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# **User Manual**

### Wireless AC1750 Dual Band Gigabit Cloud Router

**DIR-868L** 

# 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	
2.00	August 05, 2014	Initial release for B1 revision	

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The purpose of this product is to create a constant network connection for your devices. As such, it does not have a standby mode or use a power management mode. If you wish to power down this product, please simply unplug it from the power outlet.

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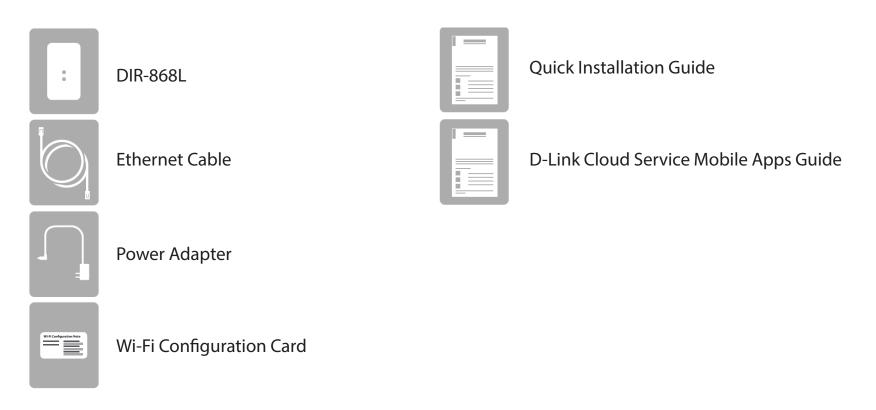
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## **Package Contents**



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

**Note:** Using a power supply with a different voltage rating than the one included with the DIR-868L will cause damage and void the warranty for this product.

## **System Requirements**

Network Requirements	<ul> <li>An Ethernet-based cable or DSL modem</li> <li>IEEE 802.11ac/n/g/b/a wireless clients</li> <li>10/100/1000 Mbps Ethernet</li> </ul>
Web-based Configuration Utility Requirements	<ul> <li>Computer with the following:</li> <li>Windows®, Macintosh, or Linux-based operating system</li> <li>An installed Ethernet adapter</li> </ul> Browser Requirements: <ul> <li>Internet Explorer 7 or higher</li> <li>Firefox 12 or higher</li> <li>Safari 4 or higher</li> <li>Chrome 20 or higher</li> </ul> Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
mydlink Requirements	<ul> <li>iPhone/iPad/iPod touch (iOS 4.3 or higher)</li> <li>Android device (2.3.3 or higher)</li> <li>Computer with the following browser requirements: <ul> <li>Internet Explorer 7 or higher</li> <li>Firefox 12 or higher</li> <li>Safari 5 or higher</li> <li>Chrome 20 or higher</li> </ul> </li> <li>iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc.</li> </ul>

## Introduction

The D-Link DIR-868L Wireless AC1750 Dual Band Gigabit Cloud Router comes equipped with four Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports. It also uses 802.11ac technology with multiple intelligent antennas to maximize the speed and range of your wireless signal to significantly outperform 802.11n devices. With the addition of intelligent Quality of Service (QoS), data streams are separated which helps organize and prioritize your network traffic so your video streaming, gaming, and VoIP calls run smoother over both your wired and wireless network.

The DIR-868L supports a host of cloud features including QRS Mobile which allows you to setup and configure the router using a mobile app. Using this app, you can set up your router right from your sofa; no PC required.

The Wireless AC1750 Dual Band Gigabit Cloud Router is also mydlink-enabled, which gives you access to your home network no matter where you go. Now you can monitor and manage your home network right from your laptop, iPhone<sup>®</sup>, iPad<sup>®</sup>, or Android<sup>™</sup> device. Routers with mydlink enabled can be configured to send an email to keep you informed anywhere, anytime when new devices are connecting to your network or unwanted access is detected. Parents can monitor in real-time websites that are being visited with recent browser history displayed on the mydlink<sup>™</sup> Lite app.

mydlink<sup>™</sup> SharePort technology lets you take advantage of the USB 3.0 port found on the back of your DIR-868L. Plug in a USB storage drive and you can use the mydlink<sup>™</sup> SharePort app for iPhone, iPod, and iPod touch, and Android to access files, stream videos, view photos, or listen to music on your laptop or mobile devices. Plug in a printer and you can use the SharePort Plus app to share that printer with all of your devices.

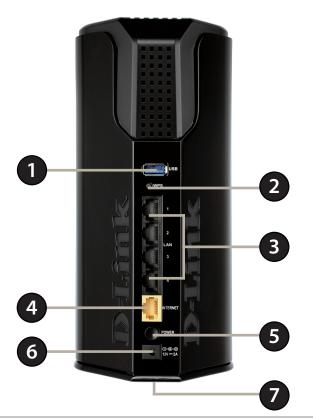
The DIR-868L Wireless AC1750 Dual Band Gigabit Cloud Router provides incredible speeds, smart antenna technology, fast ports, cloud features, terrific security features and easy installation options; all in an innovative case design.

## Features

- Faster Wireless Networking The DIR-868L can provide up to a full 1750 Mbps<sup>\*</sup> wireless connection with concurrent 802.11ac and 802.11n wireless clients. It also operates on both the 2.4 GHz and 5 GHz bands to allow separation of traffic so users can participate in high-bandwidth activities, such as video streaming, online gaming, and real-time audio, without affecting low-priority traffic like email and web surfing.
- **Cloud Features** The DIR-868L supports the QRS Mobile app to setup the router using a mobile device. It is also mydlinkenabled so you can remotely access and mange your DIR-868L from a mobile device. mydlink<sup>™</sup> SharePort can be used to share files, stream videos, view photos, and play music. SharePort Plus lets you share a printer that is in your network so everyone can use it.
- **Compatible with 802.11n/g/b/a Devices** The DIR-868L is still fully compatible with IEEE 802.11n/g/b/a standards, so it can connect with existing 802.11n, 802.11g, 802.11b, and 802.11a wireless devices.
- Advanced Firewall Features The web-based user interface displays a number of advanced network management features including:
  - **Content Filtering** Easily apply content filtering based on MAC address, URL, and/or domain name.
  - Filter Scheduling These filters can be scheduled to be active on certain days or for a duration of hours or minutes.
  - Secure VPN Sessions The DIR-868L can pass data through encrypted VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-868L can securely access corporate networks.
- New User-friendly GUI with Setup Wizard Featuring a new easy-to-use Web-based user interface, the DIR-868L lets you control what information is accessible to those on the wireless network, whether from the Internet or from your office. With the setup wizard, you can configure your router to your specific settings within minutes.

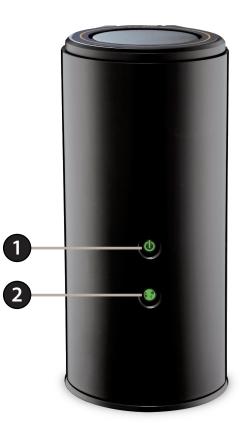
<sup>\*</sup> Maximum wireless signal rate derived from IEEE Standard 802.11ac, 802.11a, 802.11b, 802.11g, and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network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

## Hardware Overview Connections



1	<b>USB 3.0 Port</b> Connect a USB flash drive to share content , or connect it to a USB printer to share it on your network.	
2	2 WPS Button Press to start the WPS process and automatically create a secure connection to a WPS client.	
3	3 Gigabit LAN Ports (1-4) Connect Ethernet devices such as computers, switches, storage (NAS) devices and game consoles.	
4	4 Gigabit Internet Port Using an Ethernet cable, connect your broadband modem to this port.	
5	5 Power Button Press the power button to power on and off.	
6	6 Power Receptor Receptor for the supplied power adapter.	
7	<b>Reset Button</b> Insert a paperclip in the hole for several seconds to reset the router to default settings.	

## Hardware Overview LEDs



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

# Installation

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

## **Before you Begin**

- Please configure the router with the computer that was last connected directly to your modem.
- You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet).
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoET, BroadJump, or EnterNet 300 from your computer or you will not be able to connect to the Internet.

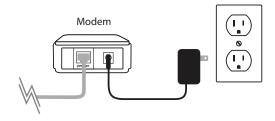
## **Wireless Installation Considerations**

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:

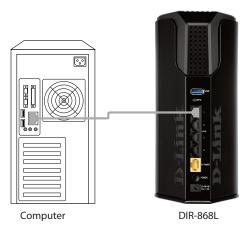
- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between 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 2.4 GHz 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 2.4 GHz 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.

## **Hardware Installation**

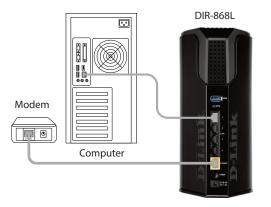
1. Turn off and unplug your cable or DSL broadband modem. This is required.



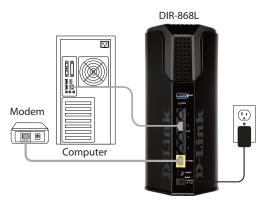
- 2. Position your router close to your modem and a computer. Place the router in an open area of your intended work area for better wireless coverage.
- 3. Unplug the Ethernet cable from your modem (or existing router if upgrading) that is connected to your computer. Plug it into the LAN port labeled **1** on the back of your router. The router is now connected to your computer.



4. Plug one end of the included Ethernet cable that came with your router into the yellow port labeled INTERNET on the back of the router. Plug the other end of this cable into the Ethernet port on your modem.



- 5. Reconnect the power adapter to your cable or DSL broadband modem and wait for two minutes.
- 6. Connect the supplied power adapter into the power receptor on the back of the router and then plug it into a power outlet or surge protector. Press the power button and verify that the power LED is lit. Allow 1 minute for the router to boot up.



7. If you are connecting to a broadband service, you may be online already and further configuration will be optional.

# **Getting Started**

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

- **D-Link Setup Wizard** This wizard will launch when you log into the router for the first time. Refer to "Setup Wizard" on page 12.
- **QRS Mobile App** Use your iPhone, iPad, iPod touch, or Android device to configure your router. Refer to "QRS Mobile App" on page 17.
- Manual Setup Log into the router and manually configure your router (advanced users only). Refer to "Network" on page 99.

# **Setup Wizard**

If this is your first time installing the router, open your web browser and enter **http://dlinkrouter.local./** in the address bar. Alternatively, enter the IP address of the router (default: **http://192.168.0.1**).

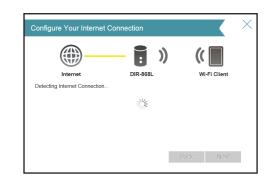
The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

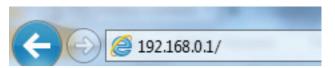
Click **Next** to continue.

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.



Welcome





If the router does not detect a valid Internet connection, a list of connection types to choose from will be displayed.

Select your Internet connection type (this information can be obtained from your Internet service provider) and click **Next** to continue.

If the router detected or you selected **PPPoE**, enter your PPPoE username and password and click **Next** to continue.

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

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



DIR-868I

To setup this Internet connection, you will need to have a User Name from your InternetService Provider. If you do not have this information, please contact your ISF

Usernar

:

DIR-868I

Choose this if your Internet connection automatically provides you with an IP Address

Wi-Fi Clie

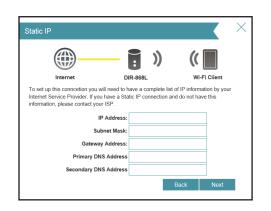
Wi-Fi Clien

()

Interne

Internet

Please select your Internet connection type below
ODHCP Connection (Dynamic IP Address)



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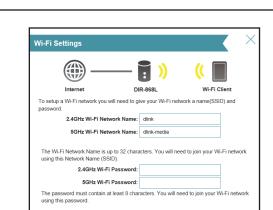
For both the 2.4 GHz and 5 GHz segments, create a Wi-Fi network name (SSID) using up to 32 characters.

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

Click Next to continue.

In order to secure the router, please enter a new password. You will be prompted for this password every time you want to use the router's web configuration utility. Click **Next** to continue.

The Summary window will display your settings. Click **Next** if you are satisfied, or click **Back** to make changes to them.







To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select **Yes** if you have a mydlink account already, or **No** if you want to create one. Click **Next** to continue.

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

If you clicked **Yes**, enter your mydlink account name (email address) and password. Click **Next** to register your mydlink account with the router.

If you clicked **No**, fill out the requested information and click **Next** to create your mydlink account.

At the end of the wizard, you will be presented with a final summary of your settings. Click **Finish** to close the wizard.



mydlink Registration	
myd	link
E-mail Address (Account Name):	
Password:	
	Back Next

mydlink Registration			
mydlink			
E-mail Address (Account Name):			
	Password:		
	First Name:		
	Last Name:     I accept the mydlink terms and conditions.		
	Back Next		
Congratulations			
Congratulations, your device has been configured. You can now connect to your Wi-Fi network by using the new Wi-Fi Network Name and Password you created.			
Connection Type: Dynamic IP (DHCP)			
Device Admin Password: 111111			
2.4GHz Wi-Fi Network Name: dlink     2.4GHz Wi-Fi Password: 2222222     2GHz Wi-Fi Password: 2222222     GHz Wi-Fi Password: 1111111     GHz Wi-Fi Password: 1111111			
🖌 mydlink	Status: Registered		
	Finish		

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

To download the "mydlink Lite" app, visit the App Store, Google Play or **https://www.mydlink.com/apps**.

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





# **QRS Mobile App**

QRS Mobile app allows you to install and configure your router from your mobile device. **Note:** The screenshots may be different depending on your mobile device's OS version.

Step 1

Search for the free **QRS Mobile** App on the iTunes Store or Google Play.







#### 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 Wi-Fi name (SSID) as listed on the supplied info card. Select and then enter your Wi-Fi password.

#### Step 3

Once you connect to the router, launch the QRS Mobile app from the Home screen of your device.





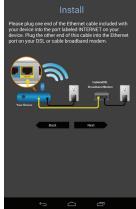
#### Step 4

You will see the welcome screen. Tap Start to proceed, then enter your device password and tap Log In. Tap Next once the Operation Mode screen appears.

#### Step 5

At this point, please ensure that you the router is connected to a modem. Plug one end of the provided Ethernet cable into your DSL or cable modem, and plug the other end into the port marked INTERNET on the DIR-868L. Tap Next to automatically detect your Internet connection and proceed to the next step.





#### Step 6

You will be prompted to set up each wireless frequency band in turn; the 2.4 GHz band followed by the 5 GHz band.

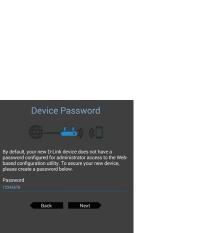
Firstly, enter a network name (SSID) of your choice, or leave it unchanged to accept the default SSID. Each wireless band can be assigned its own SSID.

Secondly, choose a Wi-Fi password of at least 8 characters. Any device trying to connect to the router wirelessly will need to enter this password the first time it connects.

Finally, tap **Next** to proceed.

#### Step 7

Enter the administrator password of your choice. Unlike the Wi-Fi password, this password is only required when you need to configure the router. See page 118 for details of when this password is used. Tap **Next** to proceed.





#### Step 8

If you already have a mydlink account, select Yes, I have a mydlink account and enter your mydlink email address and password. Lastly, tap Sign In to set up the router to use your mydlink account.

If you do not have a mydlink account, select No, I want to create a new mydlink account. Enter your E-mail address, choose a mydlink password and check the I accept the mydlink terms and conditions box. Finally, tap **Register account** to create your new mydlink account.

If you do not want to configure your router with mydlink at this stage, tap **Skip** to proceed.

#### Step 9

If you wish to receive push notifications whenever a new firmware update is available, check the Notify me when new firmware is available box and tap Next.

Otherwise, just tap **Next** to proceed.





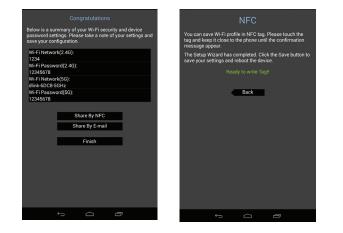
#### Step 10

You will be presented with a summary of your chosen settings. Tap **Save** to complete the setup.

Congratulations, your device has been successfully configured! You can share this information by tapping **Share By NFC**, **Share By E-mail**, or tap **Finish** to exit the app.

If you tap **Share By NFC**, you can now touch the tag with your other device until the confirmation message appears.





## mydlink<sup>™</sup> SharePort

### Using the mydlink SharePort app for iPad®, iPhone®, and iPod touch®

The mydlink SharePort app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage connected to your router. 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. It 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 mydlink SharePort remotely from the Internet:

- 1. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.
- **Note:** If you connect a removable storage with many files or a large capacity, it may take a while for the router to scan and catalog your files.
- 2. If you are connecting remotely through the mydlink SharePort app from the Internet, you will need a **mydlink** account. Please refer to page 103 for more details.



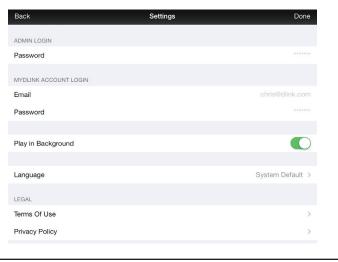
D-Link DIR-868L User Manual

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 for **mydlink SharePort** to the right.

4. Tap the **mydlink SharePort** icon, and the app will load.

5. Tap **Set up** to go to Settings and enter the Admin password and your mydlink Account Login information when the pop-up displays. Tap **Done** when your information is entered. (The Admin password is only for local access, if you can connect through the Internet, then you can leave the Admin password blank)





Available on the App Store



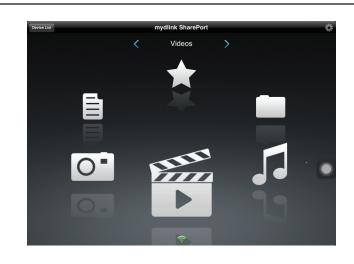
Section 3 - Usage

6. 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 will be lit green to indicate you are connected to the router through Remote Access. If you need to change your settings, tap the gear icon at the top right corner to enter the settings page.

7. If you have more than one device registered to your mydlink account, this will be displayed in the **device list** and you will be prompted to select the device you wish to use from this page.

**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.

	mydlink Share	Port 🔅
I	DIR-845L DIR-845L/ 22025791	0
_	DIR-862L	0



Section 3 - Usage

#### Using mydlink SharePort in a local network:

- 1. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.
- **Note:** If you connect a removable storage with many files or 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 for **mydlink SharePort** to the right.

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. Locate the Wi-Fi name (SSID) and password for your device as printed on the included Wi-Fi Configuration Card

4. Tap the **mydlink SharePort** icon, and the app will load.



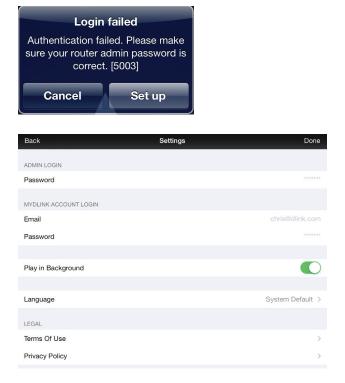




5. Tap **Set up** to enter the Admin password for your router when the pop-up displays.

6. Enter your Admin Login in the Password field and tap **Done**.

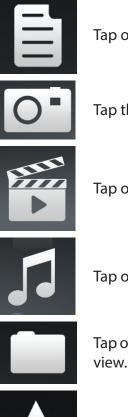
- 7. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit blue to indicate a Local Access connection. If you need to change your settings, tap the gear icon at the top right corner to enter the settings page.
- **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 let you see all the documents, photos, movies, or music stored on your removable storage. 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 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.

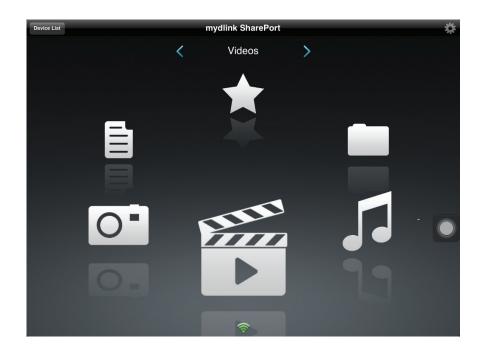
Tap on the music icon to play audio files.



Tap on the folder icon to browse all files in a folder

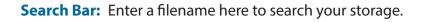


Tap on the star icon to access your favorite files.



### **Documents**

The Documents section allows you to share, print, and view documents streamed from your DIR-868L to your mobile device. Tap the document icon on the main menu to browse the documents on your mobile device.





Tap 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 this 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 to go back to the main menu.



Tap to update the list of files.



Tap to reorder the files alphabetically.



Documents	Edit
2 Search Shareport Storage	
Giftbox Editing.pptx 720.04KB, 2009-10-15 10:40:34	(C
Network Storage - DAS, NAS, SAN.ppt 6.94MB, 2009-06-24 06:52:38	1- 0
Network Storage - NAS.ppt 3.84MB, 2009-03-18 02:44:30	1- 0
Switch - D-View 6 Introduction.ppt 1.99MB, 2009-03-20 09:35-10	1-
Switch - Switch Basics.ppt 1.20MB, 2009-03-12 03:42:10	1- 0
Wireless - Antenna Concepts.ppt 17.08MB, 2009-03-20 06:06:36	1- 0
Wireless - Wireless Access Point.ppt 3.63MB, 2009-03-11 06:51:46	1- 0
20090514 GPON introduction.ppt 6.86MB, 2009-05-17 14:04-28	1- 0
20090714_CableModem.ppt 8.29MB, 2009-07-31 03:58:54	1- 0
20090911_CableModem.ppt 7.51MB, 2009-10-20 10:34:20	1- 0
UTM Firewall Management.pdf 728.70KB, 2009-01-15.06347.02	C
Second Constation D Link Group Switches, 2000 01 13 ppt	

Tap on a file to start the document viewer. In the viewer:



Tap to add/remove the file from your Favorites.

rightarrow Tap to bring up the same options as >.

**Note:** Some files may require a third-party app to view them.

<b>D-Link</b> Building Networks for People	DAP-1320 Wireless Range Extender N300
	■ ) ( ■ ) ( → ) ( <del>→</del> ①
Technical Specifications	Roder V V Wieless Devices
	Roder Wireless Devices
Technical Specifications General	Roder Wireless Devices
Technical Specifications General	Roder Winkess Dovices
Technical Specifications General Device Interfaces	Roder Wireless Dovices
Technical Specifications General Device interfaces LED	Roder Wireless Devices
Technical Specifications General Device Interfaces LED Standards	Roder         Wilekes Devices           - 802.11n/g/b wiletess         - Reset button           - 940.0005         - 940.0005           - 540.0005         - KEE 802.11n/g/b,

### Pictures

The Pictures section allows you to stream images from your DIR-868L to your mobile device. Tap the camera icon on the main menu to browse your photo collection on your removable storage.



- Edit
  - Tap 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 this 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 to go back to the main menu.
- Tap to start a slideshow of your photos. Tap the screen again to bring up the menu.



Tap to update the list of files.



Tap to reorder the files alphabetically.

0

Pictures	Edi
Q Search Shareport Storage	
IMG_0054.JPG 2.51MB, 2009-01-09 15:47:58	
IMG_0048.JPG 2.28MB, 2009-01-09 11:53:10	17
IMG_0055.JPG 2.27MB, 2009-01-09 15:48:08	57
IMG_0056.JPG 2.27M6,2009-01-09 15:48:24	7-
MG_0057.JPG 2.38MB, 2009-01-09 15/48:40	7- (
MG_0058.JPG 2.33MB, 2009-01-09 15/48:52	÷ (
MG_0059.JPG 2.13MB, 2009-01-09 15:50:06	<u>i</u>
IMG_0060.JPG 4.33MB, 2009-01-09 15:53:26	7- C
IMG_0061.JPG 4.09MB, 2009-01-09 15:54:16	7- C
MG_0062.JPG 4.00MB, 2009-01-09 15:54:32	<u>i</u>
MG_0063.JPG 4.92MB, 2009-01-09 15:55:12	÷ (
	₩

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 options as >.



### **Videos**

The Videos section allows you to stream video clips and movies from your DIR-868L 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.

- Edit
  - Tap 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 this 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 to go back to the main menu.



Tap to update the list of files.



	Videos		Edit
Q Se	arch Shareport Storage		
₩. •	20130509_110404_IMG_0240.MOV 5.02MB, 2009-12-31 17:28:56	*	
₩. ►	DIR-865L Introduce Flash.mp4 27.36MB, 2012-08-10 09:00:00		
₩ ►	DIR-865L Introduce Video.mp4 12.83MB, 2012-07-17 21:30:00	1-	0
111 	DIR-505 Introduce Flash.mp4 5.10MB, 2012-05-22 02:14:22	2-	
₩. ►	DIR-505_Sales_Video.mp4 98.97MB, 2012-08-22 02:59:24	1-	0
₩. ►	Dlink_SharePort Video_DUS.mp4 9.13MB, 2012-07-17 20:20:00	~	
£	DIR-505_Setup_Video.mp4 125.39MB. 2012-08-21 07:52:14	5	
£ ►	Movie1.mp4 22.57MB, 2011-12-06 17:08:46	1	
£	Movie2.mp4 7.81MB, 2011-12-06 17:10:16	5-	
₩. ►	Movie3.mp4 24.97MB, 2011-12-06 17:14:18	1	
55 ►	Movie4.mp4 23.90MB, 2011-12-06 17:19:00	<u></u>	•
6151		7	

#### Section 3 - Usage

Tap on a file to start playing it. In the player:



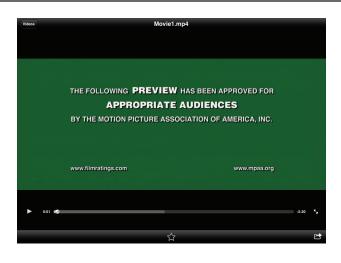
Tap to play/pause the video. You can scroll to any time on the time line by holding and sliding your finger.

- <sup>к</sup>ы <sup>ы</sup>к
  - Tap to enter/exit fullscreen 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-868L 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 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 this 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 to go back to the main menu.



Tap to update the list of files.



Tap to reorder the files alphabetically.

	Music	Edit
Q Se	arch Shareport Storage	
	list1 usb_b1	:
5	alert.wav 22.77KB, 2013-02-13 12:44:54	* 0
5	login.wav 187.90KB, 2013-02-13 12:44:54	<u>/</u>
5	logout.wav 152.23KB, 2013-02-13 12:44:54	1- Q
5	receive.wav 53.72KB, 2013-02-13 12:44:54	1- C
Γ	send.wav 56.09KB, 2013-02-13 12:44:54	1 C

1:33			alert.wav		0:00
1.00	tì	<b>I</b> 44		►►I	⊃⊄
		<b>h</b> erne	C Refresh	∱↓ sort	

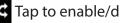
Tap on a file to start playing it. In the player:



🔁 🔂 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.

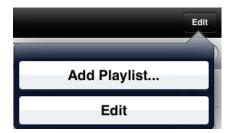
	Music	Edit
Q Se	earch Shareport Storage	
	list1 usb_b1	>
Γ	alert.wav 22.77KB, 2013-02-13 12:44:54	* 0
٦	login.wav 187.90KB, 2013-02-13 12:44:54	1- 0
5	logout.wav 152.23KB, 2013-02-13 12:44:54	1- 0
Γ	receive.wav 53.72KB, 2013-02-13 12:44:54	1- 0
1	send.wav 56.09KB, 2013-02-13 12:44:54	1. 0



To create a playlist:

- Tap Edit > Add Playlist.
- Enter a name for the playlist, then tap **Save.** ٠
- The name of the playlist will appear in the browser next ٠

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.
- Tick the songs you wish to add and tap **Done**.

To delete songs from the playlist:

- Tap **Edit** in the playlist browser and mark the files to be deleted.
- Tap **Delete**.

Cancel	Add Music	Don
<b>I</b>	alert.wav	
05	login.wav	
0	logout.wav	
0 5	receive.wav	
្វ	send.wav	

## Folders

You can browse your removable storage in a folder view in the folders section. Tapping the filename will 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 removable storage attached to your router.

Search Bar: Enter a filename here to search your storage.

Edit

Tap to take you to the editing screen where you can add a folder and mark files for deletion or copying.

T

Tap the star icon next to each file to download it to your device and add it into your Favorites section.

Tapping the > icon gives you additional options depending on the file type.

#### The bottom menu bar includes these options:



Tap to go back to the main menu.



Tap to upload files from your device to your removable storage.



Tap to update the list of files.





Folders	usb_b1	Edit
Q Search Shareport Storage		
[Training Materia	ls]	>
test		>
Global Marketing	Digital Lib	>
O Martina.jpg 117.47KB, 2009-12-31 20:	09:50	1- 0
D beyonce-the-destro	yer.jpg 35-22	7- O
_dpl		3
Programs		3
Global Marketing To 12.87KB, 2013-02-22 08:0	eam Contact List_2013.xlsx 8:02	1 0
testa		3
图體保險健康聲明書 299.71KB, 2013-03-06 05:		1- 0
<b>友訊團體保險名冊.pd</b> 229.02KB, 2013-03-06 05:		1 C
ICON indd	Hrree Udead Refresh Sot	

Section 3 - Usage

To delete files:

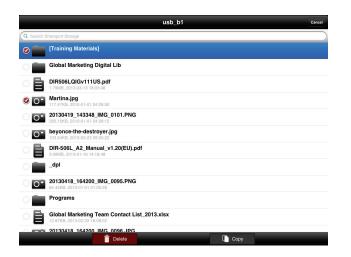
- Tap **Edit** at the top right.
- Tick the circle next to a file to mark it for deletion.
- Tap on **Delete** at the bottom to delete the file.

#### To copy files:

- Tap on **Copy** to bring up a window where you can select the folder to copy 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.
- Enter the name of the new folder, then tap **Save**.
- Tap **OK** to confirm folder creation.

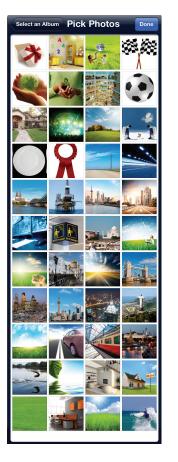






To upload images and videos from your mobile device:

- Browse to the folder you wish to upload to.
- Tap **Upload** at the bottom.
- Select the photos/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.

		U	pload		+
0"	20130627_150400_IMG_0005.JPG Calculating, 0.0% uploaded				
0	20130627_150400_IMG_0006.JPG waiting to upload				
0	20130627_150400_IMG_0007.JPG waiting to upload				
0	20130627_150400_IMG_0008.JPG waiting to upload				
0	20130627_150400_IMG_0009.JPG waiting to upload				
0	20130627_150400_IMG_0010.JPG waiting to upload				
0	20130627_150400_IMG_0012.JPG waiting to upload				
0	20130627_150400_IMG_0013.JPG waiting to upload				
0	20130627_150400_IMG_0014.JPG waiting to upload				
0	20130627_150400_IMG_0015.JPG waiting to upload				
0	20130627_150400_IMG_0016.JPG waiting to upload				
0	20130627_150400_IMG_0017.JPG waiting to upload				

## **Favorites**

The Favorites section allows you to quickly access your most often 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 to mark files for deletion from the local storage in Favorites. The file will still be accessible in other mydlink SharePort sections.
- Tapping this icon gives you additional options depending on the file type.

The bottom menu bar includes these options:



- Tap to go back to the main menu.
- Tap to update the list of files.



Tap 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.



Favorites	Edit
Downloaded	
20130509_115547_IMG_0242.JPG 317.52KB, 2009-12-31 18:20:32	۲
O dir636.JPG 1.46MB, 2009-12-31 18:37:22	٥
Network Storage - DAS, NAS, SAN.ppt 6.94MB, 2009-06-24 06:52:38	٥
20130509_110404_IMG_0240.MOV 5.02MB, 2009-12-31 17:28:56	٥
03.Pretty Boy.mp3 6.10MB, 2011-08-23 20:57:12	٥

# Using the mydlink<sup>™</sup> SharePort app for Android<sup>™</sup>

The mydlink SharePort app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage connected to your router. 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. It 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 mydlink SharePort remotely from the Internet:

- 1. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.
- **Note:** If you connect a removable storage with many files or a large capacity, it may take a while for the router to scan and catalog your files.
- 2. If you are connecting remotely through the mydlink SharePort app from the Internet, you will need a **mydlink** account. Please refer to page 103 for more details.



Section 3 - Usage

3. Use your Android mobile device to search for and download the free **mydlink SharePort** app from Google Play<sup>™</sup>.

If you have a QR code reader, you can scan the code for **mydlink** SharePort to the right.

- 4. Tap the **mydlink SharePort** icon, and the app will load.
- 5. Tap **Set up** to go to Settings and enter the Admin password and your mydlink Account Login information when the popup displays. Tap **Apply** when your information is entered. (The Admin password is only for local access, if you can connect through the Internet, then you can leave the Admin password blank)







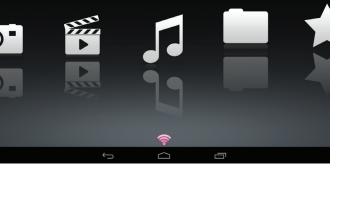






6. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit green to indicate you are connected to the router through Remote Access.

- 7. If you have more than one device registered to your mydlink account, this will be displayed in the **device list** and you will be prompted to select the device you wish to use from this page.
- **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.



mydlink SharePort

	mydlink SharePort	*
DIR-850L DIR-850L/4444	15528	$\bigcirc$
Authentication	ı failed	0

Section 3 - Usage

#### Using mydlink SharePort in a local network:

- 1. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.
- **Note:** If you connect a removable storage with many files or 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<sup>™</sup>.

If you have a QR code reader, you can scan the code for **mydlink** SharePort to the right.

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. Locate the Wi-Fi name (SSID) and password for your device as printed on the included Wi-Fi Configuration Card.





DIRSOEL-Can Connected DIR626L-dan Saved, secured with WPA/WPA2 DIR-868L Saved BrokenArrow Saved, secured with WPA2 D-Link\_Guest Saved dlink-2244 Saved, secured with WPA/WPA2 DAP-1320-Claire Saved, secured with WPA/WPA2 DAP-1320-Claire Saved, secured with WPA/WPA2

Secured with WPA/WPA2

Secured with WPA/WPA2 (WPS available)

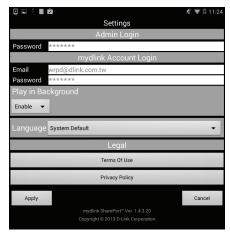
SWSW Secured with WPA/WPA2 (WPS available)

d-link-07725 Secured with WPA/WPA2 (WPS available)

- 4. Tap the **mydlink SharePort** icon, and the app will load.
- 5. Tap **Set up** to enter the Admin password for your router when the pop-up displays.
- 6. Enter your Admin Login in the Password field and tap **Apply**. You will be taken back to the device list where you can select the device for use with mydlink SharePort.

- 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 will be lit blue to indicate a 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 let you see all the documents, photos, movies, or music stored on your removable storage. 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 if it is not lit.



Tap on the document icon to view documents.

Tap the camera icon to view pictures.

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.



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-868L 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 to return to the main menu.



Tap 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:**

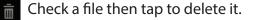


Tap to return to the main menu.

Tap to update the list of files.



Tap to sort the files by name, size, type, or date.



n Documents	
UTM Firewall Management.pdf 728.69KB,15/01/2009 02:47:02PM	*
P Second Generation D-Link Green Switches_2009-01-13.ppt 1.23MB,13/01/2009 05:29:00PM	*
P Switch Market Share Y08Q1-3.ppt 1.00MB,15/01/2009 02:50:34PM	*
L2 Managed Switch CLI Reference Manual Sample (DES-3028_3052 Series).pdf 1.52MB,09/01/2009 02:50:00PM	*
L2 Managed Switch User Manual Sample (DES-3028_3052 Series).pdf 8.80MB,12/01/2009 06:50:56PM	*
L3 Managed Switch CLI Manual Sample (xStack DES-3800 Series).pdf 3.55MB,13/01/2009 10:12:28AM	*
L3 Managed Switch User Manual Sample (xStack DES-3800 Series).pdf 15.11MB.13/01/2009 10:13:28AM	*
Managed Switch Getting Started Guide Sample.pdf 2.38MB,13/03/2008 04:47:18PM	*
Unmanaged Switch QIG Sample.pdf 1.15MB,14/04/2008 04:35:34PM	*

Â	Documents	1
L	DAP-2690_B1_Datasheet_03(HQ).pdf 421.64KB,20/11/2012 03:07:20PM	
Å	DCS-7010L_A1_Datasheet_03(HQ).pdf 687.74KB,12/11/2012 02:54:54PM	
Å	DGE-560SX_B1_Datasheet_01(HQ).pdf 581.26KB,19/11/2012 05:01:44PM	
Å	DIR-850L_A1_Datasheet 01 (HQ).pdf 745.46KB,03/12/2012 02:20:48PM	
Å	DIR-865L A1 Datasheet_A1_02(HQ).pdf 706.60KB.03/12/2012 11:53:32AM	
Å	DSL-2750R_C1_Datasheet_01(WW).pdf 722.68KB,12/11/2012 05:34:58PM	
Å	DWL-6600AP_A1_Datasheet_02(HQ).pdf 929.05KB,26/11/2012 02:26:44PM	
لحر	Media_Converters_Standalone_Datasheet_01(HQ).pdf 1.06MB,15/11/2012 04:43:16PM	
	<b>C</b>	

Tap on a file to start the document viewer. In the viewer:

- Tap the screen to bring up zoom in/out buttons.
- Drag the screen up or down to scroll between pages.
- Tap : to perform File, Find, Zoom, Reading View, Go To Page, and Bookmarks actions.

Note: Available actions may differ depending on your Android OS.

D-Link		
Product High Bights Marine M car Fig. as Hermonic Teach Product Branch and the analysis water and any advectory of the analysis here and space and hermonic means here and space and hermonic means hermonic means herm	data)	
Features	and Gigabit Cloud Router	
	Pactad Relative Harrenhoteneting The Case of Bellis Stream, PL23 Case and Stream Stream Stream Stream Stream Stream Stream Str	
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Secold • URL 20072 address we system protects the relevant fram tetrades • URL 10 terminal Setup (SVPC) even deress 10 type induced in the pro-	Intersety Anton decourses to source, patterne, and marce anto traditio decourse that page pages means alloways and 2000 annual of the source of the page pages to the source and page pages to the local page page to the source of the source of the source of the source of the local page page to the source of the source of the source of the source of the local page page to the source of the source of the source of the source of the local page page to the source of the local page page to the source of the local page page to the source of the sourc	

## **Pictures**

The Pictures section allows you to view images streamed from your DIR-868L 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 to return to the main menu.



Tap to start a slideshow.



Tap to refresh, sort, or mark files for deletion.

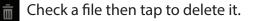
Tap the star icon next to each file to download it to your device and add it into your Favorites section.

#### Tap **for** additional options:

- Tap to return to the main menu.
- C Tap to update the list of files.



Tap to sort the files by name, size, type, or date.



A	Pictures	
		$\sim$
image001.jpg 38.04KB,04/03/2013 06:02:44PM		*
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:20:50AM		*
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:09:56AM		*
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 12:10:22AM		*
20130423_172941_IMG_0201.PNG 203.86KB,01/01/2010 11:39:10PM		*
20130422_180106_IMG_0199.PNG 40.31KB,01/01/2010 11:32:22PM		*
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 11:38:22PM		*
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 11:38:22PM		*
20130423_172941_IMG_0201.PNG 203.86KB,01/01/2010 11:40:56PM		*
$\leftarrow$		

<b>^</b>	Pictures		
			<u> </u>
image001.jpg 38.04KB,04/03/2013 06:02:44PM			
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:20:50AM			
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:09:56AM			
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 12:10:22AM			
20130423_172941_IMG_0201.PNG 203.86KB,01/01/2010 11:39:10PM			
20130422_180106_IMG_0199.PNG 40.31KB,01/01/2010 11:32:22PM			
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 11:38:22PM			
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 11:38:22PM			
С		$P^{P}$	
$\leftarrow$			

Tap on an image file to start the image viewer. In the viewer:

+

Tap the star icon to download it to your device and add it into your Favorites section.

- Tap to start a slideshow. Tap the image to stop the slideshow.
- Tap to delete the current image. Tap **OK** to confirm.
- Tap to bring up additional options using other applications.
- Tap to access the image editor.
  - Note: This function 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-868L 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 to return to the main menu.

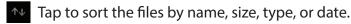


Tap to refresh, sort, or mark files for deletion.

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 to return to the main menu.
- C Tap to update the list of files.



Check a file then tap this icon to delete it.

Â		Videos	
P.S.	20130509_110404_IMG_0240.MOV		-
	5.01MB,01/01/2010 01:28:56AM		
Fill	DIR-865L Introduce Flash.mp4		<b></b>
	27.36MB,10/08/2012 05:00:00PM		
Fill	DIR-865L Introduce Video.mp4		<b></b>
	12.82MB,18/07/2012 05:30:00AM		
E	DIR-505 Introduce Flash.mp4		<b>_</b>
	5.09MB,22/05/2012 10:14:22AM		
File	DIR-505_Sales_Video.mp4		<b>_</b>
	98.96MB,22/08/2012 10:59:24AM		X
E	Dlink_SharePort Video_DUS.mp4		
	9.13MB,18/07/2012 04:20:00AM		
E	DIR-505_Setup_Video.mp4		
	125.38MB,21/08/2012 03:52:14PM		X
PHIL 1	Movie1.mp4		
	22.56MB,07/12/2011 01:08:46AM		
F	Movie2.mp4		-
	7.81MB,07/12/2011 01:10:16AM		
	$\leftarrow$	$\frown$	

Â		Videos		:
				Q
7## ▶	20130509_110404_IMG_0240.MOV 5.01MB,01/01/2010 01:28:56AM			
EES ►	DIR-865L Introduce Flash.mp4 27.36MB,10/08/2012 05:00:00PM			
844 ►	DIR-865L Introduce Video.mp4 12.82MB,18/07/2012 05:30:00AM			
- 	DIR-505 Introduce Flash.mp4 5.09MB,22/05/2012 10:14:22AM			
EES ►	DIR-505_Sales_Video.mp4 98.96MB,22/08/2012 10:59:24AM			
844 ►	Dlink_SharePort Video_DUS.mp4 9.13MB,18/07/2012 04:20:00AM			
- 	DIR-505_Setup_Video.mp4 125.38MB,21/08/2012 03:52:14PM			
₩. ►	Movie1.mp4 22.56MB,07/12/2011 01:08:46AM			
	C		$\downarrow \uparrow$	
	$\hookrightarrow$			

Tap on a file to start playing it. Tap on the screen to bring up the scroll bar, pause button, and play button.

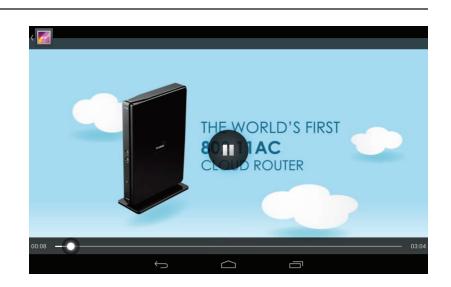


Tap to resume playback.



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-868L 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 to return to the main menu.



Tap to refresh, sort, or mark files for deletion.

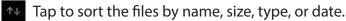


Tap to browse your playlists.

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 to return to the main menu.
- C Tap to update the list of files.



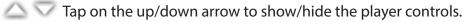
rup to sole the mes by hame, size, type, of dat



Â		Music	
	<b>ert.wav</b> .76KB,13/02/2013 12:44:54PM		1
	<b>gin.wav</b> 7.90KB,13/02/2013 12:44:54PM		٦
	<b>gout.wav</b> 2.23KB,13/02/2013 12:44:54PM		٦
1 1	<b>ceive.wav</b> .71KB,13/02/2013 12:44:54PM		7
	end.wav .09KB,13/02/2013 12:44:54PM		7
	I-lorena-maniac.mp3 81MB,21/11/2008 02:01:52AM		1
	I.The Day You Went Away.mp3 84MB,24/08/2011 04:56:38AM		1
	2-lorena-i_ve_had_the_time_of_my_life.mp3 52MB,21/11/2008 02:01:44AM		3
	2.Mirror Mirror.mp3 33MB,24/08/2011 04:56:56AM	$\bigtriangleup$	1
	$\leftarrow$		

n	Music	
5	alert.wav 22.76KB,13/02/2013 12:44:54PM	
	login.wav 187.90KB,13/02/2013 12:44:54PM	
	logout.wav 152.23KB,13/02/2013 12:44:54PM	
5	receive.wav 53.71KB,13/02/2013 12:44:54PM	
5	send.wav 56.09KB,13/02/2013 12:44:54PM	
5	01-lorena-maniac.mp3 5.31MB.21/11/2008 02:01:52AM	
5	01.The Day You Went Away.mp3 4.84MB.24/08/2011 04:56:38AM	
5	02-lorena-i_ve_had_the_time_of_my_life.mp3 5.52MB.21/11/2008 02:01:44AM	
	C ^~	

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 play or pause the song.
  - Tap to enable/disable shuffle mode.

To create a playlist:

- Tap 🧮
- Tap Add new playlist... ٠
- Enter a name for the playlist, then tap **OK**. The name ٠ of the playlist will appear in the browser next to the icon.
- You can tap **I** then **C** to refresh the playlist page.

Â		Music		
5	logout.wav 152.23KB,13/02/2013 12:44:54PM			*
5	receive.wav 53.71KB,13/02/2013 12:44:54PM			*
5	<b>send.wav</b> 56.09KB,13/02/2013 12:44:54PM			*
5	<b>01-lorena-maniac.mp3</b> 5.31MB,21/11/2008 02:01:52AM			*
5	01.The Day You Went Away.mp3 4.84MB,24/08/2011 04:56:38AM			*
	02-lorena-i_ve_had_the_time_of_my_life.mp3 01.The Day You Went Away.mp3 02.04 Minor Minor mp3 00:02 / 03:43	$\bigtriangledown$		*
	3.91449 21/11/2008 02:01.40AM 03.Fretty Boy.mp3 6.10MB;24/08/2011 04:57:12AM	- 11	►►I	
	$\rightarrow$	$\Box$		

<b>^</b>		Music		
🖹 Last added				
🖹 list1				
🖹 playlist2				
🖹 playlist3				
🖹 playlist4				
🖹 dans playlist				
E dribblePANetration				
🖹 test				
Ê tt				
Add new playlist				
	Û			

To add songs to a playlist:

- Tap a playlist to see its contents.
- Tap **Add Music...** to add songs to the current playlist.
- Tick the songs you wish to add and tap 🗎 to save.

Â		Music			
5	01-lorena-maniac.mp3 5.31MB,21/11/2008 02:01:52AM				$\checkmark$
5	01.The Day You Went Away.mp3 4.84MB,24/08/2011 04:56:38AM				<b>√</b>
5	02-lorena-i_ve_had_the_time_of_my_life.mp3 5.62MB,21/11/2008 02:01:44AM			[	
5	02.Mirror Mirror.mp3 4.33MB,24/08/2011 04:56:56AM			[	
5	03-lorena-i_say_a_little_player.mp3 3.91MB,21/11/2008 02:01:40AM			6	√
5	03.Pretty Boy.mp3 6.10MB,24/08/2011 04:57:12AM			[	
	04-lorena-i_don_t_want_to_miss_a_thing.mp3 5.37MB,21/11/2008 02:01:34AM	}		1	✓
	04.Don't Say You Love Me.mp3 4.81MB,24/08/2011 04:57:30AM			[	
Í		Ľ			
	$\leftarrow$	$\Box$			

To delete songs from the playlist:

- Tap **Edit** in the playlist browser and mark the files to be deleted.
- Tap 💼 then tap **OK** to confirm.

Music	
alert.wav 22.77KB,2013-02-13 12:44:54	V
receive.wav 53.72KB,2013-02-13 12:44:54	$\checkmark$
<b>01-lorena-maniac.mp3</b> 5.31MB,2008-11-21 02:01:52AM	V
<b>02-lorena-i_ve_had_the_time_of_my_life.mp3</b> 5.52MB,2008-11-21 02:01:44AM	
<b>03.Pretty Boy.mp3</b> 6.10MB,2011-08-24 04:57:12AM	
<b>04.Don't Say You Love Me.mp3</b> 4.81MB,2011-08-24 04:57:30AM	
<b>05.What You Do About Me.mp3</b> 4.01MB,2011-08-24 04:57:48AM	
<b>07.Girl In Your Dreams.mp3</b> 4.65MB.2011-08-24 04:58:20AM	
Ē	
б ( <u>)</u>	

In the file browser:

#### Search Bar: Type in the name of a file to search for it.

Tap to return to the main menu.

Tap to access file options.

Tap to return to the main menu.

Tap to refresh, sort, create a new folder, or mark files for deletion

▲ Tap to upload files.

and copying.

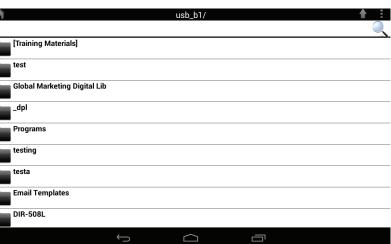
You can browse your removable storage in a folder view in the folders section. Tapping the filename will open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the removable storage attached to your router.

D-Link DIR-868L User Manual

IJ usb\_b1/ [Training Materials] Global Marketing Digital Lib dpl Programs testing testa Email Templates **DIR-508L**  $\bigcirc$ IJ



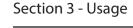
Folders





usb\_b1

**Folders** 



#### Section 3 - Usage

- Tap it to select files and perform the following actions: Tap to update the list of files.
  - Tap to sort the files by name, size, type, or date.
  - Tap to create a new folder.
  - Mark a file then tap this icon to delete it.
  - Mark a file then tap this icon to copy it.

Â		test/		
test2				
test				
testadd				
20130422_180026_IMC 47.92KB,01/01/2010 12:09:5				
20130422_180050_IM0 1.28MB,01/01/2010 12:10:22				
20130423_172941_IM0 203.86KB,01/01/2010 11:39:				
Screenshot_2013-07-02 337.20KB,05/07/2013 01:56:				
Screenshot_2013-07-04 177.73KB,05/07/2013 01:56:				
С		$\downarrow \uparrow$	Ē	
	Ç			

	usb_b1/	<b>≜</b> ∃
O 20130503_154642_IMG_0226.JPG		
343.35KB,01/01/2010 01:23:48AM		
O <sup>•</sup> 20130503_154642_IMG_0227.JPG 376.10KB,01/01/2010 01:23:52AM		
20130503_154642_IMG_0228.JPG		
315.81KB,01/01/2010 01:23:54AM		
O <sup>•</sup> 20130503_154642_IMG_0229.JPG 367.67KB,01/01/2010 01:23:56AM		V
20130503_154642_IMG_0230.JPG		
405.08KB,01/01/2010 01:24:00AM		
O <sup>••</sup> 20130503_154642_IMG_0231.JPG 390.82KB,01/01/2010 01:24:02AM		$\checkmark$
20130503_154642_IMG_0232.JPG		
434.72KB.01/01/2010 01:24:04AM		
0 20130503_154642_IMG_0233.JPG		
381.39KB,01/01/2010 01:24:06AM		
Ē		
<u> </u>		
、		

To delete files:

- Tap on and tick the box next to a file for deletion.
- Tap on to delete your selected files. Tap OK to confirm.

To copy files:

- Tap on to select files for copying. Tick the box next to each file for copying.
- Tap on **t** to browse to the destination.

- Tap Paste or Cancel.
- You can also tap **New Folder** if you wish to create a folder in the current directory.

<b>↑</b>		usb_b1/	
		Copy 1 to	
[Training Materials]			
test			
Global Marketing Digital	Lib		
_dpl			
Programs			
testing			
testa			
Email Templates			
New Folder		Paste	Cancel
	Û		

To create a new folder:

- Browse to the directory you wish to create a new folder in.
- Tap 🚺 then 🖽.
- Enter the name of the 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.
- Tick the box next to each of the files you wish to upload.
- Tap Upload.

Upload Screenshot\_2013-07-03-16-49-27.png 37.20KB,03/07/2013 04:49:29PM Screenshot\_2013-07-04-14-14-52.png Screenshot\_2013-07-03-17-26-44.png 138.17KB.03/07/2013 05:26:45PM Screenshot\_2013-07-03-17-26-50.png 0 138.44KB.03/07/2013 05:26:51PM Screenshot\_2013-07-03-17-27-05.png 0 Screenshot\_2013-07-03-17-27-09.png 0 9.42KB,03/07/2013 05:27:10PM Screenshot\_2013-07-03-17-28-08.png 0 13.91KB,03/07/2013 05:28:09PM Screenshot\_2013-07-03-17-38-24.png Upload Cancel

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 next to it.

n Upload	
	Q
Screenshot_2013-07-03-17-26-44.png 138.17KB, 99%uploaded	×
Screenshot_2013-07-03-17-26-50.png 138.44KB, waiting to upload	×
Screenshot_2013-07-03-17-27-05.png 79.64KB, waiting to upload	×
Screenshot_2013-07-03-17-27-09.png 79.42KB, waiting to upload	×
Screenshot_2013-07-03-17-28-08.png 113.91KB, waiting to upload	×
Screenshot_2013-07-03-17-38-24.png 34.05KB, waiting to upload	×

$\rightarrow$		
`	·	

## **Favorites**

The Favorites section allows you to quickly access your most often 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 to return to the main menu.

- Tap to refresh, sort, or mark files for deletion.

#### for additional options: Tap

- Tap to return to the main menu.
- Tap to update the list of files. C
- Tap to sort the files by name, size, type, or date.
- Check a file then tap to delete it.

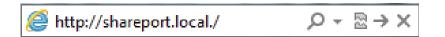
Â	Favorites
HH ►	Movie1-1.mp4 23.98MB.03/07/2013 05:49:32PM
0	IMG_0099.JPG 3.71MB,04/07/2013 02:36:15PM
0	1315.jpg 350.70KB,05/07/2013 12:19:19PM
0	20130628_144730_IMG_0002.JPG 171.10KB,04/07/2013 02:17:47PM
0	20130422_180106_IMG_0199.PNG 40.31KB,04/07/2013 02:17:49PM
0	20130422_180026_IMG_0190-1.JPG 47.92KB,04/07/2013 02:17:50PM
0	20130423_172941_IMG_0201-1.PNG 203.86KB,04/07/2013 02:17:56PM
P	Giftbox Editing.pptx 720.04KB,04/07/2013 02:39:34PM
لجر	L2 Managed Switch CLI Reference Manual Sample (DES-3028_3052 Series).pdf 1.52MB.04/07/2013 02:39:37PM

Â		Favorites		
×#*	Movie1-1.mp4 23.98MB,03/07/2013 05:49:32PM		 	
0	IMG_0099.JPG 3.71MB,04/07/2013 02:36:15PM			
0-	1315.jpg 350.70KB,05/07/2013 12:19:19PM			
	20130628_144730_IMG_0002.JPG 171.10KB,04/07/2013 02:17:47PM			
0	20130422_180106_IMG_0199.PNG 40.31KB,04/07/2013 02:17:49PM			
	20130422_180026_IMG_0190-1.JPG 47.92KB,04/07/2013 02:17:50PM			
0	20130423_172941_IMG_0201-1.PNG 203.86KB,04/07/2013 02:17:56PM			
P	Giftbox Editing.pptx 720.04KB,04/07/2013 02:39:34PM			
	С		$\downarrow\uparrow$	
	(			

# **Using SharePort Web Access**

SharePort Web Access lets you stream music, photos, and movies from a USB drive attached to your DIR-868L through a Web browser. You can also download and upload files to and from a computer through the Web browser interface.

- Type http://shareport.local. in your browser's URL to take you to the SharePort Web Access log in page.
- Log in with your admin password or a SharePort Username and Password.



Sh	narePort Web Access
	Username: Password:
	Log In
	To access device management, <u>click here</u> .

At the main menu, you can browse the files stored on your USB drive by file type.

• Click 🗮 to browse by folders.



The folder browser section will show folder hierarchy at the left and files at the right. You can quickly browse directories and perform operations by using the buttons in the folder browser view.

Click to return to the main menu.

To create a new folder:

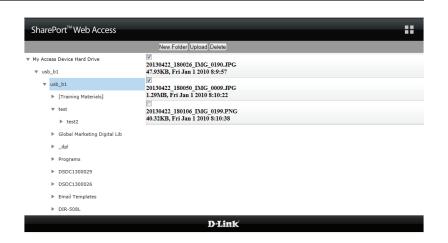
- Click **New Folder** in the current directory.
- Enter a folder name in the Create Folder pop-up.
- Click **OK**. The new folder will appear in the left column.

To upload a file:

- Click **Upload** to upload a file to the current folder.
- In the pop-up browse to the file you wish to upload.
- Click **OK**. The file will appear after the browser refreshes.

To delete a file:

- Tick the checkbox next to the files you wish to delete.
- Click **Delete** and a dialog box will appear.
- Click **OK** to confirm.







New Folder Upload Delete	
20130422_180026_IMG_0190.JPG	
47.93KB, Fri Jan 1 2010 8:9:57	
20130422_180050_IMG_0009.JPG	
1.29MB, Fri Jan 1 2010 8:10:22	
20130422_180106_IMG_0199.PNG	
40.32KB, Fri Jan 1 2010 8:10:38	

## Music

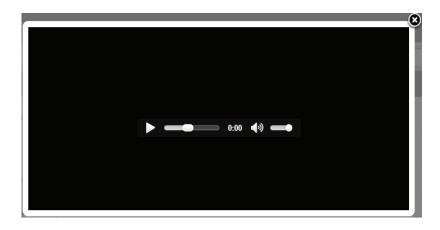
You can go to the Music section to browse and play the music files on your storage. Click **Back** to return to the main menu.

• Click on the audio filename to play it in the browser.

You can pause, seek, mute and adjust the volume in the window.	

• Close the window to end playback.

SharePort <sup>™</sup> Web Access		Â
Q Search Songs	đ	٥
Back	Music	
alert.wav 22.77KB, Wed Feb 13 2013 20:44:54		
login.wav 187.90KB, Wed Feb 13 2013 20:44:54		
logout.wav 152.23KB, Wed Feb 13 2013 20:44:54		
53.72KB, Wed Feb 13 2013 20:44:54		
send.wav 56.09KB, Wed Feb 13 2013 20:44:54		
	D-Link	

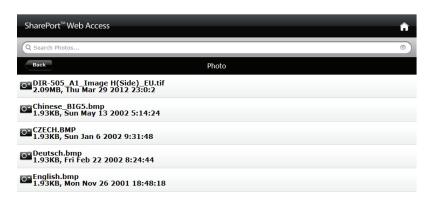


## **Pictures**

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 name 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.





D-Link DIR-868L User Manual

## 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 file to open the file in a window for streaming.

You can pause, seek, mute, adjust the volume, and activate full screen mode in the window controls.

• Close the 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.

SharePort <sup>™</sup> Web Access	٨	
Q Search Documents	8	)
Back	Document	
Giftbox Editing.pptx 720.04KB, Thu Oct 16 2009 2:40:34		
Network Storage - DAS, NAS, SAN.ppt 6.94MB, Wed Jun 24 2009 22:52:38		
Network Storage - NAS.ppt 3.84MB, Wed Mar 18 2009 18:44:30		
Switch - D-View 6 Introduction.ppt 1.99MB, Fri Mar 21 2009 1:35:10		
Switch - Switch Basics.ppt 1.20MB, Thu Mar 12 2009 19:42:10		
Wireless - Antenna Concepts.ppt 17.08MB, Fri Mar 20 2009 22:6:36		

• Depending on the file type, the default program will be started or a pop-up may ask you to open or save the file.

Windows Internet Explorer	
What do you want to do with DIR-506L Word Descriptions v01(HQ).docx? Size: 63.0 KB	
Type: Microsoft Word From: shareport.local	
Open The file won't be saved automatically.	
➔ Save	
Save as	
Cancel	

Windows and Mac users may also connect by typing the IP address of the router (by default this is **http://192.168.0.1**) in the address bar.

To access the configuration utility, open a web-browser such as Internet Explorer

Enter your password. If you previously followed the setup wizard (see page 128), please use the admin password you entered during the wizard. Otherwise, leave the password blank. Click **Log In** to proceed.

**Note:** If you cannot remember your password and cannot log in, press the reset button (see "Admin" on page 118) to restore the router to its default settings.

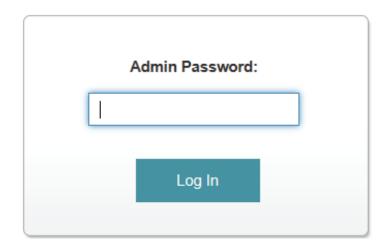
The router's home page will open displaying its current connection status.

The bar at the top of the page has quick access to Settings and Management functions. You may quickly jump back Home at any time.

*Note:* The system will automatically log out after a period of inactivity.

# Configuration







# Home

The Home page displays the current status of the router in the form of an interactive diagram. You can click each icon to display information about each part of the network at the bottom of the screen. The menu bar at the top of the page will allow you to quickly navigate to other pages.

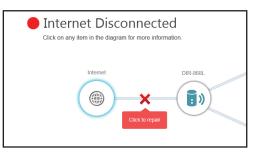
## Internet

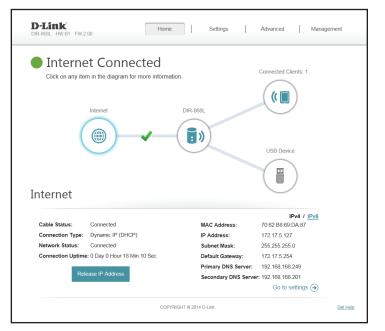
The Home page displays whether or not the router is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard (see page 72).

To bring up more details about your Internet connection, click on the **Internet** icon. Click **IPv4** or **IPv6** to see details of the IPv4 connection and IPv6 connection respectively.

Click **Release IP Address** to disconnect from the Internet. If you do this and wish to reconnect, click **Renew IP Address**.

To reconfigure the Internet settings, refer to page 72.





# **DIR-868L**

Click on the **DIR-868L** icon to view details about the router and its wireless settings.

Here you can see the router's current wireless settings, as well as its MAC address and IPv4/IPv6 addresses.

To reconfigure the network settings, either click **Go to settings** on the lower left, or click **Settings** (at the top of the page) and then **Network** on the menu that appears.

To reconfigure the wireless settings, either click **Go to settings**, on the lower right, or click **Settings** (at the top of the page) and then **Wireless** on the menu that appears.

ts: 1
Hz

# **Connected Clients**

Click on the **Connected Clients** icon to view details about the router and its wireless settings.

On this page you can see all the clients currently connected to the router, and their IP addresses.

To edit each client's settings, click the pencil icon on the client you want to edit.

Name: Enter a custom name for this client.

**Vendor:** Displays the vendor of the device.

IP Address: Enter a specific IP address for this client.

**Reserve IP:** Enable to reserve this IP address for this client.

**Parental** Enable and to disable network access during the chosen schedule **Control:** for firewall and website filters.

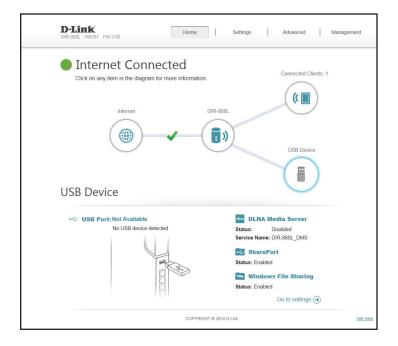
	$\times$
07904PCWIN7E	]
Unknown Vendor	
192.168.0.141	
Disabled	
Disabled	
Save	
	Unknown Vendor 192.168.0.141 Disabled Disabled

# **USB** Device

Click on the **USB Device** icon to view details about the currently connected USB device, DLNA media server, SharePort, and Windows File Sharing.

If you have a USB device connected, you can see its name and how much free space it has.

To configure your SharePort settings, click **Go to settings** and refer to "SharePort" on page 101.



# Settings Wizard

In the Settings menu on the bar on the top of the page, click **Wizard** to open the setup wizard. This is the same wizard that appears when you start the router for the first time. Refer to page 12 for details.

#### Internet

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options.

My Internet Choose your Internet connection type from the drop-down menu. Connection Is: You will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

	Internet		
	Use this section to configure your Internet Connection type. Then from Static IP, DHCP, PPPDE, PPTP, L2TP and DS-the. If you a please contact your Internet service provider. Note: If using the F disable any PPPDE client software on your computers. <u>Click herr</u>	are unsure of your c PPoE option, you v	onnection method,
Settings >> Internet		IPv6	Save

For **Dynamic IP (DHCP)** refer to page 73.

For **Static IP** refer to page 74.

For **PPPoE** refer to page 75.

For **PPTP** refer to page 76.

For **L2TP** refer to page 78.

For **DS-Lite** refer to page 80.

To configure an IPv6 connection, click the **IPv6** link. Refer to page 81

# **Dynamic IP (DCHP)**

Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your Internet Service Provider (ISP). Select this option if your ISP does not give you an IP address to use.

- Host Name: The host name is optional but may be required by some ISPs. Leave it blank if you are not sure.
- **Primary DNS** Enter the primary DNS server IP address assigned by your ISP. This **Server:** address is usually obtained automatically from your ISP.
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. This Server: address is usually obtained automatically from your ISP.
  - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
  - MAC Address The default MAC address is set to the Internet port's physical interface
     Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

D-Link DIR-868L HW:B1 FW:2.00	Hom	Settings	Advanced	Management
	from Static IP, DHCP, PPPo please contact your Internet	e your Internet Connection type. DE, PPTP, L2TP and DS-Lite. If , service provider. Note: If using oftware on your computers. <u>Click</u>	you are unsure of your of the PPPoE option, you w	onnection method,
Settings >> Internet			IPv6	Save
	My Internet Connection is:	Dynamic IP (DHCP)		
				Advanced Setting
	Host Name:	dlinkrouter		
	Primary DNS Server:			
	Secondary DNS Server:			
	MTU:	Auto 🗸		

# Static IP

Select Static IP if your IP information is provided by your Internet service provider (ISP).

IP Address: Enter the IP address provided by your ISP.

Subnet Mask: Enter the subnet mask provided by your ISP.

**Default** Enter the default gateway address provided by your ISP. **Gateway:** 

- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
  - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
  - MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Management	Advanced	Settings	Home	<b>D-Link</b> DIR-868L HW:B1 FW:2.00
onnection method,	are unsure of your co PPPoE option, you wi	e your Internet Connection type. E, PPTP, L2TP and DS-Lite. If service provider. Note: If under Note it in the service provider. Note it in the service of t	from Static IP, DHCP, PPPc please contact your Internet	
Save	<u>IPv6</u>			Settings >> Internet
		Static IP V	My Internet Connection is:	
			IP Address:	
			Subnet Mask:	
			Default Gateway:	
			Primary DNS Server:	
Advanced Settings				
			Secondary DNS Server.	
		Auto 🗸	MTU:	
$\sim$	<< MAC Address	70:62:88:64:20:83	Mac Address Clone:	
	<< MAC Address		Mac Address Clone:	

# PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet service provider (ISP).

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

- **Reconnect** Select either **Always-on**, **On-Demand**, or **Manual**. **Mode:**
- Maximum Idle Enter a maximum idle time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Autoreconnect.
- 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 provided by your ISP (Static IP only).

Service Name: Enter the ISP service name (optional).

- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
  - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

<b>D-Link</b> DIR-868L HW:B1 FW:2.00	Home	Set	tings	Advanced	Management
	Internet Use this section to configure from Static IP, DHCP, PPP please contact your Internet disable any PPPoE client se	E, PPTP, L2TP and service provider. No	DS-Lite. If yo ote: If using th	ou are unsure of your co ne PPPoE option, you w	onnection method,
Settings >> Internet				<u>IPv6</u>	Save
	My Internet Connection is:	PPP0E	~		
	Username:				
	Password:				
	Reconnect Mode:	On demand	~		
	Maximum Idle Time:	5	minutes		
					Advanced Settings
	Address Mode:	Dynamic IP	~		
	Service Name:				
	Primary DNS Server:				
	Secondary DNS Server:				
	MTU:	Auto	~		
	cc	PYRIGHT © 2013 D-Lini	k		

#### PPTP

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

PPTP Server IP Enter the PPTP server IP address provided by your ISP. Address:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

- **Reconnect** Select either **Always-on**, **On-Demand**, or **Manual**. **Mode:**
- Maximum Idle Enter a maximum idle time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Autoreconnect.
- Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

**PPTP IP** Enter the IP address provided by your ISP (Static IP only). Address:

- **PPTP Subnet** Enter the subnet mask provided by your ISP (Static IP only). Mask:
- PPTP Gateway Enter the gateway IP address provided by your ISP (Static IP only). IP Address:
- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:

D-Link DIR-868L HW:B1 FW:2.00	Home	e Set	ttings	Advanced	Management
	Internet Use this section to configur from Static IP, OHCP, PPP, please contact your Internet disable any PPPoE client so	E, PPTP, L2TP and service provider. No	I DS-Lite. If you ote: If using the	are unsure of your of PPPoE option, you v	onnection method,
Settings >> Internet				<u>IPv6</u>	Save
	My Internet Connection is:	PPTP	~		
	PPTP Server IP Address:				
	Username:				
	Password:				
	Reconnect Mode:	On demand			
	Maximum Idle Time:	5	minutes		
					Advanced Settings
	Address Mode:	Dynamic IP	$\sim$		
	Primary DNS Server:				
	Secondary DNS Server:				
	MTU:	Auto	$\checkmark$		
		PYRIGHT © 2013 D-Lin			

- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
  - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

<b>D-Link</b> DIR-868L HW:B1 FW:2.00	Hom	e Set	ttings	Advanced	Management
	Internet Use this section to configur from Static IP, DHCP, PPP, please contact your Internet disable any PPPoE client so	E, PPTP, L2TP and service provider. N	DS-Lite. If you ote: If using the	are unsure of your co PPPoE option, you w	onnection method,
Settings >> Internet				<u>IPv6</u>	Save
	My Internet Connection is:	PPTP	~		
	PPTP Server IP Address:				
	Username:				
	Password:				
	Reconnect Mode:	On demand	~		
	Maximum Idle Time:	5	minutes		
					Advanced Settings
	Address Mode:	Dynamic IP	$\sim$		
	Primary DNS Server:				
	Secondary DNS Server:				
	MTU:	Auto	~		
	cc	PYRIGHT © 2013 D-Lin	k		

#### L2TP

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

L2TP Server IP Enter the L2TP server IP address provided by your ISP. Address:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

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

- Maximum Idle Enter a maximum idle time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Autoreconnect.
- Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

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

- L2TP Subnet Enter the subnet mask provided by your ISP (Static IP only). Mask:
- L2TP Gateway Enter the gateway IP address provided by your ISP (Static IP only). IP Address:
- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:

D-Link DIR-868L HW:B1 FW:2.00	Hom	e Se	ttings	Advanced	Management
	Internet				
	Use this section to configure from Static IP, DHCP, PPP, please contact your Interne disable any PPPoE client se	bE, PPTP, L2TP and t service provider. N	d DS-Lite. If yo lote: If using th	u are unsure of your e PPPoE option, you	connection method,
Settings >> Internet				<u>IPv6</u>	Save
	My Internet Connection is:	L2TP	~		
	L2TP Server IP Address:				
	Username:				
	Password:				
	Reconnect Mode:	On demand	$\sim$		
	Maximum Idle Time:	5	minutes		
					Advanced Settings.
	Address Mode:	Dynamic IP	$\sim$		
	Primary DNS Server:				
	Secondary DNS Server:				
	MTU:	Auto			

- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
  - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

D-Link DIR-868L HW:B1 FW:2.00	Hom	e Set	ttings	Advanced	Management
	Internet Use this section to configur from Static IP, DHCP, PPP please contact your Interne disable any PPPoE client s	oE, PPTP, L2TP and t service provider. No	I DS-Lite. If you ote: If using the	are unsure of your co PPPoE option, you w	onnection method,
Settings >> Internet				<u>IPv6</u>	Save
	My Internet Connection is:	L2TP	~		
	L2TP Server IP Address:				
	Username:				
	Password:				
	Reconnect Mode:	On demand	~		
	Maximum Idle Time:	5	minutes		
					Advanced Settings
	Address Mode:	Dynamic IP	$\sim$		
	Primary DNS Server:				
	Secondary DNS Server:				
	MTU:	Auto	~		
	c	DPYRIGHT © 2013 D-Lin	k		

## **DS-Lite**

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

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

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

**B4 IPv6** Enter the B4 IPv4 address value used here. **Address:** 

- WAN IPv6 Once connected, the WAN IPv6 address will be displayed here. Address:
- IPv6 WAN Once connected, the IPv6 WAN default gateway address will be **Default** displayed here.

Gateway:

	Internet		
	Use this section to configure your Internet Connection type. Th from Static IP, DHCP, PPPOE, PPTP, L2TP and DS-Lite. If you please contact your internet service provider. Note: If using the disable any PPPOE client software on your computers. <u>Click h</u>	u are unsure of you PPPoE option, yo	r connection method,
Settings >> Internet		<u>IPv6</u>	Save
	My Internet Connection is: DS-Lite		
			Advanced Settin
	DS-Lite Configuration: DS-Lite DHCPv6 Option V		
	B4 IPv4 Address: 192.0.0.		
	WAN IPv6 Address: Not Available		
	IPv6 WAN Default Gateway: Not Available		
	COPYRIGHT © 2013 D-Link		

#### IPv6

To configure an IPv6 connection, click the IPv6 link. To return to the IPv4 settings, click IPv4.

My Internet Choose your IPv6 connection type from the drop-down menu. You Connection Is: will be presented with the appropriate options for your connection type. Click Advanced Settings... to expand the list and see all of the options.

For Auto Detection refer to page 82.

For **Static IPv6** refer to page 84.

For Auto Configuration (SLAAC/DHCPv6) refer to page 86.

For **PPPoE** refer to page 88.

For IPv6 in IPv4 Tunnel refer to page 90.

For **6 to 4** refer to page 92.

For **6rd** refer to page 93.

For Local Connectivity Only refer to page 95.

onnection details are displayed on this page.	
apportion dotails are displayed on this page	
uniection details are displayed on this page.	Click here for h
IPv4	Save
inectivity Only	
	Advanced S
ed	
le	
le	
	nectivity Only V

### **Auto Detection**

This is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to make some settings on your side before your router can connect to the IPv6 Internet.

DNS Type: Select either Obtain DNS server address automatically or Use the following DNS address.

- Primary DNS If you selected Use the following DNS address above, enter the Server: primary DNS server address.
- Secondary DNS If you selected Use the following DNS address above, enter the Server: secondary DNS server address.
  - Enable DHCP- Enable or disable prefix delegation services. PD:

LAN IPv6 If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the Address: router.

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Enable Enable or disable the Automatic IPv6 Address Assignment feature. Automatic IPv6 Address Assignment:

Enable Enable or disable automatic DHCP-PD services. Automatic DHCP-PD in LAN:

D-Link Dir-868L HW:B1 FW:2.00	Home Se	ttings Advanced	Management
All of your	6 IPv6 Internet and network connection	n details are displayed on this pa	ige. <u>Click here for help,</u>
Settings >> Internet >> IPv6		<u>IPv4</u>	Save
My Intern	net Connection is: Auto Detection	×	
IPv6 DNS SETTINGS			
	DNS Type: Obtain a DNS serv	er 🗸	
LAN IPv6 ADDRESS SETTINGS			
	nable DHCP-PD: Enabled		
LAN IPv6 Lir	nk-Local Address: Not Available		Advanced Settings
ADDRESS AUTOCONFIGURATION	SETTINGS		
Enable Automatic IPv6 Add	Iress Assignment: Enabled		
Enable Automatic E	DHCP-PD in LAN: Enabled		
Autoco	onfiguration Type: SLAAC+Stateless	DHCP V	
Router Adver	tisement Lifetime: minutes		
	COPYRIGHT © 2013 D-Lir	lk	

Auto Select SLAAC + RDNSS or SLAAC + Stateless DHCP, Stateful Configuration (DHCPv6). Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

D-Link DIR-868L HW:B1 FW:2.00	Home Settings	Advanced	Management
IP	v6		
All of	your IPv6 Internet and network connection details	are displayed on this page	. <u>Click here for help.</u>
Settings >> Internet >> IPv6		<u>IPv4</u>	Save
My	Internet Connection is: Auto Detection	~	
IPv6 DNS SETTINGS			
	DNS Type: Obtain a DNS server	~	
LAN IPv6 ADDRESS SETTINGS	Enable DHCP-PD: Enabled		
LAN IP	16 Link-Local Address: Not Available		Advanced Setting
ADDRESS AUTOCONFIGURATI	ON SETTINGS		
Enable Automatic IPv6	Address Assignment: Enabled		
Enable Autom	atic DHCP-PD in LAN: Enabled		
A	utoconfiguration Type: SLAAC+Stateless DHCP	~	
Router A	dvertisement Lifetime: minutes		

# Static IPv6

Select **Static IP** if your IPv6 information is provided by your Internet service provider (ISP).

Use Link-Local Enable or disable a link-local address. Address:

- IPv6 Address: If you disabled Use Link-Local Address, enter the address supplied by your ISP.
- Subnet Prefix If you disabled Use Link-Local Address, enter the subnet prefix Length: length supplied by your ISP.

**Default** Enter the default gateway for your IPv6 connection. **Gateway:** 

- Primary DNS Enter the primary DNS server address. Server:
- Secondary DNS Enter the secondary DNS server address. Server:

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

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Enable Click to enable the Automatic IPv6 Address Assignment feature. Automatic IPv6 Address Assignment:

D-Link DIR-868L HW:B1 FW:2.00	Hom	e Settings	Advanced	Management
IPv	6			
All of you	ur IPv6 Internet and	d network connection details are disp	ayed on this pa	ge. <u>Click here for help.</u>
Settings >> Internet >> IPv6			IPv4	Save
My Inte	rnet Connection is:	Static IPv6		
Use L	ink-Local Address:	Enabled		
	Default Gateway:			]
Pr	imary DNS Server:			]
Seco	ndary DNS Server:			]
LAN IPv6 ADDRESS SETTINGS				
	LAN IPv6 Address:			/64
LAN IPv6 L	ink-Local Address:	Not Available		Advanced Setting
ADDRESS AUTOCONFIGURATION	SETTINGS			
Enable Automatic IPv6 Ac	Idress Assignment:	Enabled		
Auto	configuration Type:	SLAAC+Stateless DHCP 🗸		
Router Adve	ertisement Lifetime:	60 minutes		
		DPYRIGHT © 2013 D-Link		

Auto Select SLAAC + RDNSS or SLAAC + Stateless DHCP, Stateful Configuration (DHCPv6). Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

D-Link DIR-868L HW:B1 FW:2.00	Home Settings	Advanced	Management
IPv6	;		
All of your I	Pv6 Internet and network connection details	are displayed on this pa	ge. <u>Click here for help.</u>
Settings >> Internet >> IPv6		<u>IPv4</u>	Save
My Interne	t Connection is: Static IPv6	~	
Use Link	-Local Address: Enabled		
D	efault Gateway:		]
Prima	ary DNS Server:		]
Seconda	ary DNS Server:		]
LAN IPv6 ADDRESS SETTINGS			
	N IPv6 Address:		/64
LAN IPv6 Link	-Local Address: Not Available		Advanced Setting
ADDRESS AUTOCONFIGURATION SI	ETTINGS		
Enable Automatic IPv6 Addre	ess Assignment: Enabled		
Autocon	figuration Type: SLAAC+Stateless DHCP	~	
Router Advertis	ement Lifetime: 60 minutes		

# Auto Configuration (SLAAC/DHCPv6)

This is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to make some settings on your side before your router can connect to the IPv6 Internet.

DNS Type: Select either Obtain DNS server address automatically or Use the following DNS address.

- Primary DNS If you selected Use the following DNS address above, enter the Server: primary DNS server address.
- Secondary DNS If you selected Use the following DNS address above, enter the Server: secondary DNS server address.
  - Enable DHCP- Enable or disable prefix delegation services. PD:

LAN IPv6 If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the Address: router.

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Enable Enable or disable the Automatic IPv6 Address Assignment feature. Automatic IPv6 Address Assignment:

Enable Enable or disable automatic DHCP-PD services. Automatic DHCP-PD in LAN:

<b>D-Link</b> DIR-868L HW.B1 FW.2.00	Home		Settings	Advan	ed	Management
	PV6 of your IPv6 Internet and i	network conner	ction details ar	e displayed on t	his page. <u>C</u>	lick here for help.
Settings >> Internet >> IPv6				IF	<u><sup>2</sup>v4</u>	Save
Му	/ Internet Connection is:	Auto Configura	tion 🗸			
IPv6 DNS SETTINGS						
	DNS Type:	Obtain a DNS	server 🗸			
LAN IPv6 ADDRESS SETTING	8	_				
	Enable DHCP-PD:	Enabled				
LAN I	Pv6 Link-Local Address: N	lot Available				Advanced Settings
ADDRESS AUTOCONFIGURAT	TION SETTINGS					
Enable Automatic IP	/6 Address Assignment:	Enabled				
Enable Autor	matic DHCP-PD in LAN:	Enabled				
	Autoconfiguration Type:	SLAAC+Statek	ess DHCP 🗸			
Router	Advertisement Lifetime:	minutes				
	COF	PYRIGHT © 2013	D-Link			

Auto Select SLAAC + RDNSS or SLAAC + Stateless DHCP, Stateful Configuration (DHCPv6). Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

D-Link DIR-868L HW:B1 FW:2.00	Home Setting	s Advanced	Management
IP	∿6		
All of	your IPv6 Internet and network connection det	ails are displayed on this	page. <u>Click here for help.</u>
Settings >> Internet >> IPv6		<u>IPv4</u>	Save
Му	Internet Connection is: Auto Configuration	~	
IPv6 DNS SETTINGS	DNS Type: Obtain a DNS server	_	
LAN IPv6 ADDRESS SETTINGS		~	
LAN IP	v6 Link-Local Address: Not Available		Advanced Setting
ADDRESS AUTOCONFIGURATI	ON SETTINGS		
Enable Automatic IPv6	Address Assignment: Enabled		
Enable Autom	atic DHCP-PD in LAN: Enabled		
А	utoconfiguration Type: SLAAC+Stateless DHC	PV	
Router A	dvertisement Lifetime: minutes		

## PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet service provider (ISP).

- **PPPoE Session:** Choose **Share with IPv4** to re-use your IPv4 PPPoE username and password, or **Create a new session**.
  - Username: If you selected **Create a new session** above, enter the PPPoE username provided by your ISP here.
  - Password: If you selected **Create a new session** above, enter the PPPoE password provided by your ISP here.
- 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**.
  - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
  - **DNS Type:** Select either **Obtain DNS server address automatically** or **Use the following DNS address**.

D-Link DIR-868L HW:B1 FW:2.00	Home Settings Advanced Management
	Click here for help.
Settings >> Internet >> IPv6	IPv4 Save
My Interr	et Connection is: PPPoE V
	PPPoE Session: Share with IPv4
	Address Mode: Dynamic IP V MTU: 1482 bytes
IPv6 DNS SETTINGS	DNS Type: Obtain a DNS server
LAN IPv6 ADDRESS SETTINGS	
	nable DHCP-PD: Enabled k-Local Address: Not Available Advanced Settings
ADDRESS AUTOCONFIGURATION	
Enable Automatic IPv6 Add	
Enable Automatic [	HCP-PD in LAN: Enabled
Autoco	nfiguration Type: SLAAC+Stateless DHCP 🗸
Router Adven	isement Lifetime: minutes
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Enable DHCP- Enable DHCP-PD for LAN IPv6. PD:

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Enable Enable automatic IPv6 address assignment. Automatic IPv6 Address Assignment:

Enable Enable automatic DHCP-PD assignment in LAN. Automatic DHCP-PD in LAN:

Auto Select SLAAC + RDNSS or SLAAC + Stateless DHCP, Stateful Configuration (DHCPv6).

Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

D-Link Hom DIR-868L HW:B1 FW:2.00	e Settings Advanced	Management
IPv6		
All of your IPv6 Internet and	d network connection details are displayed on this page. Clic	k here for help.
Settings >> Internet >> IPv6	IPv4	Save
My Internet Connection is:	PPPoE V	
PPPoE Session:	Share with IPv4	
Address Mode:	Dynamic IP	
MTU:	1492 bytes	
IPv6 DNS SETTINGS		
DNS Type:	Obtain a DNS server	
LAN IPv6 ADDRESS SETTINGS		
Enable DHCP-PD:	Enabled	
LAN IPv6 Link-Local Address:		dvanced Settin
ADDRESS AUTOCONFIGURATION SETTINGS		dvanced Setun
Enable Automatic IPv6 Address Assignment:	Enabled	
Enable Automatic DHCP-PD in LAN:		
	Enabled	
Autoconfiguration Type: Router Advertisement Lifetime:	SLAAC+Stateless DHCP V	
Router Auvertisement Lifetime:	minutes	

# IPv6 in IPv4 Tunnel

The user can configure the IPv6 connection to run in IPv4 Tunnel mode. IPv6 over IPv4 tunneling encapsulates IPv6 packets in IPv4 packets so that IPv6 packets can be sent over an IPv4 infrastructure.

- **Remote IPv4** Enter the IPv4 remote address you will use. Address:
- **Remote IPv6** Enter the IPv6 remote address you will use. Address:
  - Local IPv4 Enter the IPv4 local address you will use. Address:
  - Local IPv6 Enter the IPv6 local address you will use. Address:
- Subnet Prefix Enter the subnet prefix length supplied by your ISP. Length:
  - **DNS Type:** Select either **Obtain DNS server address automatically** or **Use the following DNS address**.
- Enable DHCP- Enable or disable prefix delegation services. PD:

IPve	5				
All of your	IPv6 Internet and ne	twork connection det	ails are displa	yed on this page	e. Click here for help
Settings >> Internet >> IPv6				IPv4	Save
My Intern	et Connection is: IF	Pv6 in IPv4 Tunnel	~		
	ote IPv4 Address:				
	ote IPv6 Address:	17.5.50			
	al IPv4 Address: 172	.17.5.56			
	net Prefix Length:				
	let Freix Eengui.				
IPv6 DNS SETTINGS					
	DNS Type: 0	btain a DNS server	$\sim$		
LAN IPv6 ADDRESS SETTINGS					
E	nable DHCP-PD:	Enabled			
LAN IPv6 Lin	k-Local Address: Not	Available			
					Advanced Settir
ADDRESS AUTOCONFIGURATION	SETTINGS				
Enable Automatic IPv6 Add	ress Assignment:	nabled			
Enable Automatic D	HCP-PD in LAN:	Enabled			
Autoco	nfiguration Type: S	LAAC+Stateless DHC	• •		
	isement Lifetime: 6	0 minutes			

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#### Section 4 - Configuration

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Enable Enable or disable the Automatic IPv6 Address Assignment feature. Automatic IPv6 Address Assignment:

Enable Enable or disable automatic DHCP-PD services. Automatic DHCP-PD in LAN:

Auto Select SLAAC + RDNSS, SLAAC + Stateless DHCP, or Stateful Configuration (DHCPv6).

Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

D-Link Hom DIR-868L HW:B1 FW:2.00	Settings	Advanced	Management
IPv6			
	d network connection details are di	splayed on this pag	e. Click here for help
Settings >> Internet >> IPv6		<u>IPv4</u>	Save
My Internet Connection is:	IPv6 in IPv4 Tunnel 🗸		
Remote IPv4 Address:			
Remote IPv6 Address:			
Local IPv4 Address:	172.17.5.56		
Local IPv6 Address:			
Subnet Prefix Length:			
IPv6 DNS SETTINGS			
DNS Type:	Obtain a DNS server 🗸		
LAN IPv6 ADDRESS SETTINGS			
Enable DHCP-PD:	Enabled		
LAN IPv6 Link-Local Address:	Not Available		
			Advanced Settir
ADDRESS AUTOCONFIGURATION SETTINGS	_		
Enable Automatic IPv6 Address Assignment:	Enabled		
Enable Automatic DHCP-PD in LAN:	Enabled		
Autoconfiguration Type:	SLAAC+Stateless DHCP 🗸		
Router Advertisement Lifetime:	60 minutes		

#### 6 to 4

In this section the user can configure the IPv6 6 to 4 connection settings. 6to4 is an IPv6 address assignment and automatic tunneling technology that is used to provide unicast IPv6 connectivity between IPv6 sites and hosts across the IPv4 Internet.

6 to 4 Address: Displays the 6 to 4 address.

6 to 4 Relay: Enter the 6 to 4 relay supplied by your ISP.

Primary DNS Enter the primary DNS server address. Server:

Secondary DNS Enter the secondary DNS server address. Server:

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

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

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

Auto Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless Configuration DHCPv6.

Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

<b>D-Link</b> DIR-868L HW:B1 FW:2.00	Home Settings	Advanced	Management
IPv6			
All of your IPv6	Internet and network connection detail	s are displayed on this pa	ge. <u>Click here for help</u>
Settings >> Internet >> IPv6		IPv4	Save
My Internet Co	onnection is: 6to4	×	
6t	o4 Address: 172.17.5.56		
	6to4 Relay: 192.88.99.1		
Primary (	DNS Server:		]
Secondary (	DNS Server:		]
LAN IPv6 ADDRESS SETTINGS			
LAN IP	v6 Address: FFFF:FFFF:FFFF:	::1 /64	
LAN IPv6 Link-Lo	cal Address: Not Available		Advanced Settin
ADDRESS AUTOCONFIGURATION SET	TINGS		
Enable Automatic IPv6 Address	Assignment: Enabled		
Autoconfigu	ration Type: SLAAC+Stateless DHCP	$\sim$	
Router Advertisem	ent Lifetime: minutes		

#### 6rd

In this section the user can configure the IPv6 6rd connection settings.

Assign IPv6 Currently unsupported. Prefix:

- Primary DNS Enter the primary DNS server address. Server:
- Secondary DNS Enter the secondary DNS server address. Server:
- **Enable Hub and** Enable if you want to minimize the number of routes to the **Spoke Mode:** destination by using a hub and spoke method of networking.

6rd Choose the 6rd DHCPv4 Option to automatically discover and Configuration: populate the data values, or Manual Configuration to enter the settings yourself.

LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

IC	°v6			
All of	your IPv6 Internet an	d network connection details are d	splayed on this pag	e. Click here for help.
(⊕)				
<b>O</b>				
Settings >> Internet >> IPv6			IPv4	Save
My	Internet Connection is:	6rd 🗸		
	Assign IPv6 Prefix:			
	Primary DNS Server:			
s	econdary DNS Server:			
6RD MANUAL CONFIGURATIO	N			
Enable	Hub and Spoke Mode:	Enabled		
	6rd Configuration:	6rd DHCPv4 Option		
LAN IPv6 ADDRESS SETTINGS				
	LAN IPv6 Address:			
LAN IP	v6 Link-Local Address:	Not Available		Advanced Setting
ADDRESS AUTOCONFIGURAT	ION SETTINGS			
Enable Automatic IPv	5 Address Assignment:	Enabled		
		SLAAC+Stateless DHCP V		
Α	utoconfiguration Type:			

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

Auto Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless Configuration DHCPv6. Type:

Router Enter the IPv6 address lifetime (in minutes). Advertisement Lifetime:

D-Link DIR-668L HW.81 FW.2.00	Home Settings	Advanced	Management
All of your	6 IPv6 Internet and network connection details are die	splayed on this page	. <u>Click here for help.</u>
Settings >> Internet >> IPv6		IPv4	Save
My Intern	net Connection is: 6rd 🗸		
A	ssign IPv6 Prefix:		
Prin	nary DNS Server:		
Secon	dary DNS Server:		
6RD MANUAL CONFIGURATION			
Enable Hub a	and Spoke Mode: Enabled		
6	Srd Configuration: 6rd DHCPv4 Option		
LAN IPv6 ADDRESS SETTINGS			
	AN IPv6 Address: Not Available		
LAN IPv6 Lir	Ik-Local Address: Not Available		Advanced Settings
ADDRESS AUTOCONFIGURATION	SETTINGS		
Enable Automatic IPv6 Add	ress Assignment: Enabled		
Autoco	onfiguration Type: SLAAC+Stateless DHCP V		
Router Advert	tisement Lifetime: minutes		
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# Local Connectivity Only

Local Connectivity Only allows you to set up an IPv6 connection that will not connect to the Internet.

Enable ULA: Click here to enable Unique Local IPv6 Unicast Addresses settings.

**Use Default** Checking this box will automatically configure the ULA prefix for **ULA Prefix:** the default setting.

**ULA Prefix:** If you wish to choose your own ULA prefix, enter it here.

**Current IPv6** This section will display the current settings for your IPv6 ULA. **ULA Settings:** 

D-Link DIR-868L HW:B1 FW:2.00	Home Settings	Advanced	Management
6	IPv6 All of your IPv6 Internet and network connection details are disp	layed on this page. <u>(</u>	Click here for help.
Settings >> Internet >> IP	v6	IPv4	Save
	My Internet Connection is: Local Connectivity Only 🗸		
			Advanced Settings.
IPv6 ULA SETTINGS	Enable ULA: Disabled		
CURRENT IPv6 ULA SETT	NGS		
	Current ULA Prefix: Not Available LAN IPv6 ULA: Not Available		
	COPYRIGHT © 2013 D-Link		

## Wireless

In the Settings menu on the bar on the top of the page, click **Wireless** to see the wireless configuration options. To configure the router's guest zone, click the **Guest Zone** link. Refer to page 98 for details. Click **Advanced Settings...** to expand the list and see all of the options. The following options apply to both the 2.4 GHz and the 5 GHz wireless frequency bands:

Status: Enable or disable the wireless frequency band.

- Wi-Fi Name Create a name for your wireless network using up to 32 characters. (SSID):
  - Password: Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the network.

Security Mode: Choose None, WEP, or WPA/WPA2-(Personal) (recommended).

**802.11 Mode:** Select the desired wireless networking standards to use. The available options will depend on the wireless frequency band, as well as the currently selected security mode.

Wi-Fi Channel: Select the desired channel. The default is Auto (recommended).

- Transmission Select the desired wireless transmission power. Power:
- Channel Width: Select Auto 20/40 if you are using both 802.11n and non-802.11n wireless devices, or select 20 MHz if you are not using any 802.11n wireless clients.
- Visibility Status: The default setting is Visible. Select Invisible if you do not want to broadcast the SSID of your wireless network.

DIR-868L HW:B1 FW:2.00	Hom	e Settings	Advanced	Management
	Wireless			
		e the wireless settings for your D-Li	nk Router. Please mal	ce sure that any
	changes made in this section	on will need to be updated on your v	vireless device. Click h	ere for help.
$\sim$				
Settings >> Wireless			Guest Zone	Save
2.4GHz		_		
	Status:	Enabled		
	Wi-Fi Name (SSID):	dlink		
	Password:			
				Advanced Setting
	Security Mode:	None		
	802.11 Mode:	Mixed 802.11b/g/n		
	Wi-Fi Channel:	Auto 🗸		
	Transmission Power:	High 🗸		
	Channel Width:	Auto 20/40 MHz 🗸		
	Visibility Status:	Visible		
	Schedule:	Always Enable		
5GHz				
	Status:	Enabled		
	Wi-Fi Name (SSID):	dlink-media		
	Password:			
				Advanced Setting
	Security Mode:	None 🗸		
	802.11 Mode:	Mixed 802.11a/n/ac 🗸		
	Wi-Fi Channel:	Auto 🗸		
	Transmission Power:	High 🗸		
	Channel Width:	Auto 20/40/80 MHz 🗸		
	Visibility Status:	Visible		
	Schedule:	Always Enable		

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 116).

D-Link DIR-868L HW:B1 FW:2.00	Hom	e	Settings		Advanced	Management
	Wireless					
	Use this section to configure changes made in this section					
	manges made in this secut	on will need to be	e upuateu on	your wi	reless device. <u>Clic</u>	k here for help.
Settings >> Wireless					Guest Zone	Save
2.4GHz		_				
	Status:	Enabled				
	Wi-Fi Name (SSID):	dlink				
	Password:					Advanced Settin
	Security Mode:	None		/		
	802.11 Mode:	Mixed 802.11b	/g/n	/		
	Wi-Fi Channel:	Auto		/		
	Transmission Power:	High		/		
	Channel Width:	Auto 20/40 MH	z	/		
	Visibility Status:	Visible		/		
	Schedule:	Always Enable		/		
5GHz						
	Status:	Enabled				
	Wi-Fi Name (SSID):	dlink-media				
	Password:					
			_	_		Advanced Settin
	Security Mode:	None	<u> </u>	*		
	802.11 Mode:	Mixed 802.11a	/n/ac			
	Wi-Fi Channel: Transmission Power;	Auto High				
	Channel Width:	High Auto 20/40/80	_			
	Visibility Status:	Visible				
	Schedule:	Always Enable		/		

#### **Guest Zone**

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

In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link. Click **Advanced Settings...** to expand the list and see all of the options. The following options apply to both the 2.4 GHz and the 5 GHz wireless frequency bands:

Status: Enable or disable the guest zone for each wireless frequency band.

- Wi-Fi Name Enter a wireless network name (SSID) that is different from your main (SSID): wireless network.
- **Password:** Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the guest zone.
- Internet Access Enabling this option will confine connectivity to the Internet, Only: disallowing guests from accessing other local network devices.

D-Link DIR-868L HW:B1 FW:2.00	Home		Settings	I	Advanced		Management
	Guest Zon This page lets you enable ar communicate or detect devir Home Network Access. <u>Clich</u>	nd configure a V ces on your hon					
Settings >> Wireless >>	Guest Zone				<u>Wi-Fi</u>		Save
2.4GHz	Status: Wi-Fi Name (SSID): Password:	Enabled dlink-guest					
6GHz	Status: WI-FI Name (SSID): Password:	Enabled dlink-media-gu	est				
Home Network Access	Internet Access Only:	Enabled					
	со	PYRIGHT © 2013	D-Link				

#### Network

This section will allow you to change the local network settings of the router and to configure the DHCP settings. In the Settings menu on the bar on the top of the page, click **Network**. Click **Advanced Settings...** to expand the list and see all of the options.

LAN IP Address: Enter the IP address of the router. The default IP address is 192.168.0.1.

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

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

Management The default address to access the router's configuration is Link: http://dlinkrouter.local./ Here, you can replace dlinkrouter with a name of your choice.

Local Domain Enter the domain name (optional). Name:

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

Status: Enable or disable the DHCP server.

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

D-Link DIR-868L HW:B1 FW:2.00	Home Settings Advanced	Management
	Network	
	Use this section to configure the network settings for your device. You can enter a n the management link field, and use the link to access web UI in a web browser. We change the management link if there are more than one D-Link devices within the n <u>help</u> .	recommend you
Settings >> Network		Save
Network Settings		
	LAN IP Address: 192.168.0.1	
	Subnet Mask: 255.255.0	
	Management Link: http:// dlinkrouter .local/	
	Local Domain Name:	
	Enable DNS Relay: Enabled	
		Advanced Setting
DHCP Server		
	Status: Enabled	
	DHCP IP Address Range: 192.168.0. 100 to 192.168.0. 199	
	DHCP Lease Time: 10080 minutes	
	Always Broadcast: Disabled (compatibility for some DHCP Clients)	
Advanced Settings		
	WAN Port Speed: Auto	
	UPnP: Enabled	
	IPv4 Multicast Streams: Disabled	
	IPv6 Multicast Streams: Enabled	

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

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

- WAN Port You may set the port speed of the Internet port to 10 Mbps, Speed: 100 Mbps, 1000 Mbps, or Auto (recommended).
  - **UPnP:** Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software and peripherals.
- IPv4 Multicast Enable to allow IPv4 multicast traffic to pass through the router from Stream: the Internet.
- IPv6 Multicast Enable to allow IPv6 multicast traffic to pass through the router from Stream: the Internet.

D-Link DIR-868L HW:B1 FW:2.00	Home	Settings		Advanced	Management
	Network				
	Use this section to configure the management link field, a change the management link <u>help.</u>	nd use the link to access	web UI in a	web browser	We recommend you
Settings >> Network					Save
Network Settings					
	LAN IP Address:	192.168.0.1			
	Subnet Mask:	255.255.255.0			
	Management Link: 1	http:// dlinkrouter .	local/		
	Local Domain Name:				
	Enable DNS Relay:	Enabled			
					Advanced Settings
DHCP Server					
	Status:	Enabled			
	DHCP IP Address Range: 1	192.168.0. 100 to 19	2.168.0. 1	99	
	DHCP Lease Time:	10080 minutes			
		Disabled			
	Always Broadcast: (	compatibility for some DHC	CP Clients)		
Advanced Settings					
	WAN Port Speed:	Auto 🗸			
	UPnP:	Enabled			
	IPv4 Multicast Streams:	Disabled			
	l				
	IPv6 Multicast Streams:	Enabled			

# SharePort

This page will allow you to set up access to files on an external USB device plugged into the router. You can do this through the local network or from the Internet using either a web browser or an app on your smartphone or tablet. In the Settings menu on the bar on the top of the page, click **SharePort**.

Status:	Check to enable DLNA media server functions, allowing connected
	clients access to media files over the network.

DLNA Media Choose a name for your DLNA media server so that it can be found. Server:

Windows Choose either Allow all users to access (no password) or Require File Sharing router's admin password to specify whether the router's password (SAMBA): will be required for access.

- Web File Access: Enable remote access to files stored on a USB device plugged into the router through a web browser.
  - **Direct Links:** This area will display the HTTP and HTTPS links to connect to your SharePort drive through a web browser from a device on your network.

Click **Save** when you are done.

To manage user accounts for SharePort access, click **Create User** and refer to the next page for details.

<b>D-Link</b> DIR-868L HW:B1 FW:2.00	Hom	e   (	Settings	]	Advanced	Management
	SharePort					
	SharePort allows you to shi router. Access your files loo devices, or access them on Network Alliance (DLNA) m devices such as smart TVs	ally and remo a computer the edia server al	tely using the fi nrough the Sha lows you to stre	ree mydl rePort W am mul	link SharePort app fo leb Access. The buil timedia content to an	or your iOS or Andro It-in Digital Living
Settings >> SharePort					Create User	Save
DLNA Media Server						
	Status:	Enabled				
	DLNA Media Server:	DIR850L_DI	ИS			
Windows File Sharing (Sa	AMBA)					
	Status:	Enabled				
	Windows File Sharing:	Require rout	er's admin pass	word	$\sim$	
Web File Access						
	Status:	Enabled				
	Direct Links:	http://sharepo https://sharepo				
	cc	PYRIGHT @ 20	13 D-Link			

#### **Create User**

The Create User page allows you to manage your SharePort user accounts. The current list of user accounts will be displayed, along with their current permissions and access path. If they do not have an account set up, users will be restricted to guest access; only having access to the "Guest" folder on the media server. The router can store a maximum of ten accounts (including the "Admin" account).

If you wish to remove an account, click on its trash can icon in the Delete column. If you wish to edit an account, click on its pencil icon in the Edit column. If you wish to create a new account, click the **Create User** button. If you edit or create a user, the following options will appear:

User Name: Enter the desired user name for the new account.

Password: Enter the password which the user will need to enter when logging in.

- **Permission:** Select either **Read Only** or **Read/Write** to control whether the user can edit, add, or delete files on the device.
  - **Folder:** Choose the parent folder that the user will be able to access. Files and folders on a higher level will be unavailable. "root" means that the user can access all files on the device. To change the selected folder, click **Browse** and browse to the desired folder.

Click **OK** when you are done. The new user should be added to the list of user accounts. To save the new list, click **Save**. To return to the SharePort page, click **SharePort**.

DIR-868L HW:B1 FW:2.00	Home	Settings Adv	vanced	Management
	SharePort			
	"Create User" allows you to manage acc new device will appear in the list with a I with a user account. Click here for help.	ink to it. You can then use this		
Settings >> SharePort	>> Create User	to I	SharePort	Save
User Name	Access Path	Permission	Edit	Delete
	root	Read/Write	<b>7</b> 1	-
Admin				
Admin Create User Remain	ing: 9			



# mydlink

Enabling mydlink will allow you to access and manage the mydlink-compatible devices on your network. This can be done either through a web browser or via a smartphone app.

This page allows you to sign in to an existing mydlink account, or sign up for a new mydlink account. In the Settings menu on the bar on the top of the page, click **mydlink**.

If you do not already have a mydlink account, click **No, I want to create a new mydlink account**. Fill out your email address (which will also function as your username), choose a password, and enter your first and last name. Then, click **Sign Up** to create your new mydlink account.

If you already have a mydlink account, click **Yes, I have a mydlink account**. Enter your email address (which is also your username) and your password. Then, click **Sign In** to register your existing mydlink account with your router.

D-Link DIR-868L HW:B1 FW:2.00	Home Settings	Advanced Management
	mydlink	
mydlink	Creating a mydlink account and registering your router with myr manage your network on your smartphone or tablet, as well as allows you to plug in a USB drive and access the stored files fro Android apps as well as the web browser on your computer. <u>Cli</u>	through the secure web portal. It also om anywhere in the world through iOS and
Settings >> mydlink		Sign Up
mydlink Registration		
Do you hav	e an existing mydlink account? 🔵 Yes, I have a mydlink account	t.
	No, I want to create a new my	dlink account.
E	mail Address (Account Name):	
	Password:	
	First Name:	
	Last Name:	
	I accept the mydlink terms and o	conditions.
	COPYRIGHT @ 2013 D-Link	

	mydlink					
mydlink	Creating a mydlink accou manage your network on allows you to plug in a US Android apps as well as t	your smartpho B drive and a	one or tablet, as v ccess the stored	vell as throu files from ar	gh the secure nywhere in the	web portal. It also
Settings >> mydlink						Sign In
mydlink Registration						
Do you hav	e an existing mydlink account	? 🔘 Yes, I	have a mydlink a	ccount.		
		🔿 No, I w	vant to create a n	ew mydlink	account.	
E	mail Address (Account Name	):				
	Passwor					

# Advanced QoS Engine

This section will allow you to prioritize particular clients over others, so that those clients receive higher bandwidth. For example, if one client is streaming a movie and another is downloading a non-urgent file, you might wish to assign the former device a higher priority than the latter so that the movie streaming is not disrupted by the traffic of the other devices on the network.

In the Advanced menu on the bar on the top of the page, click **QoS Engine**.

Under All Devices, you will see device cards representing each connected client. If some are off-screen, you can use the < and > buttons to scroll through the cards.

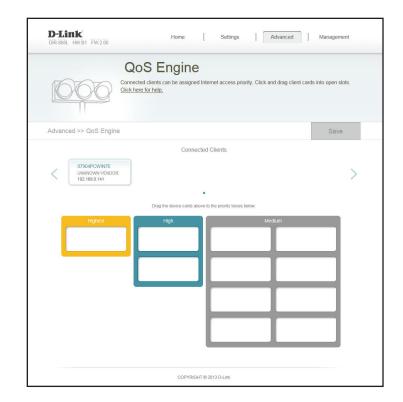
A maximum of one device can be assigned Highest priority.

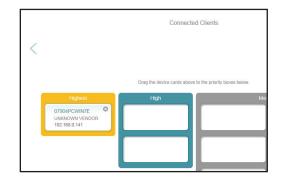
A maximum of two devices can be assigned High priority.

A maximum of **eight** devices can be assigned **Medium** priority.

If no devices are explicitly assigned a priority, they will all be treated with equal priority. If some devices are not assigned a priority and others are, the unassigned devices will be treated with the lowest priority.

To assign a priority level to a device, drag the device card from the All Devices list over an empty slot and release the mouse button. The card will remain in the slot. If you want to remove a priority assignment from a device and return it to the All Devices list, click the cross icon in the top right of the device card.





#### Firewall

The router's firewall protects your network from malicious attacks over the Internet. In the Advanced menu on the bar on the top of the page, click **Firewall Settings**. Click **Advanced Settings...** to expand the list and see all of the options.

**Enable DMZ:** Enable or disable Demilitarized Zone (DMZ). This completely exposes the client to threats over the Internet, and is not recommended in ordinary situations.

**DMZ IP** If you enabled DMZ, enter the IP address of the client you wish to **Address:** expose, or use the drop-down menu to quickly select it.

Enable SPI IPv4: Enabling Stateful Packet Inspection (SPI) helps to prevent cyber attacks by validating that the traffic passing through the session conforms to the protocol.

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

- IPv6 Simple Enable or disable IPv6 simple security. Security:
- IPv6 Ingress Enable or disable IPv6 ingress filtering. Filtering:
  - **PPTP:** Allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.

D-Link DIR-868L HW:B1 FW:2.00	Home	Settings	Advanced	Management
Fir	rewall Settir	ngs		
Your n	outer's high-performance firewa rk and connected devices from	all feature continuously mo		protecting your
Advanced >> Firewall Settings :	>> Advanced	IPv4 Rules	IPv6 Rules	Save
	Enable DMZ: Disal	bled		
	Enable SPI IPv4: Disal	bled		
Enable	Anti-spoof Checking: Disal	bled		
	IPv6 Simple Security: Disat	bled		
1	Pv6 Ingress Filtering: Disat	bled		
				Advanced Settings.
Application Level Gateway (ALG	) Configuration	_		
	PPTP: Enable	d		
	IPSec (VPN): Enable	d		
	RTSP: Disal	bled		
	SIP: Enable	d		
	COPYRIGHT	© 2013 D-Link		

- **IPSec (VPN):** Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. 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 whether your VPN client supports NAT traversal.
  - **RTSP:** Allows applications that uses Real Time Streaming Protocol (RTSP) to receive streaming media from the Internet.
    - SIP: Allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Click **Save** when you are done.

D-Link DIR-868L HW:B1 FW:2.00	Home	Settings	Advanced	Management
	Firewall Settin	gs		
HI	Your router's high-performance firewall network and connected devices from m			protecting your
Advanced >> Firewall Se	ttings >> Advanced	IPv4 Rules	IPv6 Rules	Save
	Enable DMZ: Disable	ed		
	Enable SPI IPv4: Disable	ed		
	Enable Anti-spoof Checking: Disable	ed		
	IPv6 Simple Security: Disable	ed		
	IPv6 Ingress Filtering: Disable	ed		
				Advanced Settings.
Application Level Gatewa	y (ALG) Configuration	_		
	PPTP: Enabled			
	IPSec (VPN); Enabled			
	RTSP: Disable	ed		
	SIP: Enabled			

#### IPv4/IPv6 Rules

The IPv4/IPv6 Rules section is an advanced option that lets you configure what kind of traffic is allowed to pass through the network. To configure the IPv4 rules, from the Firewall Settings page click **IPv4 Rules**. To configure IPv6 rules, from the Firewall Settings page click **IPv6 Rules**. To return to the main Firewall Settings page, click **Security Check**.

To begin, use the drop-down menu to select whether you want to **ALLOW** or **DENY** the rules you create. You can also choose to turn filtering **OFF**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

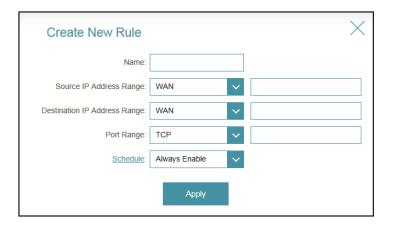
Name: Enter a name for the rule.

**Source IP** Enter the source IP address range that the rule will apply to, and using **Address Range:** the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

**Destination IP** Enter the destination IP address range that the rule will apply to, and **Address Range:** using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

- **Port Range:** Select the protocol of the traffic to allow or deny (**Any**, **TCP**, or **UDP**) and then enter the range of ports that the rule will apply to.
  - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 116).

F	Firewall Setting	gs		
	he IPv4 rule section is an advance fea lick here for help.		v traffic from passing	g through the dev
	lick here for help.			
H				
Advanced >> Firewall Settin	igs >> IPv4 Rules	Advanced	IPv6 Rules	Save
Turn IPv4 Filtering ON and DENY	rules listed			
Turn IPv4 Filtering ON and DENY	rules listed V			
Turn IPv4 Filtering ON and DENY Name	rules listed V Schedule	Edit		Delete



#### **Port Forwarding**

Port forwarding allows you to specify a port or range of ports to open for specific devices on the network. This might be necessary for certain applications to connect through the router. In the Advanced menu on the bar on the top of the page, click **Port Forwarding**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

		Port F	orwardi	ng			
	A		allows traffic requests	ldress assigned by yo i from a specified appl			
dvanced >:	> Port Forw	varding			Virtual Serve	<u>ər</u>	Save
Status	Name	Local IP	TCP Port	UDP Port	Schedule	Edit	Delete

Name: Enter a name for the rule.

- Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- **TCP Port:** Enter the TCP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- **UDP Port:** Enter the UDP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 116).

 Create New Rule
 Xame:

 Name:
 Schedule:

 Local IP:
 Computer Name

 TCP Port:
 COMPUTER Name

 UDP Port:
 COMPUTER Name

 Schedule:
 Always Enable

 Apply

#### **Virtual Server**

The virtual server allows you to specify a single public port on your router for redirection to an internal LAN IP Address and Private LAN port. To configure the virtual server, from the Port Forwarding page click **Virtual Server**. To return to the main Port Forwarding page, click **Port Forwarding**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

- Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- Protocol: Select the protocol of the traffic to allow or deny (TCP, UDP, Both, or Other).

**Protocol** If you entered **Other** above, enter the protocol number. **Number:** 

External Port: Enter the public port you want to open.

Internal Port: Enter the private port you want to open.

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 116).

*0	03	Your ro clients	in your home. V	e a single IP address a firtual servers are prese c to a specified client in	t port mappings for po	pular services, lik	
Advanced >>	Virtual Ser	ver			P	ort Forwarding	Save
Status N	ame Loc	al IP	Protocol	External Port	Internal Port	Schedule	Edit De
Add Rule	Remainin	a: 15					

Create New	Rule				$\times$
Name:			<< Application Name	$\sim$	
Local IP:			<< Computer Name	$\sim$	
Protocol:	TCP	$\sim$			
External Port:					
Internal Port:					
Schedule:	Always Enable	$\sim$			
		Apply			

#### Website Filter

The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

In the Advanced menu on the bar on the top of the page, click **Website Filter**.

If you want to create a list of sites to block, select **DENY clients access to ONLY these sites** from the drop-down menu. All other sites will be accessible. If you want to specify a list of sites to allow, select **ALLOW clients access to ONLY these sites** from the drop-down menu. All other sites will be blocked.

You may specify a maximum of fifteen web sites. To add a new site to the list, click **Add Rule**. Next, under Website URL/Domain enter the URL or domain. If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, simply replace the URL or domain.

Click **Save** when you are done.

	Website Filter							
	The website filters feature allows rules to be set that restrict access to a specified web address (URL) or blocks specified keywords in the URL. You can use Website Filter to restrict access to potentially harmful and inappropriate websites. <u>Click here for help.</u>							
Advanced >> Websit	e Filter	Save						
DENY clients access to 0	DNLY these sites							
	Website URL/Domain	Delete						

#### **Static Routes**

The Static Routes section allows you to define custom routes to control how data traffic is moved around your network.

In the Advanced menu on the bar on the top of the page, click **Static Routes**. To configure IPv6 rules, click **IPv6** and refer to page 86. To return to the main IPv4 static routes page, click **IPv4**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Route** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

	Static Rou	utes					
Show and a state of the state o	Once connected to the Intershould be sent. Static rout location. <u>Click here for help</u>	es can overrid					
Advanced >> Static	Routes >> IPv4				IPv6	S	ave
Status Name	Destination Network	Mask	Gateway	Metric	Interface	Edit	Delete
Add Route Rer	naining: 15						

Name: Enter a name for the rule.

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

Mask: Enter the netmask of the route.

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

- **Metric:** The route metric is a value from 1 to 16 that indicates the cost of using this route. A value 1 is the lowest cost and 15 is the highest cost.
- **Interface:** Select the interface that the IP packet must use to transit out of the router when this route is used.

Create New Route	, ×
Name:	
Destination Network:	
Mask:	
Gateway:	
Metric:	
Interface:	WAN
	Apply

#### IPv6

To configure IPv6 rules, on the Static Routes page click **IPv6**. To return to the main IPv4 static routes page, click **IPv4**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

- **DestNetwork:** This is the IP address of the router used to reach the specified destination.
  - **PrefixLen:** Enter the IPv6 address prefix length of the packets that will take this route.
    - Metric: Enter the metric value for this rule here.
  - **Interface:** Select the interface that the IP packet must use to transit out of the router when this route is used.

	Static Rou	utes					
<pre> </pre>	Once connected to the Intr should be sent. Static rout location. <u>Click here for help</u>	es can overrid					
Advanced >> Static Ro	utes >> IPv4				<u>IPv6</u>	Sa	IVe
Status Name	Destination Network	Mask	Gateway	Metric	Interface	Edit	Delete
Add Route Remaini	ng: 15						

Create New Route	•		$\times$
Name:			
DestNetwork:			
PrefixLen:			
Metric:			
Interface:	NULL	$\checkmark$	
	Apply	l –	

#### **Dynamic DNS**

Most Internet Service Providers (ISPs) assign dynamic (changing) IP addresses. Using a dynamic DNS service provider, people can enter your domain name in their web browser to connect to your server no matter what your IP address is.

In the Advanced menu on the bar on the top of the page, click **Dynamic DNS**.

**Enable** Enabling dynamic DNS will reveal further configuration options. **Dynamic DNS:** 

Status: Displays the current dynamic DNS connection status.

- Server Address: Enter the address of your dynamic DNS server, or select one from the drop-down menu.
  - Host Name: Enter the host name that you registered with your dynamic DNS service provider.

User Name: Enter your dynamic DNS username.

Password: Enter your dynamic DNS password.

Time Out: Enter a timeout time (in hours).

Click **Save** when you are done.

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to page 90.

	Dura ensis I			
	Dynamic [			
Bhttp://Betty.dlink.com	as [YourDomainName].com	rvice allows your router to asso with the regularly changing IP pful when running a virtual serv	address assigned by your Inte	
Advanced >> Dynamic I	DNS			Save
	Enable Dynamic DNS:	Enabled		
	Status:	Disconnected		
	Server Address:	dyndns.com	dyndns.com	/
	Host Name:			
	User Name:			
	Password:			
	Time Out:	24	hours	
Status	Host Name	IPv6 Address	Edit	Delete
Add Record Remainir	ng: 10			

## IPv6 Host

The IPv6 host settings are found at the bottom of the Dynamic DNS page.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Record** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

IPv6 Address: Enter the IPv6 address of the dynamic DNS server. Alternatively, select the server device in the drop-down menu.

Status	Host Name	IPv6 Address	Edit	Delete	
Add Record	Remaining: 10				
COPYRIGHT © 2013 D-Link					

Create New Record				$\times$
Host Name:				
IPv6 Address:		<< Computer Name	~	
	Apply	l i		

Host Name: Enter the host name that you registered with your dynamic DNS service provider.

### Management Time & Schedule Time

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From here you can set the time zone, the Network Time Protocol (NTP) server, and enable or disable daylight saving time.

In the Management menu on the bar on the top of the page, click Time & Schedule.

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

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

- Enable Daylight Enable or disable daylight saving time. Saving:
  - Update TimeEnable or disable to allow an NTP server on the Internet to synchronizeUsing an NTPthe time and date with your router. If you enable this option, selectServer:an NTP server from the drop-down menu. Select Manual to enter<br/>the URL of a custom NTP server. To configure the router's time and<br/>date manually, disable this option and use the drop-down menus<br/>that appear to input the time and date.

Click Save when you are done.

To configure and manage your schedules, click **Schedule** and refer to page 116.

Tim	е				
		sed for data logging ar server on the Internet			
Management >> System Time			s	chedule	Save
Time Configuration			_		
	Time Zone: (G	MT-06:00) Central Time	e (US & Canada)		$\sim$
	Time: 2014	I/04/30 04:11:49 PM			
Enable	Daylight Saving:	Disabled			
Automatic Time Configuration					
Update Time Usin	g an NTP Server.	nabled			
	NTP Server: D	Link NTP Server	D-Link NT	P Server	$\sim$

### Schedule

**D**-Link

Some configuration rules can be set according to a pre-configured schedule. To create, edit, or delete schedules, from the Time page click **Schedule**. To return to the Time page, click **Time**.

If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following screen will appear:



Settings

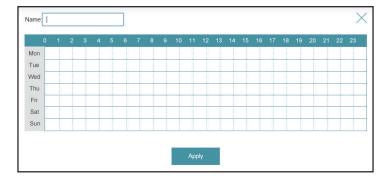
Advanced Management

First, enter the name of your schedule in the Name field.

Each box represents one hour, with the time at the top of each column. To add a time period to the schedule, simply click on the start hour and drag to the end hour. You can add multiple days to the schedule, but only one period per day.

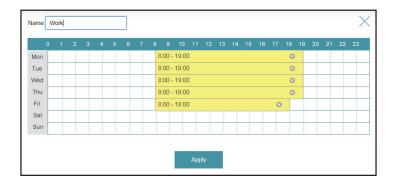
To remove a time period from the schedule, click on the cross icon.

Click **Apply** when you are done.



Home

Schedule



#### System Log

The router keeps a running log of events. This log can be sent to a Syslog server, and sent to your email address. In the Management menu on the bar on the top of the page, click **System Log**.

**Enable Logging to** Check this box to send the router logs to a SysLog server. If this is disabled, there **Syslog Server:** will be no other options on this page.

Syslog Server IP Enter the IP address for the Syslog server. If the Syslog server is connected to the Address: router, select it from the drop-down menu to automatically populate the field.

**Enable E-mail** If you want the logs to be automatically sent to an email address, enable this option. **Notification:** 

From/To E-mail Enter the settings for your email account. These are obtained from your email Addresses: service provider.

**SMTP Server** Enter the IP address for your SMTP server. Address:

SMTP Server Port: Enter the port for your SMTP server.

**Enable** Enable or disable authentication.

Authentication:

- Send When Log Full: If email notification is enabled, this option will set the router to send the log by email when the log is fully.
- Send On Schedule: This option can be enabled to send an email according to a pre-configured schedule. See below.

Schedule:If you enable On Schedule is enabled, use the drop-down menu to select the<br/>time schedule that the rule will be enabled on. The schedule may be set to Always<br/>Enable, or you can create your own schedules in the Schedules section (refer to<br/>page 116). Click Save when you are done.

D-Link DIR-868L HW:B1 FW:2.00	Home Settings Advanced Management
On-boa are rec	stem Log rd diagnostics run continually in the background to monitor the health of your router. The result orded in the system log if it is enabled. This info can be used to diagnose common problems or ustomer Support resolve issues more quickly. <u>Click here for help.</u>
Management >> System Log	Save
SysLog Settings	
Enable Loggi	ng to Syslog Server: Enabled
SysLog	Server IP Address: <a></a>
E-mail Settings	
Enable	E-mail Notification: Enabled
Fr	rom E-mail Address:
	To E-mail Address:
SM	ITP Server Address:
	SMTP Server Port 25
En	able Authentication: Disabled
E-mail Log When Full or On Sche	dule
s	Send When Log Full: Enabled
	Send on Schedule: Enabled
	Schedule: Always Enable
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#### Admin

This page will allow you to change the administrator (Admin) password and enable remote management.

In the Management menu on the bar on the top of the page, click **Admin**.

**Password:** Enter a new password for the administrator account. You will need to enter this password whenever you configure the router using a web browser.

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

- Enable HTTPS Check to enable HTTPS to connect to the router securely. This means Server: to connect to the router, you must enter https://192.168.0.1 instead of http://192.168.0.1.
- **Enable Remote** Remote management allows the DIR-868L to be configured from the **Management:** Internet by a web browser. A password is still required to access the web management interface.

Remote Admin The port number used to access the DIR-868L is used in the URL.
Port: Example: http://x.x.x.8080 where x.x.x.x is the Internet IP address of the DIR-868L and 8080 is the port used for the web management interface. If you enable Use HTTPS, you must enter https:// as part of the URL to access the router remotely.

Click **Save** when you are done.

To load, save, or reset settings, or reboot the router, click **System** and refer to page 119.

D-Link DIR-868L HW:B1 FW:2.00	Home	5	Settings	A	dvanced	Management
	nin account can change a strong password. <u>Clie</u>			o your rout	er secure, you s	hould give the admir
Management >> Admin					System	Save
Admin Password						
Enable Graphical Authentic		Disabled				
						Advanced Settings.
Administration	ble HTTPS Server:	nabled				
Enable Ren	note Management:	Disabled				
R	emote Admin Port:			Use H	ITTPS: Dis	abled
	CORVE	RIGHT @ 2013 D-I	link			

#### System

This page allows you to save the router's current configuration, load a previously saved configuration, reset the router to its factory default settings, or reboot the router.

From the Admin page click **System**. To return to the Admin page, click **Admin**.

Save Settings This option will save the current router configuration settings to a file To Local Hard on your computer. Drive:

Load Settings This option will load previously saved router configuration file. This will From Local overwrite the router's current configuration. Hard Drive:

Restore To This option will restore all configuration settings back to the settings that
 Factory Default were in effect at the time the router was shipped from the factory. Any Settings: settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the Save Settings To Local Hard Drive button above.

**Reboot The** Click to reboot the router. **Device:** 

Click **Save** when you are done.

D-Link DIR-868L HW:B1 FW:2.00	Home	Settings	Adv	anced	Management
S	ystem				
your	page lets you save your ro router to factory default se ory defaults will erase all se	ettings, or reboot the de	vice. Please note	e that restoring	the settings to the
Management >> System					Admin
Save Setting	gs To Local Hard Drive:	Save			
Load Settings	From Local Hard Drive:	Select File			
Restore To F	actory Default Settings:	Restore			
	Reboot The Device:	Reboot			

### Upgrade

This page will allow you to upgrade the router's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from **http://support.dlink.com**.

In the Management menu on the bar on the top of the page, click **Upgrade**.

**Firmware** The current firmware's version and date will be displayed. **Information:** 

Check for New Click this button to prompt the router to automatically check for a new Firmware: firmware version. If a newer version is found, it will prompt you to install it.

Upgrade If you wish to upgrade manually, first download the firmware file you Firmware: wish to upgrade to. Next, click the **Select File** button and browse to the file to install the new firmware. You can also browse to a language pack file to install a new language pack.

D-Link DIR-868L HW:B1 FW:2.00	Home	Settings	Adva	anced	Management
Up	grade				
Your ro	uter can automatically detect t ssible to check for new firmwa				
Management >> Upgrade					
Firmware Information					
Current Firmware Ver	sion: 2.00				
Current Firmware I	Date: 2014-04-04 03:55:00				
			Check for N	ew Firmware	0
Upgrade Manually					
	Upgrade Firmware: Select	t File			

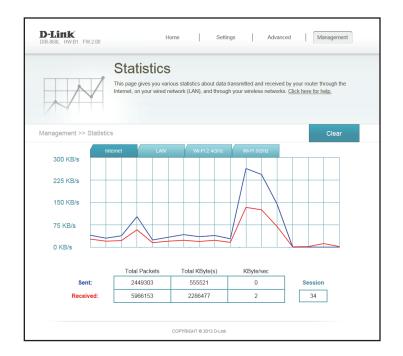
#### Statistics

On the Statistics page you can view the amount of packets that pass through the router on the WAN, LAN, and wireless segments.

In the Management menu on the bar on the top of the page, click **Statistics**.

You can view the **Internet**, **LAN**, **Wi-Fi 2.4GHz**, or **Wi-Fi 5GHz** by clicking on the respective tabs at the top. The graph will update in real time. To clear the information on the graph, click **Clear**.

The traffic counter will reset if the device is rebooted.



# Connect a Wireless Client to your Router WPS Button

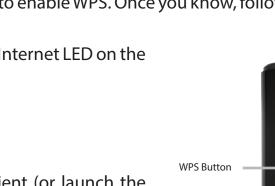
The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-868L router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

**Step 1** - Press the WPS button on the DIR-868L for about 1 second. The Internet LED on the front will start to blink.

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

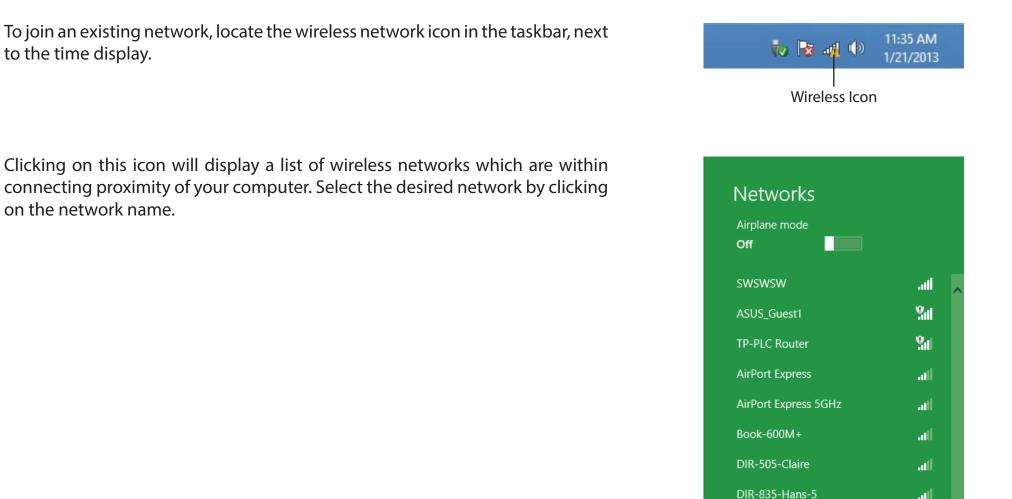
**Step 3** - Allow up to 1 minute while your connection is configured. Once the Internet light stops blinking, you will be connected and your wireless connection will be secure with WPA2.





## Windows<sup>®</sup> 8 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 (Wi-Fi password) being used.

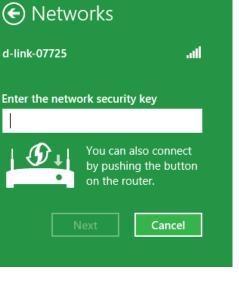


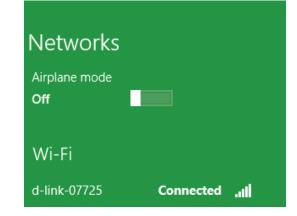
D-Link DIR-868L User Manual

You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router at the point to enable the WPS function.

When you have established a successful connection a wireless network, the word **Connected** will appear next to the name of the network to which you are connected.





## Windows<sup>®</sup> 7 WPA/WPA2

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

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



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



Section 5 - Security

3. Highlight the wireless connection with Wi-Fi name (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.

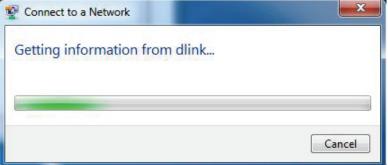
Connect automatically	Connect	
<u> </u>		5
kay2690_24	Iller	
james2690g	Itee	
ALPHA	100	
dlink 888	lie.	
SD6_WLAN	100	
DAP-2690q		Ŧ
Open Network and Shar	ring Center	

Not connected

Connections are available

Wireless Network Connection

-fl



Section 5 - Security

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

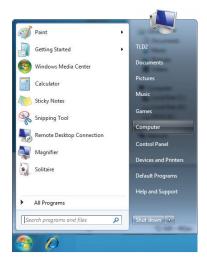
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.

Connect to a Network	×
Type the network security key	
Security key:	
Hide characters	
You can also connect by pushing the button on the router.	
ОК	Cancel

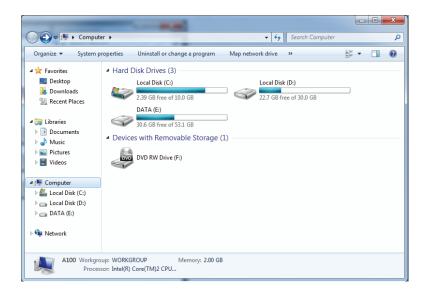
#### WPS

The WPS feature of the DIR-868L can be configured using Windows<sup>®</sup> 7. Carry out the following steps to use Windows<sup>®</sup> 7 to configure the WPS feature:

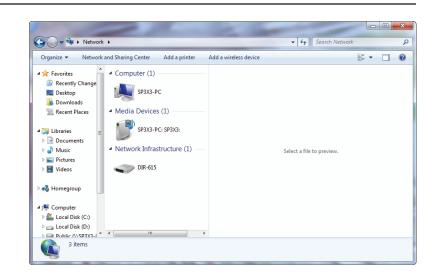
1. Click the **Start** button and select **Computer** from the Start menu.



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



3. Double-click the DIR-868L.



4. Input the WPS PIN number (on the router label) in the **Setup** > **Wireless Setup** menu in the router's Web UI) and click **Next**.

🕞 😰 Set Up a Network
To set up a network, type the 8-digit PIN from the router label
You can find the numeric PIN on a label attached to the router or in the printed information that came from the manufacturer. PIN:
Next Cancel

5. Type a name to identify the network.

 Image: Image

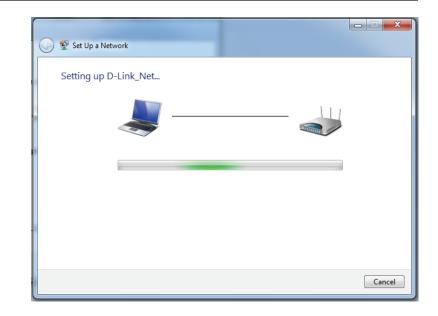
6. To configure advanced settings, click the 🕑 icon.

Click Next to continue.

G	🔮 Set Up a Network	
	Give your network a name	
	Your network needs a unique name so that it can characters or less) and recognizable.	be easily identified. It is best to keep the name short (25
	Type your network name:	🖉 Security-enabled network
	D-Link_Net	Your network is being set up using WPA2-Personal.
	Change passphrase, security level and encryption Security key:	type (advanced): Security level:
	f6mm-gizb-9vmv	WPA2-Personal (Recommended)
	Connect automatically	Encryption type:
		AES (Recommended)
	😵 Upgrade or replace the router using the netw	ork settings stored on this computer
		Next Cancel

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.

9	😰 Set Up a Network	X
	D-Link_Net has been successfully set up To add an older wireless device to this network, you might need to provide this security key	
	894g-eyd5-g5wb	
	You can <u>print these network settings</u> for future reference. For gaming consoles or computers running Windows XP, <u>copy the network profile to a USB drive</u> for easier set up.	
	Clos	e

## Windows Vista®

Windows Vista<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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 Wi-Fi name (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase (Wi-Fi password) 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.

Туре	the network security key or passphrase for Candy
The p	erson who setup the network can give you the key or passphrase.
Securi	ity key or passphrase:
Dis	play characters
-	If you have a <u>USB flash drive</u> with network settings for Candy, insert it now.

## Windows® XP

Windows<sup>®</sup> XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows<sup>®</sup> XP utility as seen below.

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

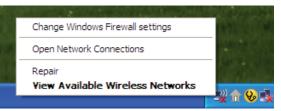
or

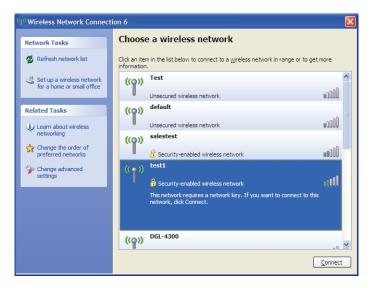
Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

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

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





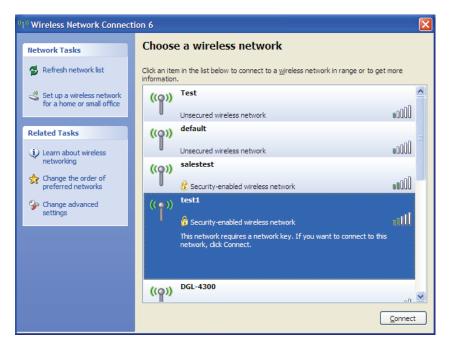


### WPA/WPA2

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

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





Section 6 - Connecting to a Wireless Network

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

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

Wireless Network Connection					
The network 'test1' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.					
Type the key, and then click Connect.					
Network <u>k</u> ey:	1				
Confirm network key:					
	<u>Connect</u> Cancel				

# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-868L. Read the following descriptions if you are having problems. The examples below are illustrated in Windows<sup>®</sup> XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Microsoft Internet Explorer<sup>®</sup> 7 and higher
  - Mozilla Firefox 3.5 and higher
  - Google<sup>™</sup> Chrome 8 and higher
  - Apple Safari 4 and higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows<sup>®</sup> XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

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

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

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is 192.168.0.1. When logging in, the username is **admin** and leave the password box empty.

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

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

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

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

```
ping [url] [-f] [-l] [MTU value]
                                                                               C:\>ping yahoo.com -f -l 1482
                                                                               Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
                                                                               Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
                                                                                Packet needs to be fragmented but DF set.
                                                                               Ping statistics for 66.94.234.13:
                                                                                     Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)
Example: ping yahoo.com -f -l 1472
                                                                               Approximate round trip times in milli-seconds:
                                                                                    Minimum = Oms, Maximum = Oms, Average = Oms
                                                                               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
                                                                               C:∖>
```

132ms

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

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

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

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

# **Wireless Basics**

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

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

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

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

# What is Wireless?

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

# Why D-Link Wireless?

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

# How does wireless work?

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

## Wireless Local Area Network (WLAN)

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

## Wireless Personal Area Network (WPAN)

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

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

# Who uses wireless?

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

## Home

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

# **Small Office and Home Office**

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

# Where is wireless used?

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

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

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

# Tips

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

## **Centralize your router or Access Point**

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

# **Eliminate Interference**

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

# Security

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

# **Wireless Modes**

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-Hoc Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more DIR-868L 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**

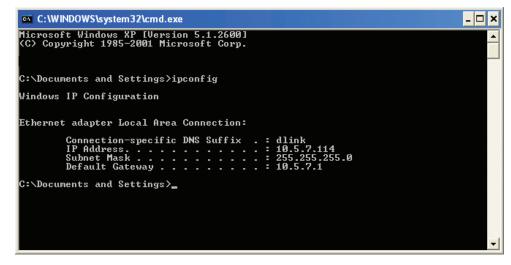
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

At the prompt, type *ipconfig* and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

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



# 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:

# Step 1

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

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

- Windows<sup>®</sup> XP Click on **Start** > **Control Panel** > **Network Connections**.
- Windows<sup>®</sup> 2000 From the desktop, right-click **My Network Places** > **Properties**.

# Step 2

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

# Step 3

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

# Step 4

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

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set the Default Gateway the same as the LAN IP address of your router (I.E. 192.168.0.1).

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

## Step 5

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

this capability. Otherwise, you ne	l automatically if your network support: ed to ask your network administrator f
the appropriate IP settings.	
🔘 Obtain an IP address autom	natically
Use the following IP addres	s:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address	automatically
💿 Use the following DNS serv	ver addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	• • •

# **Wireless Security**

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-868L 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.

# **Technical Specifications**

#### **Device Interfaces**

- 802.11 a/b/g/n/ac wireless LAN
- Four 10/100/1000 Gigabit LAN ports
- 10/100/1000 Gigabit WAN port
- USB 3.0 port

#### **Antenna Types**

Six internal antennas

### Standards<sup>1</sup>

- IEEE 802.11ac
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

## Security

- WPA<sup>™</sup> Personal/Enterprise
- WPA2<sup>™</sup> Personal/Enterprise
- Wi-Fi Protected Setup (WPS) PIN/PBC

#### Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 2.5 A

## **USB Port Power**

• 5 V / 0.9 A

## **Operating Temperature**

• 32°F to 104°F ( 0°C to 40°C)

### Humidity

• 95% maximum (non-condensing)

## Safety & Emissions

- FCC Class B
- CE Class B
- C-Tick
- DLNA
- IPv6 Ready
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- Compatible with Windows 8

### Dimensions

- L = 102.3 mm (4.03 inches)
- W = 123.3 mm (4.85 inches)
- H = 217 mm (8.54 inches)

<sup>1</sup> Maximum wireless signal rate derived from IEEE Standard 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.

# **Federal Communication Commission Interference Statement**

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

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

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

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

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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

## **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.

Country Code selection feature to be disabled for products marketed to the US/CANADA

# Industry Canada statement:

This device complies with Industry Canada licence-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## **Caution :**

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

## **Avertissement:**

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

## **Radiation Exposure Statement:**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Déclaration d'exposition aux radiations:

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