



# User Manual

## AC1750 Wi-Fi Router Cloud Router

DIR-866L

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# Preface

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

## Manual Revisions

Revision	Date	Description
1.0	August 26, 2014	• Initial release for Revision A1

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# Package Contents



DIR-866L AC1750 Wi-Fi Router



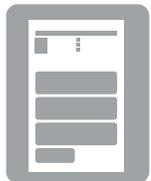
Power Adapter



Ethernet Cable



Wi-Fi Configuration Card



Quick Install Guide

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

**Note:** Using a power supply with a different voltage rating than the one included with the DIR-866L will cause damage and void the warranty for this product.

# Minimum Requirements

<b>Network Requirements</b>	<ul style="list-style-type: none"><li>• An Ethernet-based broadband modem</li></ul>
<b>Web-based Configuration Utility Requirements</b>	<p><b>Computer with the following:</b></p> <ul style="list-style-type: none"><li>• Windows® or Mac OS® X operating system</li><li>• An installed Ethernet adapter or wireless adapter</li></ul> <p><b>Supported Browsers:</b></p> <ul style="list-style-type: none"><li>• Internet Explorer® 7 or higher</li><li>• Firefox®</li><li>• Chrome™</li><li>• Safari® 5 or higher</li></ul> <p><b>Windows® Users:</b> Make sure you have the latest version of Java installed. Visit <a href="http://www.java.com">www.java.com</a> to download the latest version.</p>
<b>mydlink™ Requirements</b>	For mydlink and mydlink app requirements, refer to: <b><a href="http://www.mydlink.com">http://www.mydlink.com</a></b>

# Introduction

The DIR-866L AC1750 Wi-Fi Router provides revolutionary 802.11ac wireless speed - up to 1750Mbps - for flawless HD video streaming to multiple devices.

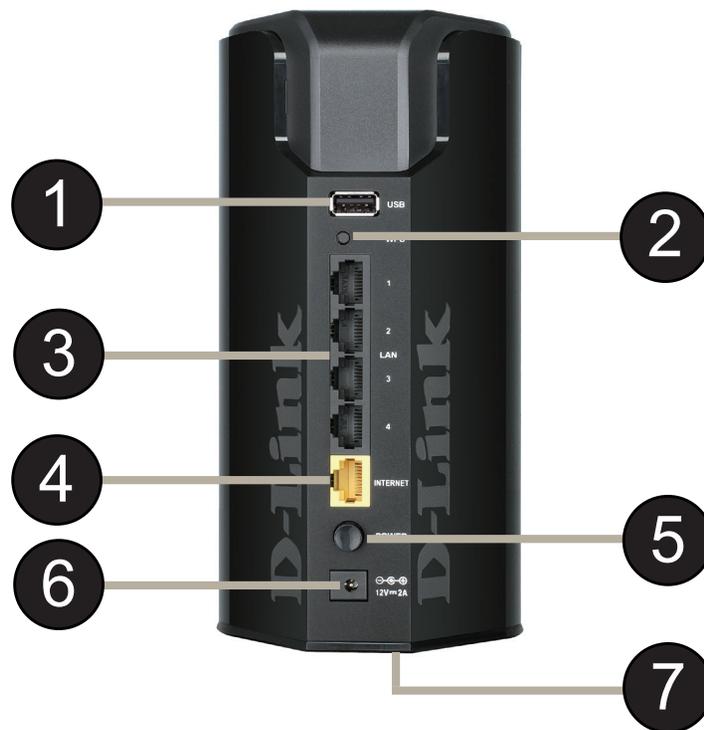
With mydlink™ Cloud Services, you can monitor your home network from anywhere, anytime, using your iPhone, iPad, and Android device(s). Monitor what websites are being visited, block access from unwanted devices, and receive automatic e-mail alerts when unauthorized connections are attempted.

With the mydlink SharePort™ app, you can wirelessly access your media that is stored on a connected USB drive from your mobile devices. Best of all, you can get free apps for network management and file access.

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

# Hardware Overview

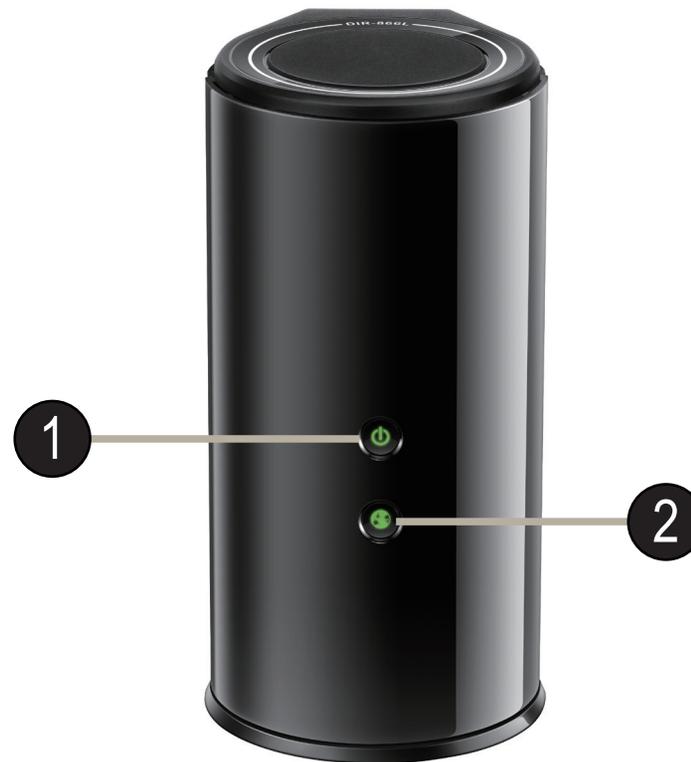
## Connections



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

# Hardware Overview

## LEDs



<b>1</b>	Power LED	A solid green light indicates a proper connection to the power supply. The light will be solid orange during reboot, and will blink green during the WPS process.
<b>2</b>	Internet LED	A solid green light indicates a successful connection to the Internet. If the LED is solid orange, the connection is good but the router cannot connect to the Internet. If the LED is blinking orange, this indicates that the "on demand" connection type is set and the Internet connection is idle.

# Installation

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

## Before you Begin

- Please configure the router with the computer that was last connected directly to your modem.
- **Users with DSL providers** - If you are using a PPPoE connection, you will need your PPPoE user name and password. If you do not have this information, contact your Internet provider. Do not proceed until you have this information.
- **Users with Cable providers** - Make sure you unplug the power to your modem. In some cases, you may need to turn it off for up to five minutes.
- **Advanced Users** - If your ISP provided you with a modem/router combo, you will need to set it to “bridge” mode so the DIR-866L can work properly. For details, contact your ISP or refer to the user manual for your modem/router device.

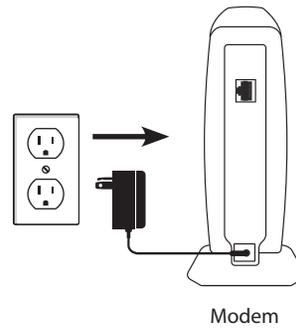
# Wireless Installation Considerations

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

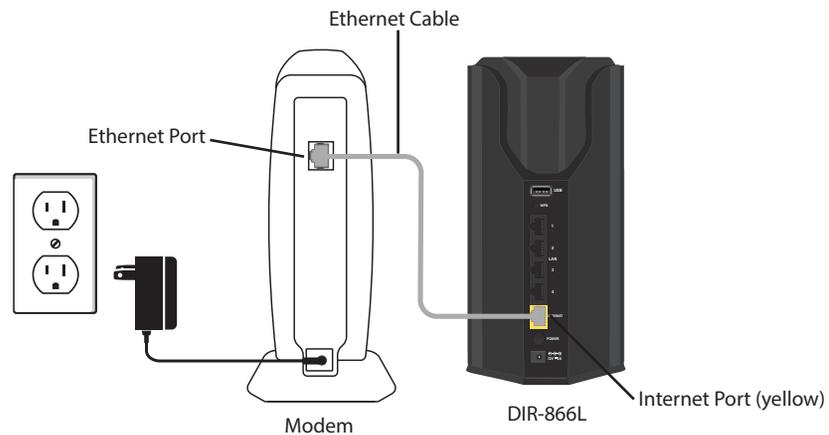
1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between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

# Connect to your Network

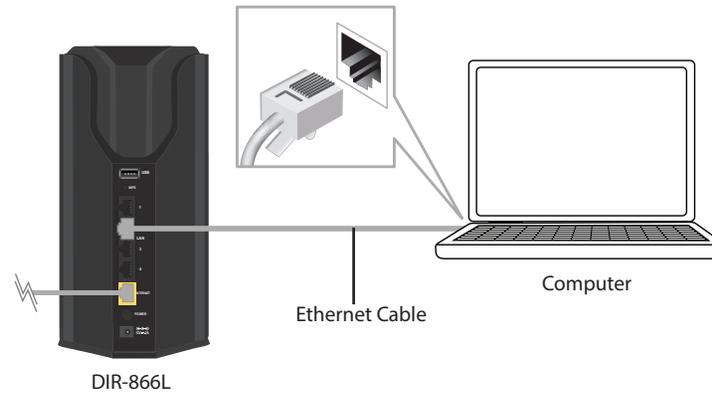
1. Turn off and unplug the power to your DSL or cable modem. This is required.



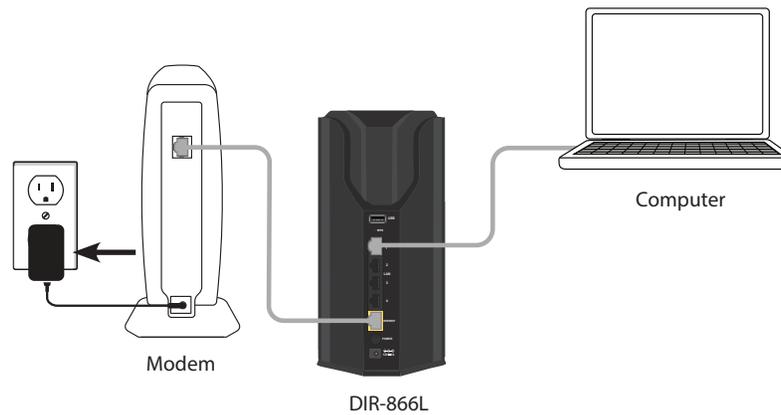
2. Connect an Ethernet cable from the Internet port of the router to the Ethernet port on your DSL or cable modem.



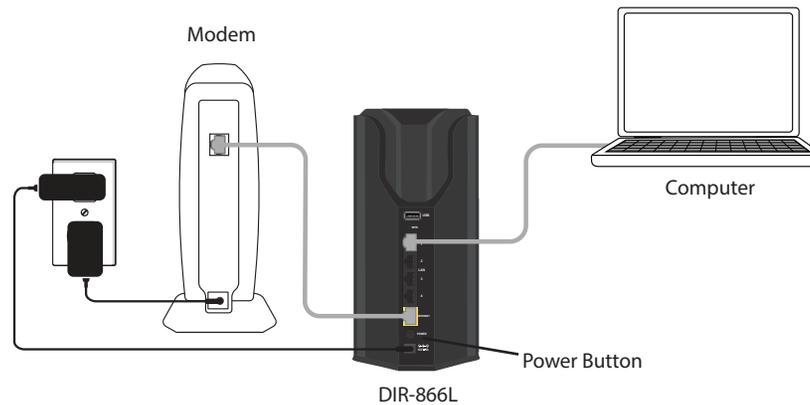
3. Connect another Ethernet cable from the Ethernet port on your computer to one of the LAN ports on the router.



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



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



6. After the router has powered up, verify that the power (green) and Internet (orange or green) LEDs are both lit. Skip to ["Configuration" on page 13](#) to learn about your configuration options.

# Connect to an Existing Router

**Note:** *It is strongly recommended that you replace your existing router with the DIR-866L instead of using both. If your modem is a combo router, you may want to contact your ISP or review the manufacturer's user guide so you can put the router into Bridge mode, which will 'turn off' the router's (NAT) functions.*

If you are connecting the DIR-866L router to an existing router to use as a wireless access point and/or switch, you will have to do the following to the DIR-866L before connecting it to your network:

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

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

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

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

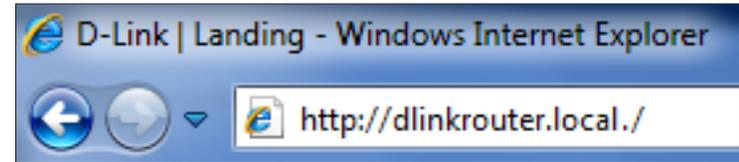
# Configuration

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

- **QRS Mobile App** - Use your iPhone, iPad, or Android device to configure your router. See ["QRS Mobile App" on page 21](#).
- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time. Refer to ["Quick Setup Wizard" on page 14](#).
- **Manual Setup** - Log into the router and manually configure your router (advanced users only). Refer to ["Manual Internet Setup" on page 24](#).

# Quick Setup Wizard

If this is your first time installing the router, launch your web browser (e.g., Internet Explorer, Chrome, Firefox, or Safari). This will automatically launch the *D-Link Setup Wizard*. If the wizard does not start automatically, enter **http://dlinkrouter.local./** or the IP address of the router (**192.168.0.1**).

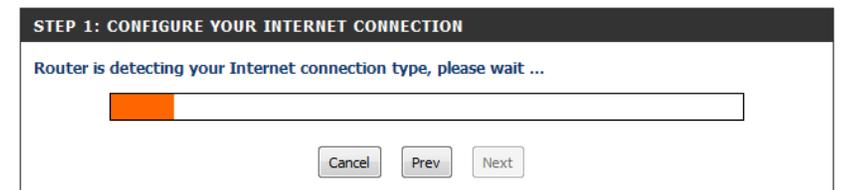


The wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

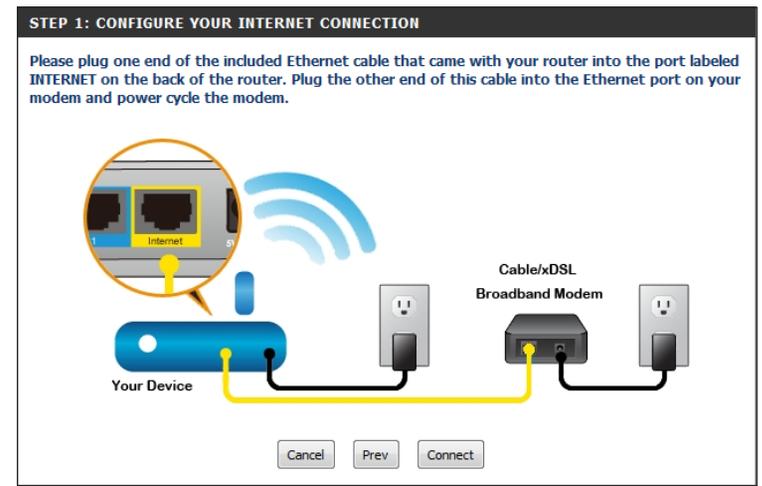
When the *Welcome* screen appears, click **Next** to continue.



Please wait while your router detects your internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password. (See instructions on page 16 for PPPoE, PPTP and L2TP.)



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



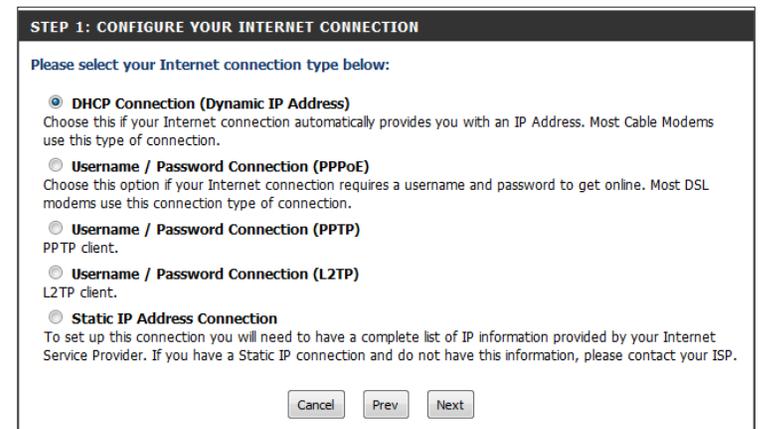
If the router detects an Ethernet connection but does not detect the type of Internet connection you have, this screen will appear. Click **Guide me through the Internet connection settings** to display a list of connection types to choose from.



The router may automatically detect your Internet connection type. If not, select your Internet connection type from the list.

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

Click **Next** to continue.



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

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

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

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

**SET USERNAME AND PASSWORD CONNECTION (PPPOE)**

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

User Name :

Password :

**SET USERNAME AND 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 (may be same as gateway) :

User Name :

Password :

Verify Password :

**DNS SETTINGS**

Primary DNS Address :

Secondary DNS Address :

**SET USERNAME AND PASSWORD CONNECTION (L2TP)**

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

Address Mode :  Dynamic IP  Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

L2TP Server IP Address (may be same as gateway) :

User Name :

Password :

Verify Password :

**DNS SETTINGS**

Primary DNS Address :

Secondary DNS Address :

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

**SET STATIC IP ADDRESS CONNECTION**

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

IP Address :

Subnet Mask :

Gateway Address :

---

**DNS SETTINGS**

Primary DNS Address :

Secondary DNS Address :

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

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

Click **Next** to continue.

**STEP 2: CONFIGURE YOUR WI-FI SECURITY**

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

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

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

---

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

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

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

In order to secure your router, please enter a new **Password**. For added security, check the **Enable Graphical Authentication** box to enable CAPTCHA graphical authentication. Click **Next** to continue.

**STEP 3: SET YOUR PASSWORD**

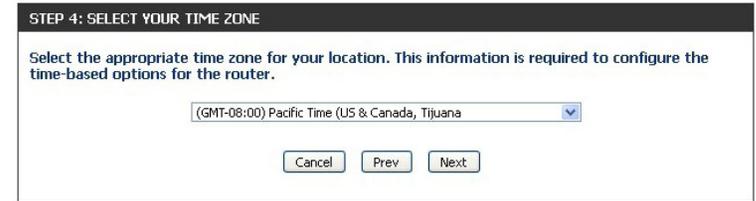
By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below, and enabling CAPTCHA Graphical Authentication provides added security protection to prevent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

Password :

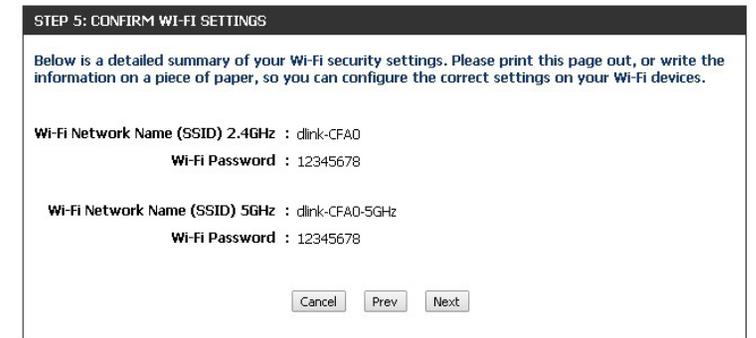
Verify Password :

Enable Graphical Authentication :

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



The *Confirm Wi-Fi Settings* window will display your wireless settings. Write the information down, so you can configure your Wi-Fi devices correctly. Click **Next** to continue.



The *Saving Settings* window will appear. Wait while the router is *checking Internet connectivity*.



You will have the option of creating a bookmark. If you want a bookmark to the *Router Web Management*, click **OK**. If not, click **Cancel**.



**Note:** If you click **OK**, another window may appear, depending on the browser you are using. Follow the instructions to create a bookmark.

To remotely manage your network using the mydlink.com website (with the *mydlink SharePort™* app or the *mydlink Lite* app), you must have an account. Click a radio button to indicate if you already have a mydlink account or if you need to create one. Click **Next** to continue.

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

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

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

**STEP 6: MYDLINK REGISTRATION**

This device is mydlink-enabled, which allows you to remotely monitor and manage your network through the mydlink.com website, or through the mydlink mobile app. You will be able to check your network speeds, see who is connected, view device browsing history, and receive notifications about new users or intrusion attempts.

You can register this device with your existing mydlink account. If you do not have one, you can create one now.

Do you have mydlink account?

Yes, I have a mydlink account.

No, I want to register and login with a new mydlink account.

**STEP 6: MYDLINK REGISTRATION**

E-mail Address (Account Name) :

Password :

**STEP 6: MYDLINK REGISTRATION**

Please fulfill the options to complete the registration.

E-mail Address (Account Name) :

Password :

Confirm Password :

Last name :

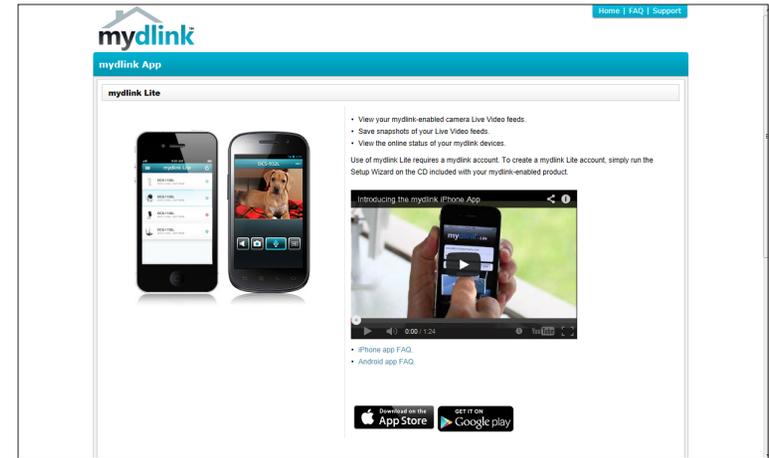
First Name :

[I Accept the mydlink terms and conditions.](#)

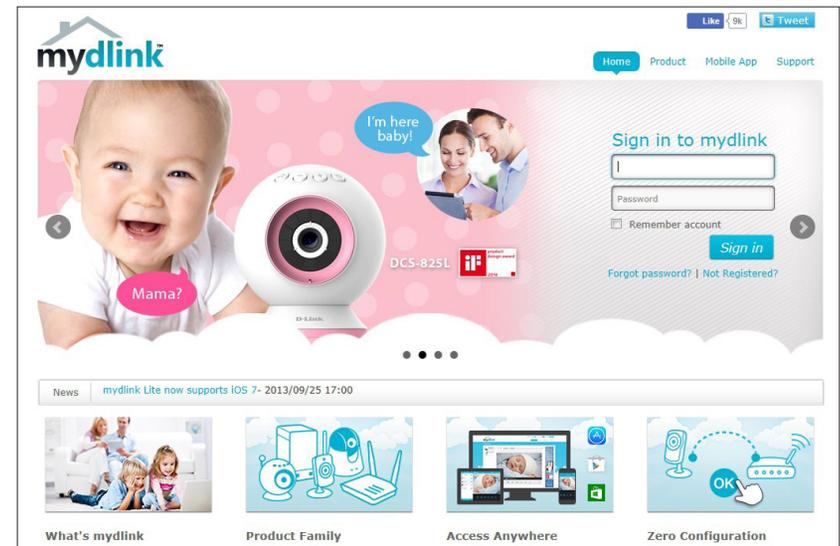
To download the **mydlink Lite** app or the **mydlink SharePort** app, visit the **App Store** or **Google Play**.



For more on *mydlink Lite* go to <https://mydlink.com/apps>.



PC and Mac users can access the mydlink portal at <http://mydlink.com>.



# QRS Mobile App

The QRS Mobile app allows you to install and configure your router from your iPad, iPhone (iOS 4.3 or higher), or Android device.

## Step 1

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

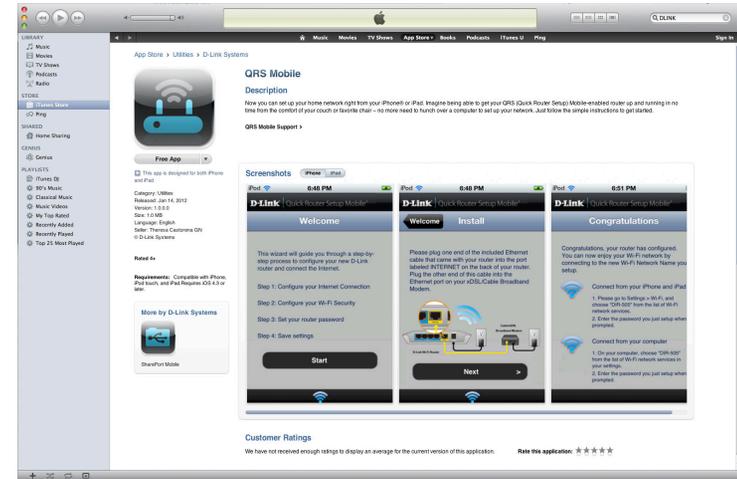
You may also find the app by scanning the QR code below with a QR code reader.



iOS

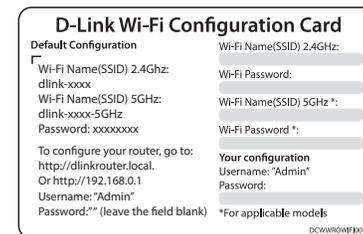


Android



## Step 2

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



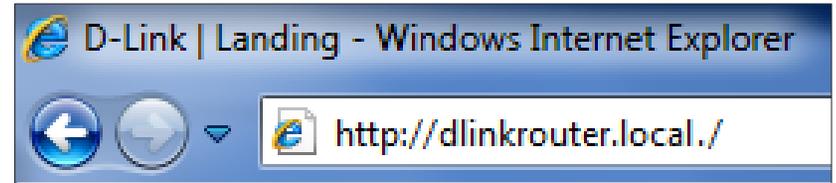
## Step 3

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



# Web-based Configuration Utility

Open a web browser (e.g., Internet Explorer, Chrome, Firefox, or Safari) and enter **http://dlinkrouter.local/** or the IP address of the router (**192.168.0.1**).



Enter your **Password** and click **Login**.

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

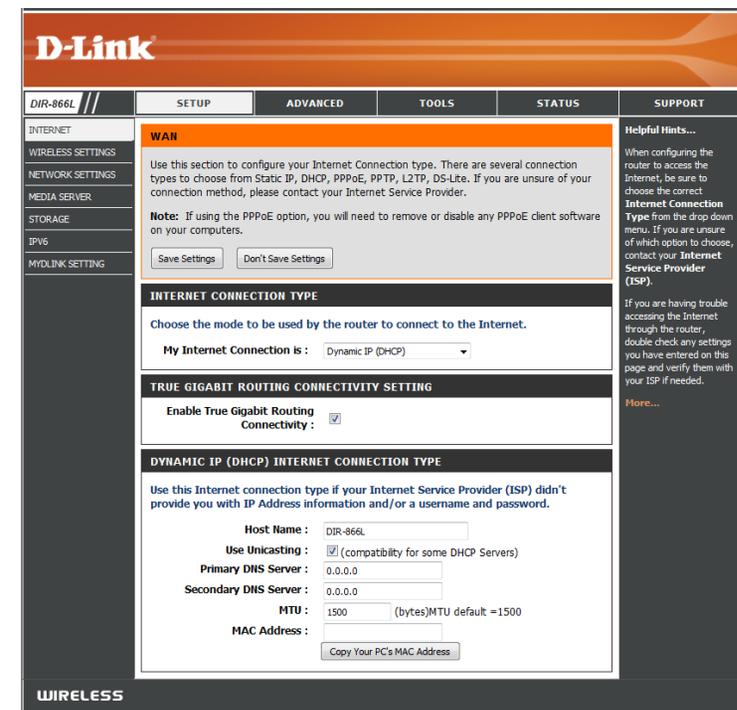
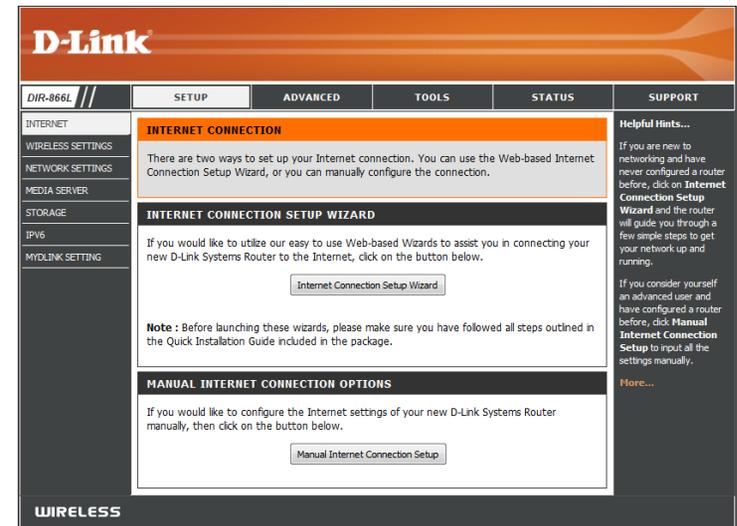
A screenshot of the LOGIN page for the router configuration utility. The page has an orange header with the word "LOGIN" in white. Below the header, the text "Log in to the router" is displayed. There are two input fields: "User Name" with the value "admin" and "Password" which is currently blank. A "Login" button is positioned to the right of the password field.

# Internet Connection Setup

If you want to configure your router to connect to the Internet using the wizard, click **Internet Connection Setup Wizard**. Refer to “[Internet Connection Setup Wizard](#)” on page 32.

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

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



# Manual Internet Setup

## Static (assigned by ISP)

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

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

**True Gigabit Routing Connectivity Setting:** Check the box to **Enable True Gigabit Routing Connectivity**.

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

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

**Default Gateway:** Enter the **Default Gateway** assigned by your ISP.

**DNS Servers:** The DNS server information will be supplied by your ISP.

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

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

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

**WAN**

Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP, DS-Lite. 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 : Static IP

**TRUE GIGABIT ROUTING CONNECTIVITY SETTING**

Enable True Gigabit Routing Connectivity :

**STATIC IP ADDRESS INTERNET CONNECTION TYPE**

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

IP Address : 0.0.0.0

Subnet Mask : 0.0.0.0

Default Gateway : 0.0.0.0

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0

MTU : 1500 (bytes) MTU default = 1500

MAC Address :

Copy Your PC's MAC Address

**Helpful Hints...**

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, contact your **Internet Service Provider (ISP)**.

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**

# Internet Setup

## Dynamic (Cable)

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

**True Gigabit Routing Connectivity Setting:** Check the box to **Enable True Gigabit Routing Connectivity**.

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

**Use Unicasting:** Check the box if you are having problems obtaining an IP address 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 blank if you did not specifically receive these from your ISP.

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

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

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various settings categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, STORAGE, IPV6, and MYLINK SETTING. The main content area is titled 'WAN' and contains the following sections:

- WAN:** A header section with a note: "Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP, DS-Lite. If you are unsure of your connection method, please contact your Internet Service Provider." Below this is a note: "Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." and two buttons: "Save Settings" and "Don't Save Settings".
- INTERNET CONNECTION TYPE:** A section with the instruction "Choose the mode to be used by the router to connect to the Internet." and a dropdown menu labeled "My Internet Connection is:" set to "Dynamic IP (DHCP)".
- TRUE GIGABIT ROUTING CONNECTIVITY SETTING:** A section with a checkbox labeled "Enable True Gigabit Routing Connectivity:" which is checked.
- DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE:** A section with instructions: "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." It includes input fields for:
  - Host Name: DIR-866L
  - Use Unicasting:  (compatibility for some DHCP Servers)
  - Primary DNS Server: 0.0.0.0
  - Secondary DNS Server: 0.0.0.0
  - MTU: 1500 (bytes) (MTU default =1500)
  - MAC Address: with a "Copy Your PC's MAC Address" button.

On the right side, there is a "Helpful Hints..." section with text: "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, contact your Internet Service Provider (ISP)." and a "More..." link.

# Internet Setup

## PPPoE (DSL)

Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP (Internet Service Provider) uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

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

**True Gigabit Routing Connectivity Setting:** Check the box to **Enable True Gigabit Routing Connectivity**.

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

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

**Username:** Enter your PPPoE **Username**.

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

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

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

**Maximum Idle Time:** Enter a **Maximum Idle Time** during which the Internet connection is maintained during inactivity. Enable Auto-reconnect to disable this feature.

**DNS Server Addresses:** Enter the Primary and Secondary DNS Server Addresses of your choice or enter DNS Server Addresses supplied by your ISP.

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

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

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

**INTERNET**

WIRELESS SETTINGS  
NETWORK SETTINGS  
MEDIA SERVER  
STORAGE  
IPv6  
MYDLINK SETTING

**WAN**

Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP, DS-Lite. 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 : PPPoE (Username / Password)

**TRUE GIGABIT ROUTING CONNECTIVITY SETTING**

Enable True Gigabit Routing Connectivity :

**PPPoE INTERNET CONNECTION TYPE**

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

Address Mode :  Dynamic IP (DHCP)  Static IP

IP Address : 0.0.0.0

Username :

Password :

Verify Password :

Service Name :  (Optional)

Reconnect Mode :  Always on  On demand  Manual

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

Primary DNS Address : 0.0.0.0 (Optional)

Secondary DNS Address : 0.0.0.0 (Optional)

MTU : 1492 (bytes) MTU default = 1492

MAC Address :

Clone Your PC's MAC Address

**Helpful Hints...**

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, contact your **Internet Service Provider (ISP)**.

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...

# Internet Setup

## PPTP

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

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

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

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

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

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

**PPTP Server IP Address:** Enter the **Server IP Address** 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. Enable Auto-reconnect to disable this feature.

**DNS Servers:** Enter the Primary and Secondary DNS Server Addresses. The DNS server information will be supplied by your ISP.

The screenshot shows the D-Link router's configuration interface for PPTP. The 'WAN' section is active, and the 'My Internet Connection is' dropdown is set to 'PPTP (Username / Password)'. The 'Address Mode' is set to 'Dynamic IP (DHCP)'. The 'PPTP IP Address' field is empty. The 'PPTP Subnet Mask' field is empty. The 'PPTP Gateway IP Address' field is empty. The 'PPTP Server IP Address' field is empty. The 'Username' field is empty. The 'Password' field is filled with dots. The 'Verify Password' field is filled with dots. The 'Reconnect Mode' is set to 'On demand'. The 'Maximum Idle Time' is set to 5 minutes. The 'Primary DNS Address' field is empty. The 'Secondary DNS Address' field is empty. The 'MTU' is set to 1400 bytes. The 'MAC Address' field is empty. There are 'Save Settings' and 'Don't Save Settings' buttons at the top of the configuration area.

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

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

# Internet Setup

## L2TP

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

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

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

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

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

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

**L2TP Server IP Address:** Enter the **Server IP Address** 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, enable Auto-reconnect.

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

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various settings categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, STORAGE, IPV6, and MYLINK SETTING. The main content area is titled 'WAN' and contains the following sections:

- WAN:** A general introduction to the Internet Connection type configuration, including a note about PPPoE client software.
- INTERNET CONNECTION TYPE:** A section where the user selects the connection mode. The 'My Internet Connection is' dropdown menu is set to 'L2TP (Username / Password)'.
- L2TP INTERNET CONNECTION TYPE:** A section for entering ISP information. It includes:
  - Address Mode:** Radio buttons for 'Dynamic IP (DHCP)' (selected) and 'Static IP'.
  - L2TP IP Address:** Text input field with '0.0.0.0'.
  - L2TP Subnet Mask:** Text input field with '0.0.0.0'.
  - L2TP Gateway IP Address:** Text input field with '0.0.0.0'.
  - L2TP Server IP Address:** Text input field.
  - Username:** Text input field.
  - Password:** Password input field with masked characters.
  - Verify Password:** Password input field with masked characters.
  - Reconnect Mode:** Radio buttons for 'Always on', 'On demand' (selected), and 'Manual'.
  - Maximum Idle Time:** Text input field with '5' and '(minutes, 0=infinite)'.
  - Primary DNS Address:** Text input field with '0.0.0.0'.
  - Secondary DNS Address:** Text input field with '0.0.0.0'.
  - MTU:** Text input field with '1400' and '(bytes)MTU default = 1400'.
  - MAC Address:** Text input field.

On the right side of the interface, there is a 'Helpful Hints...' section with instructions on how to configure the router and troubleshoot connection issues.

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

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

# Internet Setup

## DS-Lite

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

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

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

**AFTR IPv6 Address:** If you selected the **Manual Configuration** option above, enter the **AFTR IPv6 Address** used here.

**B4 IPv4 Address:** Enter the **B4 IPv4 Address** value used here. (Optional.)

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

**IPv6 WAN Default Gateway** Once connected, the *IPv6 WAN Default Gateway* address will be displayed here.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'D-Link', 'DIR-866L', and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists menu items: 'INTERNET', 'WIRELESS SETTINGS', 'NETWORK SETTINGS', 'MEDIA SERVER', 'STORAGE', 'IPv6', and 'MYLINK SETTING'. The main content area is titled 'WAN' and contains the following configuration options:

- INTERNET CONNECTION TYPE:** Choose the mode to be used by the router to connect to the Internet. My Internet Connection is: DS-Lite (selected).
- AFTR ADDRESS INTERNET CONNECTION TYPE:** Enter the AFTR address information provided by your Internet Service Provider(ISP).
  - DS-Lite Configuration:** DS-Lite DHCPv6 Option (selected) / Manual Configuration
  - AFTR IPv6 Address:** [Empty text box]
  - B4 IPv4 Address:** 192.0.0. [Optional checkbox]
  - WAN IPv6 Address:** [Empty text box]
  - IPv6 WAN Default Gateway:** FE80::218:E7FF:FECD:6975

Buttons for 'Save Settings' and 'Don't Save Settings' are visible. A 'Helpful Hints...' section on the right provides additional guidance.

# Internet Connection Setup Wizard

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

**INTERNET CONNECTION**

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

**INTERNET CONNECTION SETUP WIZARD**

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

Internet Connection Setup Wizard

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

**MANUAL INTERNET CONNECTION OPTIONS**

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

Manual Internet Connection Setup

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

Click **Next** to continue.

**WELCOME TO THE D-LINK SETUP WIZARD**

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

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

Cancel Prev Next Connect

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

**STEP 1: 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:

Password :

Verify Password :

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.

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

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

**STEP 3: CONFIGURE YOUR INTERNET CONNECTION**

Please select your 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)**  
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.
- 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.
- 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.

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

**DHCP CONNECTION (DYNAMIC IP ADDRESS)**

To set up this connection, please make sure that you are connected to the D-Link 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 D-Link Router.

**MAC Address :**  (Optional)

**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.

**DNS SETTINGS**

**Primary DNS Address :**

**Secondary DNS Address :**

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

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

**SET USERNAME AND PASSWORD CONNECTION (PPPOE)**

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

**Address Mode :**  Dynamic IP  Static IP

**IP Address :**

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

### SET USERNAME AND 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  
(may be same as gateway) :

User Name :

Password :

Verify Password :

### DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

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

### SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

Address Mode :  Dynamic IP  Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

L2TP Server IP Address  
(may be same as gateway) :

User Name :

Password :

Verify Password :

### DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

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

**SET STATIC IP ADDRESS CONNECTION**

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

IP Address : 0.0.0.0  
Subnet Mask : 0.0.0.0  
Gateway Address : 0.0.0.0

**DNS SETTINGS**

Primary DNS Address : 0.0.0.0  
Secondary DNS Address : 0.0.0.0

Cancel Prev **Next** Connect

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

**SETUP COMPLETE!**

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

Cancel Prev Next **Connect**

You will see this screen while settings are being saved. When the countdown reached 0 seconds, click on **Continue**.

The new settings have been saved....Please wait 48 seconds.

Continue

# Wireless Settings

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

Click **Add Wireless Device with WPS** if you want to add a wireless device using Wi-Fi Protected Setup (WPS). Refer to [“Add Wireless Device with WPS Wizard” on page 40](#).

Click **Manual Wireless Network Setup** if you want to manually configure the wireless settings on your router. Refer to [“Manual Wireless Settings” on page 42](#).

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various settings categories: INTERNET, WIRELESS SETTINGS (highlighted), NETWORK SETTINGS, MEDIA SERVER, STORAGE, IPV6, and MYDLINK SETTING. The main content area is titled "WIRELESS SETTINGS" and contains three wizard sections:

- WIRELESS SETTINGS**: A general introduction stating that web-based wizards assist with wireless network setup and device connection. It advises following the Quick Installation Guide before launching the wizards.
- WIRELESS NETWORK SETUP WIZARD**: A wizard designed to assist with Wi-Fi network setup through step-by-step instructions. It includes a button for "Wi-Fi Connection Setup Wizard" and a note that some changes may require manual adjustments.
- ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD**: A wizard for connecting wireless devices using WPS, with a button for "Add Wireless Device with WPS".
- MANUAL WIRELESS NETWORK SETUP**: A section for manual configuration, warning that it will destroy existing wireless settings. It includes a button for "Manual Wireless Network Setup".

The right sidebar, titled "Helpful Hints ...", provides additional guidance for new users and advanced users, including a "More..." link.

## Wi-Fi Connection Setup Wizard

To run the security wizard, click on **Setup > Wireless Settings**. Click on the **Wi-Fi Connection Setup Wizard** button.

Enter a **Wi-Fi Network Name** for your 2.4GHz wireless networks (SSID). Do not use personal information as your SSID since users with wireless devices within range of your router will be able to see this information. Check the box to manually set the **Network Name** for the 5GHz band.

Then select one of the following options:

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

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

### WIRELESS SETTINGS

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

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

### WIRELESS NETWORK SETUP WIZARD

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

Wi-Fi Connection Setup Wizard

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

### STEP 1 : WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD

Give your network a name, using up to 32 characters.

Wi-Fi Network Name (SSID) 2.4GHz Band :

Manually set 5GHz band Network Name (SSID)

Automatically assign a network key for both 2.4GHz and 5GHz band (Recommended)

To prevent outsiders from accessing your network, the router will automatically assign a security (also called WEP or WPA key) to your network.

Manually assign a network key

Use this options if you prefer to create our own key.

**Note:** All D-Link wireless adapters currently support WPA.

Next

Cancel

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

**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.

<b>2.4GHz Band Wireless Network Name (SSID) :</b>	dlink-B345
<b>Security Mode :</b>	Auto (WPA or WPA2) - Personal
<b>Cipher Type :</b>	TKIP and AES
<b>Pre-Shared Key :</b>	54f5e87babd3e307cc5bc62d2ff9db5e8c4ed3d93930b7cfb3f221c47be5ab38

<b>5GHz Band Wireless Network Name (SSID) :</b>	dlink-B345-5GHz
<b>Security Mode :</b>	Auto (WPA or WPA2) - Personal
<b>Cipher Type :</b>	TKIP and AES
<b>Pre-Shared Key :</b>	072fea55b075941f367b00a495d9b4593ad924fac62c8ed90fdb237767806751

If you selected **Manually**, the following screen will appear. Check the box if you want to use the same password for both the 2.4GHz and 5GHz bands. Create a passphrase for your security password. Click **Next** to continue. You will see the *Setup Complete* screen like the one above.

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

**STEP 2 SET YOUR WIRELESS SECURITY PASSWORD**

You have selected your security level - you will need to set a wireless security password.

The WPA (Wi-Fi Protected Access) key must meet one of following guidelines:

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)
- Exactly 64 characters using 0-9 and A-F

Use the same Wireless Security Password on both 2.4GHz and 5GHz band.

**2.4GHz Band Wireless Security Password :**

**5GHz Band Wireless Security Password :**

**Note:** You will need to enter the same password as keyed in this step into your wireless clients in order to enable proper wireless communication.

## Add Wireless Device with WPS Wizard

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

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

If you select **Manual**, after you click **Next** a settings summary screen will appear. Write down the security key and enter this on your wireless clients. Click **OK** to finish.

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

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

**STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK**

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

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

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

**STEP 2: CONNECT YOUR WIRELESS DEVICE**

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.

2.4GHz Band SSID: <b>dlink-B345</b>
Security Mode: <b>Auto (WPA or WPA2) - PSK</b>
Cipher Type: <b>BOTH</b>
Pre-shared Key: <b>nuxrr16379</b>

5GHz Band SSID: <b>dlink-B345-5GHz</b>
Security Mode: <b>Auto (WPA or WPA2) - PSK</b>
Cipher Type: <b>BOTH</b>
Pre-shared Key: <b>nuxrr16379</b>

If you selected **Auto** you will have two choices:

- **PIN:** Select this option to use PIN method. In order to use this method you must know the wireless client's 8 digit PIN and click **Connect**.
- **PBC:** Select this option to use PBC (Push Button) method to add a wireless client. Click **Connect**.

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

Go to **Status > Wireless** to review the details for the wireless clients that are connected to your wireless router.

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

There are two ways to add wireless device to your wireless network

-PIN (Personal Identification Number)

-PBC (Push Button Configuration)

**PIN :**

please enter the PIN from your wireless device and click the below "Connect" Button

**PBC**

please press the push button on your wireless device and click the below "Connect" Button within 120 seconds

**ADD WIRELESS DEVICE WITH WPS**

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within **118** seconds ...

D-Link

DIR-866L //	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT										
DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPV6 IPV6 ROUTING	<p><b>WIRELESS</b></p> <p>Use this option to view the wireless clients that are connected to your wireless router.</p> <p><b>NUMBER OF WIRELESS CLIENTS - 2.4GHZ BAND: 1</b></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>MAC Address</th> <th>IP Address</th> <th>Mode</th> <th>Rate</th> <th>Signal(%)</th> </tr> </thead> <tbody> <tr> <td>ca:d3:a3:a6:7b:63</td> <td>192.168.0.101</td> <td>802.11n</td> <td>100M</td> <td>100</td> </tr> </tbody> </table> <p><b>NUMBER OF WIRELESS CLIENTS - 5GHZ BAND:</b></p>				MAC Address	IP Address	Mode	Rate	Signal(%)	ca:d3:a3:a6:7b:63	192.168.0.101	802.11n	100M	100	<p><b>Helpful Hints...</b></p> <p>This is a list of all wireless clients that are currently connected to your wireless router.</p> <p><a href="#">More...</a></p>
MAC Address	IP Address	Mode	Rate	Signal(%)											
ca:d3:a3:a6:7b:63	192.168.0.101	802.11n	100M	100											

# Manual Wireless Settings

## 2.4GHz (802.11 n/g)

From **Setup > Wireless Settings**, click **Manual Wireless Network Setup** if you want to manually configure the wireless settings on your router. Make your selections for both the 2.4GHz (802.11 n/g) and the 5GHz (802.11 ac/n/a) wireless bands.

**Enable Wireless:** Check the box to **Enable** the wireless function for the 2.4GHz wireless band.

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

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

**802.11 Mode:** Select one of the following:

**802.11b Only** - If all of your wireless clients are 802.11b.

**802.11g Only** - If all of your wireless clients are 802.11g.

**802.11n Only** - If all of your wireless clients are 802.11n.

**Mixed 802.11g and 802.11b** - If you are using both 802.11g and 802.11b wireless clients.

**Mixed 802.11n and 802.11g** - If you are using both 802.11n and 802.11g wireless clients.

**Mixed 802.11n, 802.11g, and 802.11b** - If you are using a mix of 802.11n, 802.11g, and 802.11b wireless clients.

**Enable Auto Channel Scan:** Check the box to **Enable Auto Channel Scan**. This will allow the DIR-866L to choose the channel with the least amount of interference.

**Wireless Channel:** Indicates the channel setting for the DIR-866L. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. When you check **Enable Auto Channel Scan**, this option will be greyed out.

**Channel Width:** Select one of the following:

**Auto 20/40MHz** - Select if you are using both 802.11n and non-802.11n wireless clients.

**20MHz** - Select if you are not using any 802.11n wireless clients.

**Visibility Status:** Select **Invisible** if you do not want the SSID of your wireless network broadcasted by the DIR-866L. If **Invisible** is selected, the SSID of the DIR-866L will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-866L in order to connect to it.

**Security Mode:** Refer to [“Wireless Security” on page 44](#) for more information regarding wireless security.

The screenshot shows the D-Link DIR-866L web interface. The main navigation tabs are SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The current page is 'WIRELESS NETWORK SETTINGS' for the 2.4GHz band. The interface includes a sidebar with navigation options like INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, STORAGE, IPV6, and MYDLINK SETTING. The main content area is divided into several sections:

- WIRELESS SECURITY MODE:** Includes a 'Helpful Hints ...' section on the right and a 'Security Mode' dropdown set to 'WPA-Personal'. A note explains that WPA provides a higher level of security than WEP.
- WPA:** Includes a 'WPA Mode' dropdown set to 'Auto (WPA or WPA2)', a 'Cipher Type' dropdown set to 'TKIP and AES', and a 'Group Key Update Interval' set to '3600 (seconds)'. A note explains that WPA2 Only security mode provides better performance.
- PRE-SHARED KEY:** Includes a 'Pre-Shared Key' field with a masked input.

The 'WIRELESS NETWORK SETTINGS' section contains the following configuration options:

- Wireless Band:** 2.4GHz Band
- Enable Wireless:**  Always (with a 'New Schedule' button)
- Wireless Network Name:** dlink-8345 (Also called the SSID)
- 802.11 Mode:** Mixed 802.11n, 802.11g and 802.11b
- Enable Auto Channel Scan:**
- Wireless Channel:** 2.437 GHz - Ch 6
- Channel Width:** Auto 20/40 MHz
- Visibility Status:**  Visible  Invisible

## 5GHz (802.11ac/n/a)

**Enable Wireless:** Check the box to **Enable** the wireless function for the 5GHz wireless band.

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

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

**802.11 Mode:** Select one of the following:

**802.11n Only** - If all of your wireless clients are 802.11n.

**802.11ac Only** - If all of your wireless clients are 802.11ac.

**Mixed 802.11n and 802.11a** - If you are using both 802.11n and 802.11a wireless clients.

**Mixed 802.11ac and 802.11n** - If you are using both 802.11ac and 802.11n wireless clients.

**Mixed 802.11ac, 802.11n and 802.11a** - If you are using a mix of 802.11ac, 802.11n, and 802.11a wireless clients.

**Enable Auto Channel Scan:** Check the box to **Enable Auto Channel Scan**. This will allow the DIR-866L to choose the channel with the least amount of interference.

**Wireless Channel:** Indicates the channel setting for the DIR-866L. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you check **Enable Auto Channel Scan**, this option will be greyed out.

**Channel Width:** Select one of the following:

**20MHz** - Select if you are not using any 802.11n wireless clients.

**Auto 20/40MHz** - This is the default setting. Select if you are using both 802.11n and non-802.11n wireless devices.

**Auto 20/40/80MHz** - Select if you are using 802.11ac, 802.11n and non-802.11n wireless devices. This option is only available when the 802.11 Mode is set to Mixed 802.11ac.

**Visibility Status:** Select **Invisible** if you do not want the SSID of your wireless network broadcasted by the DIR-866L. If **Invisible** is selected, the SSID of the DIR-866L will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-866L in order to connect to it.

**Security Mode:** Refer to [“Wireless Security” on page 44](#) for more information regarding wireless security.

WIRELESS NETWORK SETTINGS

**Wireless Band :** 5GHz Band

**Enable Wireless :**  Always New Schedule

**Wireless Network Name :** dlink-B345-5GHz (Also called the SSID)

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

**Enable Auto Channel Scan :**

**Wireless Channel :** 5,200 GHz - CH 40

**Channel Width :** Auto 20/40/80 MHz

**Visibility Status :**  Visible  Invisible

WIRELESS SECURITY MODE

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

**Security Mode :** WPA-Personal

WPA

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

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

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

**Cipher Type :** TKIP and AES

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

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 :**

# Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-866L offers the following types of security:

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

## What is WPA?

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

The 2 major improvements over WEP:

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

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

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

## Configure WPA/WPA2-Personal (PSK)

We suggest that you enable wireless security on your wireless router before your wireless network adapters. Establish wireless connectivity before enabling encryption.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (**192.168.0.1**). Click on **Setup** and then click **Wireless Settings** on the left side.
2. Next to *Security Mode*, select **WPA-Personal**.
3. Next to *WPA Mode*, select **Auto (WPA or WPA2)**, **WPA2 Only**, or **WPA Only**. Use **Auto** if you have wireless clients using both WPA and WPA2.
4. Next to *Cypher Type*, select **TKIP and AES**, **TKIP**, or **AES**.
5. Next to *Group Key Update Interval*, enter the amount of time before the group key used for broadcast and multicast data is changed (3600 is default).
6. Next to *Pre-Shared Key*, enter a key (passphrase). The key is entered as a passphrase in ASCII format at both ends of the wireless connection. The passphrase must be between 8-63 characters.
7. Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WPA-PSK on your adapter and enter the same passphrase as you did on the router.

**WIRELESS SECURITY MODE**

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

**Security Mode :**

---

**WPA**

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 :**

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

---

**PRE-SHARED KEY**

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

**Pre-Shared Key :**

## Configure WPA/WPA2-Enterprise (RADIUS)

We suggest that you enable wireless security on your wireless router before your wireless network adapters. Establish wireless connectivity before enabling encryption.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (**192.168.0.1**). Click on **Setup** and then click **Wireless Settings** on the left side.
2. Next to *Security Mode*, select **WPA-Enterprise**.
3. Next to *WPA Mode*, select **Auto(WPA or WPA2)**, **WPA2 Only**, or **WPA Only**. Use **Auto** if you have wireless clients using both WPA and WPA2.
4. Next to *Cypher Type*, select **TKIP and AES**, **TKIP**, or **AES**.
5. Next to *Group Key Update Interval*, enter the amount of time before the group key used for broadcast and multicast data is changed (3600 is default).
6. Next to *Authentication Timeout*, enter a value (in minutes).
7. Next to *RADIUS Server IP Address* enter the **IP Address** of your RADIUS server.
8. Next to *RADIUS Server Port*, enter the port you are using with your RADIUS server. 1812 is the default port.

**WIRELESS SECURITY MODE**

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

**Security Mode :**

---

**WPA**

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 :**

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

---

**EAP (802.1X)**

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

**Authentication Timeout :**  (minutes)

**RADIUS server IP Address :**

**RADIUS server Port :**

**RADIUS server Shared Secret :**

**MAC Address Authentication :**

9. Next to *RADIUS Server Shared Secret*, enter the security key.
10. Check the box by *Mac Address Authentication*.
11. Click **Advanced** to enter settings for a secondary (backup) RADIUS Server.
12. Click **Save Settings** to save your settings.

### EAP (802.1X)

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

Authentication Timeout :  (minutes)

RADIUS server IP Address :

RADIUS server Port :

RADIUS server Shared Secret :

MAC Address Authentication :

[<<Advanced](#)

Optional backup RADIUS server :

Second RADIUS server IP Address :

Second RADIUS server Port :

Second RADIUS server Shared Secret :

Second MAC Address Authentication :

# Network Settings

From this screen, you can change the local network settings of the router and configure DHCP settings. If you have devices on your network that must have a fixed IP address, you can create a DHCP reservation. Refer to [“DHCP Reservation” on page 51](#).

## Router Settings

**Router IP Address:** Enter the **IP Address** of the DIR-866L. The default IP address is 192.168.0.1.

If you change the IP address here, once you click **Save Settings**, you must enter the new IP address in your browser to get back into the router’s configuration utility.

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

**Device Name:** Enter a name for the router.

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

**Enable DNS Relay:** If you leave the box checked, your computers will use the router’s built-in DNS server. Uncheck the box to transfer the DNS server information from your ISP to your computers.

Click **Save Settings**.

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DIR-866L //

SETUP   ADVANCED   TOOLS   STATUS   SUPPORT

INTERNET  
WIRELESS SETTINGS  
NETWORK SETTINGS  
MEDIA SERVER  
STORAGE  
IPv6  
MYLINK SETTING

**NETWORK SETTINGS**

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

Save Settings   Don't Save Settings

**ROUTER SETTINGS**

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

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

**DHCP SERVER SETTINGS**

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

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

**ADD DHCP RESERVATION**

Enable :   
Computer Name : << Computer Name >>  
IP Address :  
MAC Address :  
Copy Your PC's MAC Address  
Add   Clear

**Helpful Hints...**

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.

If you have devices on your network that should always have fixed IP addresses, add a **DHCP Reservation** for each such device.

More...

## DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DIR-866L has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to **Obtain an IP Address Automatically**. When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DIR-866L. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

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

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

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

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

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

**NetBIOS Announcement:** NetBIOS allows LAN hosts to discover all other computers within the network. Check the box to allow the DHCP Server to offer NetBIOS configuration settings.

**Learn NetBIOS from WAN:** If you enable NetBIOS Announcement, you will also be able to enable this feature. Check the box to allow WINS information to be learned from the WAN side automatically.

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

### DHCP SERVER SETTINGS

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

**Enable DHCP Server :**

**DHCP IP Address Range :**  to

**DHCP Lease Time :**  (minutes)

**Always broadcast :**  (compatibility for some DHCP Clients)

**NetBIOS announcement :**

**Learn NetBIOS from WAN :**

**NetBIOS Scope :**  (Optional)

**NetBIOS node type :**

- Broadcast only (use when no WINS servers configured)
- Point-to-Point (no broadcast)
- Mixed-mode (Broadcast then Point-to-Point)
- Hybrid (Point-to-Point then Broadcast)

**Primary WINS IP Address :**

**Secondary WINS IP Address :**

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

**WINS IP Address:** Enter your Primary and Secondary WINS Server IP address(es).

## DHCP Reservation

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

**Note:** This IP address must be within the DHCP IP Address Range.

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

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

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

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

**Copy Your PC's MAC Address:** You can use the **Copy Your PC's MAC Address** button to replace the Internet port's MAC Address with the MAC address of your Ethernet card.

**Add:** Click **Add** to add your entry. You must click **Save Settings** at the top to activate your reservations.

### DHCP Reservations List

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

**Reserve:** Clicking the link enables the reservation.

**Revoke:** Clicking the link removes the reservation from the list.

**ADD DHCP RESERVATION**

**Enable :**   
**Computer Name :**  << Computer Name ▾  
**IP Address :**   
**MAC Address :**

**DHCP RESERVATIONS LIST**

Enable	Host Name	MAC Address	IP Address
<b>NUMBER OF DYNAMIC DHCP CLIENTS : 2</b>			
MAC Address	Assigned IP	Hostname	Expires
a4:1f:72:5f:f9:fc	192.168.0.100	dlink-PC	Sat May 31 17:45:07 2014 <a href="#">Revoke</a> <a href="#">Reserve</a>
c8:d3:a3:a6:7b:63	192.168.0.101	dlinkap	Sat May 31 17:18:19 2014 <a href="#">Revoke</a> <a href="#">Reserve</a>

**DHCP RESERVATIONS LIST**

Enable	Host Name	MAC Address	IP Address
<b>NUMBER OF DYNAMIC DHCP CLIENTS : 1</b>			
MAC Address	Assigned IP	Hostname	Expires
a4:1f:72:5f:f9:fc	192.168.0.100	dlink-PC	Sat May 31 17:45:07 2014 <a href="#">Revoke</a> <a href="#">Reserve</a>

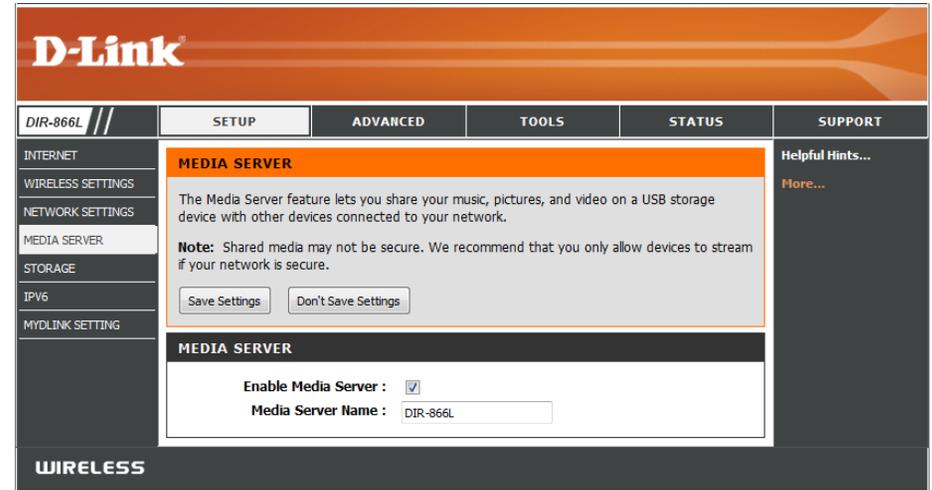
# Media Server

The *Media Server* feature lets you share your music, pictures and video on a USB storage device with other devices connected to your network.

**Enable Media Server:** Click on the **Enable** button to enable the *Media Server* feature.

**Media Server Name:** Enter the **Media Server Name**.

Click **Save Settings**.



The screenshot shows the D-Link DIR-866L 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 settings categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER (highlighted), STORAGE, IPV6, and MYDLINK SETTING. The main content area is titled "MEDIA SERVER" and contains the following text: "The Media Server feature lets you share your music, pictures, and video on a USB storage device with other devices connected to your network." Below this is a note: "Note: Shared media may not be secure. We recommend that you only allow devices to stream if your network is secure." There are two buttons: "Save Settings" and "Don't Save Settings". At the bottom, there is a section for "MEDIA SERVER" with the following configuration options: "Enable Media Server : ", "Media Server Name : DIR-866L". The bottom of the page has a "WIRELESS" section header.

# Storage

SharePort™ Mobile/Web access is an easy way to share access from any computer or mobile device in your home network to files on a USB external hard drive or thumb drive connected to your router.

Click **SharePort Mobile/Web Access Setup Wizard** for step-by-step instructions to assist you in setting up your SharePort Mobile service. Refer to [“SharePort Mobile Setup Wizard” on page 54](#).

Click **SharePort Mobile/Web Access Manual Setup** to set up the Shareport Mobile features manually. Refer to [“SharePort Mobile Manual Setup” on page 56](#).

**D-Link**

DIR-866L //

SETUP    ADVANCED    TOOLS    STATUS    SUPPORT

**STORAGE**

Shareport™ Mobile/Web Access is an easy to use shared access from any computer or mobile device in your home network to an external USB storage drive connected to your router. It allows you and other guest users to access files stored on a USB storage drive via the user account you create.

**SHAREPORT™ MOBILE SETUP WIZARD**

If you would like to utilize our easy to use Web-based Wizards to assist you in setting Shareport™ Mobile service, click on the button below.

Shareport Mobile/Web Access Setup Wizard

**SHAREPORT™ MOBILE MANUAL SETUP**

If you would like to configure Shareport™ Mobile/Web Access service settings manually, please click on the button below.

Shareport Mobile/Web Access Manual Setup

**Helpful Hints...**

Click on **Shareport Mobile/Web Access Setup Wizard** to set up SharePort Mobile through a step by step wizard.

You can also click on **Shareport Mobile/Web Access Manual Setup** to set up the SharePort Mobile features manually.

[More...](#)

**WIRELESS**

## SharePort Mobile Setup Wizard

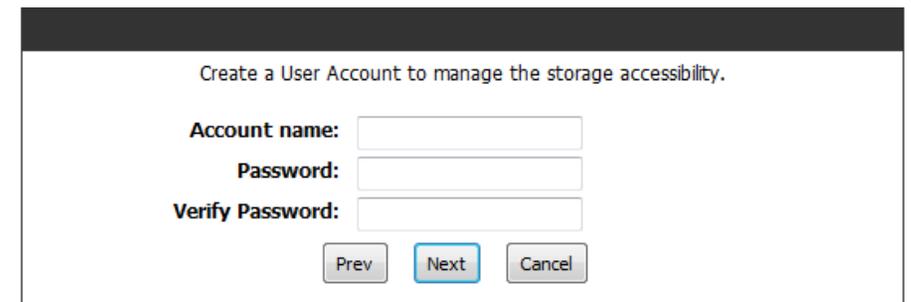
To run the Setup Wizard, click on **Setup > Storage**. Click on the **Shareport Mobile/Web Access Setup Wizard** button. You will see a message reminding you to connect your USB storage to the DIR-866L.

Click **Next**.



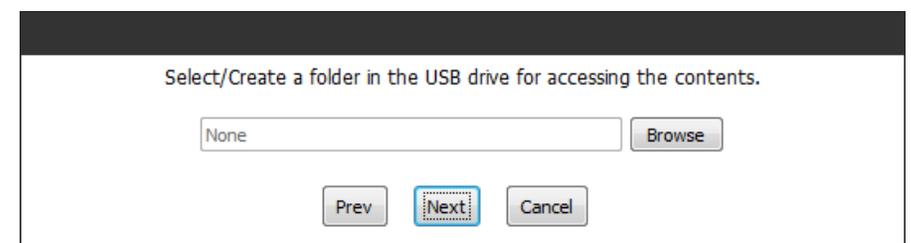
Create a user account to manage access to storage.

Click **Next**.



Click on **Browse** and select a folder on the USB drive for creating a path for access to storage.

Click **Next**.



Fill in Dynamic DNS information to enable remote access to storage.

Click **Next**.

Fill in Dynamic DNS Account information for enabling remote access service. If you don't have DDNS account, please sign up one from here: [www.DlinkDDNS.com](http://www.DlinkDDNS.com)

**Host Name:**

**User Name or key:**

**Password or key:**

SharePort Mobile/Web setup is complete! Click **Save** to save settings and reboot the DIR-866L.

Shareport™ Mobile/Web Access Setup is complete! You can now use below link to access your USB storage via below User Account.

**Local Access:** <http://dlinkrouter:8181> or <http://dlinkrouter.local:8181>

**Account name:** Testing

**Password:** testing

Above links will activate when settings are saved and after device reboot.

## SharePort Mobile Manual Setup

Click on **Setup** > **Storage** and select **SharePort Mobile/Web Access Manual Setup**. This will allow you to set up remote access to files on a USB external hard drive or thumb drive that is plugged into the router, from the Internet using a web browser, or using the SharePort app on your smartphone or tablet. Step-by-step instructions begin on the next page.

**Enable SharePort Web Access:** Check the box to enable file sharing on your USB storage device that is plugged in your router.

**HTTP Access Port:** Enter a port (8181 by default). You will have to enter this port in the URL when connecting to the shared files. For example: (**http://192.168.0.1:8181**).

**HTTPS Access Port:** Enter a port (4433 by default). You will have to enter this port in the URL when connecting to the shared files. For example: (**https://192.168.0.1:4433**).

**Allow Remote Access:** Check this option to allow remote access to this router.

**User Name:** To create a new user, enter a **User Name**.

**Password:** Enter a **Password** for this account.

**Verify Password:** Re-enter the **Password**. Click **Add/Edit** to create the user.

**User List:** Displays the user accounts. The Admin and Guest accounts are built-in to the router.

**Number of Devices:** Displays the USB device(s) plugged into the router.

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various settings categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, STORAGE, IPV6, and MYDLINK SETTING. The main content area is titled 'STORAGE' and contains the following sections:

- STORAGE:** A text block explaining Web File Access and a 'Save Settings' button.
- SHAREPORT WEB ACCESS:** A section with a checked 'Enable SharePort Web Access' checkbox, input fields for 'HTTP Access Port' (8181) and 'HTTPS Access Port' (4433), and an unchecked 'Allow Remote Access' checkbox.
- 10 -- USER CREATION:** A section with input fields for 'User Name', 'Password', and 'Verify Password', along with 'Add/Edit' and 'Delete' buttons.
- USER LIST:** A table listing user accounts with columns for No., User Name, Access Path, and Permission.
 

No.	User Name	Access Path	Permission
1	admin	/	Read/Write
2	guest	None	Read Only
- NUMBER OF DEVICES : 0:** A section with a 'Device' label and 'Total Space' and 'Free Space' indicators.
- STORAGE DEVICE LINK:** A section with a text block explaining how to connect to the drive remotely.

On the right side of the interface, there is a 'Helpful Hints...' section with text: 'The Storage page contains information about the USB storage drives or SD cards currently plugged into the device.'

## Access Files from the Internet

Below are step-by-step instructions on how to access files from the Internet from your USB drive or external hard drive that is connected to your DIR-866L router:

### Step 1 - Enable SharePort Web Access

Under *SharePort Web Access*, check **Enable SharePort Web Access**. The default port for HTTP is 8181 and HTTPS (secure) is 4433. You can change the port(s) for HTTP or HTTPS.

### Step 2 - Create a User Account

Under *User Creation*, enter a **User Name** and **Password**. Verify **Password** and then click **Add/Edit**.

### Step 3 - Configure your Access Path

Under *User List*, click the **Edit** icon for the user you just created. You will see an *Append New Folder* window with the name of the new user in the *User Name* field. Click on **Browse** to locate the folder on your USB storage device or external hard drive for which you want to assign access to the user.

### Step 4 - Save Settings

If you want to add more users, repeat steps 2 and 3. Once you are finished, click the **Save Settings** button at the top of the screen to save your settings.

**Note:** The **Storage Device Link** (at the bottom) will display the URL(s) you can use to connect.

If you want to use HTTPS to get a secure connection, you must type in **HTTPS://** instead of **HTTP://**. Remember to type the port number after the colon. For example, if you selected HTTPS and changed the port to 3200, and your WAN IP address is 1.2.3.4, then you would enter **HTTPS://1.2.3.4:3200** to connect.

**SHAREPORT WEB ACCESS**

Enable SharePort Web Access :

HTTP Access Port :

HTTPS Access Port :

Allow Remote Access :

---

**10 -- USER CREATION**

User Name :  << User Name ▾

Password :

Verify Password :

---

**USER LIST**

: Modify
 : Delete

No.	User Name	Access Path	Permission
1	admin	/	Read/Write
2	guest	None	Read Only
3	Test	None	Read Only

---

**NUMBER OF DEVICES : 0**

Device	Total Space	Free Space

---

**STORAGE DEVICE LINK**

You can use this link to connect to the drive remotely after logging with a user account.

# IPv6

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

For the beginner that has never configured a router before, click on the **IPv6 Internet Connection Setup Wizard** button and the router will guide you through a few simple steps to get your network up and running. (Refer to [“IPv6 Internet Connection Setup Wizard” on page 60.](#))

For the advanced user that has experience with configuring a router, click on the **Manual IPv6 Internet Connection Setup** button to input all the settings manually. (Refer to [“IPv6 Manual Setup” on page 65.](#))

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

The screenshot displays the D-Link web interface for the DIR-866L router. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, MEDIA SERVER, STORAGE, IPV6, and MYDLINK SETTING. The main content area is titled "IPv6 INTERNET CONNECTION" and provides three options:

- IPv6 INTERNET CONNECTION SETUP WIZARD**: A button for users who want to use the Web-based Wizard to assist in connecting their new D-Link Systems Router to the IPv6 Internet.
- MANUAL IPV6 LOCAL CONNECTIVITY SETTINGS**: A button for users who want to configure IPv6 local connectivity settings of their D-Link Router manually.
- MANUAL IPV6 INTERNET CONNECTION SETUP**: A button for users who want to configure the IPv6 Internet settings of their new D-Link Systems Router manually.

On the right side, there is a "Helpful Hints..." section with instructions for beginners and advanced users, and a "More..." link.

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

Click **Save Settings**.

### IPV6 LOCAL CONNECTIVITY SETTINGS

Use this section to configure Unique Local IPv6 Unicast Addresses(ULA) settings for your router. ULA is intended for local communications and not expected to be routable on the global Internet.

### IPV6 ULA SETTINGS

Enable ULA :

Use Default ULA Prefix :

ULA Prefix :  /64

### CURRENT IPV6 ULA SETTINGS

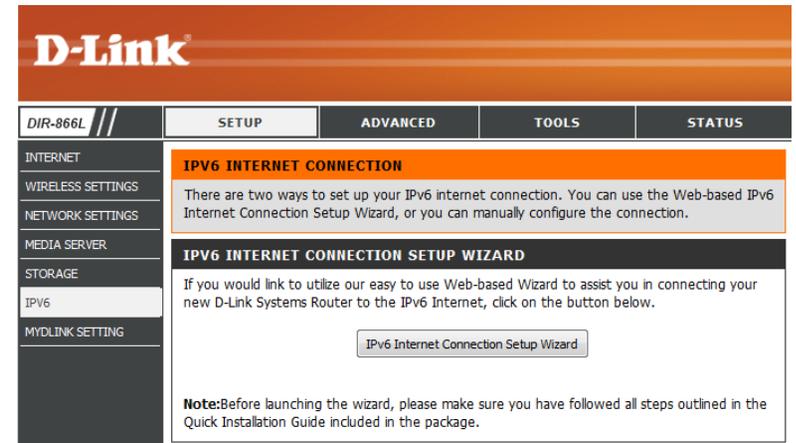
Current ULA Prefix :

LAN IPv6 ULA :

## IPv6 Internet Connection Setup Wizard

Click on **Setup** > **IPv6** and select **IPv6 Internet Connection Setup Wizard**. You can configure the IPv6 connection type using the step-by-step instructions from the setup wizard.

Click **IPv6 Internet Connection Setup Wizard**, and you will be guided through a few simple steps to get your network up and running.



When the Welcome screen appears, click **Next** to continue.



The router will attempt to detect whether its possible to obtain the IPv6 Internet connection type automatically. If this effort is successful, the user will be guided through the input necessary for the connection type found.

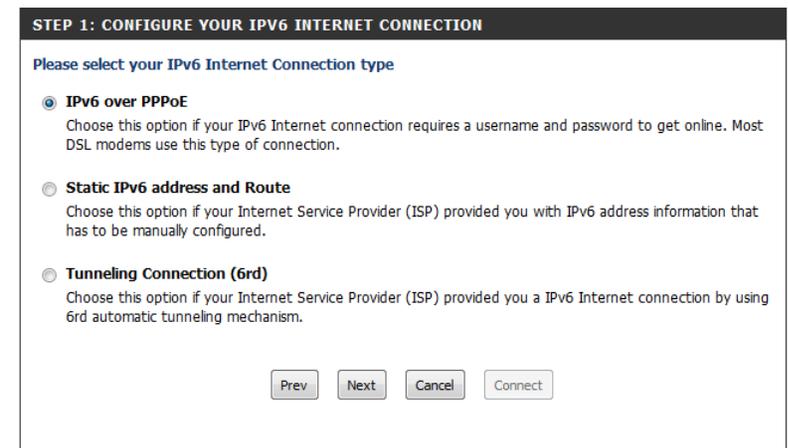
However, if the automatic detection fails, the user will be prompted to either **Try again** or to click on **Guide me through the IPv6 setting**.

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

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

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

Choose the required IPv6 Internet Connection type and click on the **Next** button to continue. (If you click on the **Cancel** button, all changes made will be discarded and you will return to the main page.)



## IPv6 over PPPoE

If you selected the **IPv6 over PPPoE** option, you can configure the IPv6 Internet connection that requires a username and password to get online. Most DSL modems use this type of connection.

The following parameters will be available for configuration:

**PPPoE Session:** The user must choose between a connection that shares its information with the already configured IPv4 connection, or create a new PPPoE connection. If you selected the second option, fill in the fields below.

**Username:** Enter the PPPoE **Username** used here. If you do not know your user name, please contact your ISP.

**Password:** Enter the PPPoE **Password** used here. If you do not know your password, please contact your ISP.

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

**Service Name:** Enter the **Service Name** for this connection here. This field is optional.

Click **Next** to continue.

**SET USERNAME AND PASSWORD CONNECTION (PPPOE)**

To set up this connection you will need to have a Username and Password from your IPv6 Internet Service Provider. If you do not have this information, please contact your ISP.

PPPoE Session :  Share with IPv4  Create a new session

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.

## Static IPv6 Address Connection

This mode is used when your ISP provides you with a set IPv6 address that does not change. Manually enter your IPv6 configuration settings. Your ISP will provide you with all this information.

**Use Link-Local Address:** The Link-local address is used by nodes and routers when communicating with neighboring nodes on the same link. This mode enables IPv6-capable devices to communicate with each other on the LAN side.

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

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

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

**Primary DNS Address:** Enter the WAN **Primary DNS Server** address used here.

**Secondary DNS Address:** Enter the WAN **Secondary DNS Server** address used here.

**LAN IPv6 Address:** These are the settings of the LAN (Local Area Network) IPv6 interface for the router. The router's LAN IPv6 Address configuration is based on the IPv6 Address and Subnet assigned by your ISP. (A subnet with prefix /64 is supported in LAN.)

Click **Next** to continue.

**SET STATIC IPv6 ADDRESS CONNECTION**

To set up this connection you will need to have a complete list of IPv6 information provided by your IPv6 Internet Service Provider. If you have a Static IPv6 connection and do not have this information, please contact your ISP.

Use Link-Local Address :

IPv6 Address :

Subnet Prefix Length :

Default Gateway :

Primary DNS Address :

Secondary DNS Address :

LAN IPv6 Address :  /64

## Tunneling Connection (6rd)

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

The following parameters will be available for configuration:

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

**IPv4 Address:** Displays the **IPv4 Address** used here.

**Mask Length:** Enter the IPv4 **Mask Length** used here.

**Assign IPv6 Prefix Address** If assigned, displays the *Assigned IPv6 Prefix* value here. If not assigned, says *None*.

**Tunnel Link-Local** Displays the *Tunnel Link-Local Address* used here.

**6rd Border Relay IPv4 Address:** Enter the **6rd Border Relay IPv4 Address** used here.

**IPv6 DNS Server:** Enter the primary **IPv6 DNS Server** address used here.

Click **Next** to continue.

The *IPv6 Internet Connection Setup Wizard* is complete. Click on the **Connect** button to save your settings and reboot the router.

## IPv6 Manual Setup

Manually configure your IPv6 connection type. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider (ISP).

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

### Auto Detection

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

Click **Save Settings**.

**IPv6**

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

Save Settings Don't Save Settings

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is : Auto Detection

**IPv6 DNS SETTINGS**

Obtain a DNS server address automatically or enter a specific DNS server address.

Obtain a DNS server address automatically  
 Use the following DNS address

Primary DNS Server :  
Secondary DNS Server :

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

LAN IPv6 Address :  
LAN IPv6 Link-Local Address : FE80::C2A0:BBFF:FEED:B345/64

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN.

Enable automatic IPv6 address assignment :   
Enable Automatic DHCP-PD in LAN :   
Autoconfiguration Type : SLAAC + Stateless DHCPv6  
Router Advertisement Lifetime: 1440 (minutes)

## Static IPv6

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

**WAN IPv6 Address Settings:** Enter the IPv6 address information supplied by your Internet Service Provider (ISP).

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

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

**Enable Automatic IPv6 address assignment:** Check to enable the Autoconfiguration feature.

**Autoconfiguration Type:** Select **SLAAC + RDNSS**, **SLAAC + Stateless DHCPv6**, or **Stateful DHCPv6**.

**IPv6 Address Range Start:** Enter the start IPv6 Address for the DHCPv6 range for your local computers.

**IPv6 Address Range End:** Enter the end IPv6 Address for the DHCPv6 range for your local computers.

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

Click **Save Settings**.

**IPv6**

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

**My IPv6 Connection is :** Static IPv6

**WAN IPv6 ADDRESS SETTINGS**

Enter the IPv6 address information provided by your Internet Service Provider (ISP).

**Use Link-Local Address :**

**IPv6 Address :**

**Subnet Prefix Length :**

**Default Gateway :**

**Primary DNS Server :**

**Secondary DNS Server :**

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

**LAN IPv6 Address :**  /64

**LAN IPv6 Link-Local Address :** FE80::C2A0:BBFF:FEED:B345/64

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

**Enable automatic IPv6 address assignment :**

**Autoconfiguration Type :** SLAAC + Stateless DHCPv6

**Router Advertisement Lifetime:**  (minutes)

## Autoconfiguration

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

**IPv6 DNS Settings:** Select either **Obtain a DNS server address automatically** or **Use the following DNS address**.

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

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

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

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

**Enable automatic IPv6 address assignment:** Check to enable the Autoconfiguration feature.

**Enable Automatic DHCP-PD in LAN:** Check to enable delegation of prefixes for router addresses.

**Autoconfiguration Type:** Select **SLAAC + RDNSS** or **SLAAC + Stateless DHCP**, or **Stateful DHCPv6**.

**IPv6 Address Range Start:** Enter the start IPv6 Address for the DHCPv6 range for your local computers.

**IPv6 Address Range End:** Enter the end IPv6 Address for the DHCPv6 range for your local computers.

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

Click **Save Settings**.

**IPv6**

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

Save Settings    Don't Save Settings

---

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is : Autoconfiguration (SLAAC/DHCPv6)

---

**IPv6 DNS SETTINGS**

Obtain a DNS server address automatically or enter a specific DNS server address.

Obtain a DNS server address automatically  
 Use the following DNS address

Primary DNS Server :

Secondary DNS Server :

---

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

Enable DHCP-PD :

LAN IPv6 Address :  /64

LAN IPv6 Link-Local Address : FE80::C2A0:BBFF:FEED:B345/64

---

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN.

Enable automatic IPv6 address assignment :

Enable Automatic DHCP-PD in LAN :

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime:  (minutes)

## PPPoE

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

**PPPoE Internet Connection Type:** Enter the PPPoE account settings supplied by your Internet provider (ISP).

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

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

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

**Username:** Enter your PPPoE **Username**.

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

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

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

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

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

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

**Primary/Secondary DNS Servers:** Enter the primary and secondary DNS server addresses.

**IPv6**

Use this section to configure your IPv6 Connection Type. If you are unsure of your connection method, please contact your Internet Service Provider.

---

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to connect to the IPv6 Internet.

My IPv6 Connection is :

---

**PPPOE INTERNET CONNECTION TYPE :**

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

**PPPoE Session :**  Share with IPv4  Create a new session  
**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)  
**MTU :**  (bytes) MTU default = 1492

---

**IPv6 DNS SETTINGS**

Obtain DNS server address automatically or enter a specific DNS server address.

Obtain IPv6 DNS Servers automatically  
 Use the following IPv6 DNS Servers  
**Primary DNS Server :**   
**Secondary DNS Server :**

---

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

**Enable DHCP-PD :**   
**LAN IPv6 Address :**  /64  
**LAN IPv6 Link-Local Address :** FE80::C2A0:BBFF:FEED:B345/64

---

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN.

**Enable automatic IPv6 address assignment :**   
**Enable Automatic DHCP-PD in LAN :**   
**Autoconfiguration Type :** SLAAC + Stateless DHCPv6  
**Router Advertisement Lifetime :**  (minutes)

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

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

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

**Enable Automatic IPv6 address assignment:** Check to enable the IPv6 Autoconfiguration.

**Enable Automatic DHCP-PD in LAN:** Check to enable delegation of prefixes for router addresses.

**Autoconfiguration Type:** Select **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**, or **Stateful DHCPv6**.

**IPv6 Address Range Start:** Enter the start IPv6 Address for the DHCPv6 range for your local computers.

**IPv6 Address Range End:** Enter the end IPv6 Address for the DHCPv6 range for your local computers.

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

Click **Save Settings**.

The screenshot displays two configuration sections for IPv6. The first section, titled "LAN IPv6 ADDRESS SETTINGS", includes a checked "Enable DHCP-PD" box, a "LAN IPv6 Address" input field, and a "LAN IPv6 Link-Local Address" field showing the value "FE80::C2A0:BBFF:FEED:B345/64". The second section, titled "ADDRESS AUTOCONFIGURATION SETTINGS", includes checked boxes for "Enable automatic IPv6 address assignment" and "Enable Automatic DHCP-PD in LAN", a dropdown menu for "Autoconfiguration Type" set to "SLAAC + Stateless DHCPv6", and a "Router Advertisement Lifetime" input field set to "1440 (minutes)".

## IPv6 in IPv4 Tunnel

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

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

**IPv6 DNS Settings:** Select either **Obtain a DNS server address automatically** or **Use the following DNS address**.

**Primary/Secondary IPv6 DNS Servers:** Enter the primary and secondary DNS server addresses.

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

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

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

**Enable Automatic IPv6 Address Assignment:** Check to enable the Autoconfiguration feature.

**Enable Automatic DHCP-PD in LAN:** Check to enable delegation of prefixes for router addresses.

**Autoconfiguration Type:** Select **SLAAC + RDNSS** or **SLAAC + Stateless DHCP**, or **Stateful DHCPv6**.

**IPv6 Address Range Start:** Enter the start IPv6 Address for the DHCPv6 range for your local computers.

**IPv6 Address Range End:** Enter the end IPv6 Address for the DHCPv6 range for your local computers.

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

Click **Save Settings**.

**IPv6**

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

---

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is : IPv6 in IPv4 Tunnel

---

**IPv6 in IPv4 TUNNEL SETTINGS**

Enter the IPv6 in IPv4 Tunnel information provided by your Tunnel Broker.

Remote IPv4 Address :

Remote IPv6 Address :

Local IPv4 Address : **192.168.10.100**

Local IPv6 Address :

---

**IPv6 DNS SETTINGS**

Obtain a DNS server address automatically or enter a specific DNS server address.

Obtain a DNS server address automatically  
 Use the following DNS address

Primary DNS Server :

Secondary DNS Server :

---

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

Enable DHCP-PD :

LAN IPv6 Address :  /64

LAN IPv6 Link-Local Address : **FE80::C2A0:BBFF:FEED:B345/64**

---

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN.

Enable automatic IPv6 address assignment :

Enable Automatic DHCP-PD in LAN :

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime:  (minutes)

## 6 to 4 Tunneling

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

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

**Primary/Secondary DNS Servers:** Enter the primary and secondary IPv6 DNS server addresses.

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

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

**Enable Automatic IPv6 Address Assignment:** Check to enable the Autoconfiguration feature.

**Autoconfiguration Type:** Select **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**, or **Stateful DHCPv6**.

**IPv6 Address Range Start:** Enter the start IPv6 Address for the DHCPv6 range for your local computers.

**IPv6 Address Range End:** Enter the end IPv6 Address for the DHCPv6 range for your local computers.

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

Click **Save Settings**.

**IPv6**

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

**My IPv6 Connection is :** 6to4

**6to4 SETTINGS**

Enter the IPv6 address information provided by your Internet Service Provider (ISP).

**6to4 Address :** 2002:C0A8:0A64::C0A8:0A64

**6to4 Relay :** 192.88.99.1

**Primary DNS Server :**  

**Secondary DNS Server :**

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

**LAN IPv6 Address :** 2002:C0A8:0A64:0001::1/64

**LAN IPv6 Link-Local Address :** FE80::C2A0:BBFF:FEED:B345/64

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

**Enable automatic IPv6 address assignment :**

**Autoconfiguration Type :** SLAAC + Stateless DHCPv6

**Router Advertisement Lifetime:** 1440 (minutes)

## 6rd

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

**6rd Settings:** Enter the IPv6 address information supplied by your Internet Service provider (ISP).

**Primary/Secondary DNS Servers:** Enter the primary and secondary IPv6 DNS server addresses.

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

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

**Enable Automatic IPv6 address assignment:** Check to enable the Autoconfiguration feature.

**Autoconfiguration Type:** Select **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**, or **Stateful DHCPv6**.

**IPv6 Address Range Start:** Enter the start IPv6 Address for the DHCPv6 range for your local computers.

**IPv6 Address Range End:** Enter the end IPv6 Address for the DHCPv6 range for your local computers.

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

Click **Save Settings**.

**IPv6**

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

**IPv6 CONNECTION TYPE**

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is : 6rd

**6RD SETTINGS**

Enter the IPv6 address information provided by your Internet Service Provider (ISP).

Enable Hub and Spoke Mode :

6rd Configuration :  6rd DHCPv4 Option  Manual Configuration

6rd IPv6 Prefix :  /

IPv4 Address : 192.168.10.100 Mask Length :

Assign IPv6 Prefix : None

Tunnel Link-Local Address : FE80::C0A8:0A64/64

6rd Border Relay IPv4 Address :

Primary DNS Server :

Secondary DNS Server :

**LAN IPv6 ADDRESS SETTINGS**

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.

LAN IPv6 Address : None

LAN IPv6 Link-Local Address : FE80::C2A0:BBFF:FEED:B345/64

**ADDRESS AUTOCONFIGURATION SETTINGS**

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime :  (minutes)

## Local Connectivity

**My IPv6 Connection is:** Select **Local Connectivity Only** from the drop-down menu.

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

Click **Save Settings**.

The screenshot displays the IPv6 configuration page. It features three main sections: 1. An orange header titled 'IPv6' with a grey background containing instructions to use this section for configuring the IPv6 connection type and a warning to contact the ISP if unsure. Below this are 'Save Settings' and 'Don't Save Settings' buttons. 2. A dark grey header titled 'IPv6 CONNECTION TYPE' with a white background containing the instruction 'Choose the mode to be used by the router to the IPv6 Internet.' and a dropdown menu labeled 'My IPv6 Connection is:' currently set to 'Local Connectivity Only'. 3. A dark grey header titled 'LAN IPv6 ADDRESS SETTINGS' with a white background containing the instruction 'LAN IPv6 address for local IPv6 communications.' and the displayed 'LAN IPv6 Link-Local Address : FE80::C2A0:BBFF:FEED:B345/64'.

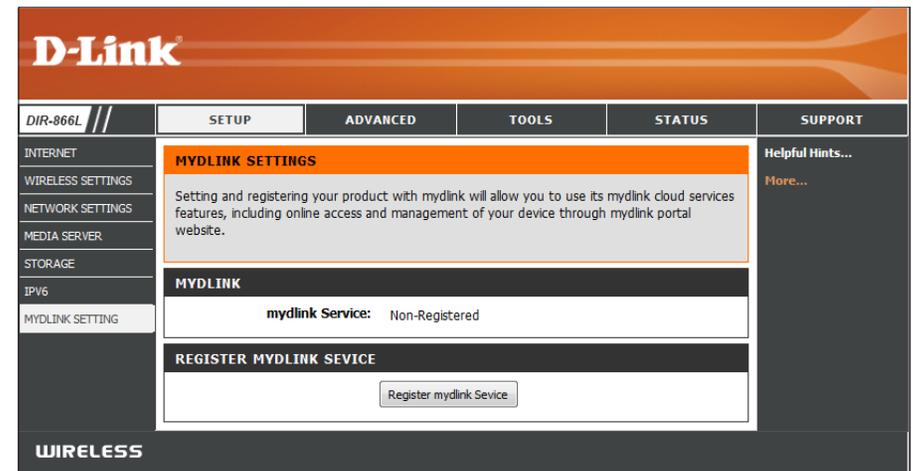
## mydlink Settings

The DIR-866L is a mydlink-enabled router, which means that it can push information like home network user activity and intrusion alerts to the mydlink™ Lite app on your mobile device. To ensure that your router is up-to-date with the latest features, mydlink will notify you when an update is available for your router. You can also monitor a user's online activity with real-time website browsing history, allowing you to maintain a safe and secure environment for children at home.

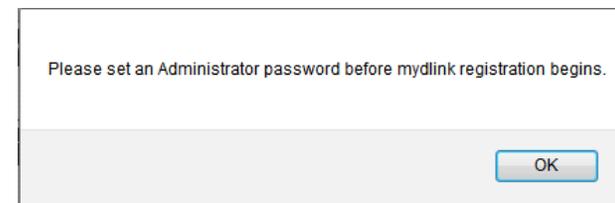
On this screen the user can configure the mydlink settings for this router. This feature will allow you to use mydlink Cloud Services, including online access and management of this router through the mydlink portal website or mobile device applications like iOS and Android applications.

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

**Register mydlink Service:** Click **Register mydlink Service** to go to the mydlink website to register your router or edit your settings. Refer to page 19 of the Setup Wizard for the registration steps.



**Note:** Before you can register your router, you must have a password. Click on **OK**, and you will see the **Tools > Admin** screen for creating a password.



# Advanced Virtual Server

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

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

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

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

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

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

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

Click on **Save Settings**.

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

**VIRTUAL SERVER**

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

Save Settings Don't Save Settings

**24 — VIRTUAL SERVERS LIST**

Name	IP Address	Port	Protocol	Schedule
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always
Application Name	Computer Name	Public Port	TCP	Always
Application Name	Computer Name	Private Port	TCP	Always

**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 would like to open the specified port.

Select a schedule for when the virtual server will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Tools --> Schedules** screen and create a new schedule.

Select a filter that restricts the Internet hosts that can access this virtual server to hosts that you trust. If you do not see the filter you need in the list of filters, go to the **Advanced --> Inbound Filter** screen and create a new filter.

More...

**WIRELESS**

## Port Forwarding

The Port Forwarding option allows you to open a single port or a range of ports in your router.

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

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

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

Example: 24,1009,3000-4000

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

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

Click on **Save Settings**.

**PORT FORWARDING**

This option is used to open multiple ports or a range of ports in your router and redirect data through those ports to a single PC on your network. This feature allows you to enter ports in various formats including, Port Ranges (100-150), Individual Ports (80, 68, 888), or Mixed (1020-5000, 689).

Save Settings Don't Save Settings

**24 — PORT FORWARDING RULES**

	Name	IP Address	Ports to Open	Schedule
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 TCP	Schedule Always
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 UDP	Inbound Filter Allow All
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 TCP	Schedule Always
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 UDP	Inbound Filter Allow All
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 TCP	Schedule Always
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 UDP	Inbound Filter Allow All
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 TCP	Schedule Always
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 UDP	Inbound Filter Allow All
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 TCP	Schedule Always
<input type="checkbox"/>	<< Application Name	0.0.0.0 Computer Name	0 UDP	Inbound Filter Allow All

**Helpful Hints...**

Check the **Application Name** drop down menu for a list of predefined applications. If you select one of the predefined applications, 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 LAN computer to which you would like to open the specified port.

Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Tools — Schedules** screen and create a new schedule.

You can enter ports in various formats:

Range: (50-100) Individual (80, 68, 888) Mixed (1020-5000, 689)

**More...**



## QoS Engine

Quality of Service (QoS) assigns priority to specified applications, providing better performance of a data flow. The QoS Engine helps improve your online gaming experience by prioritizing your game traffic over other network traffic, like FTP.

**Enable Traffic Shaping:** Check the box to **Enable Traffic Shaping**, which is a network traffic management technique that uses rate limiting.

**Automatic Uplink Speed:** Check the box to enable **Automatic Uplink Speed**, which will be the maximum speed your Internet Service Provider (ISP) will allow data to be transferred from the router to the Internet.

**Measured Uplink Speed:** Displays *Measured Uplink Speed*.

**Manual Uplink Speed:** If you experience poor VoIP performance, you may want to use this option. Disable *Automatic Uplink Speed* and enter a **Manual Uplink Speed** to improve performance.

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

**Automatic Classification:** Check the box to enable **Automatic Classification**, which allows the router to automatically determine which applications should receive network priority.

**Dynamic Fragmentation:** Check the box to enable **Dynamic Fragmentation**, which allows the router to break large packets into smaller ones for smoother performance.

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

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

**QoS ENGINE**

Use this section to configure D-Link's QoS Engine powered by QoS Engine™ Technology. This QoS Engine improves your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web. For best performance, use the Automatic Classification option to automatically set the priority for your applications.

Save Settings Don't Save Settings

**WAN TRAFFIC SHAPING**

Enable Traffic Shaping :

Automatic Uplink Speed :

Measured Uplink Speed : Not Estimated

Manual Uplink Speed : 128 kbps << Select Transmission Rate

**QoS ENGINE SETUP**

Enable QoS Engine :

Automatic Classification :

Dynamic Fragmentation :

**QoS ENGINE RULES**

Name	Priority	Protocol	Local IP Range	Remote IP Range	Local Port Range	Remote Port Range
	1 (1..255)	6 << TCP	0.0.0.0 to 255.255.255.255	0.0.0.0 to 255.255.255.255	0 to 65535	0 to 65535
	1 (1..255)	6 << TCP	0.0.0.0 to 255.255.255.255	0.0.0.0 to 255.255.255.255	0 to 65535	0 to 65535
	1 (1..255)	6 << TCP	0.0.0.0 to 255.255.255.255	0.0.0.0 to 255.255.255.255	0 to 65535	0 to 65535
	1 (1..255)	6 << TCP	0.0.0.0 to 255.255.255.255	0.0.0.0 to 255.255.255.255	0 to 65535	0 to 65535
	1 (1..255)	6 << TCP	0.0.0.0 to 255.255.255.255	0.0.0.0 to 255.255.255.255	0 to 65535	0 to 65535

WIRELESS

**Helpful Hints ...**

If the **Measured Uplink Speed** is known to be incorrect (that is, it produces suboptimal performance), disable **Automatic Uplink Speed** and enter the **Manual Uplink Speed**. Some experimentation and performance measurement may be required to converge on the optimal value.

More...

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

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

**Protocol:** Select the **Protocol** to be used by the messages.

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

**Local Port Range:** Enter a range of ports you want to assign to this rule.

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

**Remote Port Range:** Enter a range of ports you want to assign to this rule.

Click on **Save Settings**.

QOS ENGINE RULES			
<input type="checkbox"/>	Name <input type="text"/>	Priority 1 (1..255)	Protocol 6 << TCP
	Local IP Range 0.0.0.0 to 255.255.255.255	Local Port Range 0 to 65535	
	Remote IP Range 0.0.0.0 to 255.255.255.255	Remote Port Range 0 to 65535	
<input type="checkbox"/>	Name <input type="text"/>	Priority 1 (1..255)	Protocol 6 << TCP
	Local IP Range 0.0.0.0 to 255.255.255.255	Local Port Range 0 to 65535	
	Remote IP Range 0.0.0.0 to 255.255.255.255	Remote Port Range 0 to 65535	

## Network (MAC) Filters

Use MAC (Media Access Control) Filters to control access to LAN (Local Area Network) computers by using their MAC addresses. You can create a list of MAC addresses and then choose to either deny them access or allow them access to your network.

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

**MAC Address:** Create a list of MAC addresses by entering the **MAC Address** of the computer you would like to filter, or select a **Computer Name** from the drop-down list and click <<.

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

**DHCP Client List:** Computers that have obtained an IP address from the router's DHCP server will be in the **DHCP Client List**.

**Clear:** Click Clear to remove the MAC address from the MAC Filtering Rules list.

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'ADVANCED' tab is selected, and the 'MAC ADDRESS FILTER' page is displayed. The page contains a 'MAC ADDRESS FILTER' section with a description and 'Save Settings' and 'Don't Save Settings' buttons. Below this is the 'MAC FILTERING RULES' section, which includes a dropdown menu set to 'Turn MAC Filtering OFF' and a table for adding MAC addresses and computer names. The table has columns for 'MAC Address', '<<', 'DHCP Client List', and 'Clear'. The 'DHCP Client List' column contains a dropdown menu with 'Computer Name' selected. The 'Clear' column contains a 'Clear' button. The table is currently empty, showing 20 rows of input fields.

MAC Address	<<	DHCP Client List	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear
00:00:00:00:00:00	<<	Computer Name	Clear

**Helpful Hints...**  
Create a list of MAC addresses that you would either like to allow or deny access to your network.  
Computers that have obtained an IP address from the router's DHCP server will be in the DHCP Client List. Select a device from the drop down menu, then click the arrow to add that device's MAC address to the list.  
Click the Clear button to remove the MAC address from the MAC Filtering list.  
[More...](#)

## Access Control

The Access Control section allows you to control access in and out of your network. Use this feature like parental control software. Grant access only to approved sites, limit web access based on dates and times, or block access from applications like P2P utilities and games.

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

**Policy Table:** Displays your list of policies.

## Access Control Wizard

When the *Add New Policy* window appears, click **Next** to continue with the wizard.

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

**STEP 1: CHOOSE POLICY NAME**

Choose a unique name for your policy.

Policy Name :

---

Prev Next Save Cancel

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

**STEP 2: SELECT SCHEDULE**

Choose a schedule to apply to this policy.

Always

---

Prev Next Save Cancel

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

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

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

**STEP 3: SELECT MACHINE**

Select the machine to which this policy applies.

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

Address Type :  IP  MAC  Other Machines

IP Address :  << Computer Name

Machine Address :  <<

Computer Name

Copy Your PC's MAC Address

OK Clear

Machine		

---

Prev Next Save Cancel

**Note:** If you click **Other Machines**, you will see the table at the bottom that displays other machines .

Machine		
Other Machines		

---

Prev Next Save Cancel

Select the filtering method.

**STEP 4: SELECT FILTERING METHOD**

Select the method for filtering.

**Method :**  Log Web Access Only  Block All Access  Block Some Access

**Apply Web Filter :**

**Apply Advanced Port Filters :**

Prev Next Save Cancel

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

Click **Next** to continue.

**STEP 4: SELECT FILTERING METHOD**

Select the method for filtering.

**Method :**  Log Web Access Only  Block All Access  Block Some Access

**Apply Web Filter :**

**Apply Advanced Port Filters :**

Prev Next Save Cancel

**Add Port Filter Rules:**

**Enable** - Check to enable the rule.

**Name** - Enter a name for your rule.

**Dest IP Start** - Enter the starting IP address.

**Dest IP End** - Enter the ending IP address.

**Protocol** - Select the protocol.

**Dest Port Start** - Enter the starting port number.

**Dest Port End** - Enter the ending port number.

Click **Next**.

**STEP 5: PORT FILTER**

**Add Port Filters Rules.**

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

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

Prev Next Save Cancel

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

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

You will see a count down while settings are being saved. When the count down gets to zero, click **Continue**.

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

**STEP 6: CONFIGURE WEB ACCESS LOGGING**

**Web Access Logging :**  Disabled  
 Enable

Prev Next Save Cancel

The new settings have been saved....Please wait 0 seconds.

Continue

**ACCESS CONTROL**

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

Save Settings Don't Save Settings

**ACCESS CONTROL**

**Enable Access Control :**

Add Policy

**POLICY TABLE**

Enable	Policy	Machine	Filtering	Logged	Schedule		
<input checked="" type="checkbox"/>	test policy	Other Machines	Block Some Access	No	Always		

## Website Filters

*Website Filters* allow you to set up a list of websites that may be viewed by multiple users, or blocked from users on your network. You must also select **Apply Web Filter** (Step 4) when you run the *Access Control Wizard* from "[Access Control](#)" on page 81.

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

**Clear the list below:** Click **Clear the list below** to delete the list of websites.

**Website URL/ Domain:** Create a list of websites by entering the keywords or URLs that you want to allow or block access to.

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various configuration options, with 'WEBSITE FILTER' selected. The main content area is titled 'WEBSITE FILTER' and contains the following text: 'The Website Filter option allows you to set up a list of Web sites you would like to allow or deny through your network. To use this feature, you must also select the "Apply Web Filter" checkbox in the Access Control section.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'WEBSITE FILTERING RULES' section is visible, showing a dropdown menu set to 'DENY computers access to ONLY these sites' and a 'Clear the list below...' button. Below the rules section is a table with the header 'Website URL/Domain' and multiple empty rows for input. The bottom of the page features a 'WIRELESS' section.

## Inbound Filters

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

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

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

**Remote IP Range:** Check the box to **Enable** the rule.

**Remote IP Start:** Enter the starting IP address.

**Remote IP End:** Enter the ending IP address.

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

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

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

**INBOUND FILTER**

The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range.

Inbound Filters can be used for limiting access to a server on your network to a system or group of systems. Filter rules can be used with Virtual Server, Port Forwarding, or Remote Administration features.

**ADD INBOUND FILTER RULE**

Name :

Action :

Remote IP Range :	Enable	Remote IP Start	Remote IP End
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255
<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	255.255.255.255

**INBOUND FILTER RULES LIST**

Name	Action	Remote IP Range

**Helpful Hints...**

Give each rule a **Name** that is meaningful to you.

Each rule can either **Allow** or **Deny** access from the WAN.

Up to eight ranges of WAN IP addresses can be controlled by each rule. The checkbox by each IP range can be used to disable ranges already defined.

The starting and ending IP addresses are WAN-side address.

Click the **Add** or **Update** button to store a finished rule in the Rules List below.

Click the **Edit** icon in the Rules List to change a rule.

Click the **Delete** icon in the Rules List to permanently remove a rule.

[More...](#)

## Firewall Settings

A firewall protects your network from the outside world. The DIR-866L offers a firewall-type functionality. The SPI feature helps prevent cyber attacks. There may be times you want a computer exposed to the outside world for certain types of applications. To expose a computer, you can enable DMZ. This option will expose the selected computer completely to the outside world.

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

**Enable Anti-Spoof Checking:** Check the box to enable this feature, which will protect your network from certain kinds of “spoofing” attacks.

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

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

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

**PPTP:** Check the box to allow multiple machines on the LAN to connect to their corporate network using PPTP protocol.

**IPSec (VPN):** Check the box to allow multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT (Network Address Translation). This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network to find out whether your VPN client supports NAT traversal.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various settings categories, with 'FIREWALL SETTINGS' selected. The main content area is divided into several sections:

- FIREWALL SETTINGS:** Contains a description: "The Firewall Settings allows you to set a single computer on your network outside of the router." and two buttons: "Save Settings" and "Don't Save Settings".
- FIREWALL SETTINGS:** A sub-section containing the "Enable SPI:" checkbox, which is currently unchecked.
- ANTI-SPOOF CHECKING:** Contains the "Enable anti-spoof checking:" checkbox, which is currently unchecked.
- DMZ HOST:** Contains a description: "The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access." and a note: "Note: Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort." Below this are the "Enable DMZ Host:" checkbox (unchecked) and the "DMZ IP Address:" field (set to 0.0.0.0) with a dropdown menu for "Computer Name".
- APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION:** Contains four checkboxes, all of which are checked: "PPTP", "IPSec (VPN)", "RTSP", and "SIP".

On the right side of the interface, there is a "Helpful Hints..." section with text: "Enable the DMZ option only as a last resort. If you are having trouble using an application from a computer behind the router, first try opening ports associated with the application in the Virtual Server or Port Forwarding sections." and a "More..." link.

**RTSP:** Check the box to allow applications that use RTSP (Real Time Streaming Protocol) to receive streaming media from the Internet. QuickTime and Real Player are some of the common applications using this protocol.

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

Click **Save Settings**.

## Routing

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

**Name:** Enter a **Name** for your data route. Use the check box on the left to either enable or disable the route.

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

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

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

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

**Interface:** From the drop-down menu, select the **Interface** that the IP packet must use to transit out of the router when this route is used.

Click **Save Settings**.

**D-Link**

DIR-866L // 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

**ROUTE LIST**

	Name	Destination IP	Netmask	Gateway	Metric	Interface
<input type="checkbox"/>		0.0.0.0			1	WAN
	Netmask	0.0.0.0				
		0.0.0.0				
<input type="checkbox"/>		0.0.0.0			1	WAN
	Netmask	0.0.0.0				
		0.0.0.0				
<input type="checkbox"/>		0.0.0.0			1	WAN
	Netmask	0.0.0.0				
		0.0.0.0				
<input type="checkbox"/>		0.0.0.0			1	WAN
	Netmask	0.0.0.0				
		0.0.0.0				
<input type="checkbox"/>		0.0.0.0			1	WAN
	Netmask	0.0.0.0				
		0.0.0.0				
<input type="checkbox"/>		0.0.0.0			1	WAN
	Netmask	0.0.0.0				
		0.0.0.0				

**Helpful Hints...**

Each route has a check box next to it; check this box if you want the route to be enabled.

The name field allows you to specify a name for identification of this route, e.g. "Network Z".

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**

## Advanced Wireless

The *Advanced Wireless* options are for users that want to deviate from the standard settings. Adjusting these values may limit the performance of your wireless network.

**Wireless Band:** Displays the *2.4GHz Band* (top) and *5GHz Band* (bottom).

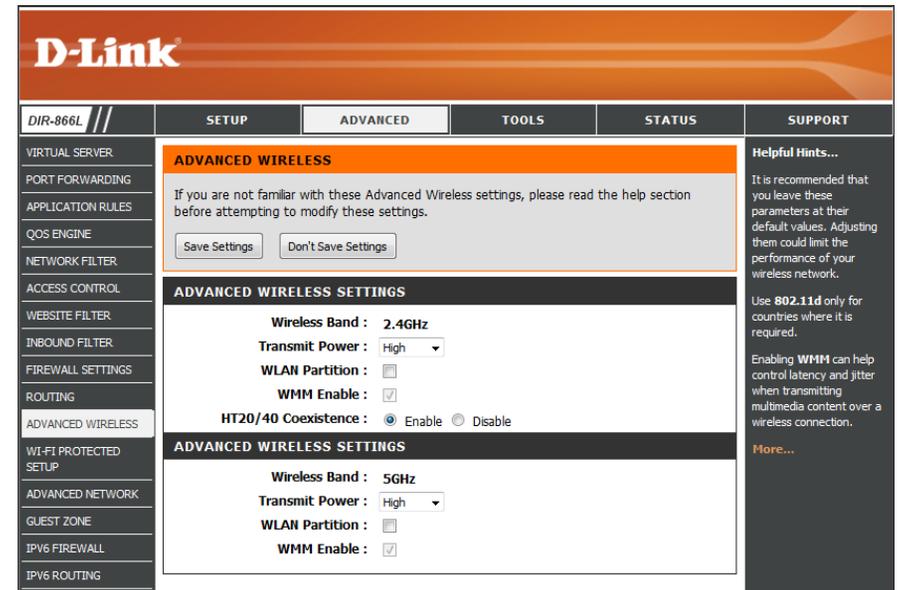
**Transmit Power:** From the drop-down menu, select the transmit power for each of the antennas as **High**, **Medium**, or **Low**.

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

**WMM Enable:** WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

**HT 20/40MHz Coexistence:** For the 2.4GHz band, you can enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz when this option is enabled.

Click **Save Settings**.



## Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) provides an easy way to secure your wireless network during the *Initial Setup* as well as the *Add New Device* processes. The process is as simple as pressing a button for the Push-Button Method or correctly entering the eight-digit code for the PIN Code Method. The highest wireless security setting of WPA2 is automatically used.

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

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

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

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

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

**Reset PIN to Default:** Click to restore the default PIN of the router.

**Add Wireless Device with WPS:** The WPS Wizard will prompt you to select a configuration method. It will guide you through manual configuration, or allow you to choose between the Push Button (PBC) and PIN methods. If the device supports Wi-Fi Protected Setup and has a WPS button, you can add it to the network by pressing the WPS button on the device and then the on the router within 60 seconds.

The screenshot shows the D-Link router's web interface for the Wi-Fi Protected Setup (WPS) configuration. The interface is divided into several sections:

- WI-FI PROTECTED SETUP:** This section contains a description: "Wi-Fi Protected Setup is used to easily add devices to a network using a PIN or button press. Devices must support Wi-Fi Protected Setup in order to be configured by this method." Below this are two buttons: "Save Settings" and "Don't Save Settings".
- WI-FI PROTECTED SETUP (Settings):** This section shows the "Enable" checkbox checked and the "Lock WPS-PIN Setup" checkbox unchecked.
- PIN SETTINGS:** This section displays the "Current PIN" as 91202918. It includes two buttons: "Generate New PIN" and "Reset PIN to Default".
- ADD WIRELESS STATION:** This section contains a button labeled "Add Wireless Device with WPS".
- Helpful Hints...:** A sidebar on the right provides additional information, including a note that only the "Admin" account can change security settings and a link to the "Add Wireless Device Wizard".

## WPS Button

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

Refer to [“Connect a Wireless Client to your Router”](#) on page 163 for more information.



## Advanced Network Settings

**Enable UPnP:** Check the box to enable the Universal Plug and Play (UPnP™) feature. UPnP provides compatibility with networking equipment, software and peripherals.

**Enable WAN Ping Respond** Checking this box will allow the DIR-866L to respond to pings. Unchecking the box may provide some extra security from hackers, since malicious Internet users often use pings to locate active networks or PCs.

**WAN Ping Inbound filter:** Select an option from the drop-down menu if you would like to apply an Inbound filter to the WAN ping.

**Details:** Displays the details for the *WAN Ping Inbound Filter*

**WAN Port Speed:** You may set the port speed of the Internet port to **10Mbps**, **100Mbps**, **1000Mbps** or **Auto 10/100/1000Mbps** (recommended).

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

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

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L Advanced Network Settings page. The page is divided into several sections:

- ADVANCED NETWORK:** A warning message states: "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:** A section titled "Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices." It includes a checked checkbox for "Enable UPnP".
- WAN PING:** A section titled "If you enable this feature, the WAN port of your router will respond to ping requests from the Internet that are sent to the WAN IP Address." It includes an unchecked checkbox for "Enable WAN Ping Respond", a dropdown menu for "WAN Ping Inbound Filter" set to "Allow All", and a "Details" field also set to "Allow All".
- WAN PORT SPEED:** A section titled "WAN Port Speed" with a dropdown menu set to "Auto 10/100/1000Mbps".
- IPV4 MULTICAST STREAMS:** A section titled "Enable IPv4 Multicast Streams" with an unchecked checkbox.
- IPV6 MULTICAST STREAMS:** A section titled "Enable IPv6 Multicast Streams" with a checked checkbox.

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

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.

The WAN speed is usually detected automatically. If you are having problems connecting to the WAN, try selecting the speed manually.

If you are having trouble receiving multicast streams from the Internet, make sure the Multicast Streams option is enabled.

More...

## Guest Zone

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

**Enable Guest Zone:** For each *Wireless Band (2.4GHz and 5 GHz)*, check the box to enable guest zones created.

**Schedule:** The schedule may be set to **Always**, allowing the Guest Zone feature to always be enabled, or you can select a schedule from the drop-down menu. Click **New Schedule** to create your own schedule.

**Wireless Band:** Displays the *2.4GHz Band* (top) or *5GHz Band* (bottom).

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

**Security Mode:** Select the type of security you would like to enable for the Guest Zone, or select **None**.

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

**Router IP Address:** When routing between zones is enabled, you can enter the IP address you want to assign to the router.

**Subnet Mask:** When routing between zones is enabled, you can enter the Subnet Mask for the device.

**Enable DHCP Server:** Check to enable the built-in DHCP server to assign IP addresses to computers on your network.

**DHCP IP Address Range:** Enter a range of IP addresses for the DHCP server to use for IP address assignment.

**DHCP Lease Time:** Enter the **DHCP Lease Time** in minutes.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options, with 'GUEST ZONE' selected. The main content area is titled 'GUEST ZONE' and contains the following sections:

- GUEST ZONE SELECTION (2.4GHz Band):**
  - Enable Guest Zone:  Always (dropdown) [New Schedule]
  - Wireless Band: 2.4GHz Band
  - Wireless Network Name: dlink-guest (Also called the SSID)
  - Security Mode: None (dropdown)
- GUEST ZONE SELECTION (5GHz Band):**
  - Enable Guest Zone:  Always (dropdown) [New Schedule]
  - Wireless Band: 5GHz Band
  - Wireless Network Name: dlink-5GHz-guest (Also called the SSID)
  - Security Mode: None (dropdown)
- ROUTER SETTINGS FOR THE GUEST ZONE:**
  - Enable Routing Between Zones:
  - Router IP Address: 192.168.7.1
  - Subnet Mask: 255.255.255.0
- DHCP SERVER SETTING FOR THE GUEST ZONE:**
  - Enable DHCP Server:
  - DHCP IP Address Range: 192.168.7.100 to 192.168.7.199
  - DHCP Lease Time: 1440 (Minutes)

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

## IPv6 Firewall

The DIR-866L's IPv6 Firewall feature allows you to specify which kind of IPv6 traffic is allowed to pass through the device. The IPv6 Firewall works the same way as IP Filters, with additional settings.

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

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

**Configure IPv6 Firewall below:** From the drop-down menu, select **Turn IPv6 Firewall OFF, Turn IPv6 Firewall ON and Allow rules listed, or Turn IPv6 Firewall ON and Deny rules listed.**

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

**Schedule:** Set the schedule to **Always**, or select a schedule from the drop-down menu for enabling the IPv6 Firewall Rule. You can create your own schedule in the **Tools > Schedules** section.

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

**IP Address Range:** Enter the source IPv6 address range.

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

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

**IP Address Range:** Enter the destination IPv6 address range.

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

Click **Save Settings**.

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

**IPv6 FIREWALL**

The Firewall settings section is an advance feature used to allow or deny traffic from passing through the device. It works in the same way as IP Filters with additional settings. You can create more detailed rules for the device.

Save Settings Don't Save Settings

**IPv6 SIMPLE SECURITY**

Enable IPv6 Ingress Filtering:

Enable IPv6 Simple Security:

**IPv6 FIREWALL**

Configure IPv6 Firewall below:  
Turn IPv6 Firewall OFF

Remaining number of firewall rules that can be configured:

Name	Schedule	Interface	IP Address Range	Protocol	Port Range
1.	Always	*		TCP	1 ~ 65535
2.	Always	*		TCP	1 ~ 65535
18.	Always	*		TCP	1 ~ 65535
19.	Always	*		TCP	1 ~ 65535
20.	Always	*		TCP	1 ~ 65535

Helpful Hints...  
For each rule you can create a name and control the direction of traffic. You can also allow or deny a range of IP Addresses, the protocol and a port range.  
In order to apply a schedule to a firewall rule, you must first define a schedule on the [Tools > Schedules](#) page.  
[More...](#)

WIRELESS



# Tools Admin

This screen allows you to change the Administrator settings, and also to enable remote management.

**Admin Password:** Enter a new **Password** for the Admin account. Enter it again to verify the password.

**Gateway Name:** Enter a system name.

**Enable Graphical Authentication:** Check to **Enable** a challenge-response test requiring users to type characters from a distorted image displayed on the screen to prevent hackers and unauthorized users from gaining access to your router's network settings.

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

**Enable Remote Management:** Check to **Enable Remote Management**, which allows the DIR-866L to be configured from the Internet using a web browser. A username and password is still required to access the Web Management interface.

**Remote Admin Port:** Enter the port number used in the URL to access the DIR-866L. For example: **http://x.x.x.x:8080** where x.x.x.x is the Internet IP address of the DIR-866L and 8080 is the port used for the Web Management interface.

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

**Remote Admin Inbound Filter:** Select **Allow All** or **Deny All** from the drop-down menu.

**Details:** This field will display the current *Remote Admin Inbound Filter*.

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'TOOLS' tab is selected, leading to the 'ADMINISTRATOR SETTINGS' page. The page is divided into several sections:

- ADMINISTRATOR SETTINGS:** Contains a warning that the 'admin' account has read/write access and can change passwords. It recommends creating a password. There are 'Save Settings' and 'Don't Save Settings' buttons.
- ADMIN PASSWORD:** A section with the instruction 'Please enter the same password into both boxes, for confirmation.' It has two password input fields labeled 'Password' and 'Verify Password'.
- SYSTEM NAME:** A section with a 'Gateway Name' field containing 'DIR-866L'.
- ADMINISTRATION:** A section with several checkboxes and input fields:
  - 'Enable Graphical Authentication' (checkbox)
  - 'Enable HTTPS Server' (checkbox)
  - 'Enable Remote Management' (checkbox)
  - 'Remote Admin Port' field with '8080' entered and a 'Use HTTPS' checkbox.
  - 'Remote Admin Inbound Filter' dropdown menu with 'Allow All' selected.
  - 'Details' field with 'Allow All' entered.

On the right side, there is a 'Helpful Hints...' section with text about security and remote management, and a 'More...' link at the bottom.

## Time

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (for Network Time Protocol) Server. An NTP server will sync the time and date with your router.

**Time:** Displays the current date and time of the router's internal system clock.

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

**Enable Daylight Saving:** Check the box to **Enable** manual entry of Daylight Saving time.

**Daylight Saving Dates:** Enter a Daylight Saving **Start** date and **End** date. Specify a **Day of the Week**, and a **Time**.

**Enable NTP Server:** Check the box to **Enable** NTP (Network Time Protocol) server.

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

**Set the Time and Date Manually:** To manually input the time, enter the values for the **Year, Month, Day, Hour, Minute, and Second**. Or click **Copy Your Computer's Time Settings** to synch the date and time with the computer you are currently on.

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists 'ADMIN', 'TIME', 'SYSLOG', 'EMAIL SETTINGS', 'SYSTEM', 'FIRMWARE', 'DYNAMIC DNS', 'SYSTEM CHECK', and 'SCHEDULES'. The main content area is titled 'TIME' and contains the following sections:

- TIME:** A descriptive paragraph about the Time Configuration option, followed by 'Save Settings' and 'Don't Save Settings' buttons.
- TIME CONFIGURATION:**
  - Time:** Friday, May 30, 2014 8:33:29 PM
  - Time Zone:** (GMT-08:00) Pacific Time (US/Canada), Tijuana
  - Enable Daylight Saving:**
  - Daylight Saving Dates:**

DST Start	Month	Week	Day of Week	Time
DST Start	Mar	3rd	Sun	1:00 AM
DST End	Nov	2nd	Sun	1:00 AM
- AUTOMATIC TIME CONFIGURATION:**
  - Enable NTP Server:**
  - NTP Server Used:** << Select NTP Server >>
- SET THE DATE AND TIME MANUALLY:**
  - Date And Time:**

Year	2002	Month	Jan	Day	1
Hour	12	Minute	00	Second	00
					AM
  - Copy Your Computer's Time Settings** button

On the right side, there is a 'Helpful Hints...' section with the text: 'Good timekeeping is important for accurate logs and scheduled firewall rules.' and a 'More...' link.

## SysLog

The DIR-866L 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 **Enable** sending the router logs to a SysLog Server. You will see a new field for the *SysLog Server IP Address*.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L //', '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 'SYSLOG' and contains the 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 is a section titled 'SYSLOG SETTINGS' with the label 'Enable Logging To Syslog Server:' followed by an unchecked checkbox. On the right side, there is a 'Helpful Hints...' section with explanatory text and a 'More...' link.

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

Click **Save Settings**.

This screenshot is identical to the one above, but the 'Enable Logging To Syslog Server' checkbox is now checked. Additionally, the 'Syslog Server IP Address:' field is populated with '0.0.0.0' and a dropdown menu labeled 'Computer Name' is visible next to it. The rest of the interface, including the navigation and sidebar, remains the same.

## Email Settings

The Email Settings screen is for sending system log files, router alert messages, and firmware update notifications to your e-mail address.

**Enable Email Notification:** Check to **Enable Email Notification**. Router activity logs are sent to the e-mail address designated under *Email Settings* heading.

**From Email Address:** Enter the **Email Address** you would like to display as the sender when you receive a log file or firmware upgrade notification via e-mail.

**To Email Address:** Enter the **Email Address** where you want the e-mail to be sent.

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

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

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

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

**Password:** Enter the **Password** associated with the account. Re-type the password for verification.

**On Log Full:** When this box is checked, logs will be sent via e-mail to your account when the log is full.

**On Schedule:** When this box is checked, logs will be sent via e-mail according to schedule.

**Schedule:** When the box by **On Schedule** is checked, you can select **Never** or choose a schedule from the drop-down menu. To create a schedule, go to **Tools > Schedules**.

**Details:** Detail will display the selected schedule.

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various settings categories: ADMIN, TIME, SYSLOG, EMAIL SETTINGS (selected), SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'EMAIL SETTINGS' and contains the following sections:

- EMAIL SETTINGS:** A message stating 'The Email feature can be used to send the system log files, router alert messages, and firmware update notification to your email address.' Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- ENABLE:** A section with the label 'Enable Email Notification' and an unchecked checkbox.
- EMAIL SETTINGS:** A form with the following fields:
  - From Email Address: [text input]
  - To Email Address: [text input]
  - SMTP Server Address: [text input]
  - SMTP Server Port: [text input with value '25']
  - Enable Authentication: [checkbox]
  - Account Name: [text input with value 'user']
  - Password: [password input with 4 dots]
  - Verify Password: [password input with 4 dots]
- EMAIL LOG WHEN FULL OR ON SCHEDULE:** A section with the following options:
  - On Log Full: [checkbox]
  - On Schedule: [checkbox]
  - Schedule: [dropdown menu with 'Never' selected]
  - Details: [text input with value 'Never']

The right sidebar contains 'Helpful Hints...' with a message: 'You may want to make the email settings similar to those of your email client program.' and a 'More...' link.

## System

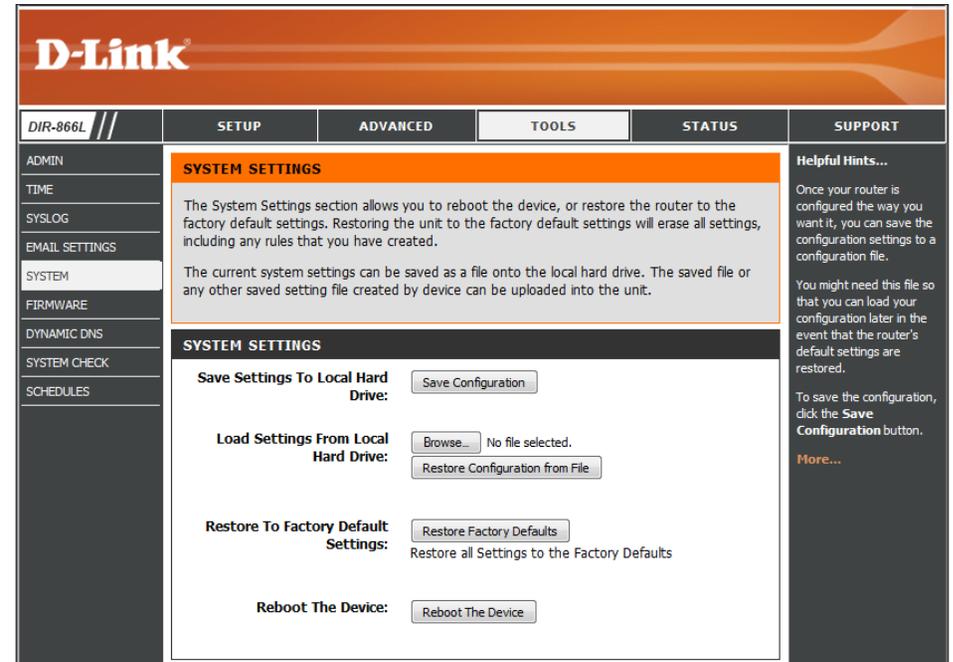
This section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created.

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

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

**Restore to Factory Default Settings:** This option will restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings first, use the **Save Configuration** button above.

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



## Firmware

From this screen you can check to see if there is a firmware upgrade available, and then you can download the latest firmware for your router. Make sure you download the firmware you want to use onto the local hard drive of your computer.

**Firmware and Language Pack Information:** Displays *Current Firmware Version* and *Current Language Pack Version*. Click **Check Now** to check online for the latest versions.

### Firmware Upgrade

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

**Upload:** Once you have located the file on your computer, click the **Upload** button to start the firmware upgrade.

### Language Pack Upgrade

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

**Browse:** After you have downloaded a new language pack, click **Browse** to locate the language pack file on your hard drive.

**Upload:** Once you have located the file on your computer, click the **Upload** button to start the language pack upgrade.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists menu items: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE (highlighted), DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'FIRMWARE UPDATE' and contains the following text:

There may be new firmware for your DIR-866L 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 Upload button below to start the firmware upgrade.

The language pack allows you to change the language of the user interface on the DIR-866L. We suggest that you upgrade your current language pack if you upgrade the firmware. This ensures that any changes in the firmware are displayed correctly.

To upgrade the language pack, locate the upgrade file on the local hard drive with Browse button. Once you have found the file to be used, click the Upload button to start the language pack upgrade.

**FIRMWARE AND LANGUAGE PACK INFORMATION**

Current Firmware Version : 1.00      Date : 30 May 2014  
 Current Language Pack Version: No Language Pack  
 Check Online Now for Latest Firmware and Language pack version:

**FIRMWARE UPGRADE**

**Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration from the Tools > System screen.**

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

No file selected.

**LANGUAGE PACK UPGRADE**

Upload :  No file selected.     

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

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

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

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

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

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

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

**Status:** Displays the current connection status.

Continue to the next page for DDNS for IPv6 Hosts.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains a menu with options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS (selected), SYSTEM CHECK, and SCHEDULES. The main content area is titled "DYNAMIC DNS" and contains the following text and form fields:

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

Sign up for D-Link's Free DDNS service at [www.DLinkDDNS.com](http://www.DLinkDDNS.com).

Buttons: Save Settings, Don't Save Settings

**DYNAMIC DNS**

Enable Dynamic DNS :

Server Address :  << Select Dynamic DNS Server

Host Name :

Username or Key :

Password or Key :

Timeout : 576 (hours)

Status : Disconnected

**DYNAMIC DNS FOR IPV6 HOSTS**

IPv6 Address :  <<

Computer Name :

Host Name :  (e.g.: ipv6.mydomain.net)

Buttons: Save, Clear

**IPV6 DYNAMIC DNS LIST**

Enable	Host Name	IPv6 Address
<input type="checkbox"/>		

**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...](#)

### Dynamic DNS for IPv6 Hosts

**IPv6 Address:** Enter the **IPv6 Address** of your computer/server in your local network. You can select a computer/server from the drop-down list and click the << button.

**Host Name:** Enter the IPv6 **Host Name** that you registered with your DDNS service provider. Click **Save**.

**IPv6 Dynamic DNS List:** Once you save your entry, the IPv6 DDNS host information will be displayed in this list.

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

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

**IPv6 Address:** Displays the *IPv6 Address* of your computer/server associated with the IPv6 DDNS host.

**Edit/Delete:** Click the **Edit** icon to make changes to the entry or click the **Trash** icon to delete the entry.

Click **Save Settings**.

**DYNAMIC DNS FOR IPV6 HOSTS**

**IPv6 Address:**  <<

Computer Name ▾

**Host Name:**  (e.g.: ipv6.mydomain.net)

Save Clear

---

**IPV6 DYNAMIC DNS LIST**

Enable	Host Name	IPv6 Address
--------	-----------	--------------

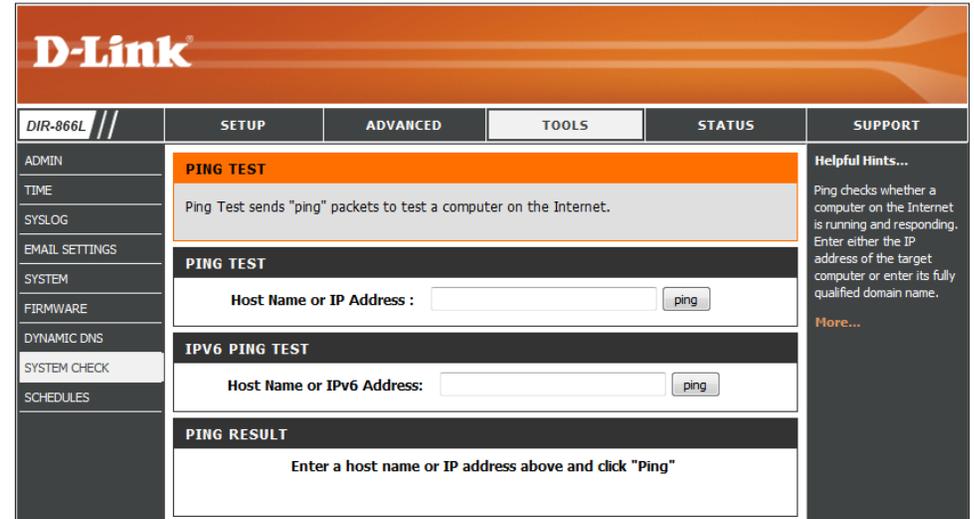
## System Check

The Ping Test is used to send Ping packets to test if a computer is on the Internet.

**Host Name or IP Address:** Enter the **Host Name** or **IP Address** of the computer that you wish to Ping and click **Ping**.

**Host Name or IPv6 Address:** Enter the **Host Name** or **IPv6 Address** of the computer that you wish to Ping and click **Ping**.

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



The screenshot displays the D-Link DIR-866L web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The TOOLS tab is selected, and the PING TEST tool is active. The interface is divided into three main sections: PING TEST, IPV6 PING TEST, and PING RESULT. The PING TEST section contains a text box for the host name or IP address and a 'ping' button. The IPV6 PING TEST section contains a text box for the host name or IPv6 address and a 'ping' button. The PING RESULT section is currently empty and contains the instruction 'Enter a host name or IP address above and click "Ping"'. A sidebar on the right contains a 'Helpful Hints...' section with instructions on how to use the ping tool and a 'More...' link.

DIR-866L ///	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	<b>PING TEST</b>				<b>Helpful Hints...</b> 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. <a href="#">More...</a>
TIME	Ping Test sends "ping" packets to test a computer on the Internet.				
SYSLOG	<b>PING TEST</b>				
EMAIL SETTINGS	Host Name or IP Address : <input type="text"/> <input type="button" value="ping"/>				
SYSTEM	<b>IPV6 PING TEST</b>				
FIRMWARE	Host Name or IPv6 Address: <input type="text"/> <input type="button" value="ping"/>				
DYNAMIC DNS	<b>PING RESULT</b>				
SYSTEM CHECK	Enter a host name or IP address above and click "Ping"				
SCHEDULES					

## Schedules

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

**Name:** Enter a **Name** for your new schedule.

**Day(s):** Click on **All Week** to include every day of the week, or click **Select Day(s)** and check the boxes to select the days to enforce the rules.

**Time:** Check **All Day - 24 hrs** or select a **Time Format** from the drop-down list and enter a **Start Time** and **End Time** for your schedule.

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

Click **Save Settings**.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L', '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 sections:

- SCHEDULES:** A text box explaining that the schedule configuration option is used to manage schedule rules for various firewall and parental control features. Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- ADD SCHEDULE RULE:** A form with the following fields:
  - Name:** A text input field.
  - Day(s):** Radio buttons for 'All Week' (selected) and 'Select Day(s)'. Below are checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat.
  - All Day - 24 hrs:** A checkbox.
  - Time Format:** A dropdown menu set to '24-hour'.
  - Start Time:** Two input fields for hours and minutes, followed by an AM/PM dropdown.
  - End Time:** Two input fields for hours and minutes, followed by an AM/PM dropdown.
- SCHEDULE RULES LIST:** A table with columns for 'Name', 'Day(s)', and 'Schedule Rules List'.

On the right side, there is a 'Helpful Hints...' section with text explaining that schedules are used with other features to define when those features are in effect. It provides an example: '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".' It also includes instructions on how to use the 'Save', 'Edit', and 'Delete' icons.

# Status Device Info

This screen displays the current information for the DIR-866L. It includes the LAN, WAN (Internet), and Wireless information. If your Internet connection is set up for a Dynamic IP address then a **DHCP Release** button and a **DHCP Renew** button will be displayed. Click **Release** to disconnect from your ISP and click **Renew** to connect to your ISP. Similarly, if your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

**General:** Displays the router's *Time*, *Firmware Version*, and mydlink registration status.

**WAN:** Displays the *Connection Type*, *Cable Status*, *Network Status*, *Connection Up Time*, *MAC Address*, and the public IP settings.

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

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

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

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

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

The screenshot displays the 'Status Device Info' page for a D-Link DIR-866L router. The page is organized into several sections:

- GENERAL:** Shows Time (Friday, May 30, 2014 8:44:38 PM), Firmware Version (1.00, 30, May, 2014), and mydlink Service (Not-Registered).
- WAN:** Shows Connection Type (DHCP Client), Cable Status (Connected), Network Status (Established), Connection Up Time (0 Day, 2:57:26), MAC Address (C0:A0:8B:ED:B3:46), IP Address (192.168.10.100), Subnet Mask (255.255.255.0), Default Gateway (192.168.10.1), Primary DNS Server (192.168.10.1), and Secondary DNS Server (0.0.0.0). Buttons for DHCP Renew and DHCP Release are visible.
- LAN:** Shows MAC Address (C0:A0:8B:ED:B3:45), IP Address (192.168.0.1), Subnet Mask (255.255.255.0), and DHCP Server (Enabled).
- WIRELESS LAN:** Shows Wireless Band (2.4GHz Band), Wireless Radio (Enabled), 802.11 Mode (Mixed 802.11n, 802.11g and 802.11b), Channel Width (Auto 20/40 MHz), Channel (6), and Wi-Fi Protected Setup (Enabled/Configured). A table lists Wi-Fi Network Name (SSID), Guest, MAC Address, and Security Mode.
- WIRELESS LAN:** Shows Wireless Band (5GHz Band), Wireless Radio (Enabled), 802.11 Mode (Mixed 802.11a, 802.11n and 802.11ac), Channel Width (Auto 20/40/80 MHz), Channel (40), and Wi-Fi Protected Setup (Enabled/Configured). A table lists Wi-Fi Network Name (SSID), Guest, MAC Address, and Security Mode.
- LAN COMPUTERS:** A table showing connected devices with IP Address, Name (if any), and MAC.
- IGMP MULTICAST MEMBERSHIPS:** A table showing Multicast Group Address.

## Logs

The router automatically logs (records) events of possible interest in its internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

**Log Options:** Check the box(es) to select the type(s) of event(s) you would like to view from **Log Type**. Click **Apply Log Settings Now**.

**Log Details:** Displays the *Log Details (Time and Message)* below the control buttons.

**First Page:** Click to go to the **First Page** of the Log Files.

**Last Page:** Click to go to the **Last Page**.

**Previous:** Click to go back one page.

**Next:** Click to go to the **Next** page.

**Refresh:** Click to **Refresh** screen.

**Clear:** Click to **Clear** all of the log contents.

**Email Now:** This option will send copy of the router log to your e-mail address configured in the **Tools > Email Settings** page.

**Save Log:** Click **Save Log** to save the log file.

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO  
LOGS  
STATISTICS  
INTERNET SESSIONS  
ROUTING  
WIRELESS  
IPv6  
IPv6 ROUTING

**LOGS**

Use this option to view the router logs. You can define what types of events you want to view and the event levels to view. This router also has internal syslog server support so you can send the log files to a computer on your network that is running a syslog utility.

**LOG OPTIONS**

**Log Type :**

- System Activity
- Debug Information
- Attacks
- Dropped Packets
- Notice

Apply Log Settings Now

**LOG DETAILS**

First Page Last Page Previous Next  
Refresh Clear Email Now Save Log

1/9

Time	Message
May 30 20:42:14	UDHCPD Inform: add_lease 192.168.0.100
May 30 20:39:32	UDHCPD Inform: add_lease 192.168.0.100
May 30 20:29:30	UDHCPD Inform: add_lease 192.168.0.100
May 30 20:28:51	Httpd: remote 192.168.0.100 Login Success
May 30 20:25:41	Httpd: remote 192.168.0.100 Login Success
May 30 20:20:44	Httpd: remote 192.168.0.100 Login Success
May 30 20:19:27	UDHCPD Inform: add_lease 192.168.0.100
May 30 20:17:30	UDHCPD sending OFFER of 192.168.0.101
May 30 20:17:30	UDHCPD sendOffer : device_lan_ip=192.168.0.1 , device_lan_subnet_mask=255.255.255.0
May 30 20:16:35	UDHCPD Inform: add_lease 192.168.0.100

Helpful Hints...  
Check the log frequently to detect unauthorized network usage.  
You can also have the log mailed to you periodically. Refer to [Tools -> Email Settings](#).  
More...

WIRELESS

## Statistics

The screen below displays the *Traffic Statistics*. You can view the number of packets that pass through the DIR-866L on the LAN ports, WAN ports, and the Wi-Fi segments. The traffic counter will reset if the device is rebooted.

The screenshot shows the D-Link DIR-866L web interface. The top navigation bar includes 'DIR-866L', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various configuration options: 'DEVICE INFO', 'LOGS', 'STATISTICS', 'INTERNET SESSIONS', 'ROUTING', 'WIRELESS', 'IPV6', and 'IPV6 ROUTING'. The main content area is titled 'TRAFFIC STATISTICS' and contains the following information:

**TRAFFIC STATISTICS**  
 Traffic Statistics display Receive and Transmit packets passing through your router.  
 Refresh Statistics Clear Statistics

**LAN STATISTICS**

Sent :	202513	Received :	202415
TX Packets Dropped :	0	RX Packets Dropped :	0
		Errors :	0

**WAN STATISTICS**

Sent :	10622	Received :	10620
TX Packets Dropped :	0	RX Packets Dropped :	0
		Errors :	0

**WI-FI STATISTICS 2.4G**

Sent :	69083	Received :	53593
TX Packets Dropped :	631	RX Packets Dropped :	0
		Errors :	0

**WI-FI STATISTICS 5G**

Sent :	26898	Received :	0
TX Packets Dropped :	0	RX Packets Dropped :	0
		Errors :	0

On the right side of the interface, there is a 'Helpful Hints...' section with the text: 'This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.' and a 'More...' link.

## Internet Sessions

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

**D-Link**

DIR-866L //

SETUP    ADVANCED    TOOLS    STATUS    SUPPORT

DEVICE INFO  
LOGS  
STATISTICS  
**INTERNET SESSIONS**  
ROUTING  
WIRELESS  
IPV6  
IPV6 ROUTING

**INTERNET SESSIONS**

This page displays the full details of active sessions to your router.

**INTERNET SESSIONS**

Local	NAT	Internet Connection	Protocol	State	Dir	Timeout
-------	-----	---------------------	----------	-------	-----	---------

**Helpful Hints...**  
This is a list of all active conversations between WAN computers and LAN computers.  
[More...](#)

## Routing

This page will display your current *Routing Table*.

The screenshot shows the D-Link web interface for the DIR-866L router. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains a menu with options: DEVICE INFO, LOGS, STATISTICS, INTERNET SESSIONS, ROUTING (selected), WIRELESS, IPV6, and IPV6 ROUTING. The main content area is titled "ROUTING" and contains a "Routing Table" section with the text: "This page displays the routing details configured for your router." Below this is a table titled "ROUTING TABLE" with the following data:

Destination IP	Netmask	Gateway	Metric	Interface	Type	Creator
192.168.10.0	255.255.255.0	0.0.0.0	0	WAN	Internet Connection	System
0.0.0.0	0.0.0.0	192.168.10.1	0	WAN	Internet Connection	System
192.168.0.0	255.255.255.0	0.0.0.0	0	LAN	Internal	System
239.0.0.0	255.0.0.0	0.0.0.0	0	LAN	Internal	System
127.0.0.0	255.0.0.0	0.0.0.0	0	Local Loopback	LOCAL	System

On the right side of the interface, there are links for "Helpful Hints..." and "More..."

## Wireless

The *Number of Wireless Clients* displays a list of wireless clients currently connected to the router. This table also displays the *MAC address*, *IP Address* and connection *Mode* and connection *Rate* of the connected wireless clients.

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO  
LOGS  
STATISTICS  
INTERNET SESSIONS  
ROUTING  
WIRELESS  
IPV6  
IPV6 ROUTING

**WIRELESS**

Use this option to view the wireless clients that are connected to your wireless router.

**NUMBER OF WIRELESS CLIENTS - 2.4GHZ BAND: 1**

MAC Address	IP Address	Mode	Rate	Signal(%)
ca:d3:a3:a6:7b:63	0.0.0.0	802.11n	57M	100

**NUMBER OF WIRELESS CLIENTS - 5GHZ BAND:**

Helpful Hints...  
This is a list of all wireless clients that are currently connected to your wireless router.  
[More...](#)

## IPv6

The IPv6 page displays a summary of the Router's IPv6 settings and lists the IPv6 address and host name of any IPv6 clients.

**D-Link**

DIR-866L // SETUP ADVANCED TOOLS STATUS SUPPORT

DEVICE INFO  
LOGS  
STATISTICS  
INTERNET SESSIONS  
ROUTING  
WIRELESS  
IPv6  
IPv6 ROUTING

**IPv6 Network Information**  
All of your IPv6 Internet and network connection details are displayed on this page.

**IPv6 Connection Information**

**IPv6 Connection Type :** Auto Detection  
**Network Status :** Disconnected  
**Connection Up Time :** N/A  
**WAN IPv6 Address :** None  
**IPv6 Default Gateway :** fe80::218:e7ff:fece:d6975  
**LAN IPv6 Address :** None  
**LAN IPv6 Link-Local Address :** fe80::c2a0:bbff:feed:b345/64  
**Primary DNS Address :** None  
**Secondary DNS Address :** None  
**DHCP-PD :** Enabled  
**IPv6 network assigned by DHCP-PD :** None

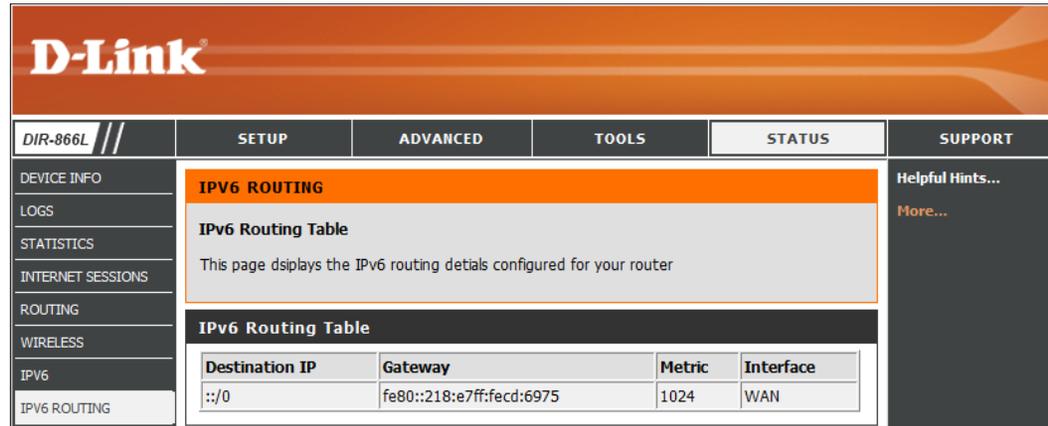
**LAN IPv6 Computers**

IPv6 Address	Name (if any)

**Helpful Hints...**  
All of your WAN and LAN connection details are displayed here.  
[More...](#)

## IPV6 Routing

This page displays the IPV6 routing table containing configuration details for your router.



The screenshot shows the D-Link web interface for the DIR-866L router. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains a menu with options: DEVICE INFO, LOGS, STATISTICS, INTERNET SESSIONS, ROUTING, WIRELESS, IPV6, and IPV6 ROUTING. The main content area is titled "IPV6 ROUTING" and contains the following text:

**IPv6 Routing Table**  
This page displays the IPv6 routing details configured for your router

**IPv6 Routing Table**

Destination IP	Gateway	Metric	Interface
::/0	fe80::218:e7ff:fe8d:6975	1024	WAN

On the right side of the main content area, there are links for "Helpful Hints..." and "More..."

# Support

The screenshot displays the D-Link DIR-866L web 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 SUPPORT tab is selected. On the left side, a vertical menu lists the main sections: MENU, SETUP, ADVANCED, TOOLS, and STATUS. The main content area is titled 'SUPPORT MENU' and contains several sub-sections:

- SUPPORT MENU**
  - [Setup](#)
  - [Advanced](#)
  - [Tools](#)
  - [Status](#)
- SETUP HELP**
  - [Internet Connection](#)
  - [WAN](#)
  - [Wireless Settings](#)
  - [Network Settings](#)
  - [IPv6](#)
- ADVANCED HELP**
  - [Virtual Server](#)
  - [Port Forwarding](#)
  - [Application Rules](#)
  - [QoS Engine](#)
  - [Network Filter](#)
  - [Access Control](#)
  - [Website Filter](#)
  - [Inbound Filter](#)
  - [Firewall Settings](#)
  - [Routing](#)
  - [Advanced Wireless](#)
  - [Wi-Fi Protected Setup](#)
  - [Advanced Network](#)
  - [GUEST ZONE](#)
  - [IPv6 Firewall](#)
  - [IPv6 Routing](#)
- TOOLS HELP**
  - [Admin](#)
  - [Time](#)
  - [Syslog](#)
  - [Email Settings](#)
  - [System](#)
  - [Firmware](#)
  - [Dynamic DNS](#)
  - [System Check](#)
  - [Schedules](#)
- STATUS**
  - [Device Info](#)
  - [Logs](#)
  - [Statistics](#)
  - [Internet Sessions](#)
  - [Routing](#)
  - [Wireless](#)
  - [IPv6](#)
  - [IPv6 Routing](#)

At the bottom of the interface, the word 'WIRELESS' is displayed in a dark bar.

# Using the mydlink SharePort™ App

The mydlink SharePort app is a mobile application that allows you to conveniently stream media and share files stored on a USB drive connected to your DIR-866L. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access your photos, videos, music, and documents. The SharePort app allows you to create your own personal cloud storage. You can upload files and photos from your mobile device to the removable storage via the app from anywhere in the world!

**Note:** *In order to ensure smooth streaming performance, you will need a minimum of 2 Mbit/s upload bandwidth for your router's Internet connection. Streaming performance will vary depending on the quality of your Internet connection.*

## Using the mydlink SharePort™ App for iOS Devices

The instructions that follow are for the mydlink SharePort app for iPad®, iPhone®, and iPod touch®. Users of Android devices may skip to [“Using the mydlink SharePort™ App for Android™” on page 136.](#)

### Connect Remotely from the Internet

1. If you are connecting remotely through the mydlink SharePort app from the Internet, you will need a **mydlink** account. (For more information, go to [www.mydlink.com](http://www.mydlink.com).)
2. Make sure the DIR-866L is powered on. Then plug your USB drive into the USB port on the back of the router.

**Note:** *If you connect a USB drive containing many files or with a large capacity, it may take a while for the router to scan and catalog your files.*



3. Use your iPhone, iPad or iPod touch to search for and download the free **mydlink SharePort** app from the App Store.

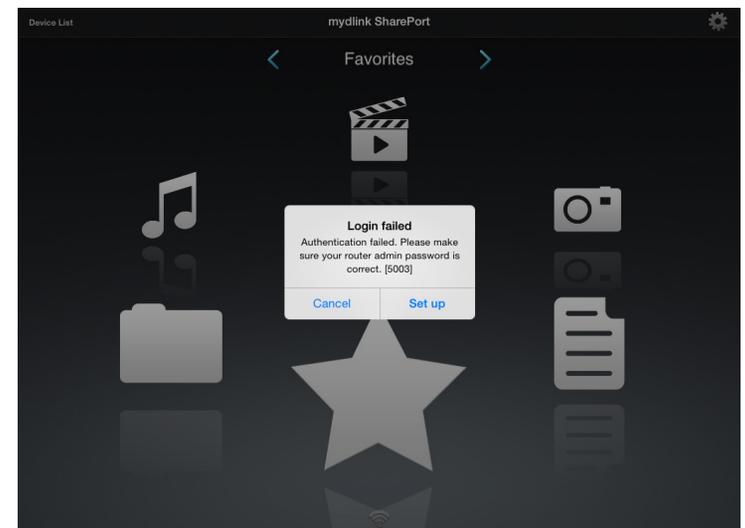
If you have a QR code reader, you can scan the code to the right for **mydlink SharePort**.



4. Tap the **mydlink Share Port** icon and the app will load.



5. If this is your first time installing a mydlink™ app, you will see this pop-up screen indicating that *Login failed*. Tap **Set up** to go to the *Settings* screen.



6. Enter the Admin **Password** and your **mydlink Account Login** information. Tap **Done** in the top right corner.

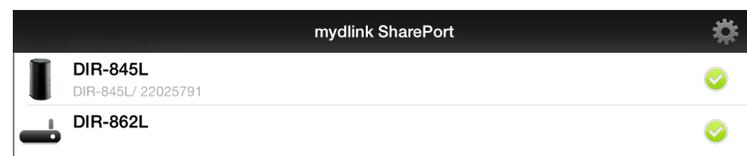
**Note:** If you can connect through the Internet (Remote mode), you can leave the Admin password blank. The Admin password is only required for local access. (Refer to “[mydlink SharePort™ for iOS Devices in a Local Network](#)” on page 119.

**Note:** If you have more than one device registered to your mydlink account, you will be prompted to select the device you wish to use.

7. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom of the screen will be lit green to indicate you are connected to the router through Remote Access.

**Note:** If you see a red wireless icon at the bottom of the screen, your router’s network environment may not be suitable for a direct network connection and you may experience slow network speeds.

If you need to change your settings, tap the gear icon at the top right corner to access the *Settings* page.



## mydlink SharePort™ for iOS Devices in a Local Network

1. Make sure the DIR-866L is powered on. Then plug your USB drive into the USB port on the back of the router.

**Note:** If you connect a USB drive containing many files or with a large capacity, it may take a while for the router to scan and catalog your files.



2. Use your iPhone, iPad or iPod touch to search for and download the free **mydlink SharePort** app from the App Store.

If you have a QR code reader, you can scan the code to the right for **mydlink SharePort**.



3. On your mobile device, go to your Wi-Fi settings and connect to your router's wireless network using the default Wi-Fi settings\*. You will find the Wi-Fi name (SSID) and password for your router printed on the included Wi-Fi Configuration Card.

**\*Note:** For the 2.4Ghz band, the SSID is *dlink-XXXX*, with *XXXX* representing the last four digits of your router's MAC address. For the 5GHz band, the SSID is *dlink-XXXX-5GHz*.



4. Tap the **mydlink Share Port** icon and the app will load.



5. If you see this pop-up screen indicating that *Login failed*, tap **Set up** to go to the *Settings* screen.



6. Enter the Admin **Password** and tap **Done** in the top right corner.

**Note:** *The Admin Password is your router's administrator account, which may be different than the password used to connect to the W-Fi Network.*



7. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom of the mydlink SharePort screen will be lit blue to indicate a Local Access connection.

**Note:** *If you see a red wireless icon at the bottom of the screen, your router's network environment may not be suitable for a direct network connection and you may experience slow network speeds.*

If you need to change your settings, tap the gear icon at the top right corner to access the *Settings* page.



## Main Menu

The mydlink SharePort main menu has different sections that allow you to view all the documents, photos, movies, or music stored on your USB drive. Tap < or >, or swipe left or right to move between the different sections. The Wi-Fi icon at the bottom indicates an active local network connection (blue) or remote connection (green/red). Tap the **gear icon** in the upper right corner if the Wi-Fi icon is not lit.



Tap on the **document** icon to view documents.



Tap the **camera** icon to view photos.



Tap on the **movie** icon to play videos.



Tap on the **music** icon to play audio files.



Tap on the **folder** icon to browse all files in a folder view.

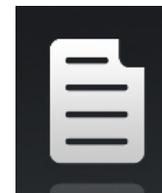


Tap on the **star** icon to access your favorite files.



# Documents

The Documents section allows you to share, print, and view documents streamed from your DIR-866L to your mobile device. Tap the **document** icon on the main menu to browse the documents on your mobile device.



**Search Bar:** Enter a filename here to search your storage.



Tap **Edit** to mark files for deletion.

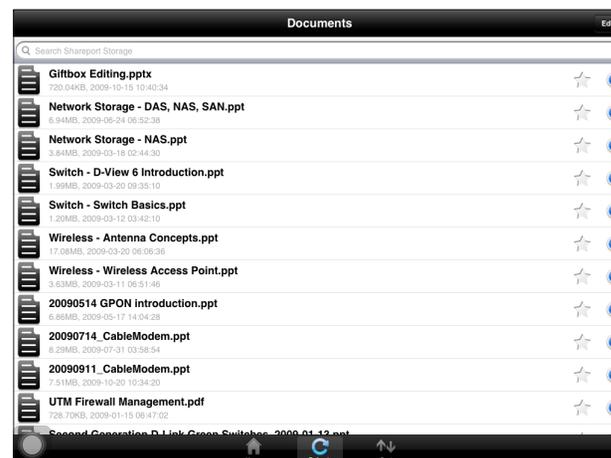


Tap the **star** icon next to each file to download it to your device and add it into your Favorites section.



Tapping the **arrow** icon gives you additional options:

- **Open In...:** Tap to use a third-party app to open the file.



The bottom menu bar includes these options:



Tap **Home** to go back to the main menu.



Tap **Refresh** to update the list of files.



Tap **Sort** to reorder the files alphabetically.

Tap on a file to start the document viewer. In the viewer:

 Tap to add/remove the file from your Favorites.

 Tap to bring up the same options as (>) on the previous page.

**Note:** Some files may require a third-party app to view them.



# Pictures

The Pictures section allows you to stream images from your DIR-866L to your mobile device. Tap the **camera** icon on the main menu to browse your photo collection on your removable storage.



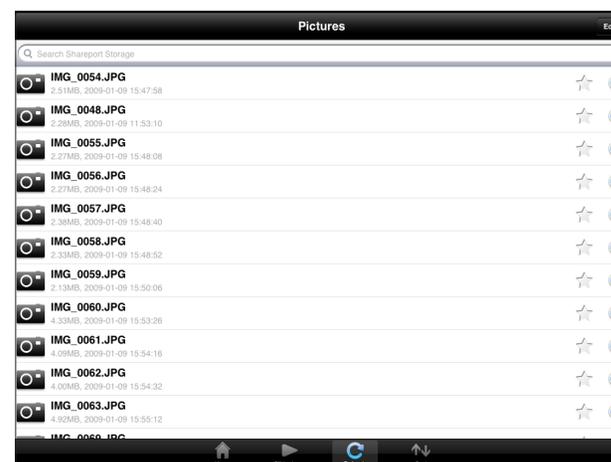
**Search Bar:** Enter a filename here to search your storage.

 Tap **Edit** to mark files for deletion.

 Tap the **star** icon next to each file to download it to your device and add it into your Favorites section.

 Tapping the **arrow** icon gives you additional options:

- **Open In...:** Tap to use a third-party app to open the file.



The bottom menu bar includes these options:

 Tap **Home** to go back to the main menu.

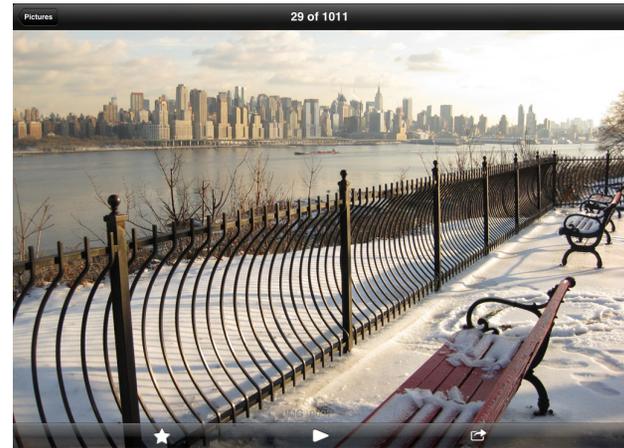
 Tap **Slideshow** to start a slideshow of your photos. Tap the screen again to bring up the menu.

 Tap **Refresh** to update the list of files.

 Tap **Sort** to reorder the files alphabetically.

Tap on a file to start the photo viewer. In the viewer:

- ★ Tap to add/remove the current image from your Favorites.
- ▶ Tap to start the slideshow.
- 🔗 Tap to bring up the same image options as (>) on the previous page.



## Videos

The Videos section allows you to stream video clips and movies from your DIR-866L to your mobile device. Tap the **movie** icon on the main menu to browse your videos on your removable storage.



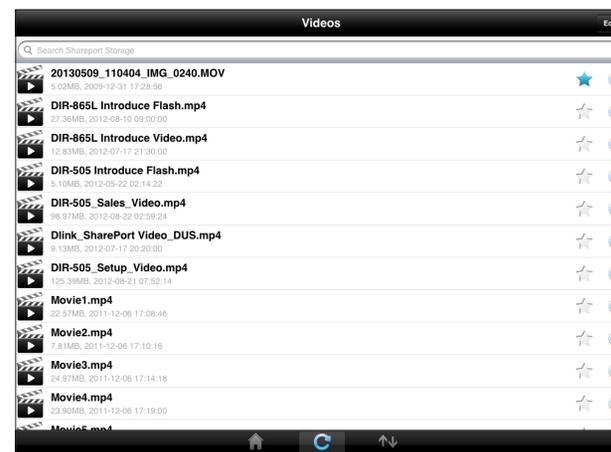
**Search Bar:** Enter a filename here to search for a specific file.

 Tap **Edit** to mark files for deletion.

 Tap the **star** icon next to a file to download it to your device and add it into your Favorites section.

 Tapping the **arrow** icon gives you additional options:

- **Open In...:** Lets you use a third-party app to open the file.



The bottom menu bar includes these options:

 Tap **Home** to go back to the main menu.

 Tap **Refresh** to update the list of files.

 Tap **Sort** to reorder the files alphabetically.

Tap on a file to start playing it. In the player:

 Tap to play/pause the video. You can scroll to any time on the time line by holding and sliding your finger.

 Tap to enter/exit full-screen mode.

 Tap to add/remove the file from your Favorites.

 Tapping this icon gives you additional options:

- **Open In...:** Lets you use a third-party app to open the file.



# Music

The Music section allows you to stream songs from your DIR-866L to your mobile device. Tap the **music** icon on the main menu to browse your music collection on your removable storage.



**Search Bar:** Enter a filename here to search your storage.



Tap **Edit** to create a playlist and mark files for deletion.

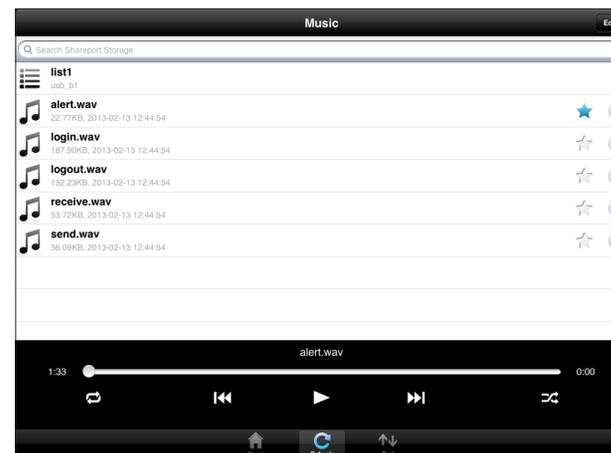


Tap the **star** icon next to each file to download it to your device and add it into your Favorites section.



Tapping the **arrow** icon gives you additional options:

- **Open In...:** Lets you use a third-party app to open the file.



The bottom menu bar includes these options:



Tap **Home** to go back to the main menu.



Tap **Refresh** to update the list of files.



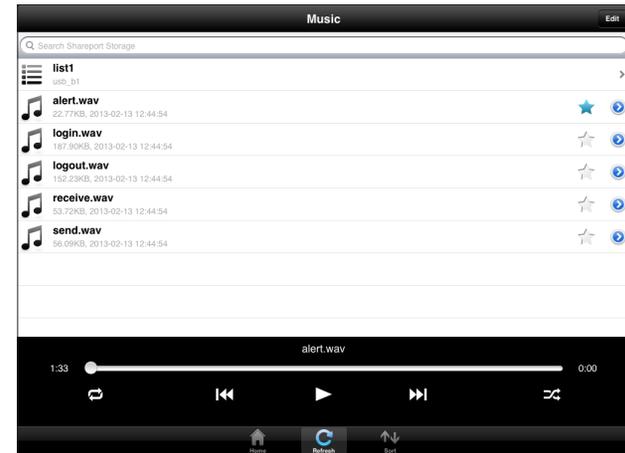
Tap **Sort** to reorder the files alphabetically.

Tap on a file to start playing it. In the player:

  Tap to repeat all. Tap again to repeat a single song.

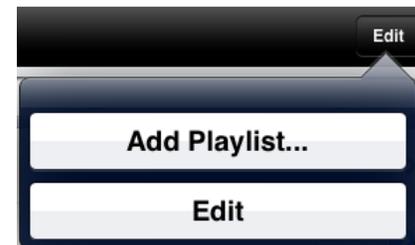
  Tap to skip to the previous/next song.

 Tap to enable/disable shuffle mode.



To create a playlist:

- Tap **Edit** > **Add Playlist...** The *New Playlist* window will open.
- Enter a name for the new playlist, then tap **Save**.
- The name of the playlist will appear in the browser next to the  icon.

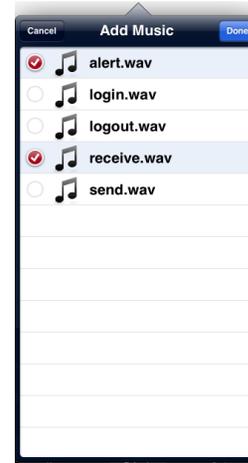


To add songs to a playlist:

- Tap the **playlist** in the browser.
- Tap **Add Music...** to add songs to the current playlist.
- Tap to the left of the file names to add check marks for the songs you would like to add.
- Tap **Done**. The playlist will be saved.

To delete songs from the playlist:

- Tap **Edit** in the playlist browser and add check marks by the names of the files to be deleted.
- Tap **Delete**.



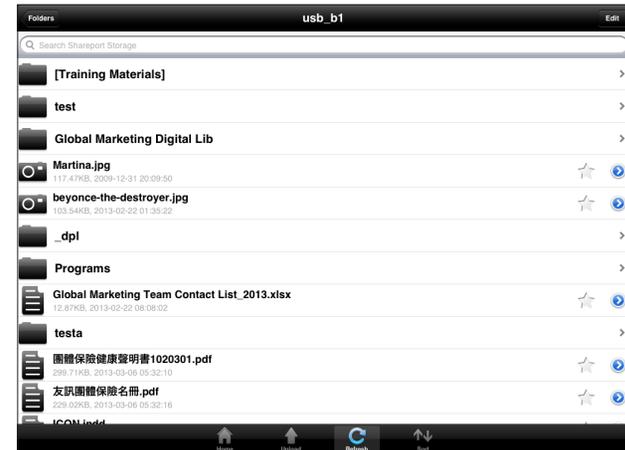
## Folders

You can view the contents of your USB drive, using a folder view in the folders section. Tap the **filename** to open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the USB drive attached to your router.



**Search Bar:** Enter a filename here to search your storage.

-  Tap **Edit** to take you to the editing screen where you can add a folder and mark files for deletion or copying.
-  Tap the **star** icon next to each file to download it to your device and add it into your Favorites section.
-  Tapping the **arrow** icon gives you additional options depending on the file type.

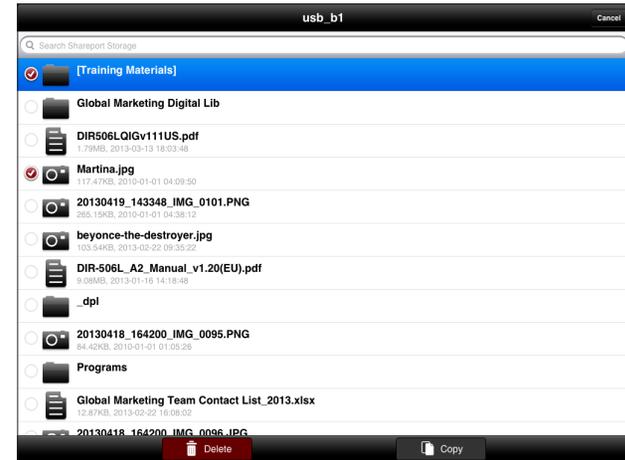


The bottom menu bar includes these options:

-  Tap **Home** to go back to the main menu.
-  Tap **Upload** to upload files from your device to your removable storage.
-  Tap **Refresh** to update the list of files.
-  Tap **Sort** to reorder the files alphabetically.

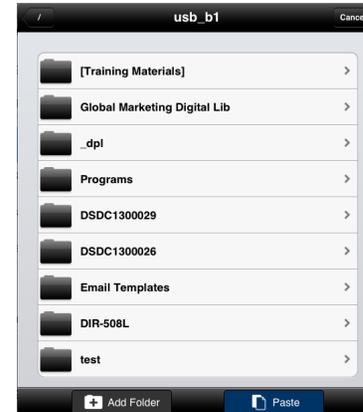
## To delete files:

- Tap **Edit** at the top right.
- Tap to the left of the file icon to mark it for deletion.
- Tap on **Delete** at the bottom to delete the file.



## To copy files:

- Tap on **Copy** to bring up a window where you can select the folder to copy files to.
- Browse to the directory you want to copy the marked files to and tap **Paste**.
- You can also tap **Add Folder** to create a new folder.



## To create a new folder:

- Browse to the directory you wish to create a new folder in.
- Tap **Edit** at the top right.
- Tap **Add Folder** to add a new folder. The *Create a New Folder* window will open.
- Enter the **Name** of the new folder, then tap **Save**.
- Tap **OK** to confirm folder creation.



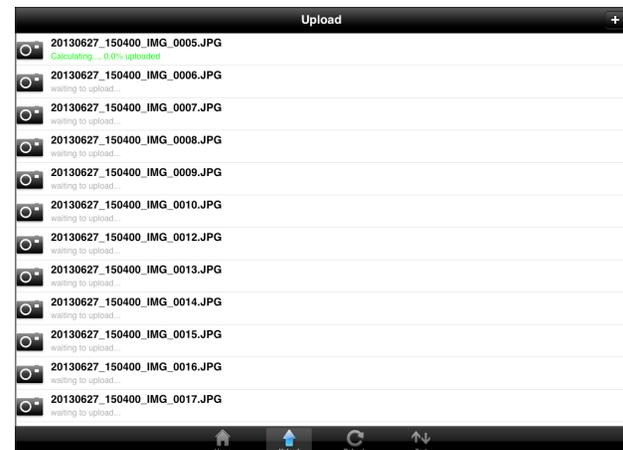
To upload images and videos from your mobile device:

- Browse to the folder you wish to upload files to.
- Tap **Upload** at the bottom. The *Pick Photos* window will open.
- Tap to select the photos and/or videos you wish to upload.
- Tap **Done**.



During the upload process, the size of the file and the upload progress will be displayed.

To upload more files, tap the + icon at the top right and repeat the steps listed above.



## Favorites

The Favorites section allows you to quickly access your most frequently used files, no matter what file type, in a special section. Files added to the Favorites section will be copied here for playback in a centralized location.



 Tap **Edit** to mark files for deletion from the local storage in Favorites. The file will still be accessible in other mydlink SharePoint sections.

 Tapping the **arrow** icon gives you additional options depending on the file type.

The bottom menu bar includes these options:

 Tap **Home** to go back to the main menu.

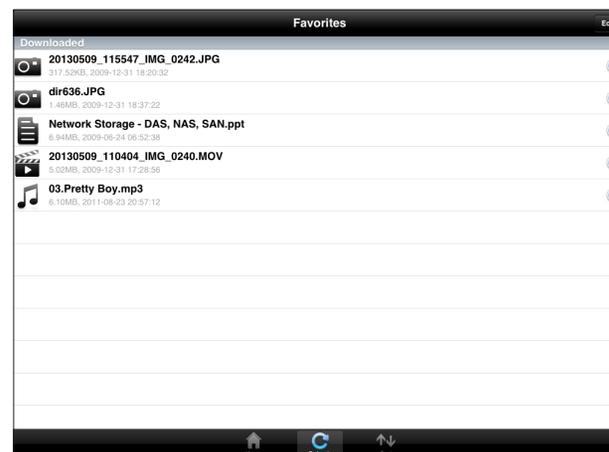
 Tap **Refresh** to update the list of files.

 Tap **Sort** to reorder the files alphabetically.

Tap on a file to start the file viewer. In the viewer:

 Tap to add/remove the file from your Favorites.

 Tap to bring up additional options.



**Note:** The file options available will vary depending on the file type.

# Using the mydlink SharePort™ App for Android™

The mydlink SharePort™ app is a mobile application that allows you to conveniently stream media and share files stored on a USB drive connected to your DIR-866L. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access your photos, videos, music, and documents. The SharePort app allows you to create your own personal cloud storage. You can upload files and photos from your mobile device to the removable storage via the app from anywhere in the world!

**Note:** *In order to ensure smooth streaming performance, you will need a minimum of 2 Mbit/s upload bandwidth for your router's Internet connection. Streaming performance will vary depending on the quality of your Internet connection.*

The instructions that follow are for the mydlink SharePort app for Android devices. For the mydlink SharePort app for iPad®, iPhone®, and iPod Touch®, refer to [“Using the mydlink SharePort™ App for iOS Devices” on page 116](#).

## Connect Remotely from the Internet

1. If you are connecting remotely through the mydlink SharePort™ app from the Internet, you will need a **mydlink** account. (For more information, go to [www.mydlink.com](http://www.mydlink.com).)
2. Make sure the DIR-866L is powered on. Then plug your USB drive into the USB port on the back of the router.

**Note:** *If you connect a USB drive containing many files or with a large capacity, it may take a while for the router to scan and catalog your files.*



3. Use your Android mobile device to search for and download the free **mydlink SharePort** app from Google Play™.

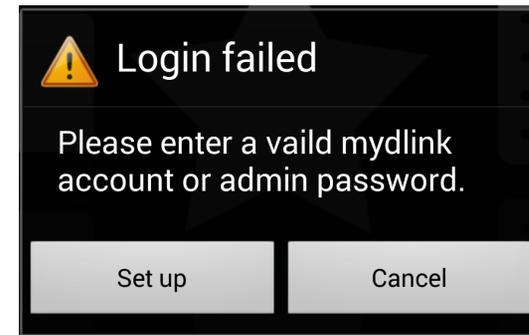


If you have a QR code reader, you can scan the code to the right for **mydlink SharePort**.

4. Tap the **mydlink SharePort** icon, and the app will load.



5. If this is your first time installing a mydlink™ app, you will see this pop-up screen indicating that *Login failed*. Tap **Set up** to go to the *Settings* screen..



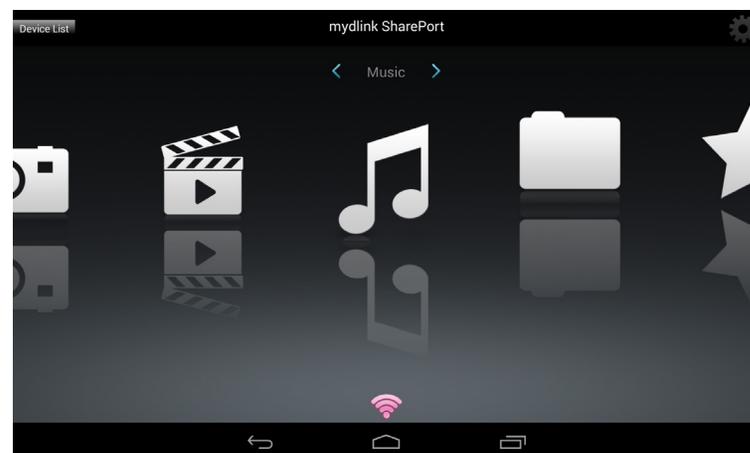
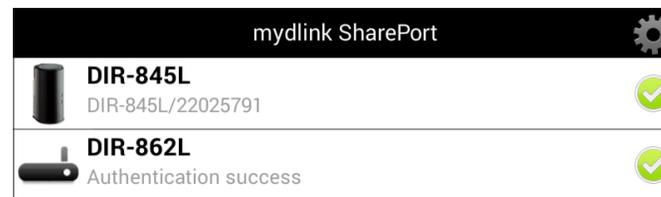
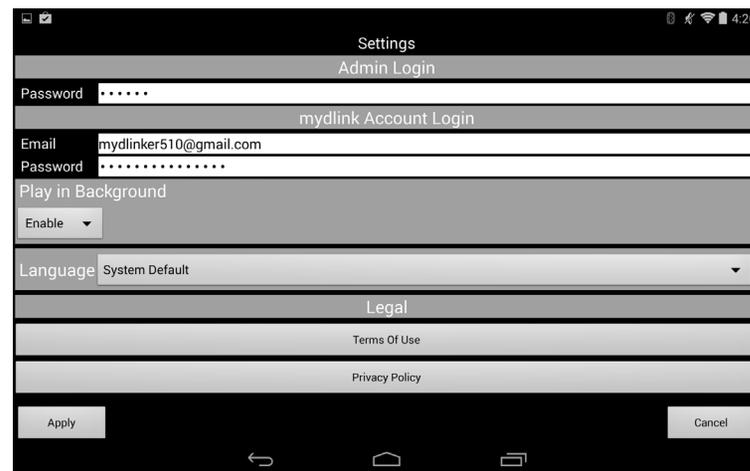
6. Under *Admin Login*, enter the **Password** and your **mydlink Account Login** information. Tap **Apply** in the lower left corner.

**Note:** If you can connect through the Internet (Remote mode), you can leave the Admin password blank. The Admin password is only required for local access. (Refer to “[mydlink SharePort™ for Android in a Local Network](#)” on page 139.)

**Note:** If you have more than one device registered to your mydlink account, you will be prompted to select the device you wish to use.

7. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom of the screen will be lit green to indicate you are connected to the router through Remote Access.

**Note:** If you see a red wireless icon at the bottom of the screen, your router’s network environment may not be suitable for a direct network connection and you may experience slow network speeds.



## mydlink SharePort™ for Android in a Local Network

1. Make sure the DIR-866L is powered on. Then plug your USB drive into the USB port on the back of the router.

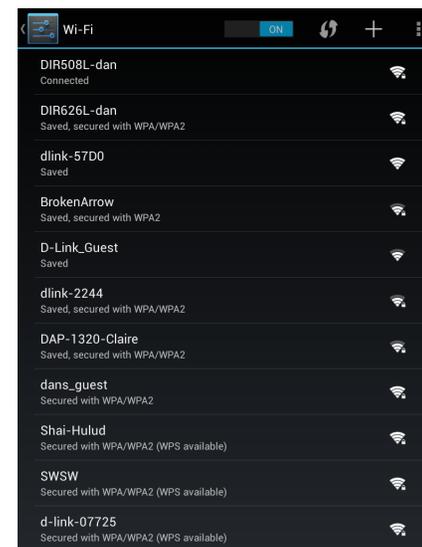
**Note:** If you connect a USB drive containing many files or with a large capacity, it may take a while for the router to scan and catalog your files.

2. Use your Android mobile device to search for and download the free **mydlink SharePort** app from Google Play™.

If you have a QR code reader, you can scan the code to the right for **mydlink SharePort**.

3. On your mobile device, go to your Wi-Fi settings and connect to your router's wireless network using the default Wi-Fi settings.\* You will find the Wi-Fi name (SSID) and password for your router printed on the included Wi-Fi Configuration Card.

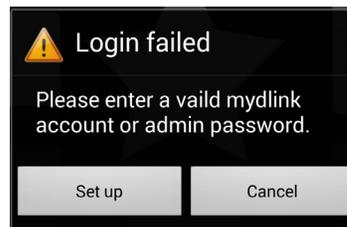
**\*Note:** For the 2.4GHz band, the SSID is *dlink-XXXX*, with *XXXX* representing the last four digits of your router's MAC address. For the 5GHz band, the SSID is *dlink-XXXX-5GHz*.



4. Tap the **mydlink SharePort** icon, and the app will load.

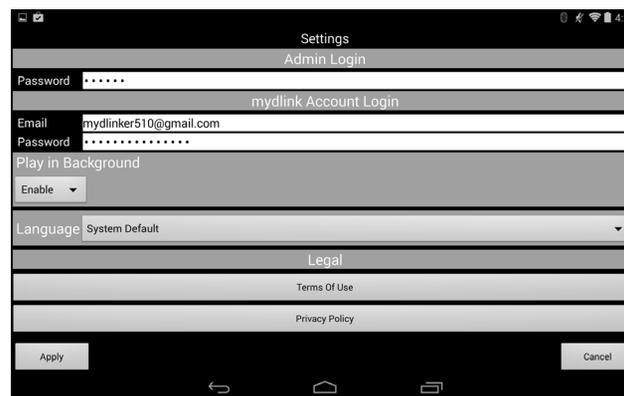


5. If you see this pop-up screen indicating that *Login failed*. Tap **Set up** to go to the *Settings* screen..



6. Under *Admin Login*, enter your **Password**. Tap **Apply** in the lower left corner.

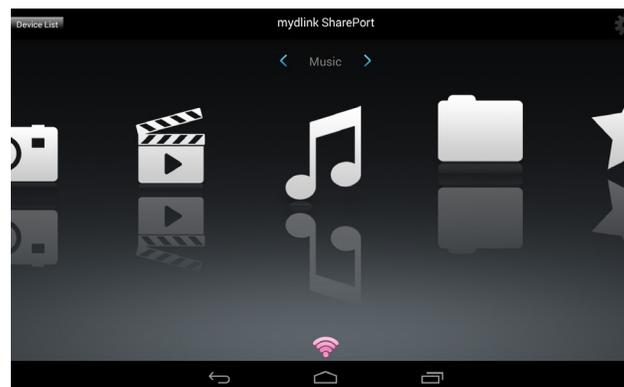
**Note:** *The Admin Password is your router's administrator account, which may be different than the password used to connect to your W-Fi Network.*



7. You can now use the mydlink SharePort app interface to stream media and access files stored on your USB drive. The wireless icon at the bottom will be lit blue to indicate you have a good Local Access connection.



**Note:** *If you see a red wireless icon, your router's network environment may not be suitable for a direct network connection and you may experience slow network speeds.*



## Main Menu

The mydlink SharePort main menu has different sections that allow you view all the documents, photos, movies, or music stored on your USB drive. Tap < or >, or swipe left or right to move between the different sections. The Wi-Fi icon at the bottom indicates an active local network connection (blue) or remote connection (green/red). Tap the **gear icon** in the upper right corner if it is not lit.



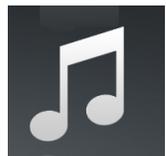
Tap on the **document** icon to view documents.



Tap the **camera** icon to view photos.



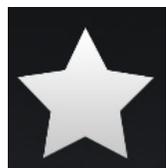
Tap on the **movie** icon to play videos.



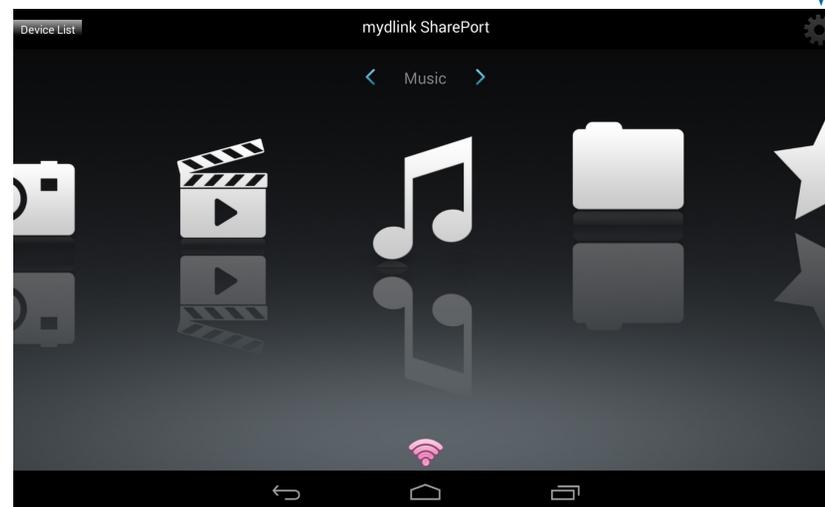
Tap on the **music** icon to play audio files.



Tap on the **folder** icon to browse files in a folder view.



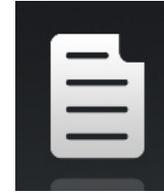
Tap on the **star** icon to access your favorite files.



**Note:** Available features may differ depending on the Android OS version of your device.

# Documents

The Documents section allows you to share, print, and view documents streamed from your DIR-866L to your mobile device. Tap the **document** icon on the main menu to browse the files on your mobile device.



**Search Bar:** Type in the name of a file to search for it.



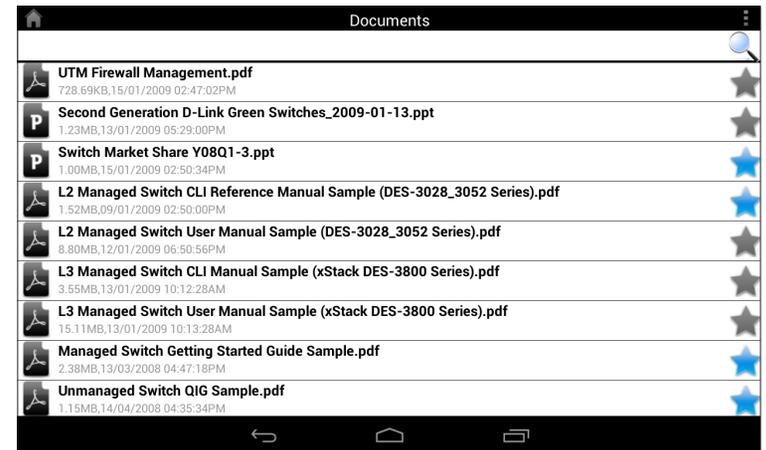
Tap the icon to return to the main menu.



Tap the icon to refresh, sort, or mark files for deletion.



Tap the star icon next to each file to download it to your device and add it into your Favorites section.



Tap for additional options:



Tap the icon to return to the main menu.



Tap the icon to update the list of files.



Tap the icon to sort the files by name, size, type, or date.



Tap the check box to select a file, then tap trash icon to delete it.



Tap on a file to start the document viewer. In the viewer:

- Tap the screen to reveal the zoom in/out buttons.
- Drag the screen up or down to scroll between pages.
- Tap  to perform actions like Find, Zoom, Reading View, Go to Page, and Bookmarks.\*

**\*Note:** Available actions may differ depending on your Android OS.



# Pictures

The Pictures section allows you to view images streamed from your DIR-866L to your mobile device. Tap the **camera** icon on the main menu to browse your photo collection on your removable storage.



**Search Bar:** Type in the name of a file to search for it.



Tap the icon to return to the main menu.



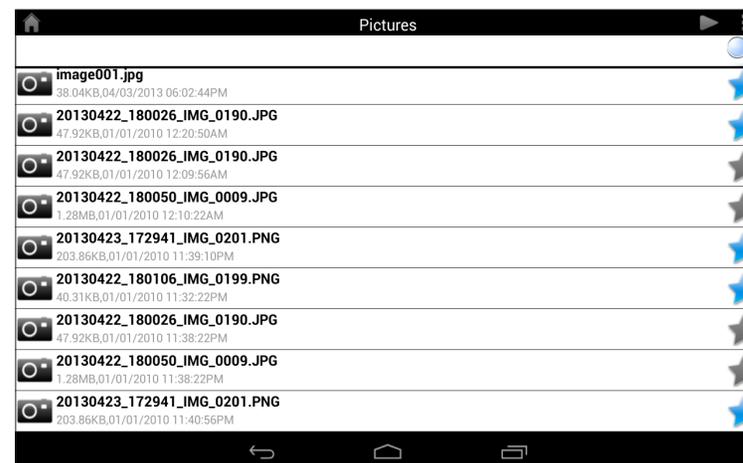
Tap the icon to start a slideshow.



Tap the icon to refresh, sort, or mark files for deletion.



Tap the star icon next to each file to download it to your device and add it into your Favorites section.



Tap  for additional options:



Tap the icon to return to the main menu.



Tap the icon to update the list of files.



Tap the icon to sort the files by name, size, type, or date.



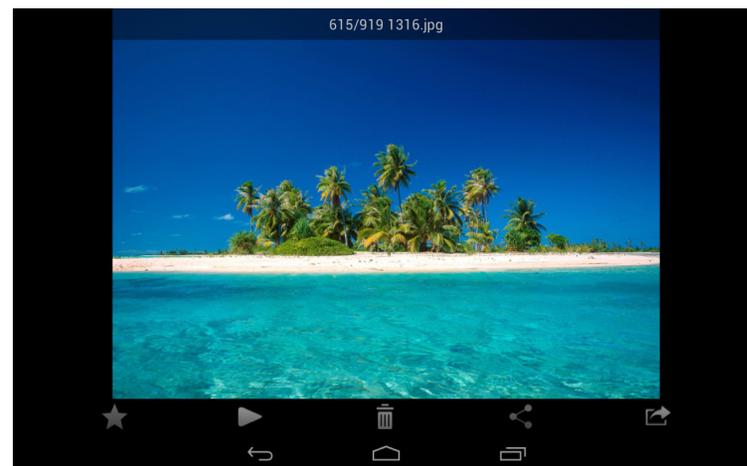
Tap the check box to select a file, then tap the trash icon to delete it.



Tap on an image file to start the image viewer. In the viewer:

-  Tap the star icon to download the image file to your device and add it into your Favorites section.
-  Tap the icon to start a slideshow. Tap the image to stop the slideshow.
-  Tap the icon to delete the current image. Tap **OK** to confirm.
-  Tap the icon to bring up additional options using other applications.
-  Tap the icon to access the image editor.

**Note:** *These functions may vary depending on the version of your Android OS.*



# Videos

The Videos section allows you to stream video clips and movies from your DIR-866L to your mobile device. Tap the **movie** icon on the main menu to browse your videos on your removable storage.



**Search Bar:** Type in the name of a file to search for it.



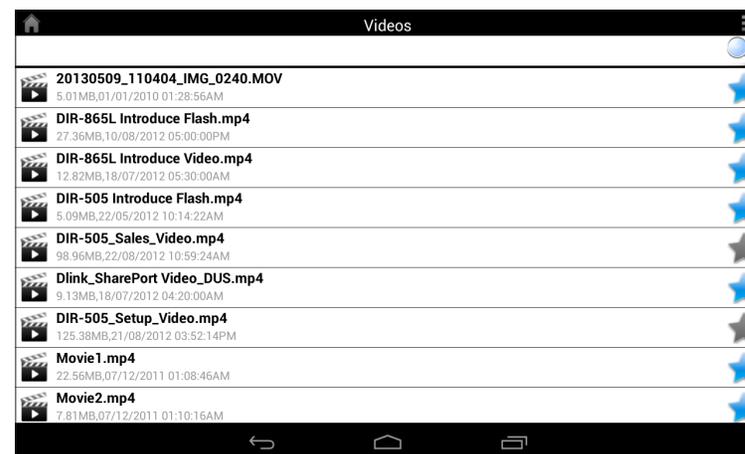
Tap the icon to return to the main menu.



Tap the icon to refresh, sort, or mark files for deletion.



Tap the star icon next to a file to download it to your device and add it into your Favorites section.



Tap  for additional options:



Tap the icon to return to the main menu.



Tap the icon to update the list of files.



Tap the icon to sort the files by name, size, type, or date.



Tap the check box to select a file, then tap the trash icon to delete it.



Tap on a file to start playing it. Tap on the screen to bring up the scroll bar, pause button, and play button.

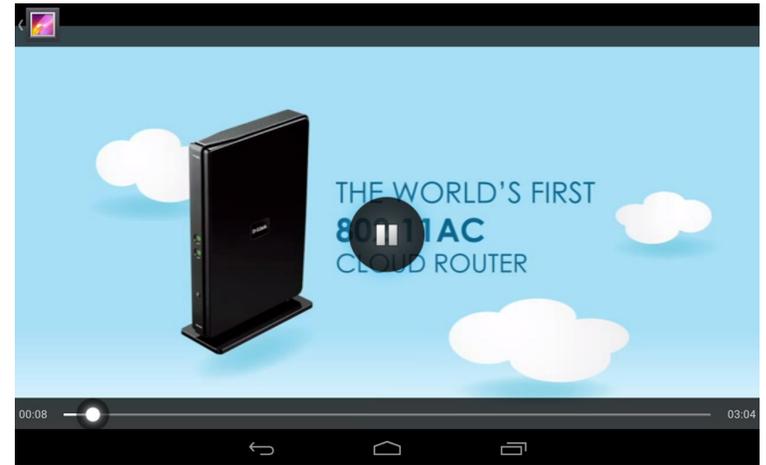


Tap to resume playback.



Tap to pause the video.

**Note:** Available features may vary depending on the Android OS version installed on your device.



# Music

The Music section allows you to stream songs from your DIR-866L to your mobile device. Tap the **music** icon on the main menu to browse your music collection on your removable storage.



**Search Bar:** Type in the name of a file to search for it.



Tap the icon to return to the main menu.



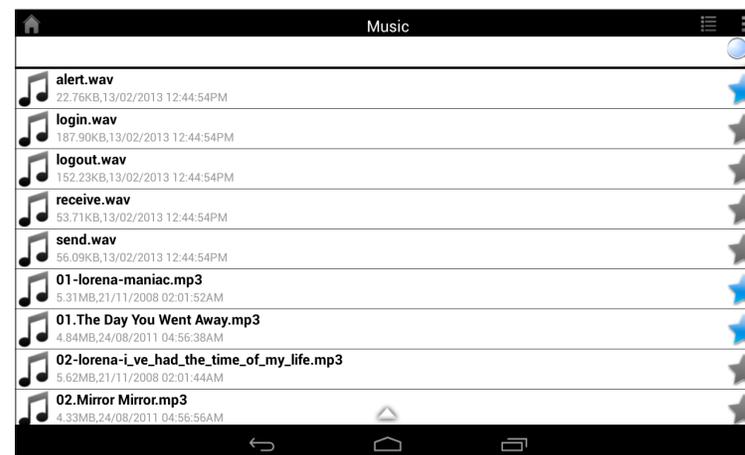
Tap the icon to refresh, sort, or mark files for deletion.



Tap the icon to browse your playlists.



Tap the star icon next to a file to download it to your device and add it into your Favorites section.



Tap for additional options:



Tap the icon to return to the main menu.



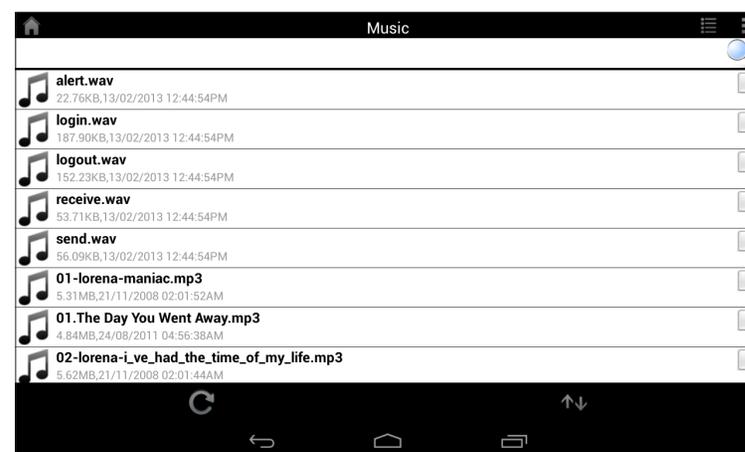
Tap the icon to update the list of files.



Tap the icon to sort the files by name, size, type, or date.



Tap the check box to select a file, then tap the trash icon to delete it.



Tap on a file to start playing it. In the player:

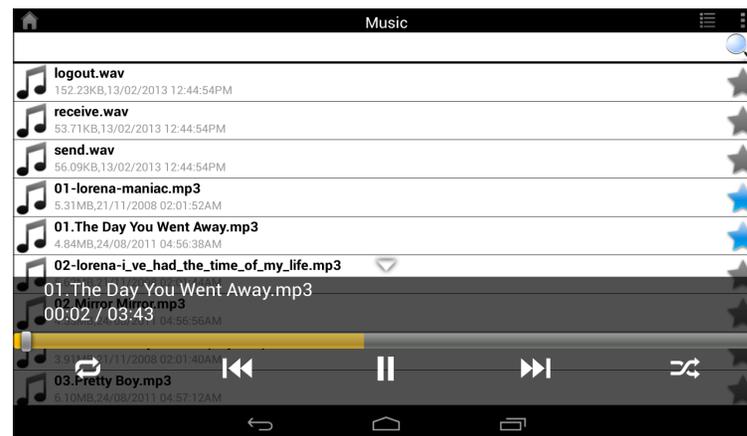
 Tap on the up/down arrow to show/hide the player controls.

  Tap to repeat all. Tap again to repeat a single song.

  Tap to skip to the previous/next song.

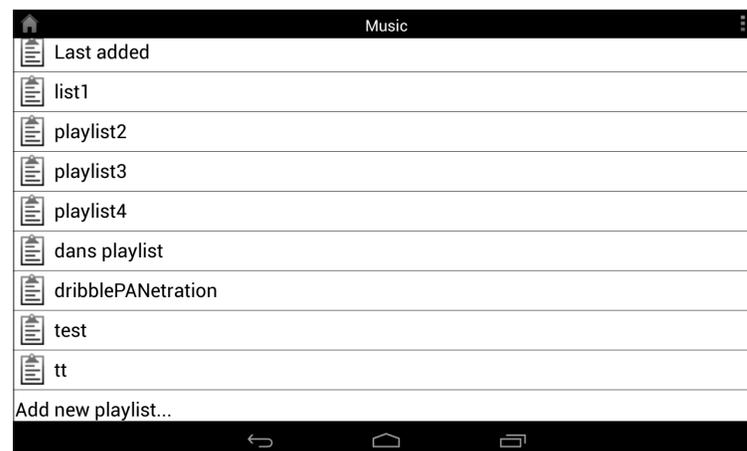
 Tap to play or pause the song.

 Tap to enable/disable shuffle mode.



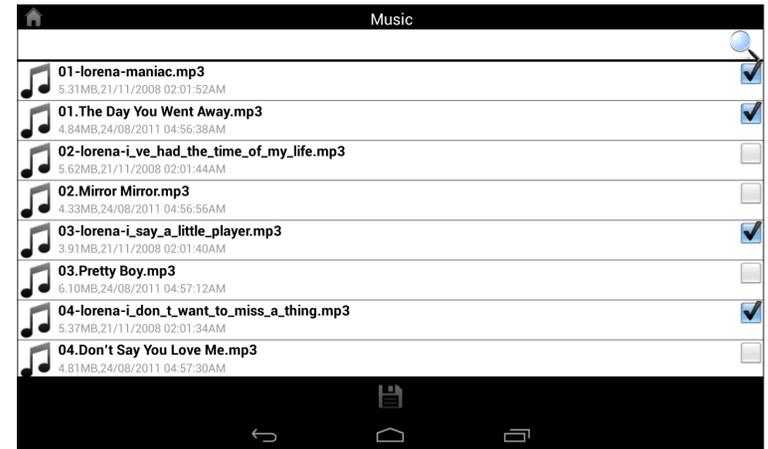
To create a playlist:

- Tap 
- Tap **Add new playlist...**
- Enter a name for the playlist, then tap **OK**. The name of the playlist will appear in the browser next to the  icon.
- You can tap  then  to refresh the playlist page.



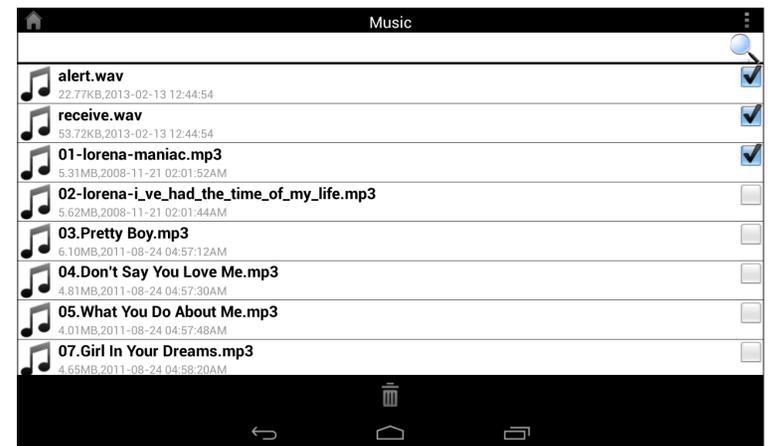
To add songs to a playlist:

- Tap a playlist to see its contents.
- Tap **Add Music...** to add songs to the current playlist.
- Tap the check boxes by the songs you wish to add, and tap  to save.



To delete songs from the playlist:

- Tap **Edit** in the playlist browser and tap the check boxes by the files you would like to delete.
- Tap  then tap **OK** to confirm deletion.



# Folders

You can view the contents of your removable storage, using a folder view in the folders section. Tap the **filename** to open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the USB drive attached to your router.



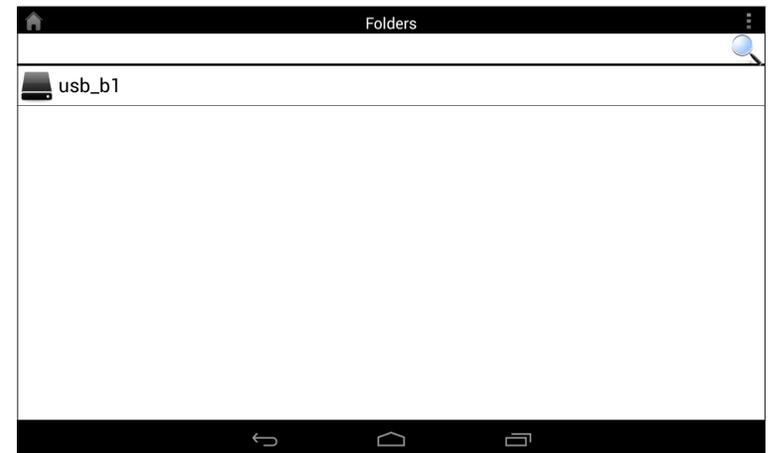
**Search Bar:** Type in the name of a file to search for it.



Tap the icon to return to the main menu.



Tap the icon to access file options.



In the file browser:



Tap the icon to return to the main menu.



Tap the icon to upload files.

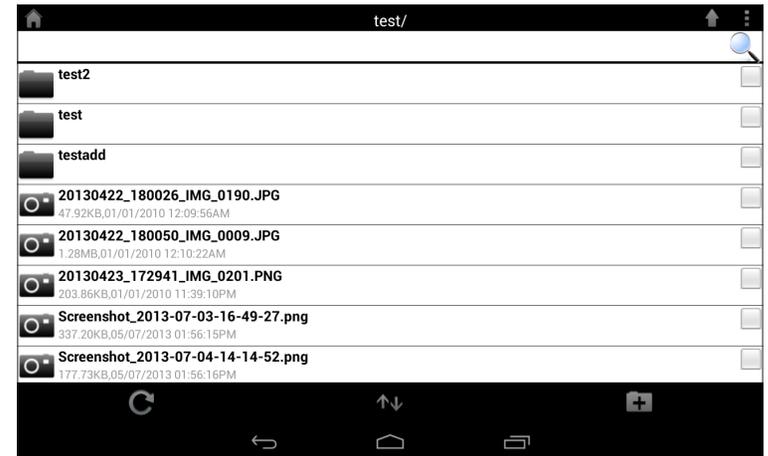


Tap the icon to refresh, sort, create a new folder, or mark files for deletion and copying. (See the list beginning on the next page for details.)



Tap  to select files and perform the following actions:

-  Tap the icon to update the list of files.
-  Tap the icon to sort the files by name, size, type, or date.
-  Tap the icon to create a new folder.
-  Tap the check box to select a file, then tap this icon to delete it.
-  Tap the check box to select a file, then tap this icon to copy it.



To delete files:

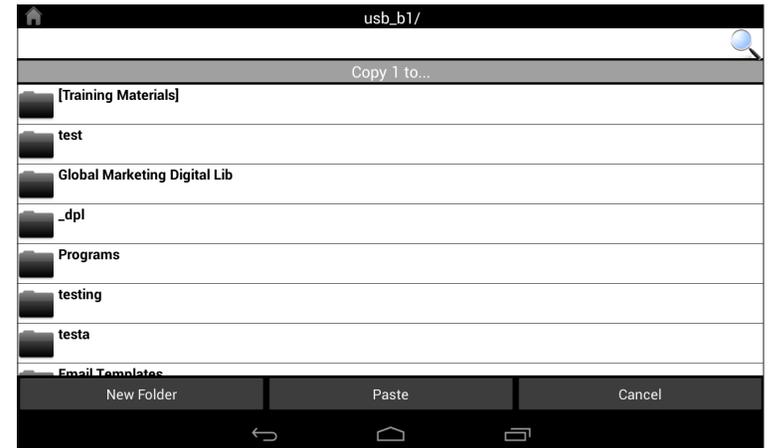
- Tap on  and tap the check box next to a file to select it.
- Tap on  to delete selected files. Tap **OK** to confirm.

To copy files:

- Tap on  and tap the check box next to each file to be copied.
- Tap on  to browse for a destination folder for the file copies.

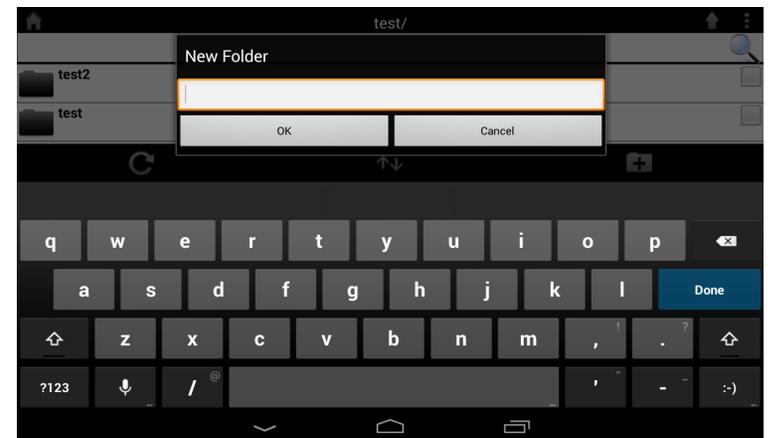


- You have the option to **Paste** the copy to a destination folder or **Cancel**.
- You may also tap **New Folder** if you wish to create a new destination folder in the current directory.



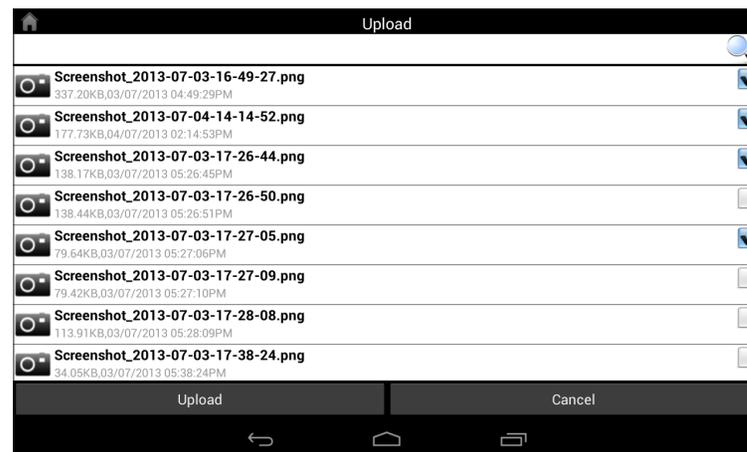
To create a new folder:

- Browse to the directory you wish to create a new folder in.
- Tap  then .
- Enter the **Name** of the new folder in the box, then tap **OK**.



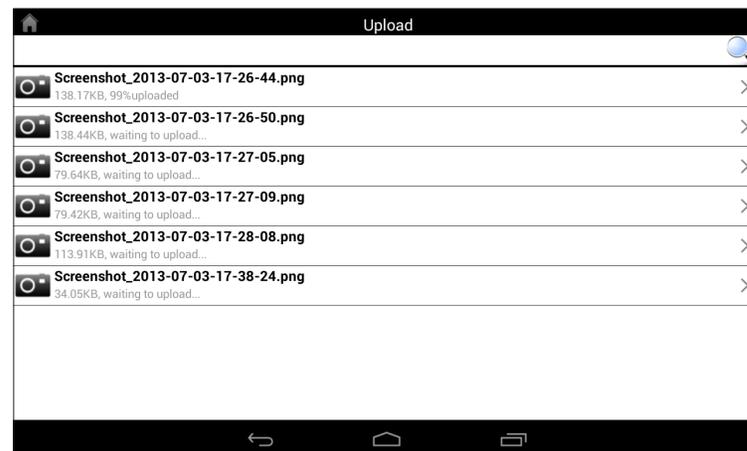
To upload images and videos from your mobile device:

- Browse to the folder you wish to upload to.
- Tap  and browse to the file or files you wish to upload from the local device.
- Tap the check box next to each of the files you wish to upload.
- Tap **Upload**.



During the upload process, the size of the file and the upload progress will be displayed under the file name.

- To remove a file from the upload queue, tap the **X** to the right of the filename.



## Favorites

The Favorites section allows you to quickly access your most frequently used files, no matter what file type, in a special section. Files added to the Favorites section will be copied here for playback in a centralized location.



**Search Bar:** Type in the name of a file to search for it.



Tap the icon to return to the main menu.



Tap the icon to refresh, sort, or mark files for deletion.

Tap  for additional options:



Tap the icon to return to the main menu.



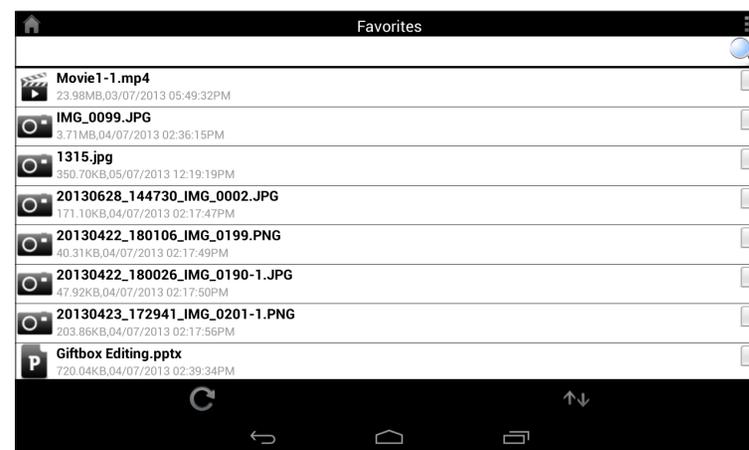
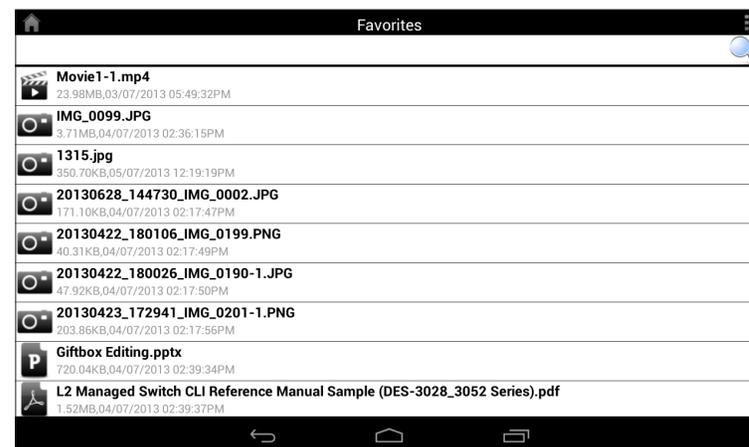
Tap the icon to update the list of files.



Tap the icon to sort the files by name, size, type, or date.



Tap the check box to select a file, then tap the trash icon to delete it.



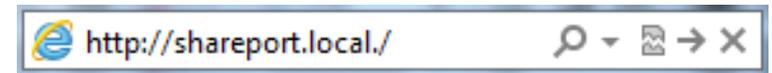
# Using SharePort with a Web Browser for Local Access

SharePort Web Access lets you stream music, photos, and movies from a USB drive attached to your DIR-866L through a Web browser. You can also download and upload files to and from your computer through the Web browser interface.

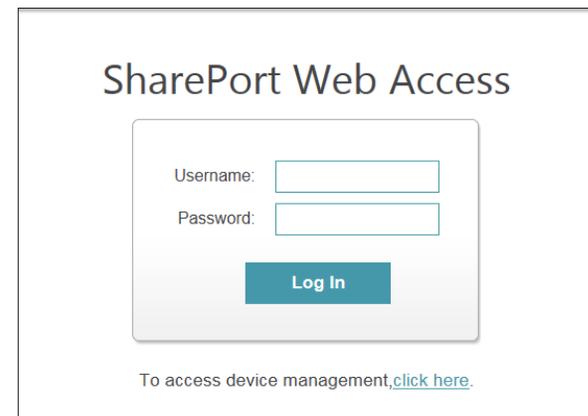
1. Make sure the DIR-866L is powered on and a USB drive is plugged into the USB port on the back of your router. Also make sure your router is connected to the Internet.



2. From your web browser (e.g., Internet Explorer, Firefox, Chrome or Safari) type: **http://shareport.local/** to go to the SharePort Web Access log in page.



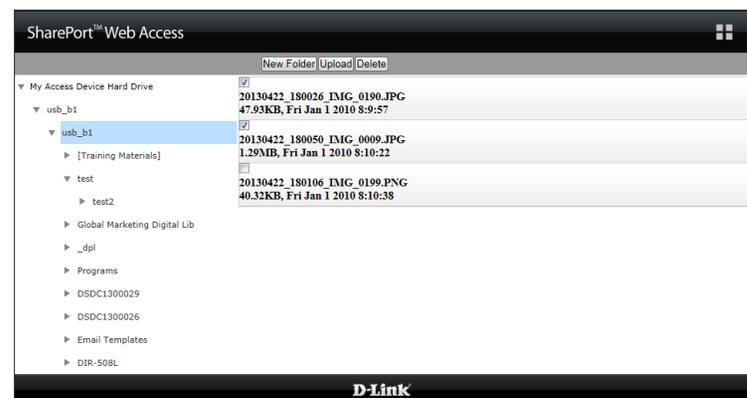
3. Log in with your admin password or a SharePort **Username** and **Password**.



4. From the main menu, you can browse the files stored on your USB drive by file type. Click the (  ) icon in the top right corner to browse by folder.



5. In the folder browser window, you will see the folder hierarchy to the left, and filenames to the right. You can browse directories and perform operations using the buttons in the folder browser view. (Refer to the instructions below.) Click the (  ) icon in the top right corner to return to the main menu.

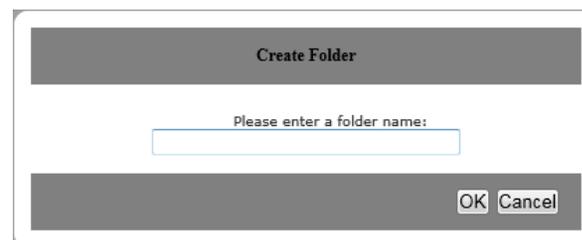


To create a new folder:

Click **New Folder** in the current directory.

Enter a **folder name** in the *Create Folder* window.

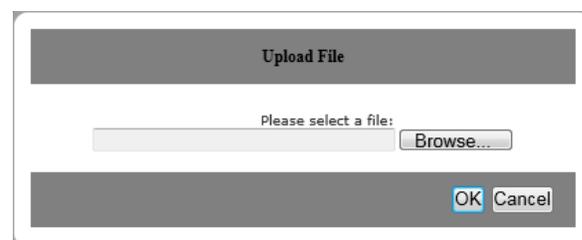
Click **OK**. The new folder will appear in the left column.



To upload a file:

Click **Upload** to upload a file to the current folder. The *Upload File* window will open.

Click **Browse** and select the file you wish to upload. Click **OK**. The file will appear after the browser refreshes.



To delete a file:

Check the check box next to the file(s) you wish to delete.

Click **Delete** and a dialog box will appear.

Click **OK** to confirm that you want to delete the file.



# Music

You can go to the Music section to browse and play the music files on your storage. Click **Back** to return to the main menu.

- Click on the audio filename to play it in the browser.



You can pause, seek, mute and adjust the volume in the control window.

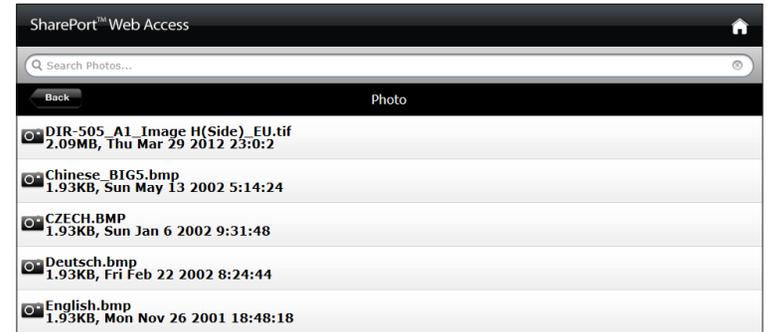
- Close the control window to end playback.



# Pictures

You can go to the Pictures section to browse and view the image files on your storage. Click **Back** to return to the main menu.

- Click on the image filename to view it in the browser.



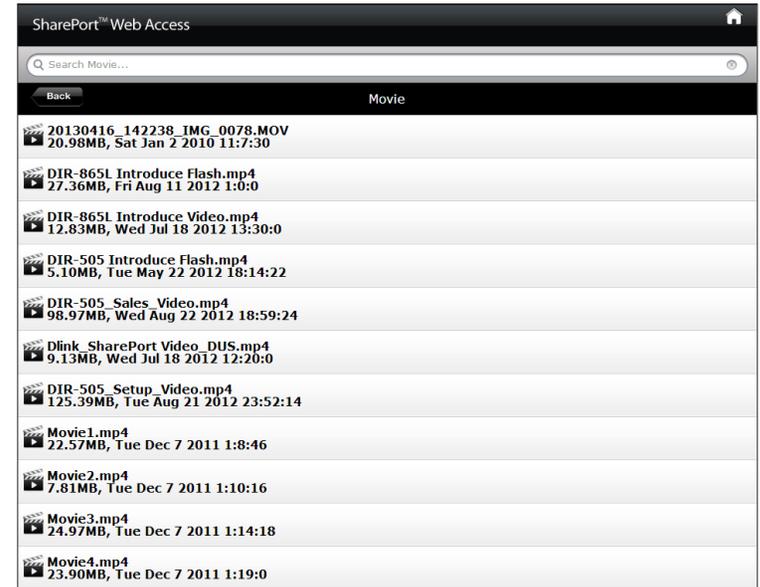
- Hover your mouse over the left or right side of the image and click < or > to view the previous or next image.



# Videos

You can go to the Videos section to browse and play the video files on your storage. Click **Back** to return to the main menu.

- Click on the video filename to open the file in a window for streaming.



You can pause, seek, mute, adjust the volume, and activate full screen mode in the control window.

- Close the control window to end playback.

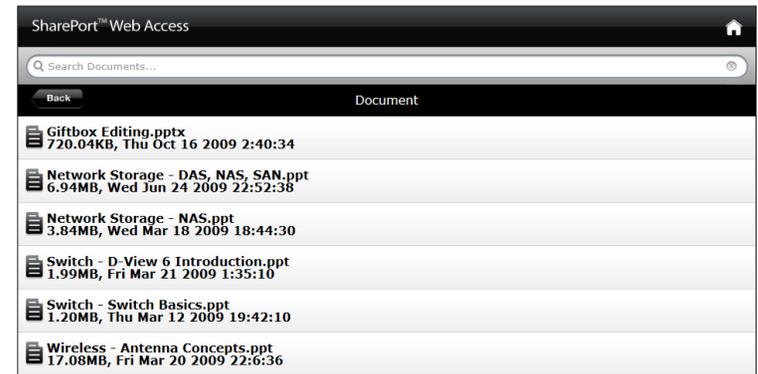
**Note:** Depending on your browser, the video file may be played back using the default player associated with that file format.



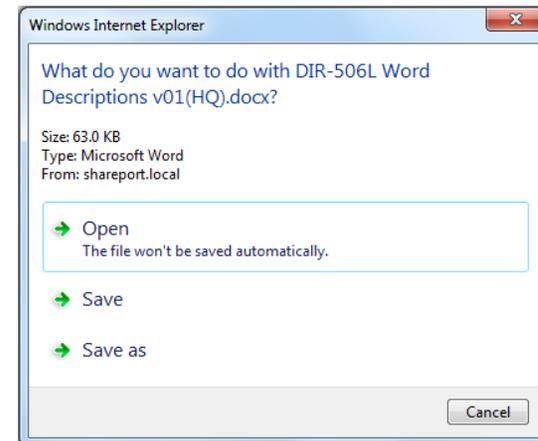
# Documents

You can go to the Documents section to open and save files from your storage to your computer. Click **Back** to return to the main menu.

- Click on the filename to open the file.



- Depending on the file type you select, the default program may open. Or you could see a dialog box asking you to select the option to **Open** or **Save** the file.



# Connect a Wireless Client to your Router

## WPS Button

The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-866L 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 back of the DIR-866L for a minimum of one second. The Power LED on the front will start to blink.

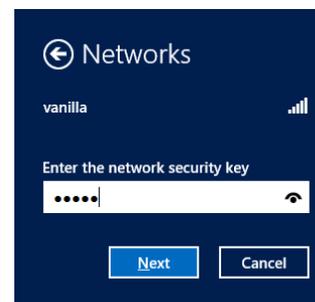
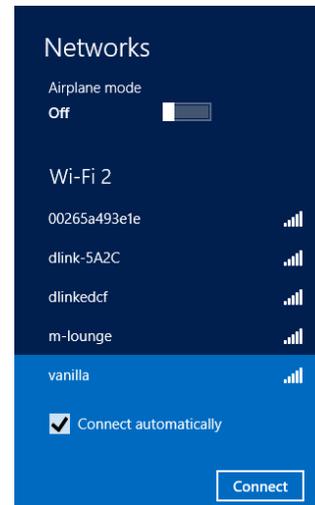
**Step 2** - Within two minutes, press the WPS button on your wireless client (or launch the software utility and start the WPS process).

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

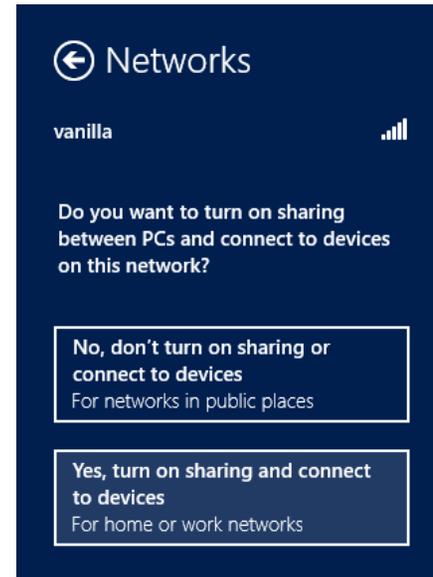


# Windows® 8

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



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



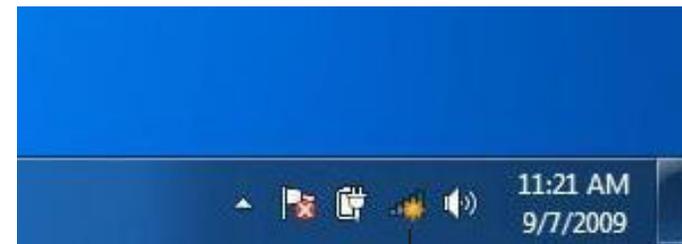
If you get a good signal but cannot access the Internet, confirm the encryption by reviewing the profile or check the TCP/IP settings for your wireless adapter. Refer to the *Networking Basics* section in this manual for more information.

# Windows® 7

## WPA/WPA2

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

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



Wireless Icon

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

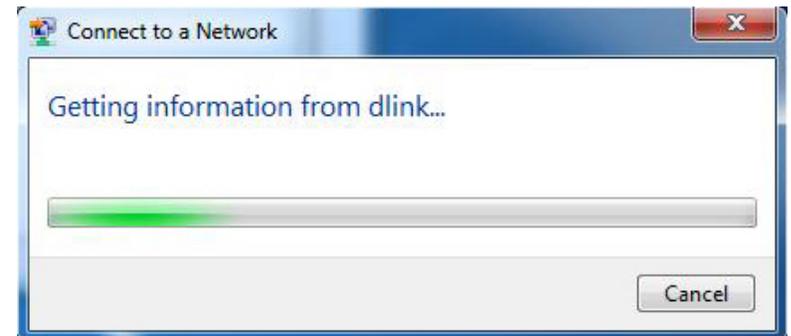


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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



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



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

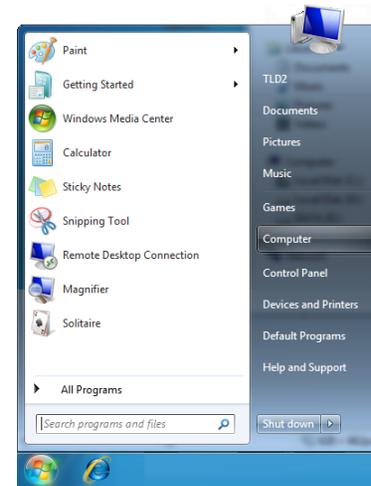
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



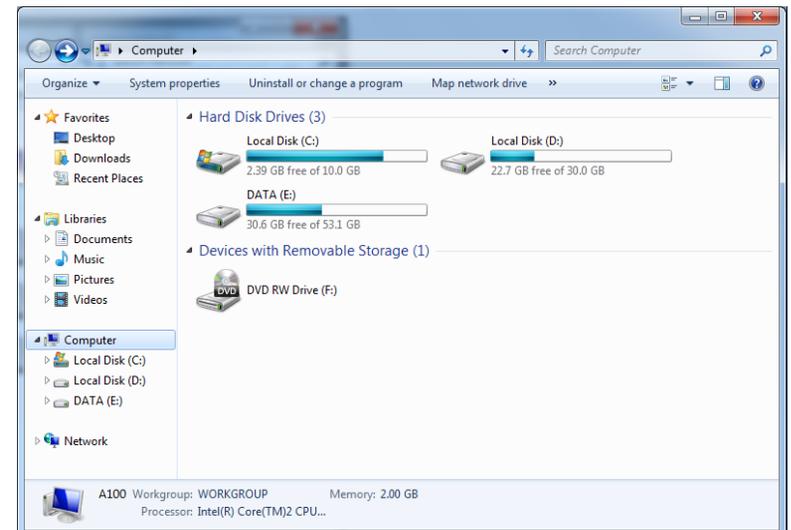
# WPS

The WPS feature of the DIR-866L can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

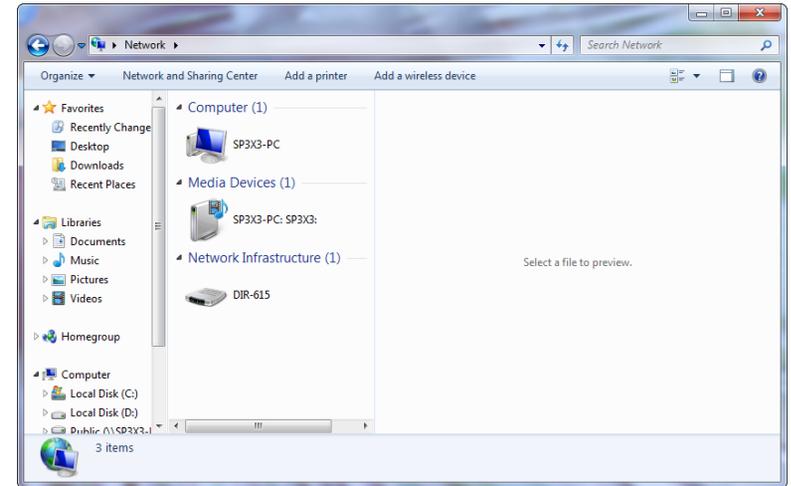
1. Click the **Start** button and select **Computer** from the Start menu.



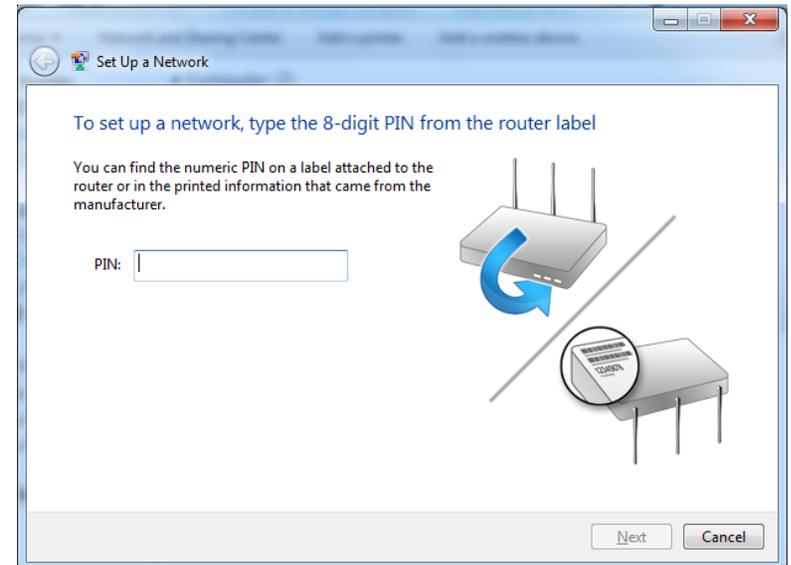
2. Click **Network** on the left side.



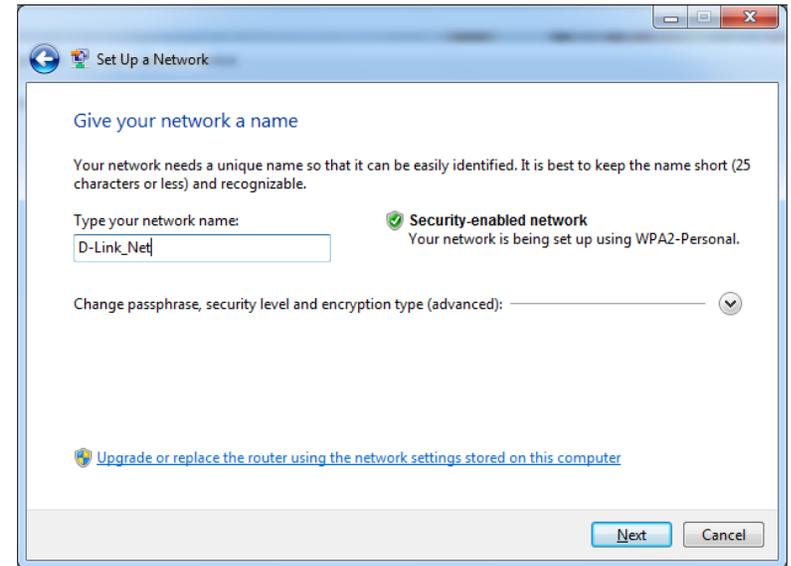
3. Double-click the DIR-866L.



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

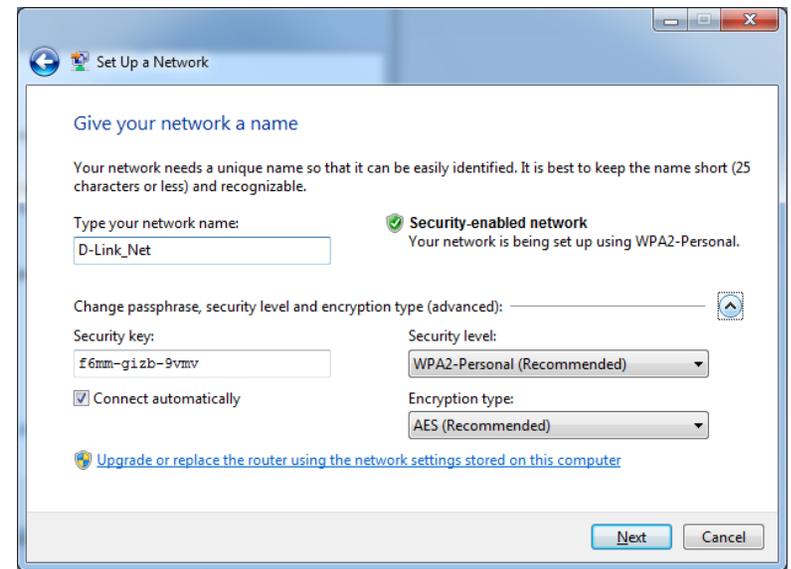


5. Type a name to identify the network.



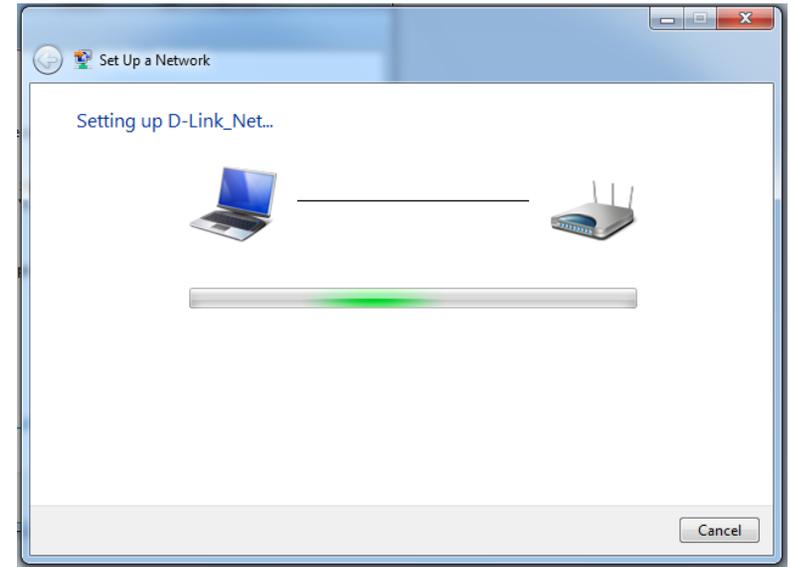
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

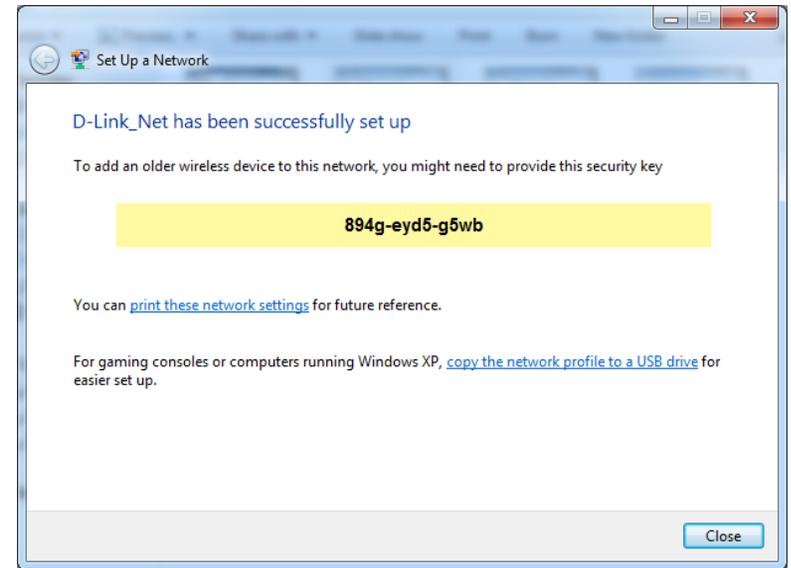
Wait for the configuration to complete.



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

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

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



# Windows Vista®

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

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

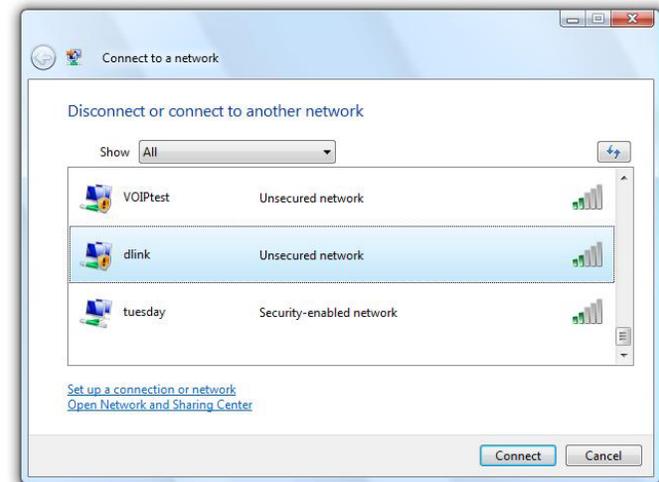
or

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



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

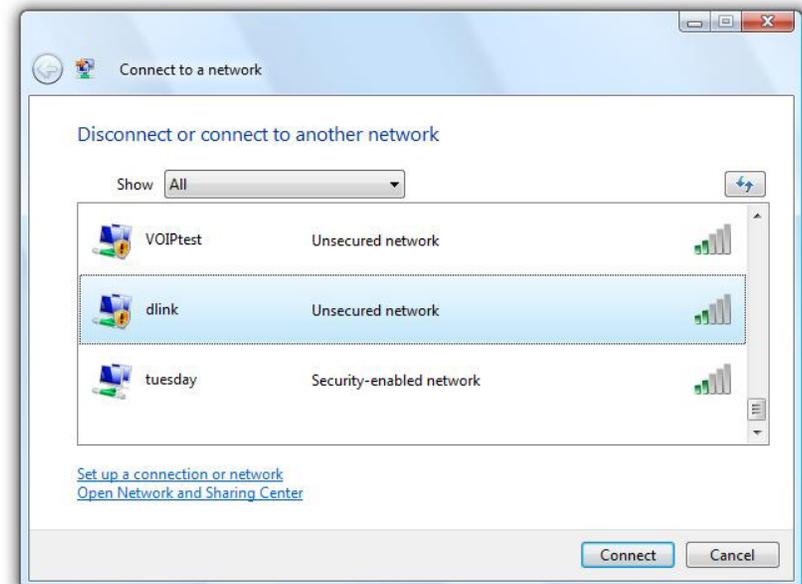
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



## WPA/WPA2

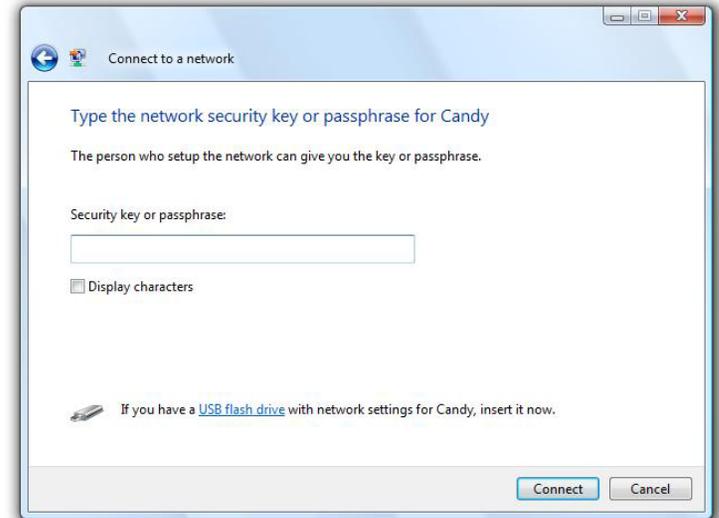
It is recommended to enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

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



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

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



## WPS/WCN 2.0

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

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

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



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

# Troubleshooting

This section provides solutions to problems that may occur during the installation and operation of the DIR-866L.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Internet Explorer® 7 and higher
  - Firefox®
  - Chrome™
  - Safari® 5 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, and Norton Personal Firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

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

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

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



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

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

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

- Click on **Start** and then click **Run**.
- Windows® 8, 7, and Vista® 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.
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms
C:\>
```

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

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

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

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

# Wireless Basics

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

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

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

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

## **What is Wireless?**

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

## **Why D-Link Wireless?**

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

## **How does wireless work?**

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

### **Wireless Local Area Network (WLAN)**

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

## **Wireless Personal Area Network (WPAN)**

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

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

## **Who uses wireless?**

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

### **Home**

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

### **Small Office and Home Office**

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

## **Where is wireless used?**

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

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

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

## **Tips**

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

### **Centralize your router or Access Point**

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

### **Eliminate Interference**

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

## Security

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

# Wireless Modes

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-Hoc** – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more DIR-866L wireless network Cardbus adapters.

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

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

# Networking Basics

## Check your IP address

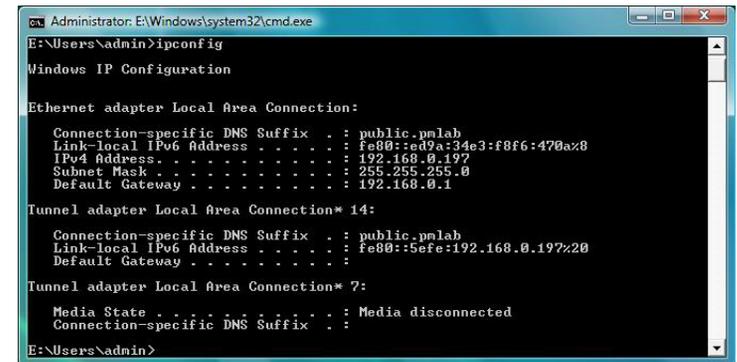
After you install your new D-Link wireless adapter and have established a wireless connection, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e., router) automatically. To verify your IP address, please follow the steps below.

### Windows® 8 Users

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

### Windows® 7/Vista® Users

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



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

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

Tunnel adapter Local Area Connection* 14:

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

Tunnel adapter Local Area Connection* 7:

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

E:\Users\admin>
```

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

# Statically Assign an IP Address

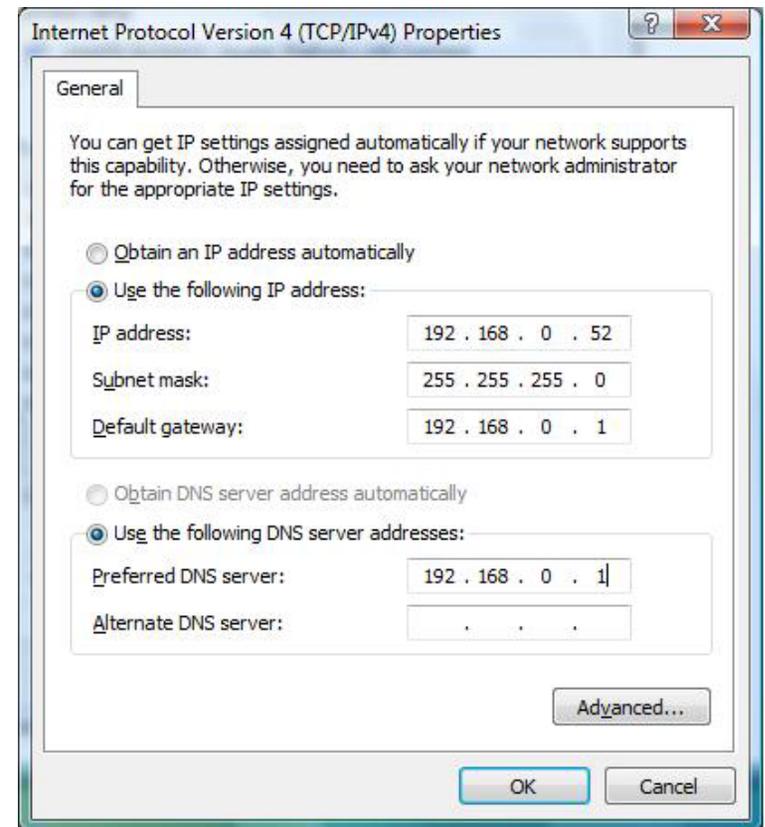
If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

## Windows® 8 Users

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

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

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



## Windows® 7/ Vista® Users

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

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

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

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

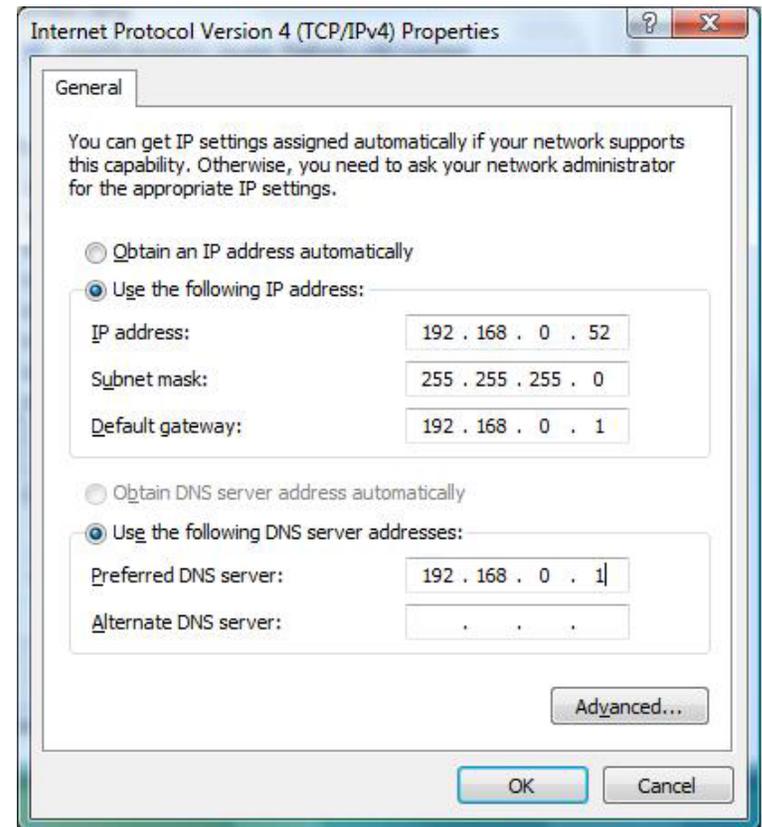
**Example:** If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network.

- Set **Default Gateway** the same as the LAN IP address of your router or gateway.

- Set **Primary DNS** the same as the LAN IP address of your router or gateway.

- The **Secondary DNS** is optional (you may enter a DNS server from your ISP).

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



# Technical Specifications

## Standards

- IEEE 802.11ac
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11a

## Physical Interface

- Four 10/100 Fast Ethernet LAN Ports
- 10/100 Fast Ethernet WAN Port
- 1 USB 2.0
- 1 WPS (Wi-Fi Protected Setup) Push Button
- Reset Button

## Security

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

## LEDs

- Power/WPS
- Internet

## Power

- DC 12V/2A

## Operating Temperature

- 32° to 104° F (0° to 40° C)

## Operating Humidity

- 10% to 90% non-condensing

## Certifications

- CE
- FCC
- IC
- Wi-Fi Certified™

## Dimensions

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

## Weight

- 14.57 ounces 413 grams)

## Warranty

- 1-Year Limited Warranty

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

2 Frequency Range varies depending on country's regulation

# Contacting Technical Support

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

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

- Model number of the product (e.g. DIR-866L)
- Hardware Revision (located on the label on the bottom of the router (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the router).

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

## For customers within the United States:

**Phone Support:**

(877) 453-5465

**Internet Support:**

<http://support.dlink.com>

## For customers within Canada:

**Phone Support:**

(866) 354-6599

**Internet Support:**

<http://support.dlink.ca>

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

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

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

# Warranty

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

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

## **Limited Warranty:**

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

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

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

### **Limited Software Warranty:**

D-Link warrants that the software portion of the product (“Software”) will substantially conform to D-Link’s then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days (“Software Warranty Period”), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link’s functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

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

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

### **Submitting A Claim (USA):**

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

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at <https://support.dlink.com>, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Please refer to shipping and packaging instructions located online at <http://rma.dlink.com/>.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

**Submitting A Claim (Canada):**

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

- Customers need to provide their receipt (proof of purchase) even if the product is registered. Without a receipt, no warranty service will be done. The registration is not considered a proof of purchase.
- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-800-361-5265, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.ca/>.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will be rejected by D-Link. Products shall be fully insured by the customer and shipped to D-Link Networks, Inc., 2525 Meadowvale Boulevard Mississauga, Ontario, L5N 5S2 Canada. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via Purolator Canada or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in Canada, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.
- RMA phone number: 1-800-361-5265 Hours of Operation: Monday-Friday, 9:00AM – 9:00PM EST

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

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

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

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

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### **CE Mark Warning:**

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

**FCC Statement:**

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

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

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.

# Registration

Register your product online at [registration.dlink.com](http://registration.dlink.com)



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

Version 1.0  
August 26, 2014