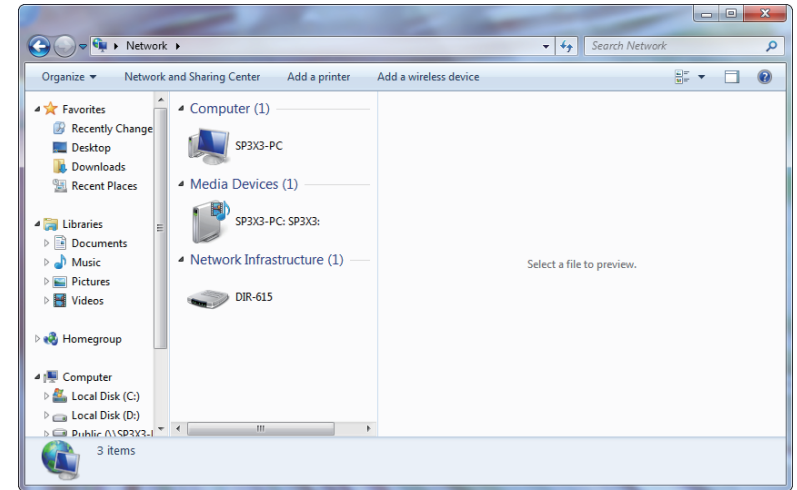
1. Click the **Start** button and select **Computer** from the Start menu.



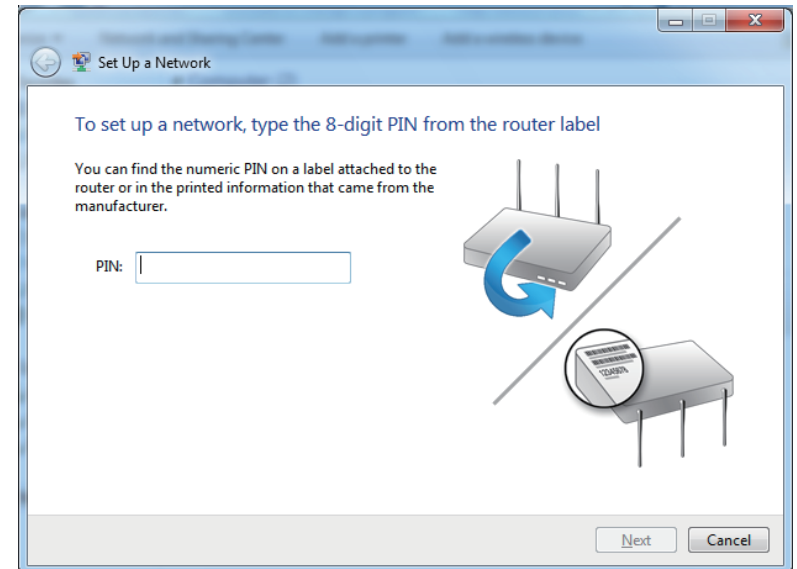
2. Click **Network** on the left side.



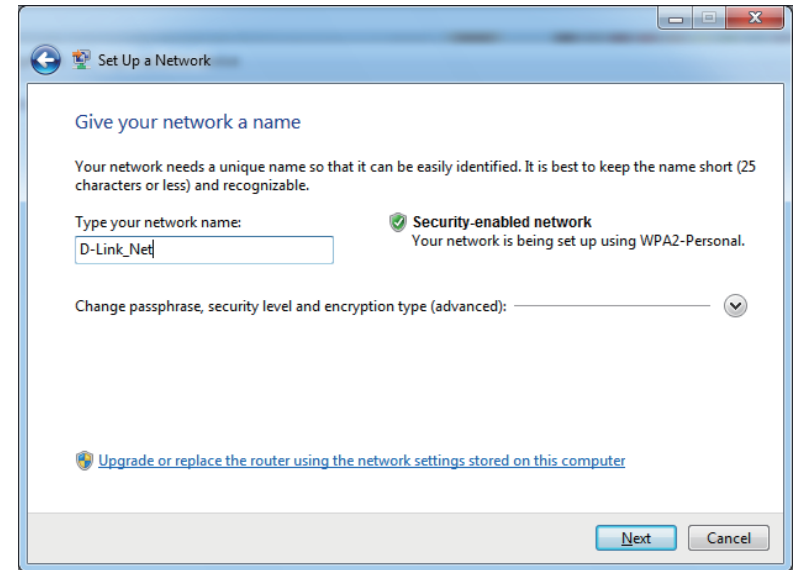
3. Double-click the DIR-506L.



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**.

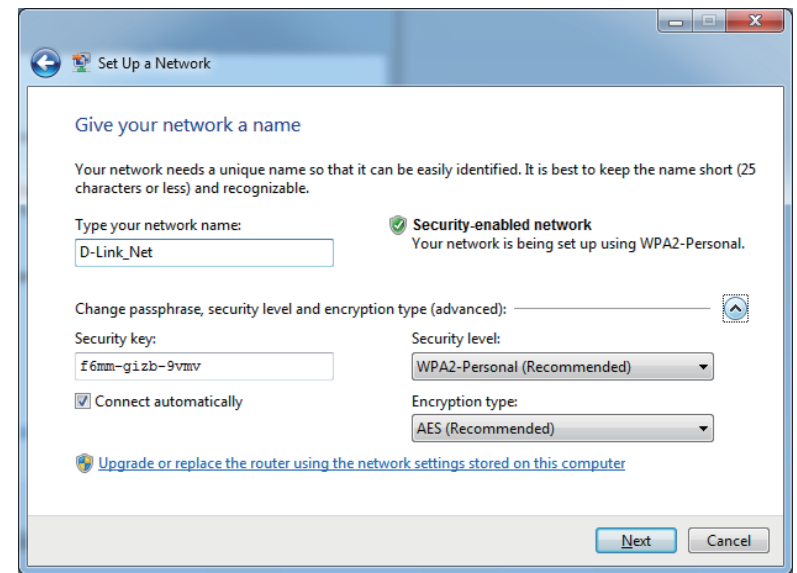


5. Type a name to identify the network.



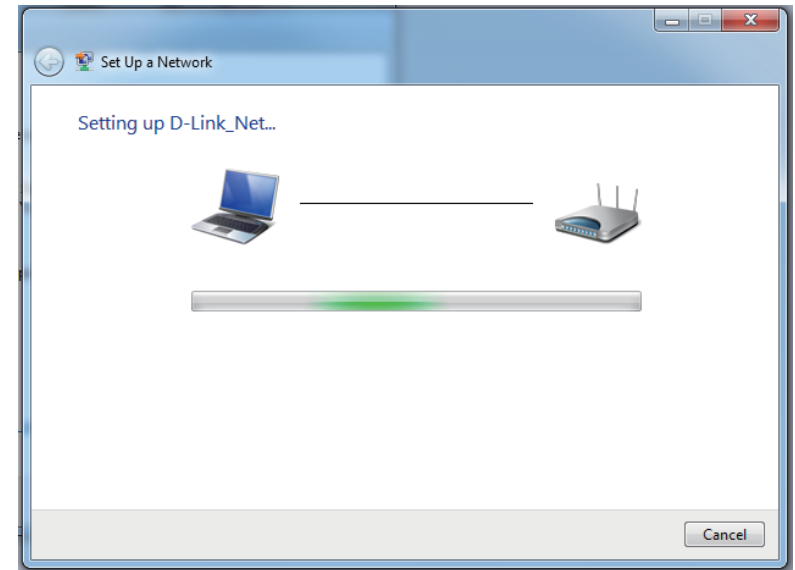
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

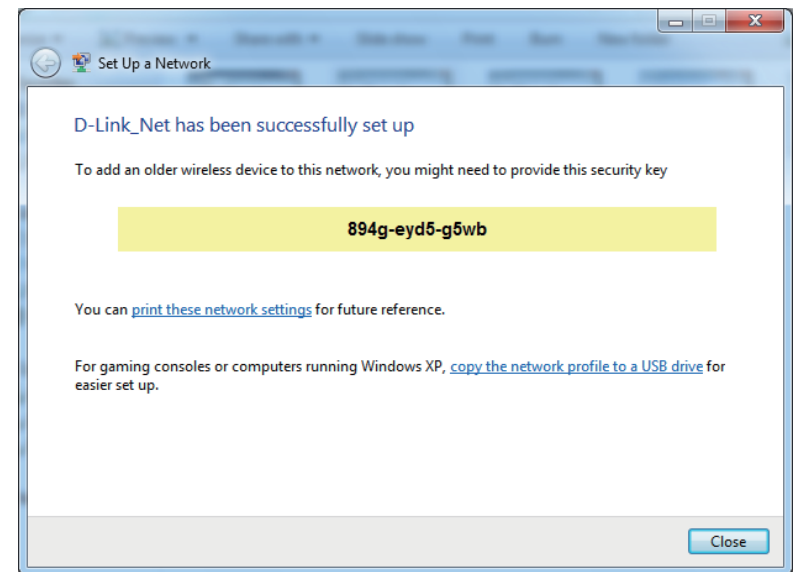
Wait for the configuration to complete.



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.



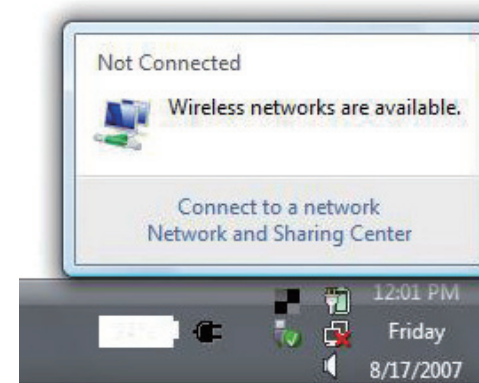
Windows Vista®

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.

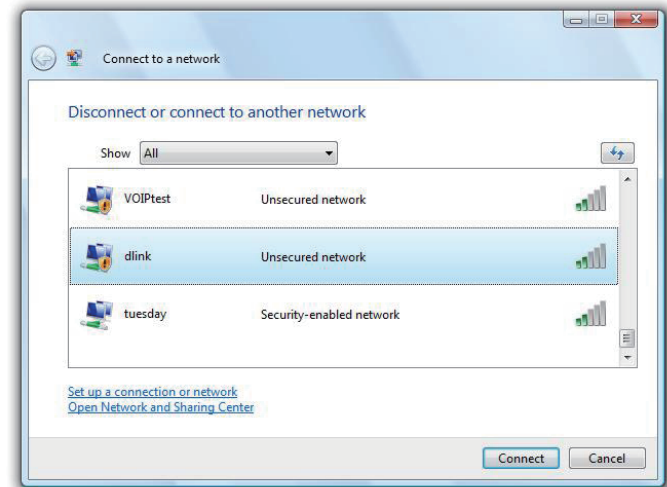
or

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.

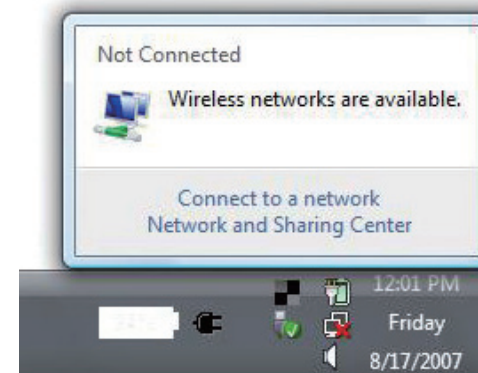
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



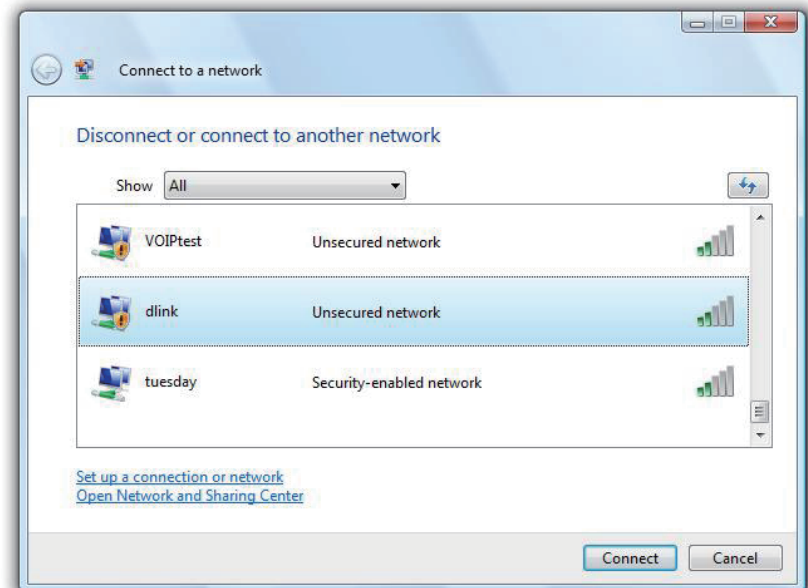
WPA/WPA2

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**.

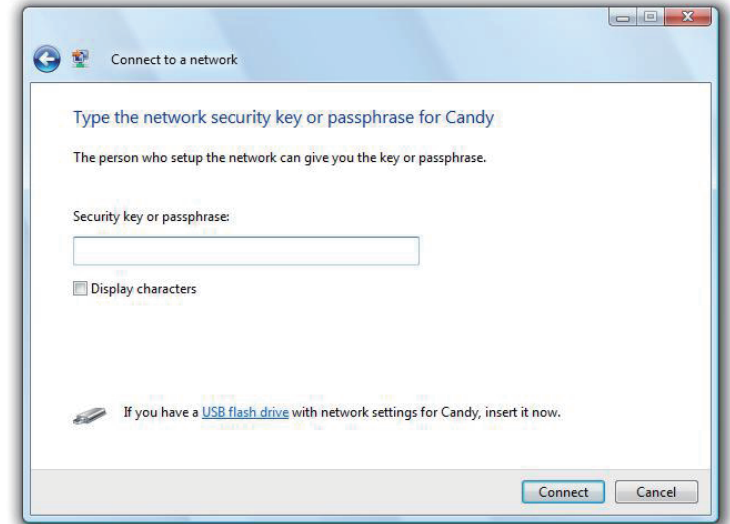


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



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.

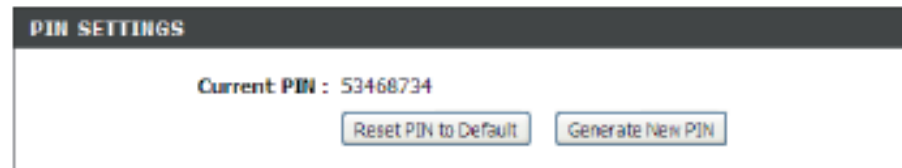


WPS/WCN 2.0

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.

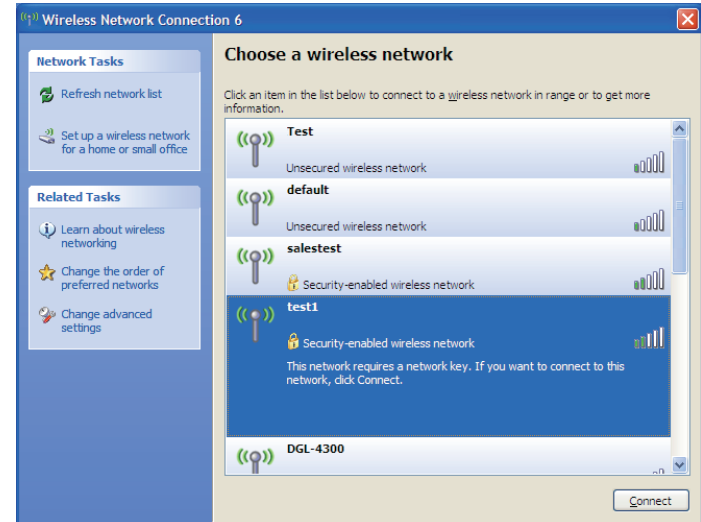
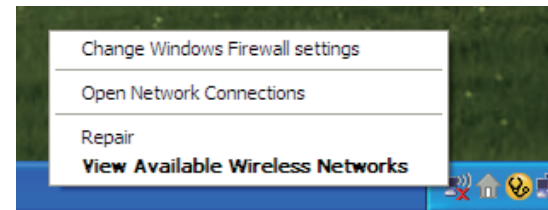
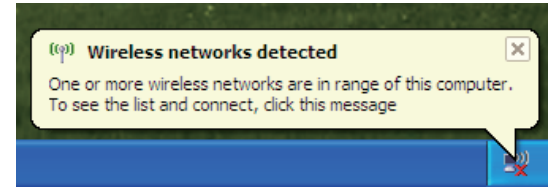
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

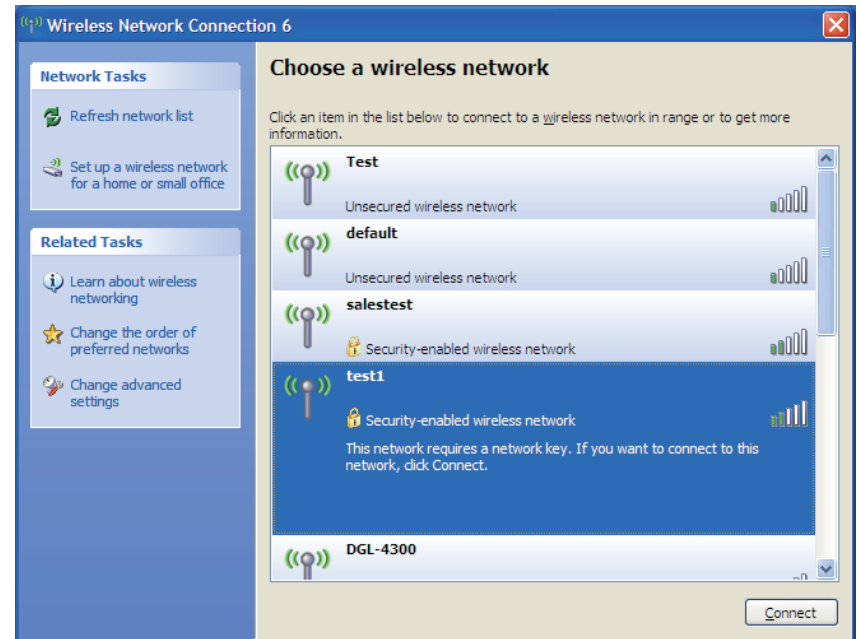
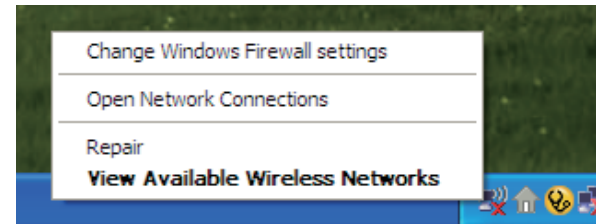
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

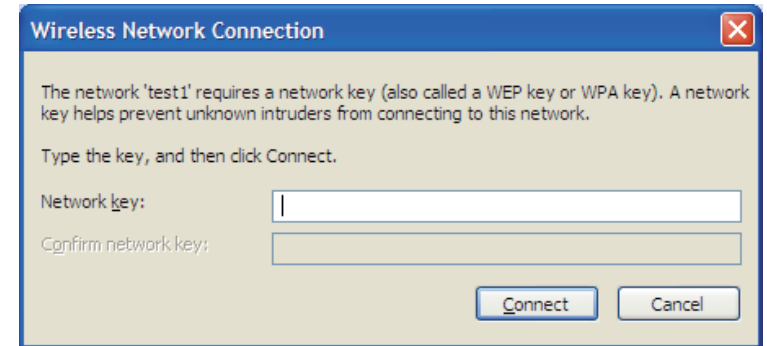
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

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**

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

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

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

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

- Open your browser, enter the IP address of your router (192.168.0.1 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

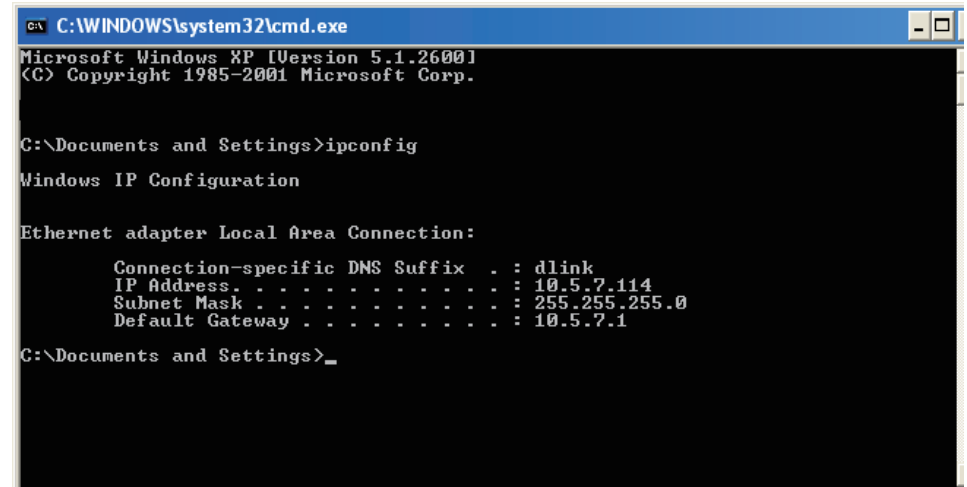
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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]
(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.**

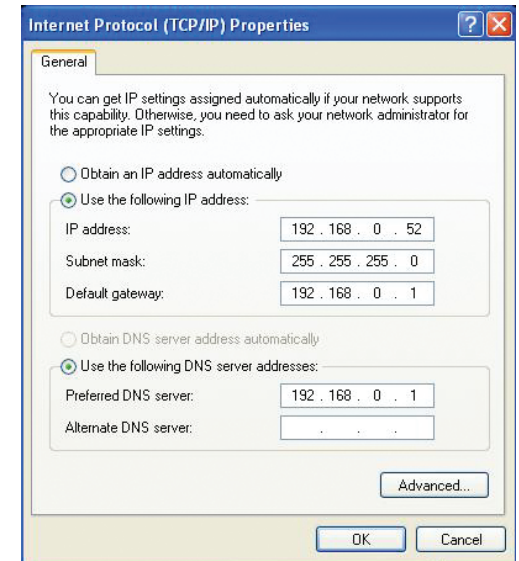
Step 3
Highlight **Internet Protocol (TCP/IP)** and click **Properties.**

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
- Guest Zone Support
- 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.

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

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

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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.

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

TERMS AND CONDITIONS

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“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.

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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.

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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.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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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.

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