



User Manual

AC1750 Wi-Fi Range Extender

DAP-1750

Preface

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

Manual Revisions

Revision	Date	Description
1.0	January 16, 2013	• Initial release

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Package Contents



DAP-1750 AC1750 Wi-Fi Range Extender



Ethernet Cable



Power Adapter



Wi-Fi Configuration Note

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 DAP-1750L will cause damage and void the warranty for this product.

System Requirements

Network Requirements	• An Ethernet-based Cable or DSL modem • 802.11ac (draft), n, g, b, or a wireless or Ethernet port
Web-based Configuration Utility Requirements	Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter Browser Requirements: • Internet Explorer 7 or higher • Firefox 3.5 or higher • Safari 4 or higher • Chrome 8 or higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
mydlink Requirements	• iPhone/iPad/iPod Touch (iOS 3.0 or higher) • Android device (1.6 or higher) • Computer with the following browser requirements: • Internet Explorer 7 or higher • Firefox 3 or higher • Safari 5 or higher • Chrome 5 or higher iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc.

Introduction

The D-Link Wireless AC1750 Dual-Band Gigabit Cloud Router USB 3.0 (DAP-1750) comes equipped with four Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports. It also uses 802.11ac (draft) 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 DAP-1750 supports a host of cloud features including QRS Mobile which allows you to setup and configure the router using a mobile app. You can set up your router right from your sofa, no PC required.

The Wireless AC1750 Dual-Band Gigabit Cloud Router USB 3.0 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®, iPad®, or Android™ device. mydlink-enabled routers 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. Monitor in real-time websites that are being visited with recent browser history displayed on the mydlink™ Lite app – which is great for parents.

SharePort Mobile technology lets you take advantage of the USB 3.0 port found on the back of your DAP-1750. Plug in a USB storage drive and you can use the SharePort Mobile app for iOS 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 Mobile Plus app to share that printer with all of your devices.

The DAP-1750 Wireless AC1750 Dual-Band Gigabit Cloud Router USB 3.0 provides incredible speeds, smart antenna technology, fast ports, cloud features, and terrific security features. It also features an innovative design and easy installation options.

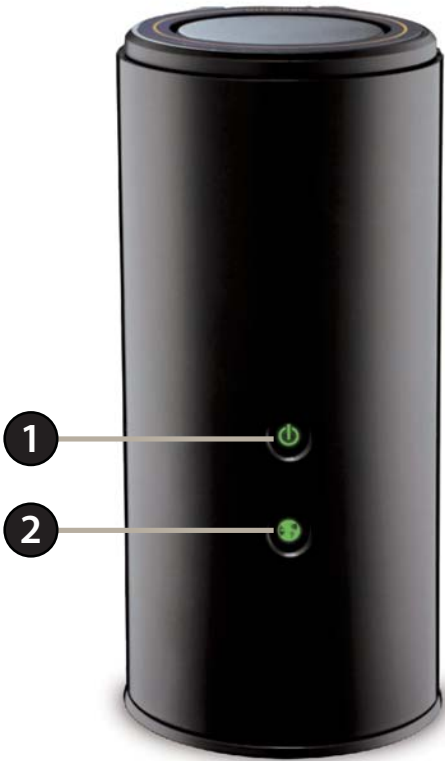
Features

- **Faster Wireless Networking** - The DAP-1750 can provide up to a full 1750Mbps* wireless connection with concurrent 801.11ac 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 DAP-1750 support the QRS Mobile app to setup the router using a mobile device. It is also mydlink-enabled so you can remotely access and manage your DAP-1750 from a mobile device. SharePort Mobile can be used to share files, stream videos, view photos, and play music. SharePort Plus lets you share a printer.
- **Compatible with 802.11a/b/g/n Devices** - The DAP-1750 is still fully compatible with the 802.11n, IEEE 802.11g and 802.11a 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 applied 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 Multiple/Concurrent Sessions** - The DAP-1750 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DAP-1750 can securely access corporate networks.
- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user interface, the DAP-1750 lets you control what information is accessible to those on the wireless network, whether from the Internet or from your company's server. Configure your router to your specific settings within minutes.

* Maximum wireless signal rate derived from IEEE Standard 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

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 be a 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 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Configuration

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 page 12.
- **QRS Mobile App** - Use your iPhone, iPad, or iPod Touch to configure your router. Refer to page 19.
- **Manual Setup** - Log into the router and manually configure your router (advanced users only). Refer to pagepage 26.

D-Link Quick Setup Wizard

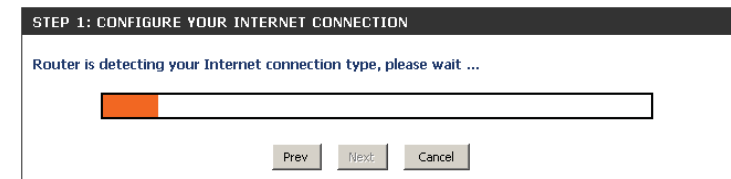
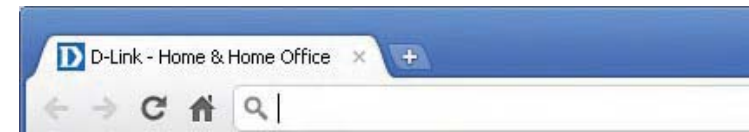
If this is your first time installing the router, open your web browser. You will automatically be directed to the **Wizard Setup Screen**.

If the wizard does not open automatically, you can alternately reach the configuration utility by entering the IP address of the router (**http://192.168.0.1**). Please refer to page 24.

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

Click **Next** to continue.

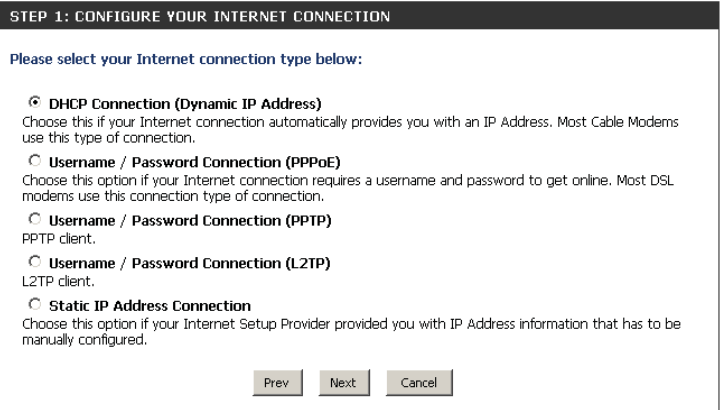
Please wait while your router detects your internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password.



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

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

Select your Internet connection type and click **Next** to continue.



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 **PPTP**, enter your PPTP username, password, and other information supplied by your ISP. Click **Next** to continue.

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

SET USERNAME AND PASSWORD CONNECTION (PPPoE)

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

User Name :

Password :

Prev Next Cancel

SET USERNAME AND PASSWORD CONNECTION (PPTP)

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

Address Mode : ☒ Dynamic IP ☐ Static IP

PPTP IP Address :

PPTP Subnet Mask :

PPTP Gateway IP Address :

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

User Name :

Password :

Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

Prev Next Cancel

SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

Address Mode : ☒ Dynamic IP ☐ Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

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

User Name :

Password :

Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

Prev Next Cancel

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

SET STATIC IP ADDRESS CONNECTION

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

IP Address :

Subnet Mask :

Gateway Address :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

Prev

Next

Cancel

For both the 2.4GHz and 5GHz 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.

STEP 2: CONFIGURE YOUR WI-FI SECURITY

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

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

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

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

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

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

Prev

Next

Cancel

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

STEP 3: SET YOUR PASSWORD

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

Password:

Verify Password :

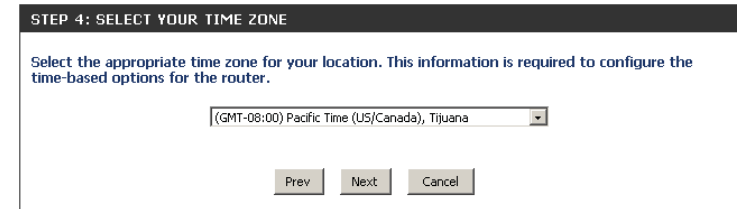
Enable Graphical Authentication : ☐

Prev

Next

Cancel

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



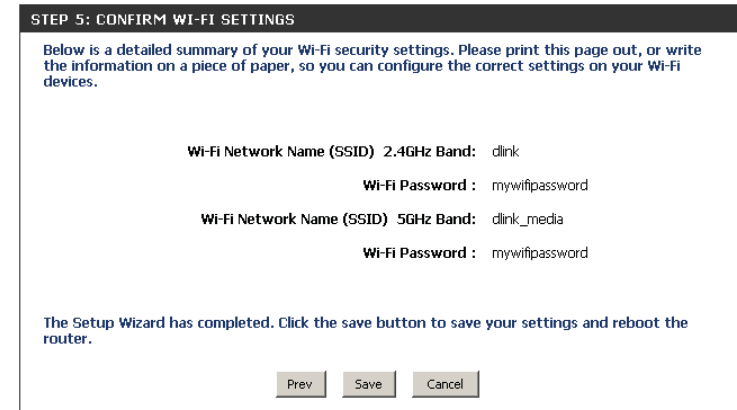
STEP 4: SELECT YOUR TIME ZONE

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

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

Prev Next Cancel

The Setup Complete window will display your Wi-Fi settings. Click **Save and Connect** to continue.



STEP 5: CONFIRM WI-FI SETTINGS

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

Wi-Fi Network Name (SSID) 2.4GHz Band: dlink
Wi-Fi Password : mywifi password

Wi-Fi Network Name (SSID) 5GHz Band: dlink_media
Wi-Fi Password : mywifi password

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

Prev Save Cancel

If you want to create a bookmark to the router, click **OK**. Click **Cancel** if you do not want to create a bookmark.

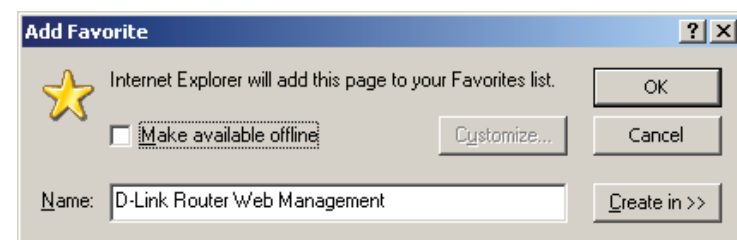


Microsoft Internet Explorer

Do you want to bookmark "D-Link Router Web Management"

OK Cancel

If you clicked **Yes**, a window may appear (depending on what web browser you are using) to create a bookmark.



Add Favorite

Internet Explorer will add this page to your Favorites list.

☐ Make available offline

Name: D-Link Router Web Management

OK Cancel Customize... Create in >>

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

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

MYDLINK REGISTRATION

To use the features of mydlink.com and the mydlink Lite app, you will need an account with mydlink.com. If you already have an account, select Yes, I have a mydlink account and click Next to register the router with mydlink.com. If you do not have an account, select No, I want to register and login with a new mydlink account and click Next to create an account. If you do not wish to sign up for the mydlink service, please click Cancel.

Do you have mydlink account?

☐ Yes, I have a mydlink account.

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

Next Cancel

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

STEP 6: MYDLINK REGISTRATION

E-mail Address (Account Name): mydlinkaccount

Password: *****

Login Prev Cancel

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

STEP 6: MYDLINK REGISTRATION

Please fill the options to complete the registration.

E-mail Address (Account Name) :

Password :

Confirm Password :

Last name :

First Name :

☐ I Accept the mydlink terms and conditions.

Next Prev Cancel

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 Apple Store, Android Market or **<http://mydlink.com/Lite>**.

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



QRS Mobile App (iOS, Android)

D-Link offers an app for your iOS or Android device to install and configure your router.

Step 1

From an iOS device, go to the iTunes Store. From an Android device go to Google Play. Search for 'D-Link', select **QRS Mobile**, and download the app to your device. You may also scan the appropriate code on the right to locate the app download page.



iOS



Android

Step 2

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

D-Link DIR-836L Router Wi-Fi Configuration Note	
Web browser link: http://dlinkrouter or http://192.168.0.1	Web browser link: http://dlinkrouter or http://192.168.0.1
Default configuration Username: "Admin" Password: "" (leave the field blank)	Your configuration Username: Admin Password:
Wi-Fi Name (SSID): dlink-a8fa	Wi-Fi Name (SSID):
Wi-Fi Password: akbdj19368	Wi-Fi Password:

Step 3

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



SharePort Mobile App (iOS, Android)

The SharePort Mobile app will allow you to access files from a USB storage drive that is plugged into your router. You must enable file sharing from the **Setup > Storage** page (refer to page 22) for this app to work properly.

1. Plug your USB storage drive into the USB port.

Note: The DAP-1750 supports hard drives with up to one terabyte of storage capacity.

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

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



iOS



Android

3. From your iOS or Android mobile device, choose **Settings**.

Note: These steps are for the iOS version of the app. The Android version may differ slightly.



Settings

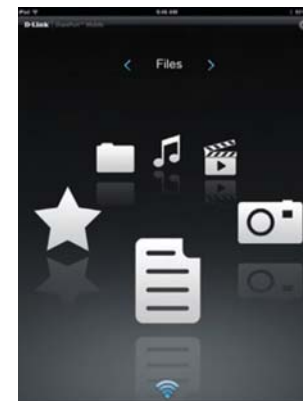
- Click **Wi-Fi**, select the Wi-Fi Network Name (SSID) that you created during setup and then enter the default Wi-Fi password located on your Wi-Fi configuration note.



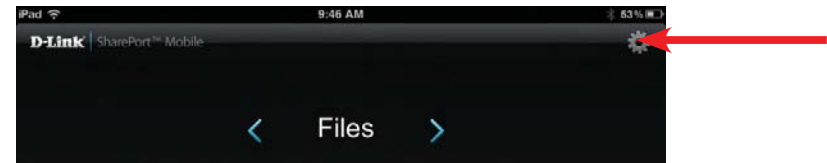
- Once connected, tap on the **SharePort Mobile** icon.



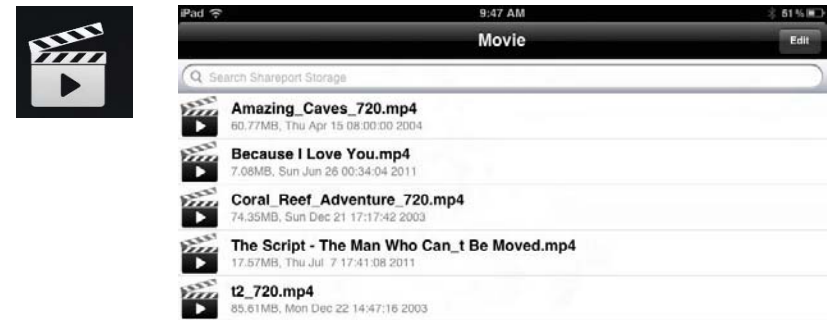
- The following screen will appear.



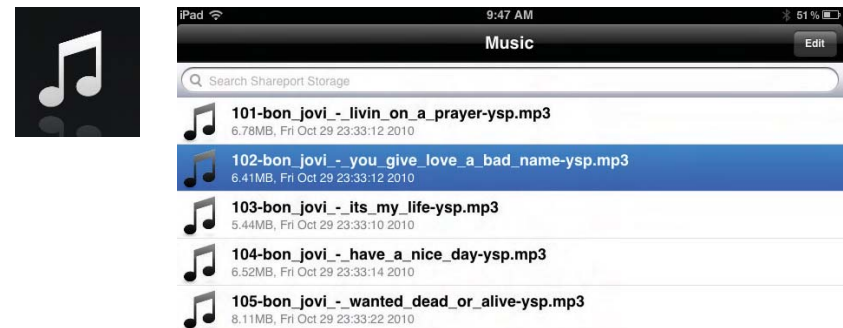
7. Tap on the **Settings** icon located on the right top corner of the screen. Tap **Edit** to enter your User Name and Password (the default username is **admin** and the password field should be left blank). Once you finish, click **Done** to continue.



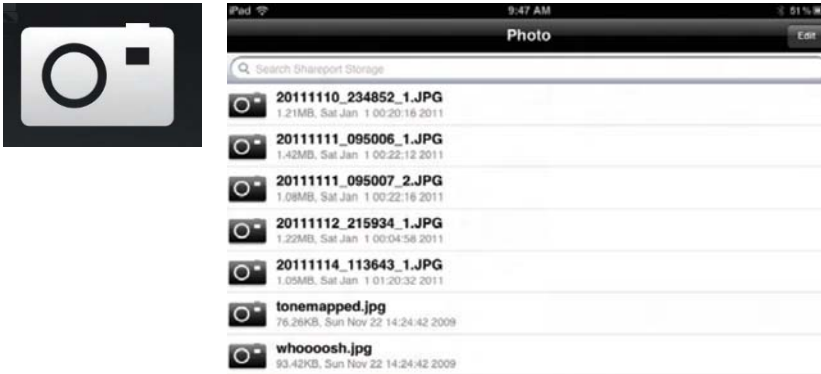
8. For the Movie section, click the movie icon to play your movie from your USB flash drive.



9. For the Music section, click the music icon to play your music from your USB flash drive.



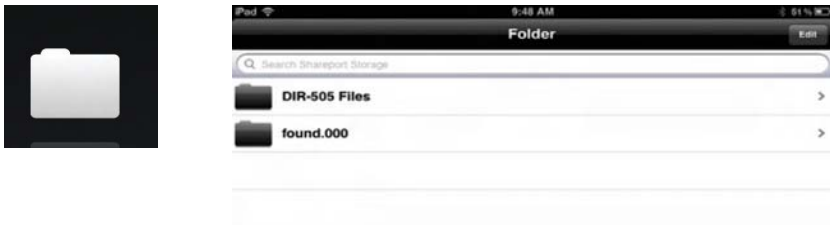
10. For the Photo section, click the Photo icon to view your photos from your USB flash drive.



11. For the Files section, click on the Files icon to view your files from your USB flash drive.



12. For the Folder section, click the folder icon to view your folders from your USB flash drive.



Web-based Configuration Utility

To access the configuration utility, open a web-browser such as Internet Explorer and enter **http://dlinkrouter.local**.

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



Enter your password. The password should be left blank by default.

LOGIN

Log in to the router

User Name :

Password :

Internet Connection Setup

If you want to configure your router to connect to the Internet using the wizard, click **Internet Connection Setup Wizard**. You will be directed to the Quick Setup Wizard. Please refer to page 12.

Click **Manual Internet Connection Setup** to configure your connection manually and continue to the next page.

D-Link

DIR-868L

SETUPADVANCEDTOOLSSTATUSSUPPORT

INTERNET

WIRELESS SETTINGS

NETWORK SETTINGS

STORAGE

MEDIA SERVER

IPV6

MYDLINK SETTINGS

INTERNET CONNECTION

If you are configuring the device for the first time, we recommend that you click on the Internet Connection Setup Wizard, and follow the instructions on the screen. If you wish to modify or configure the device settings manually, click the Manual Internet Connection Setup.

INTERNET CONNECTION SETUP WIZARD

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

Internet Connection Setup Wizard

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

MANUAL INTERNET CONNECTION OPTION

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

Manual Internet Connection Setup

Helpful Hints...

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

WIRELESS

Manual Internet Setup

Static IP

Select your connection type from the **My Internet Connection Is** drop-down box. Choose Static IP if all of the port's IP information has been provided by your ISP. You will need to enter the IP address, subnet mask, gateway address, and DNS address(es). Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format.

My Internet

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

Enable Advanced

DNS Service: Advanced Domain Name System (DNS) services enhances your Internet performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typo mistakes automatically, taking you where you intended to go and saving you valuable time.

Enable True

Gigabit Routing Connectivity: Check to enable true Gigabit routing. This will increase the through-put of the WAN-LAN connectivity of the router.

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

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

Default Gateway: Enter the Gateway assigned by your ISP.

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

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

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

The screenshot shows the D-Link router's configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various settings categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, STORAGE, MEDIA SERVER, IPV6, and MYDLINK SETTINGS. The main content area is titled 'WAN' and contains instructions for configuring the Internet Connection type. A dropdown menu labeled 'My Internet Connection is:' is set to 'Static IP'. Below this, the 'STATIC IP ADDRESS INTERNET CONNECTION TYPE:' section prompts the user to enter static address information provided by their ISP. Fields include IP Address, Subnet Mask (default 0.0.0.0), Default Gateway, Primary DNS Server, Secondary DNS Server (optional), MTU (default 1500), and MAC Address. A button labeled 'Copy Your PC's MAC Address' is provided for the MAC Address field. At the bottom of the form are 'Save Settings' and 'Don't Save Settings' buttons. A 'Helpful Hints...' sidebar on the right provides additional guidance on selecting the correct connection type and contacting the ISP for support.

Dynamic IP (DHCP)

If you are unsure what method you use to connect to the Internet, try this first. Cable modems usually use this type of connection

My Internet Connection: Select **Dynamic IP (DHCP)** to obtain IP Address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for cable modem services.

Enable Advanced DNS Service: Advanced Domain Name System (DNS) services enhances your Internet performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typo mistakes automatically, taking you where you intended to go and saving you valuable time.

Disclaimer: D-Link makes no warranty as to the availability, reliability, functionality and operation of the Advanced DNS service or its features.

Enable True Gigabit Routing Connectivity: Check to enable true Gigabit routing. This will increase the through-put of the WAN-LAN connectivity of the router.

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

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

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

Primary/Secondary DNS Server: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU.

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

MAC Address:

INTERNET CONNECTION TYPE

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

My Internet Connection is : Dynamic IP (DHCP)

DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE :

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

Host Name : dlinkrouter

Use Unicasting : ☐ (compatibility for some DHCP Servers)

Primary DNS Server :

Secondary DNS Server : (optional)

MTU : 1500

MAC Address :

Clone Your PC's MAC Address

PPPoE (Username/Password)

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

My Internet

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

Enable Advanced DNS Service: Advanced Domain Name System (DNS) services enhances your Internet performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typo mistakes automatically, taking you where you intended to go and saving you valuable time.

Disclaimer: D-Link makes no warranty as to the availability, reliability, functionality and operation of the Advanced DNS service or its features.

Enable True Gigabit Routing Connectivity: Check to enable true Gigabit routing. This will increase the through-put of the WAN-LAN connectivity of the router.

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

User Name: Enter your PPPoE user name.

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

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

Reconnect

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

INTERNET CONNECTION TYPE

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

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

PPPOE INTERNET CONNECTION TYPE :

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

Address Mode : ☒ Dynamic IP ☐ Static IP

IP Address :

Username :

Password :

Verify Password :

Service Name : (optional)

Reconnect Mode : ☐ Always ☒ On demand ☐ Manual

Maximum Idle Time : (minutes, 0=infinite)

DNS Mode : ☒ Receive DNS from ISP ☐ Enter DNS Manually

Primary DNS Server :

Secondary DNS Server : (optional)

MTU : 1492

MAC Address :

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

DNS

Addresses: Enter the Primary and Secondary DNS Server Addresses (Static PPPoE only).

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

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

PPTP

Choose PPTP (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

My Internet

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

Enable Advanced DNS Service: Advanced Domain Name System (DNS) services enhances your Internet performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typo mistakes automatically, taking you where you intended to go and saving you valuable time.

Disclaimer: D-Link makes no warranty as to the availability, reliability, functionality and operation of the Advanced DNS service or its features.

Enable True

Gigabit Routing Connectivity: Check to enable true Gigabit routing. This will increase the throughput of the WAN-LAN connectivity of the router.

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

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

PPTP Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static PPTP only).

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

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

Username: Enter your PPTP username.

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

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

The screenshot shows the 'INTERNET CONNECTION TYPE' configuration page. At the top, it says 'Choose the mode to be used by the router to connect to the Internet.' Below this, a dropdown menu is set to 'PPTP (Username / Password)'. The section is titled 'PPTP INTERNET CONNECTION TYPE :'. It instructs the user to 'Enter the information provided by your Internet Service Provider (ISP)'. The configuration options include:

- Address Mode:** Radio buttons for 'Dynamic IP' (selected) and 'Static IP'.
- PPTP IP Address:** A text input field.
- PPTP Subnet Mask:** A text input field.
- PPTP Gateway IP Address:** A text input field.
- PPTP Server IP Address:** A text input field.
- Username:** A text input field.
- Password:** A text input field.
- Verify Password:** A text input field.
- Reconnect Mode:** Radio buttons for 'Always-on' (disabled), 'On demand' (selected), and 'Manual'.
- Maximum Idle Time:** A text input field with '(minutes, 0=infinite)' as a hint.
- Primary DNS Server:** A text input field.
- Secondary DNS Server:** A text input field with '(optional)' as a hint.
- MTU:** A text input field with '1400' as the default value.
- MAC Address:** A text input field with a button 'Clone Your PC's MAC Address' next to it.

L2TP

Choose L2TP (Layer 2 Tunneling Protocol) if your ISP uses a L2TP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

My Internet

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

Enable Advanced DNS Service: Advanced Domain Name System (DNS) services enhances your Internet performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typo mistakes automatically, taking you where you intended to go and saving you valuable time.

Disclaimer: D-Link makes no warranty as to the availability, reliability, functionality and operation of the Advanced DNS service or its features.

Enable True

Gigabit Routing Connectivity: Check to enable true Gigabit routing. This will increase the throughput of the WAN-LAN connectivity of the router.

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

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

PPTP Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static PPTP only).

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

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

Username: Enter your PPTP username.

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

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

The screenshot shows the 'INTERNET CONNECTION TYPE' configuration page. At the top, it says 'Choose the mode to be used by the router to connect to the Internet.' Below this, a dropdown menu is set to 'L2TP (Username / Password)'. The section is titled 'L2TP INTERNET CONNECTION TYPE :'. It instructs the user to 'Enter the information provided by your Internet Service Provider (ISP)'. The configuration options include:

- Address Mode:** Radio buttons for 'Dynamic IP' (selected) and 'Static IP'.
- L2TP IP Address:** A text input field.
- L2TP Subnet Mask:** A text input field.
- L2TP Gateway IP Address:** A text input field.
- L2TP Server IP Address:** A text input field.
- Username:** A text input field.
- Password:** A text input field.
- Verify Password:** A text input field.
- Reconnect Mode:** Radio buttons for 'Always-on' (selected), 'On demand', and 'Manual'. There is also a 'New Schedule' link.
- Maximum Idle Time:** A text input field with '(minutes, 0=infinite)' as a hint.
- Primary DNS Server:** A text input field.
- Secondary DNS Server:** A text input field with '(optional)' as a hint.
- MTU:** A text input field with '1400' as the default value.
- MAC Address:** A text input field with a 'Clone Your PC's MAC Address' button next to it.

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

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

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

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

DS-Lite

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

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

AFTR IPv6 Address: After selecting the Manual Configuration option above, enter the AFTR IPv6 address used here.

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

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

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

The screenshot displays the 'INTERNET CONNECTION TYPE' configuration page. The first section, 'Choose the mode to be used by the router to connect to the Internet.', shows 'My Internet Connection is : DS-Lite'. The second section, 'AFTR ADDRESS INTERNET CONNECTION TYPE :', instructs the user to 'Enter the AFTR address information provided by your Internet Service Provider (ISP)'. It features two radio buttons for 'DS-Lite Configuration': 'DS-Lite DHCPv6 Option' (selected) and 'Manual Configuration'. Below these are input fields for 'AFTR IPv6 Address', 'B4 IPv4 Address' (pre-filled with '192.0.0.' and marked as optional), 'WAN IPv6 Address', and 'IPv6 WAN Default Gateway'.

Wireless Settings

If you want to configure the wireless settings on your router using the wizard, click **Wireless Network Setup Wizard** and refer to page 42.

Click **Add Wireless Device with WPS** if you want to add a wireless device using Wi-Fi Protected Setup (WPS) and refer to page 44.

If you want to manually configure the wireless settings on your router click **Manual Wireless Network Setup** and refer to the next page.

D-Link

DIR-868L

SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET

WIRELESS SETTINGS

NETWORK SETTINGS

STORAGE

MEDIA SERVER

IPV6

MYDLINK SETTINGS

WIRELESS SETTINGS

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

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

WIRELESS NETWORK SETUP WIZARD

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

[Wireless Connection Setup Wizard](#)

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

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

[Add Wireless Device with WPS](#)

MANUAL WIRELESS NETWORK SETUP

If your wireless network is already set up with Wi-Fi Protected Setup, manual configuration of the wireless network will destroy the existing wireless network. If you would like to configure the wireless settings of your new D-Link Systems Router manually, then click on the Manual Wireless Network Setup button below.

[Manual Wireless Connection Setup](#)

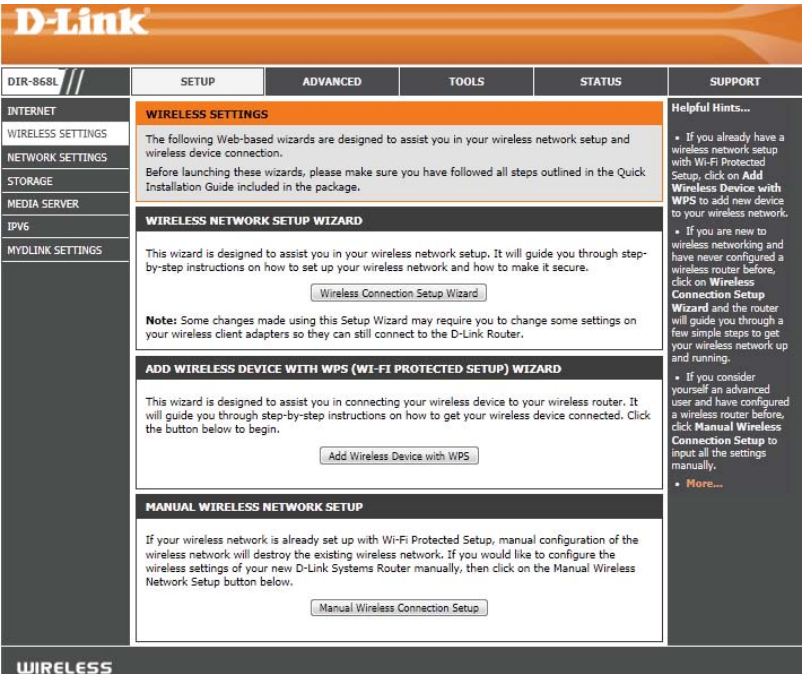
Helpful Hints...

- If you already have a wireless network setup with Wi-Fi Protected Setup, click on **Add Wireless Device with WPS** to add new device to your wireless network.
- If you are new to wireless networking and have never configured a wireless router before, click on **Wireless Connection Setup Wizard** and the router will guide you through a few simple steps to get your wireless network up and running.
- If you consider yourself an advanced user and have configured a wireless router before, click **Manual Wireless Connection Setup** to input all the settings manually.
- [More...](#)

WIRELESS

Wireless Connection Setup Wizard

To run the security wizard, click on Setup at the top and then click **Wireless Connection Setup Wizard**.



STEP 1: Type your desired wireless network names (SSIDs) for both the 2.4 GHz band and the 5 GHz band.

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

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



If you selected **Automatically**, the option to make your password the same on both bands will be offered. If you choose to make them the same, you can select your own password in the box below.

Click **Next**.

You will now see a summary window that displays your settings. Write down the security key and enter this on your wireless clients.

Click **Save** to save your settings.

SETUP COMPLETE!

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

Wireless Band : 2.4GHz Band
Wireless Network Name (SSID) : dlink-2234
Security Mode : Auto (WPA or WPA2) - Personal
Cipher Type : TKIP and AES
Pre-Shared Key : 62b439eb35

Wireless Band : 5GHz Band
Wireless Network Name (SSID) : dlink-2236-media
Security Mode : Auto (WPA or WPA2) - Personal
Cipher Type : TKIP and AES
Pre-Shared Key : 62b439eb35

Prev Next Cancel Save

If you selected **Manually**, the option to make your password the same on both bands with be offered.

Enter your wireless password in the box below.

Click **Next**.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

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

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

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

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

Wireless Security Password :

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

Prev

Next

Cancel

Save

You will now see a summary window that displays your settings. Write down the security key and enter this on your wireless clients.

Click **Save** to save your settings.

SETUP COMPLETE!

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

Wireless Band : 2.4GHz Band

Wireless Network Name (SSID) : dlink-2234

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type : TKIP and AES

Pre-Shared Key : 12345678

Wireless Band : 5GHz Band

Wireless Network Name (SSID) : dlink-2236-media

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type : TKIP and AES

Pre-Shared Key : 12345678

Prev

Next

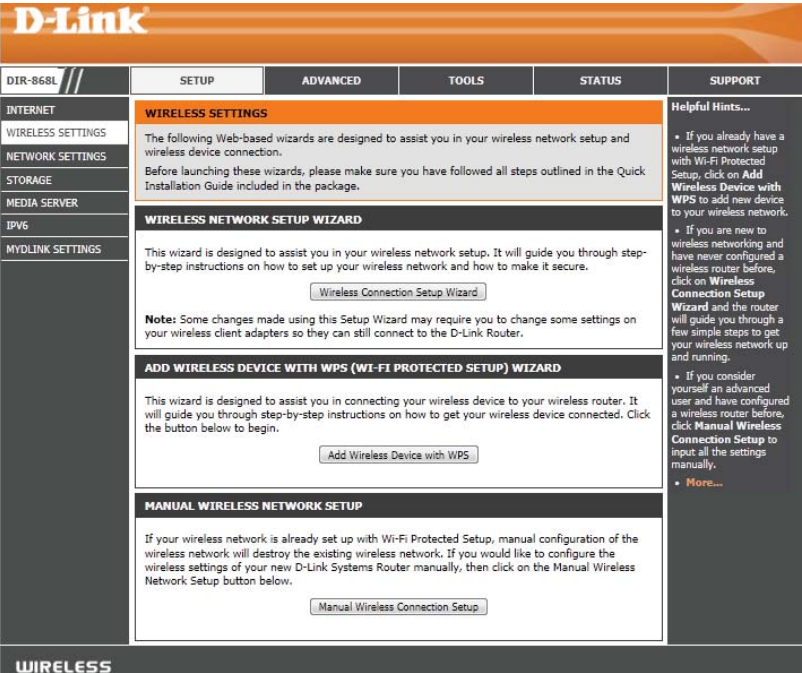
Cancel

Save

Wireless Security Setup Wizard

If you are unfamiliar with the types of wireless security, more information is located in the appendix at back of this manual.

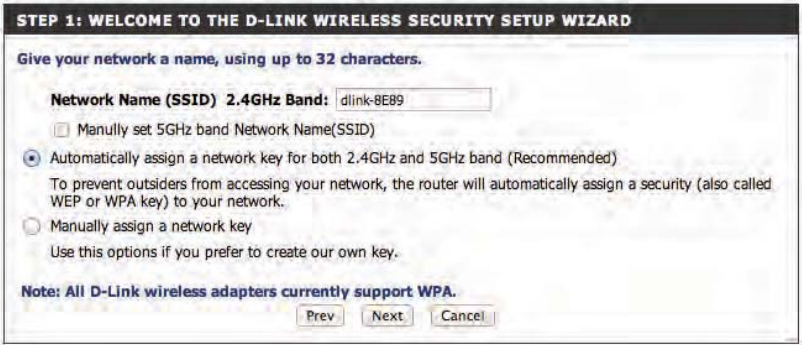
To run the security wizard, click on Setup at the top and then click **Wireless Network Setup Wizard**.



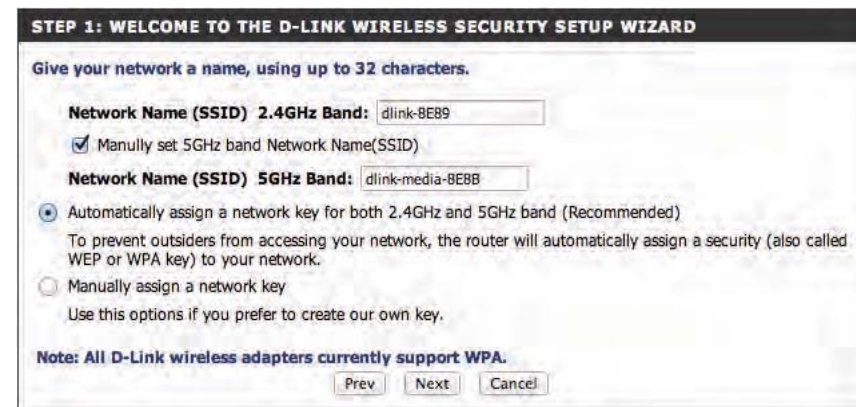
Type your desired wireless network name (SSID).

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

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



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



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

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

Network Name (SSID) 2.4GHz Band:

☒ Manully set 5GHz band Network Name(SSID)

Network Name (SSID) 5GHz Band:

☒ Automatically assign a network key for both 2.4GHz and 5GHz band (Recommended)
To prevent outsiders from accessing your network, the router will automatically assign a security (also called WEP or WPA key) to your network.

☐ Manually assign a network key
Use this options if you prefer to create our own key.

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

If you selected **Manually**, the following screen will appear. Create a passphrase for your security password. Click **Next** to continue.



STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

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

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

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

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

Wireless Security Password :

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

Add Wireless Device with WPS Wizard

If you are unfamiliar with the types of wireless security, more information is located in the appendix at back of this manual.

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

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

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

Add Wireless Device with WPS

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

STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK

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

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

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

Next

Cancel

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

STEP 2: CONNECT YOUR WIRELESS DEVICE

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

2.4GHz Band SSID: **dlink-BE89**
 Security Mode: **Auto (WPA or WPA2) - Personal**
 Cipher Type : **TKIP/AES**
 Pre-shared Key: **bxvgv78023**

GUEST ZONE SSID: **dlink_guest**
 Security Mode: **None**

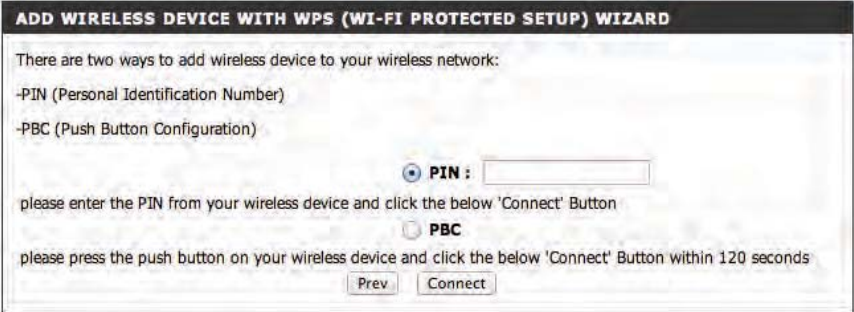
5GHz Band SSID: **dlink-media-BEBB**
 Security Mode: **Auto (WPA or WPA2) - Personal**
 Cipher Type : **TKIP/AES**
 Pre-shared Key: **bxvgv78023**

GUEST ZONE SSID: **dlink_media_guest**
 Security Mode: **None**

OK

PIN: Select this option to use PIN method. In order to use this method you must know the wireless client's 8 digit PIN and click **Connect**.

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



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

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

- PIN (Personal Identification Number)
- PBC (Push Button Configuration)

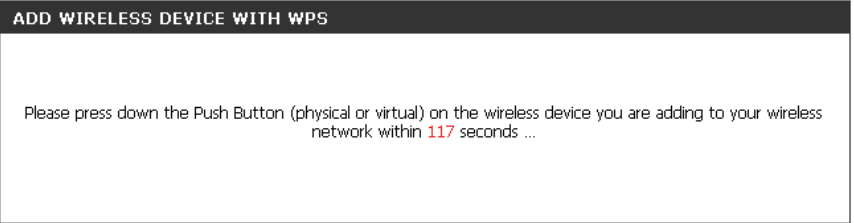
☒ **PIN :**

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

☐ **PBC**

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

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



ADD WIRELESS DEVICE WITH WPS

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within **117** seconds ...

Manual Wireless Settings

802.11 b/g/n (2.4GHz)

If you are unfamiliar with the types of wireless security, more information is located in the appendix at back of this manual.

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.

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

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

802.11 Mode: Select one of the following:

802.11b Only - Select only if all of your wireless clients are 802.11b.

802.11g Only - Select only if all of your wireless clients are 802.11g.

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

Mixed 802.11g and 802.11b - Select if you are using both 802.11g and 802.11b wireless clients.

Mixed 802.11n and 802.11g - Select if you are using both 802.11n and 802.11g wireless clients.

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

WIRELESS NETWORK SETTINGS

Wireless Band : 2.4GHz Band

Enable Wireless : ☒ Always

Wireless Network Name : dir-868l-1 (Also called the SSID)

802.11 Mode : Mixed 802.11n, 802.11g and 802.11b

Enable Auto Channel Scan : ☒

Wireless Channel : 2.412 GHz - CH 1

Transmission Rate : Best (automatic) (Mbit/s)

Channel Width : 20/40 MHz(Auto)

Visibility Status : ☒ Visible ☐ Invisible

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DAP-1750 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DAP-1750. By default the channel is set to 6. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable **Auto Channel Scan**, this option will be greyed out.

Channel Width: Select the Channel Width:

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

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

Visibility Status: Select **Invisible** if you do not want the SSID of your wireless network to be broadcasted by the DAP-1750. If Invisible is selected, the SSID of the DAP-1750 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DAP-1750 in order to connect to it.

Wireless Security: Refer to the appendix in the back of the manual for more information regarding wireless security.

802.11ac draft (5GHz)

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.

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

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

802.11 Mode: Select one of the following:

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

802.11ac Only - Select if all of your wireless clients are 802.11ac.

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

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

Mixed 802.11ac and 802.11a - Select if you are using both 802.11ac and 802.11a wireless clients.

Enable Auto Channel

Scan: The **Auto Channel Scan** setting can be selected to allow the DAP-1750 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DAP-1750. By default the channel is set to 6. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable **Auto Channel Scan**, this option will be greyed out.

Channel Width: Select the Channel Width:

Auto 20/40/80 - Select if you are using both 802.11ac, 802.11n and non-802.11n wireless devices.

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

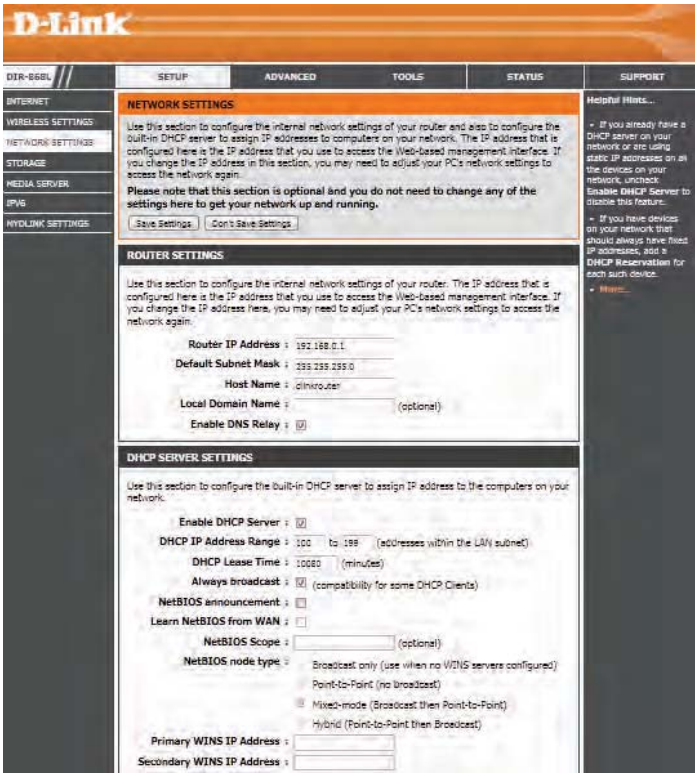
20MHz - Select if you are not using any 802.11n wireless clients.

Visibility Status: Select **Invisible** if you do not want the SSID of your wireless network to be broadcasted by the DAP-1750. If Invisible is selected, the SSID of the DAP-1750 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DAP-1750 in order to connect to it.

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

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings.



Router Settings

This section will allow you to configure the router settings.

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

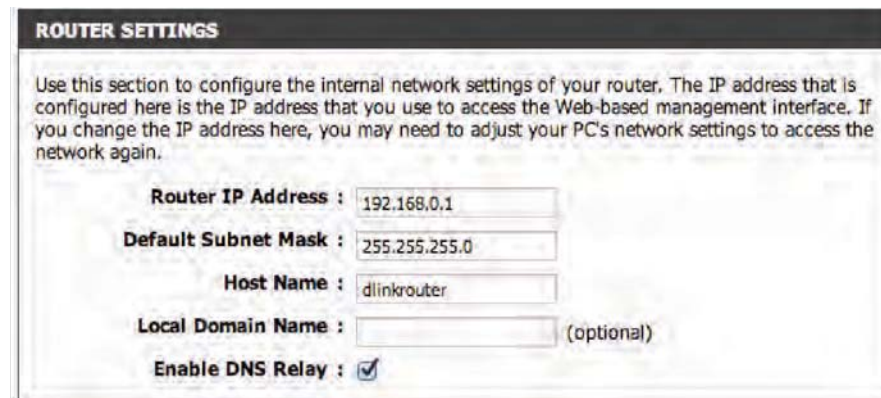
If you change the IP address, once you click **Save Settings**, you will need to enter the new IP address in your browser to get back into the configuration utility.

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

Device Name: Enter a name for the router.

Local Domain: Enter the Domain name (Optional).

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



The screenshot shows a web browser window with the title "ROUTER SETTINGS". Below the title is a paragraph of text: "Use this section to configure the internal network settings of your router. The IP address that is configured here is the IP address that you use to access the Web-based management interface. If you change the IP address here, you may need to adjust your PC's network settings to access the network again." Below this text are five form fields: "Router IP Address" with the value "192.168.0.1", "Default Subnet Mask" with the value "255.255.255.0", "Host Name" with the value "dlinkrouter", "Local Domain Name" which is empty and followed by "(optional)", and "Enable DNS Relay" which has a checked checkbox.

ROUTER SETTINGS	
Use this section to configure the internal network settings of your router. The IP address that is configured here is the IP address that you use to access the Web-based management interface. If you change the IP address here, you may need to adjust your PC's network settings to access the network again.	
Router IP Address :	192.168.0.1
Default Subnet Mask :	255.255.255.0
Host Name :	dlinkrouter
Local Domain Name :	(optional)
Enable DNS Relay :	☒

DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DAP-1750 has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DAP-1750. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

Enable DHCP Check this box to enable the DHCP server on your router.

Server: Uncheck to disable this function.

DHCP IP Address Enter the starting and ending IP addresses for the DHCP

Range: server's IP assignment.

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

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

Always Broadcast: Enable this feature to broadcast your network's DHCP server to LAN/WLAN clients.

NetBIOS Announcement: NetBIOS allows LAN hosts to discover all other computers within the network, enable this feature to allow the DHCP Server to offer NetBIOS configuration settings.

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

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

NetBIOS Node:

Select the different type of NetBIOS node; **Broadcast only**, **Point-to-Point**, **Mixed-mode**, and **Hybrid**.

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

DHCP SERVER SETTINGS

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

Enable DHCP Server : ☒

DHCP IP Address Range : 100 to 199 (addresses within the LAN subnet)

DHCP Lease Time : 10080 (minutes)

Always broadcast : ☒ (compatibility for some DHCP Clients)

NetBIOS announcement : ☐

Learn NetBIOS from WAN : ☐

NetBIOS Scope : (optional)

NetBIOS node type : Broadcast only (use when no WINS servers configured)
 Point-to-Point (no broadcast)
 * Mixed-mode (Broadcast then Point-to-Point)
 Hybrid (Point-to-Point then Broadcast)

Primary WINS IP Address :

Secondary WINS IP Address :

DHCP Reservation

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

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

Enable: Check this box to enable the reservation.

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

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

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

Copy Your PC's MAC Address: If you want to assign an IP address to the computer you are currently on, click this button to populate the fields.

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

The screenshot shows a web form titled "ADD DHCP RESERVATION". It contains the following elements: an "Enable" checkbox; a "Computer Name" field with a "<<" button to its left and a "Computer Name" dropdown menu to its right; "IP Address" and "MAC Address" input fields; a "Clone Your PC's MAC Address" button; and "Add / Update" and "Clear" buttons at the bottom.

DHCP Reservations List

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

Enable: Check to enable the reservation.

Edit: Click the edit icon to make changes to the reservation entry.

Delete: Click to remove the reservation from the list.

DHCP RESERVATIONS LIST			
Enable	Host Name	IP Address	MAC Address
NUMBER OF DYNAMIC DHCP CLIENTS			
Host Name	IP Address	MAC Address	Expired Time
DaveBook-Pro-2	192.168.0.100	00:25:4b:c3:55:3c	6 Days 23 Hours 57 Minutes

Storage

This page will allow you to set up access to files on an external USB hard drive¹ or thumb drive that is plugged into the router. You can do this through local network or from the Internet using either a web browser or an app on your smartphone or tablet. You can create users that can be allowed access to these files through SharePort Mobile services accessible through a web UI or on mobile devices using the SharePort Mobile app available for iOS and Android.

Enable SharePort Web Access Check this box if you wish to be able to access SharePort through a browser as well as the mobile app.

HTTP Access Port: Enter the port you want to use when accessing SharePort using a web browser.

HTTPS Access Port: Enter the port you want to use when accessing SharePort through a secure connection using a web browser.

Allow Remote Access: Check this box if you wish to be able to access SharePort through a web browser over the Internet.

User Creation: To give a new user access to your SharePort storage, enter a User Name and Password here. You can Add new users or choose existing users from the drop-down menu if you wish to Edit or Delete them.

***Note:** The Admin password is the same as the admin password for the router. The Guest password is "guest" and cannot be changed.*

User List: This list displays all of the users with access to the SharePort Mobile content, what they can access, and their Read/Write Permissions.

Number of Devices: All devices you have set up for SharePort access will be listed here.

SharePort Web Access Link: 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.

The screenshot shows the D-Link router's configuration interface for SharePort. The 'STORAGE' tab is selected. The 'STORAGE' section has a 'Web File Access' checkbox and a 'Save Settings' button. The 'SHAREPORT WEB ACCESS' section has 'Enable SharePort Web Access' checked, 'HTTP Access Port' set to 8181, 'HTTPS Access Port' set to 4433, and 'Allow Remote Access' unchecked. The '10 -- USER CREATION' section has fields for 'User Name', 'Password', and 'Verify Password', with an 'Add/Edit' button. The 'USER LIST' section shows a table with two users: 'admin' (Read/Write) and 'Guest' (Read Only). The 'NUMBER DEVICES:0' section shows a table with one device. The 'SHAREPORT ACCESS LINK' section has a 'Save Settings' button.

¹ Supports capacities of up to 1TB for USB storage drives.

Media Server

This page will allow you to enable a DLNA Media Server. DLNA (Digital Living Network Alliance) is the standard for the interoperability of Network Media Devices (NMDs). The user can enjoy multimedia applications (music, pictures and videos) on your network connected PC or media devices. If you agree to share media with devices, any computer or device that connects to your network can play your shared music, pictures and videos.

Note: *The shared media may not be secure. Allowing any devices to stream is recommended only on secure networks.*

DLNA Server: Check to enable DLNA Media Server functions.

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

Folder: Choose the location of the folder you wish to share or check the box to use the root folder of the entire drive.

iTunes Server: Check to enable iTunes Server functions.

Folder: Choose the location of the iTunes Library folder you wish to share or check the box to use the root folder if it is located on the root folder of the connected drive.

USB 3.0: Use this setting to enable USB 3.0 functionality for the USB port on the back of the router. USB 3.0 provides high-speed transfer speeds with compatible devices. This setting is disabled by default, which means that the USB port will operate at the USB 2.0 specification.

The screenshot shows the D-Link DIR-868L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various settings categories: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, STORAGE, MEDIA SERVER, IPV6, and MYDLINK SETTINGS. The main content area is titled 'MEDIA SERVER' and contains the following sections:

- DLNA SERVER:** Includes a 'DLNA Server' toggle (set to 'Enable'), a 'DLNA Server Name' field (containing 'COMBIL_8085'), a 'Folder' dropdown (set to 'root'), and a 'Browse' button.
- ITUNES SERVER:** Includes an 'iTunes Server' toggle (set to 'Enable'), a 'Folder' dropdown (set to 'root'), and a 'Browse' button.
- USB 3.0:** Includes a 'USB 3.0' toggle (set to 'Disable').

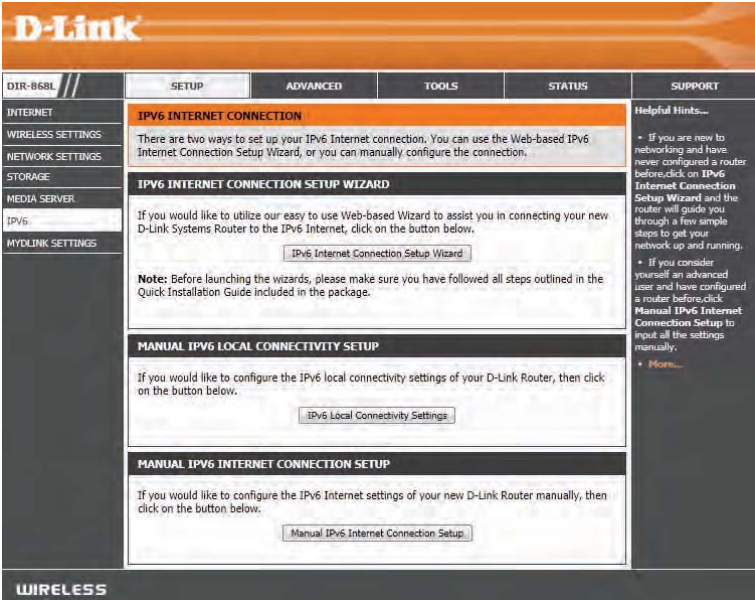
At the bottom of the main content area are 'Save Settings' and 'Don't Save Settings' buttons. A 'WIRELESS' section is visible at the very bottom of the page. On the right side, there is a 'Helpful Hints...' section with a list of tips and a 'More...' link.

IPv6

On this page, you can configure the IPv6 Connection type. There are two ways to set up the IPv6 Internet connection. You can use the Web-based IPv6 Internet Connection Setup Wizard, or you can manually configure the connection.

If you are a beginner that has not configured a router before, click on the **IPv6 Internet Connection Setup Wizard** button and the router will guide you through a few simple steps to get your network up and running.

If you are an advanced user that has configured a router before, click on the **Manual IPv6 Internet Connection Setup** button to input all the settings manually.



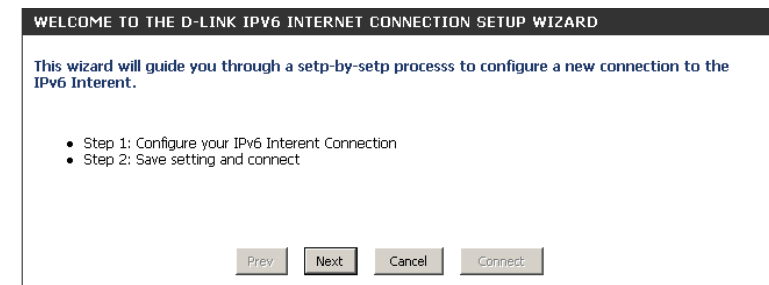
IPv6 Internet Connection Setup Wizard

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

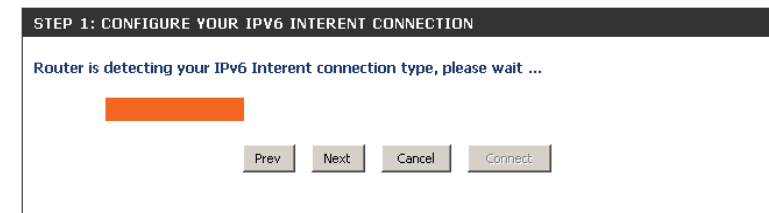
Click the **IPv6 Internet Connection Setup Wizard** button and the router will guide you through a few simple steps to get your network up and running.



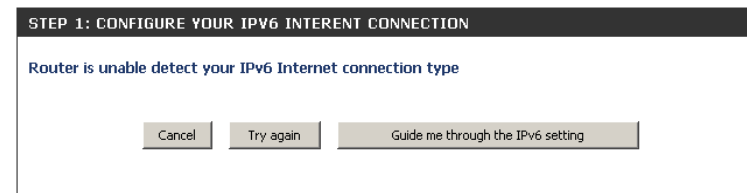
Click **Next** to continue to the next page. Click **Cancel** to discard the changes made and return to the main page.



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



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



STEP 1: CONFIGURE YOUR IPV6 INTERENT CONNECTION

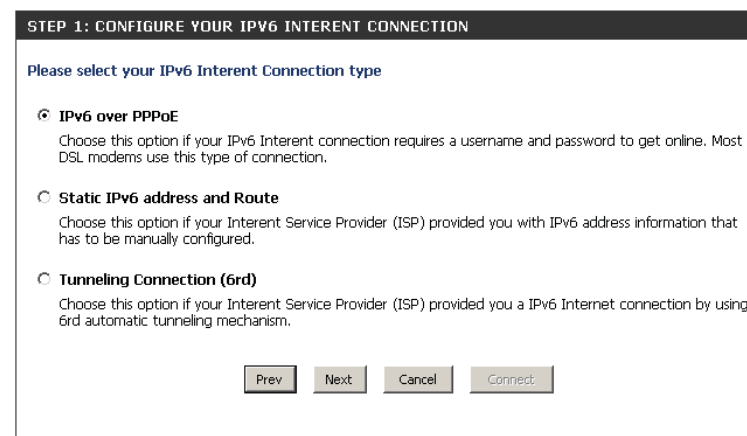
Router is unable detect your IPv6 Internet connection type

Cancel Try again Guide me through the IPv6 setting

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

Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computers has been removed or disabled. The 3 options available on this page are **IPv6 over PPPoE**, **Static IPv6 address and Route**, and **Tunneling Connection**.

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



STEP 1: CONFIGURE YOUR IPV6 INTERENT CONNECTION

Please select your IPv6 Interent Connection type

- ☒ **IPv6 over PPPoE**
Choose this option if your IPv6 Interent connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Static IPv6 address and Route**
Choose this option if your Interent Service Provider (ISP) provided you with IPv6 address information that has to be manually configured.
- ☐ **Tunneling Connection (6rd)**
Choose this option if your Interent Service Provider (ISP) provided you a IPv6 Internet connection by using 6rd automatic tunneling mechanism.

Prev Next Cancel Connect

Click on the **Next** button to continue. Click on the **Prev** button to return to the previous page.

Click on the **Cancel** button to discard all the changes made and return to the main page.

IPv6 over PPPoE

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

The following parameters will be available for configuration:

PPPoE Session: Select the PPPoE Session value used here. This option will state that this connection shares its information with the already configured IPv6 PPPoE connection, or the user can create a new PPPoE connection here.

User Name: Enter the PPPoE username used here. If you do not know your user name, please contact your ISP.

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

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

Service Name: Enter the service name for this connection here. This option is optional.

SET USERNAME AND PASSWORD CONNECTION (PPPoE)

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

PPPoE Session: ☒ Share with IPv4 ☐ Create a new session

Username :

Password :

Verify Password :

Service Name : (Optional)

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

Static IPv6 Address Connection

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

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

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

Subnet Prefix Length: Enter the WAN subnet prefix length value used here.

Default Gateway: Enter the WAN default gateway IPv6 address used here.

Primary DNS

Address: Enter the WAN primary DNS Server address used here.

Secondary DNS

Address: Enter the WAN secondary DNS Server address used here.

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

SET STATIC IPV6 ADDRESS CONNECTION

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

Use Link-Local Address : ☒

IPv6 Address :

Subnet Prefix Length :

Default Gateway :

Primary DNS Address :

Secondary DNS Address :

LAN IPv6 Address : /64

Prev

Next

Cancel

Connect

Tunneling Connection (6rd)

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

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

IPv4 Address: Enter the IPv4 address used here.

Mask Length: Enter the IPv4 mask length used here.

Assigned

IPv6 Prefix: Displays the IPv6 assigned prefix value here.

6rd Border Relay

IPv4 Address: Enter the 6rd border relay IPv4 address used here.

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

SET UP 6RD TUNNELING CONNECTION

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

6rd IPv6 Prefix :

/ 32

IPv4 Address :

192.168.1.2

Mask Length :

0

Assign IPv6 Prefix :

None

Tunnel Link-Local Address :

FE80::C0A8:0102/64

6rd Border Relay IPv4 Address :

IPv6 DNS Server :

Prev

Next

Cancel

Connect

The IPv6 Internet Connection Setup Wizard is complete.

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

SETUP COMPLETE!

The IPv6 Internet Connection Setup Wizard has completed. Click the Connect button to save your settings and reboot the router.

Prev

Next

Cancel

Connect

Manual IPv6 Local Connectivity Setup

You can set up a local-only IPv6 Internet connection as well. If you want to configure an IPv6 connection that will not connect to the Internet, click on the **Manual IPv6 Local Connectivity Settings** button.

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

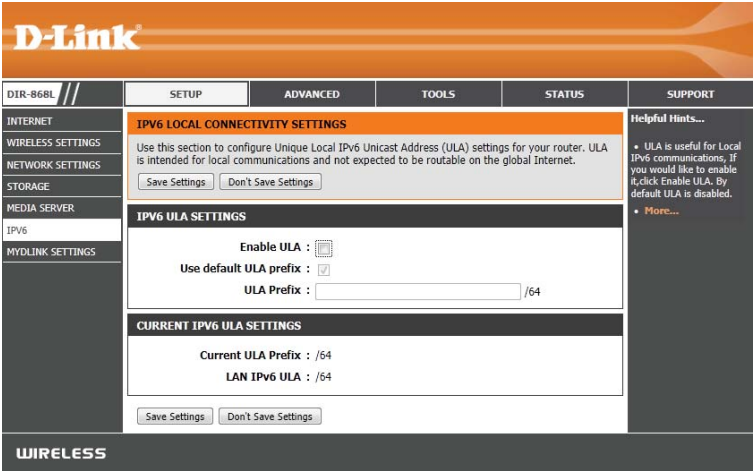
Use Default Checking this box will automatically configure

ULA Prefix: the ULA prefix for the default setting.

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

Current IPv6

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



Detection Static IPv6 Autoc

D-Link		DIR-868L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET	IPv6 Use this section to configure your IPv6 Connection Type. If you are unsure of your connection method, please contact your Internet Service Provider. Save Settings Don't Save Settings						Helpful Hints... - When configuring the router to access the IPv6 Internet, be sure to choose the correct IPv6 Connection Type from the drop down menu. If you are unsure of which option to choose, contact your Internet Service Provider (ISP). - If you are having trouble accessing the IPv6 Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed. - Helpful...
WIRELESS SETTINGS	IPv6 CONNECTION TYPE Choose the mode to be used by the router to connect to the IPv6 Internet. My IPv6 Connection is : Auto Detection						
NETWORK SETTINGS	IPv6 DNS SETTINGS Obtain DNS server address automatically or enter a specific DNS server address. ☒ Obtain IPv6 DNS Servers automatically ☐ Use the following IPv6 DNS Servers Primary DNS Server : Secondary DNS Server :						
STORAGE	LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. Enable DHCP-PD : ☒ LAN IPv6 Address : fe80::1::1::1::1 /64 LAN IPv6 Link-Local Address : fe80::1::1::1::1 /64						
MEDIA SERVER	ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN. Enable Automatic IPv6 address assignment : ☒ Enable Automatic DHCP-PD in : ☒ LAN Autoconfiguration Type : SLAAC+Stateless DHCP Router Advertisement Lifetime : 1800 (minutes) Save Settings Don't Save Settings						
IPv6							
HYDLINK SETTINGS							

Static IPv6

My IPv6

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

Use Link-Local

Address: Enter the address settings supplied by your Internet provider (ISP).

Subnet Prefix

Length: Enter a subnet prefix length.

IPv6 Default

Gateway: Enter the default gateway for your IPv6 connection.

Primary/

Secondary IPv6

DNS Servers: Enter the primary and secondary DNS server addresses.

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

LAN Link-Local

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

Enable Automatic

IPv6 Address

Assignment: Check to enable the Autoconfiguration feature.

Autoconfiguration Choose either **Stateful DHCPv6**, **SLAAC + RDNSS** or **SLAAC + Type: Stateless DHCPv6** from the drop-down menu.

Router

Advertisement

Lifetime: Enter the IPv6 Address Lifetime (in minutes).

The screenshot shows the 'Static IPv6' configuration page. It is divided into three main sections: 'IPv6 CONNECTION TYPE', 'WAN IPv6 ADDRESS SETTINGS', and 'LAN IPv6 ADDRESS SETTINGS'.

- IPv6 CONNECTION TYPE:** A dropdown menu is set to 'Static IPv6'.
- WAN IPv6 ADDRESS SETTINGS:**
 - 'Use Link-Local Address' is checked.
 - 'IPv6 Address' is 'FE80::CEB2:55FF:FED2:8E8A'.
 - 'Subnet Prefix Length' is '64'.
 - 'IPv6 Default Gateway' is empty.
 - 'Primary IPv6 DNS Server' is empty.
 - 'Secondary IPv6 DNS Server' is empty.
- LAN IPv6 ADDRESS SETTINGS:**
 - A note says: 'Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.'
 - 'LAN IPv6 Address' is empty, followed by '/64'.
 - 'LAN IPv6 Link-Local Address' is 'FE80::CEB2:55FF:FED2:8E89/64'.
- ADDRESS AUTOCONFIGURATION SETTINGS:**
 - A note says: 'Use this section to setup IPv6 Autoconfiguration to assign IPv6 addresses to the computers in your network.'
 - 'Enable automatic IPv6 address assignment' is checked.
 - 'Autoconfiguration Type' is 'SLAAC + Stateless DHCPv6'.
 - 'Router Advertisement Lifetime' is '1440' minutes.

Auto Detection

My IPv6 Select **Auto Detection** from the drop-down menu.

Connection Is:

Select either **Obtain DNS server address automatically** or **Use the**

IPv6 DNS Settings: following DNS Address.

Primary/Secondary

DNS Address: Enter the primary and secondary DNS server addresses.

Enable DHCP-PD: Check this box to enable DHCP-PD services.

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

LAN Link-Local

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

Enable Automatic

IPv6 Address

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

Enable Automatic

DHCP-PD in LAN: Check this box to automatically enable DHCP-PD services.

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

Router

Advertisement

Lifetime: Enter the IPv6 Address Lifetime (in minutes).

The screenshot displays the IPv6 configuration page with the following sections and settings:

- IPv6 CONNECTION TYPE:** Choose the mode to be used by the router to the IPv6 Internet. My IPv6 Connection is: Auto Detection.
- IPv6 DNS SETTINGS :** Obtain a DNS server address automatically or enter a specific DNS server address.
 - ☒ Obtain a DNS server address automatically
 - ☐ Use the following IPv6 DNS servers
 - Primary IPv6 DNS Server :
 - Secondary IPv6 DNS Server :
- LAN IPv6 ADDRESS SETTINGS :** Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.
 - Enable DHCP-PD : ☒
 - LAN IPv6 Address : /64
 - LAN IPv6 Link-Local Address : FE80::CEB2:55FF:FED2:8E89/64
- ADDRESS AUTOCONFIGURATION SETTINGS**

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

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

PPPoE

My IPv6

Connection Is: Select **PPPoE** from the drop-down menu.

PPPoE Session: Enter the PPPoE account settings supplied by your Internet provider.

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

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

Username: Enter your PPPoE user name.

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

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

Reconnection

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

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity.

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

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

Primary/Secondary

DNS Address: Enter the primary and secondary DNS server addresses.

The image shows two screenshots of a router's configuration interface. The top screenshot is titled "IPv6 CONNECTION TYPE" and instructs the user to "Choose the mode to be used by the router to the IPv6 Internet." It features a dropdown menu labeled "My IPv6 Connection is:" with "PPPoE" selected. The bottom screenshot is titled "PPPOE:" and instructs the user to "Enter the information provided by your Internet Service Provider (ISP)." It contains several fields: "PPPoE Session:" with radio buttons for "Share with IPv4" (selected) and "Create a new session"; "Address Mode:" with radio buttons for "Dynamic IP" (selected) and "Static IP"; "IP Address:"; "User Name:"; "Password:"; "Verify Password:"; "Service Name:" (optional); "Reconnect Mode:" with radio buttons for "Always on", "On demand" (selected), and "Manual"; "Maximum Idle Time:" set to 5 (minutes, 0=infinite); and "MTU:" set to 1492 (bytes, MTU default = 1492). The bottom screenshot is titled "IPv6 DNS SETTINGS:" and instructs the user to "Enter a specific DNS server address." It features two radio buttons: "Obtain IPv6 DNS server address automatically" (selected) and "Use the following IPv6 DNS servers". Below these are fields for "Primary IPv6 DNS Server:" and "Secondary IPv6 DNS Server:".

Enable DHCP-D: Check this box to enable DHCP prefix delegation for each LAN on the network.

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

LAN Link-Local

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

Enable Automatic IPv6 Address

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

Enable Automatic DHCP-PD in LAN: Check this box to enable automatic configuration of the DHCP prefix delegation for each LAN on the network.

Autoconfiguration

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

IPv6 Address

Lifetime: Enter the IPv6 Address Lifetime (in minutes).

LAN IPv6 ADDRESS SETTINGS :

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

Enable DHCP-PD : ☒

LAN IPv6 Address : **/64**

LAN IPv6 Link-Local Address : FE80::CEB2:55FF:FED2:8E89/64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime : 1440 (minutes)

IPv6 in IPv4 Tunneling

My IPv6

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

Remote IPv4

Address: Enter the IPv4 remote address you will use.

Remote IPv6

Address: Enter the IPv6 remote address you will use.

Local IPv4 Address: Enter the IPv4 local address you will use.

Local IPv6 Address: Enter the IPv6 local address you will use.

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

Primary/Secondary

DNS Address: Enter the primary and secondary DNS server addresses.

Enable DHCP-D: Check this box to enable DHCP prefix delegation for each LAN.

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

LAN IPv6 Lin-Local

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

The screenshot displays the IPv6 configuration interface with the following sections:

- IPv6 CONNECTION TYPE**: A dropdown menu set to "IPv6 in IPv4 Tunnel".
- IPv6 in IPv4 TUNNEL SETTINGS :** Fields for Remote IPv4 Address (0.0.0.0), Remote IPv6 Address, Local IPv4 Address (172.17.5.119), and Local IPv6 Address.
- IPv6 DNS SETTINGS :** Radio buttons for "Obtain a DNS server address automatically" (selected) and "Use the following IPv6 DNS servers". Fields for Primary and Secondary IPv6 DNS Servers.
- LAN IPv6 ADDRESS SETTINGS :** A note about changing LAN IPv6 addresses, a checked "Enable DHCP-PD" box, a "LAN IPv6 Address" field with a "/64" suffix, and a "LAN IPv6 Link-Local Address" field showing "FE80::CEB2:55FF:FED2:8E89/64".

**Enable Automatic
IPv6 Address**

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

Enable Automatic DHCP-PD in LAN: Check this box to enable automatic configuration of the DHCP prefix delegation for each LAN on the network.

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

**Router
Advertisement**

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

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime: 1440 (minutes)

6to4

My IPv6

Connection Is: Select **6to4** from the drop-down menu.

6to4 Address: Enter the IPv6 settings supplied by your ISP.

6to4 Relay: Enter the IPv6 relay supplied by your ISP.

Primary/Secondary

DNS Address: Enter the primary and secondary DNS server addresses.

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

LAN Link-Local

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

Enable Automatic IPv6 Address

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

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

Router Advertisement

Lifetime: Enter the IPv6 Address Lifetime (in minutes).

The screenshot displays the IPv6 configuration page with the following sections and values:

- IPv6 CONNECTION TYPE**: Choose the mode to be used by the router to the IPv6 Internet. My IPv6 Connection is: 6to4.
- 6to4 SETTINGS :** Enter the IPv6 address information provided by your Internet Service Provider (ISP).
 - 6to4 Address : 2002:AC11:0577::AC11:0577
 - 6to4 Relay : 192.88.99.1
 - Primary IPv6 DNS Server :
 - Secondary IPv6 DNS Server :
- LAN IPv6 ADDRESS SETTINGS :** Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.
 - LAN IPv6 Address : 2002:AC11:0577:1::1/64
 - LAN IPv6 Link-Local Address : FE80::CEB2:55FF:FED2:8E89/64
- ADDRESS AUTOCONFIGURATION SETTINGS**: Use this section to setup IPv6 Autoconfiguration to assign IPv6 addresses to the computers in your network.
 - Enable automatic IPv6 address assignment : ☒
 - Autoconfiguration Type : SLAAC + Stateless DHCPv6
 - Router Advertisement Lifetime : 480 (minutes)

6rd

My IPv6

Connection Is: Select **6rd** from the drop-down menu.

Enable Hub and Spoke Mode: Check this box if you want to minimize the number of routes to the destination by using a hub and spoke method of networking.

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

6rd IPv6 Prefix: Enter the 6rd IPv6 prefix settings supplied by your ISP.

IPv4 Address: You IPv4 address will appear here.

Mask Length: Enter the desired IPv4 mask length.

Assigned IPv6

Prefix: When an IPv6 prefix is assigned, it will appear here.

6rd Border Relay

IPv4 Address: Enter the 6rd Border Relay IPv4 address settings supplied by your ISP.

Primary/ Secondary DNS

Address: Enter the primary and secondary DNS server addresses.

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

LAN Link-Local

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

The screenshot displays the 6rd configuration interface, which is divided into three main sections:

- IPv6 CONNECTION TYPE:** This section prompts the user to "Choose the mode to be used by the router to the IPv6 Internet." The "My IPv6 Connection is:" dropdown menu is set to "6rd".
- 6RD SETTINGS:** This section is titled "Enter the IPv6 address information provided by your Internet Service Provider (ISP)." It includes:
 - Enable Hub and Spoke Mode:** A checkbox that is checked.
 - 6rd Configuration:** Two radio buttons; "6rd DHCPv4 Option" is selected, and "Manual Configuration" is unselected.
 - 6rd IPv6 Prefix:** A text field showing a partial prefix followed by a slash and a zero.
 - IPv4 Address:** A text field showing "172.17.5.119".
 - Mask Length:** A text field showing "0".
 - Assigned IPv6 Prefix:** A text field showing "None".
 - 6rd Border Relay IPv4 Address:** A text field showing "0.0.0.0".
 - Primary IPv6 DNS Server:** An empty text field.
 - Secondary IPv6 DNS Server:** An empty text field.
- LAN IPv6 ADDRESS SETTINGS:** This section is titled "Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again." It includes:
 - LAN IPv6 Address:** A text field showing "None".
 - LAN IPv6 Link-Local Address:** A text field showing the hexadecimal value "FE80::CEB2:55FF:FED2:8E89/64".

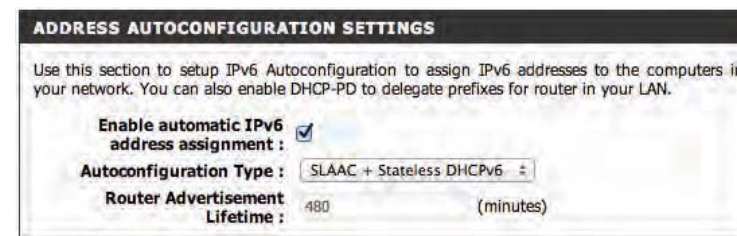
**Enable Automatic
IPv6 Address**

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

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

**Router
Advertisement**

Lifetime: Enter the IPv6 Address Lifetime (in minutes).



The screenshot shows a web interface titled "ADDRESS AUTOCONFIGURATION SETTINGS". Below the title is a descriptive paragraph: "Use this section to setup IPv6 Autoconfiguration to assign IPv6 addresses to the computers in your network. You can also enable DHCP-PD to delegate prefixes for router in your LAN." There are three main configuration options: 1. "Enable automatic IPv6 address assignment:" with a checked checkbox. 2. "Autoconfiguration Type:" with a dropdown menu showing "SLAAC + Stateless DHCPv6". 3. "Router Advertisement Lifetime:" with a text input field containing "480" and a label "(minutes)".

Link-Local Connectivity

My IPv6

Connection Is: Select **Link-Local Only** from the drop-down menu.

LAN IPv6 Address

Settings: Displays the IPv6 address of the router.

IPv6 CONNECTION TYPE

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

My IPv6 Connection is : Local Connectivity Only

LAN IPv6 ADDRESS SETTINGS :

LAN IPv6 address for local IPv6 communicatoins.

LAN IPv6 Link-Local Address : FE80::CEB2:55FF:FED2:8E89/64

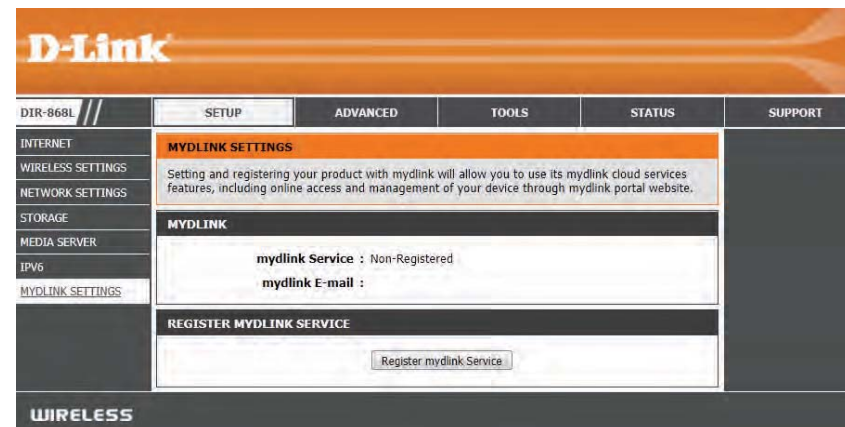
mydlink Settings

Devices that are mydlink-enabled can be accessed and managed through the mydlink website and by using mydlink mobile apps for iOS and Android. You cannot take advantage of these features without a mydlink account. If you have a mydlink account already, you can log in when you first set up the router, or by visiting this setup page.

mydlink Service: Displays whether your device is registered with a mydlink account or not.

mydlink E-mail: Displays the email address associated with your mydlink account if you have an active account.

Register mydlink Service: Click to go to the mydlink website to register your device or edit your settings.



Advanced Virtual Server

This page will allow you to open a single port. If you would like to open a range of ports, refer to the next page.

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

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

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

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

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

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

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SETUP ADVANCED TOOLS STATUS SUPPORT

VIRTUAL SERVER

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

Save Settings Don't Save Settings

24 - VIRTUAL SERVERS LIST

Remaining number of rules that can be created: 24

Name	IP Address	Port	Traffic Type	Inbound Filter
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A
<< Application name	<< Computer Name	Public Port	Protocol Both	Schedule Always
<< Application name	<< Computer Name	Private Port	Protocol Both	Inbound Filter Allow A

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

- Check the Application Name drop down menu for a list of predefined server types. If you select one of the predefined server types, click the arrow button next to the drop down menu to fill out the corresponding field.
- You can select a computer from the list of DHCP clients in the Computer Name drop down menu, or you can manually enter the IP address of the computer at which you would like to open the specified port.
- Select a schedule for when the virtual server will be enabled. If you do not see the schedule you need in the list of schedules, go to the Tools -> Schedules screen and create a new schedule.
- Select a filter that restricts the Internet hosts that can access this virtual server to hosts that you trust. If you do not see the filter you need in the list of filters, go to the Advanced -> Inbound Filter screen and create a new filter.
- More...

Port Forwarding

This page will allow you to open a single port or a range of ports.

Name: Enter a name for the rule or select an application from the drop-down menu. Select an application and click to populate the fields.

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

Enter the TCP and/or UDP port or ports that you want to open.

TCP/UDP: You can enter a single port or a range of ports. Separate ports with a common. Example: 24,1009,3000-4000

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

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

The screenshot shows the D-Link DIR-868L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options: VIRTUAL SERVER, PORT FORWARDING (selected), APPLICATION RULES, QOS ENGINE, NETWORK FILTER, ACCESS CONTROL, WEBSITE FILTER, INBOUND FILTER, FIREWALL SETTINGS, ROUTING, ADVANCED WIRELESS, WI-FI PROTECTED SETUP, ADVANCED NETWORK, GUEST ZONE, IPV6 FIREWALL, and IPV6 ROUTING. The main content area is titled 'PORT FORWARDING' and contains a description of the feature. Below this is a section for '24 -- PORT FORWARDING RULES' with a note about the remaining number of rules. The table below shows the configuration for each rule, including Name, IP Address, Application Name, Computer Name, Ports to Open (TCP/UDP), and Inbound Filter. There are also 'Save Settings' and 'Don't Save Settings' buttons at the bottom.

Name	IP Address	Application Name	Computer Name	Ports to Open	Inbound Filter
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A
				TCP	Schedule
				UDP	Allow A

Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DAP-1750. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the firewall (public) ports associated with the trigger port to open them for inbound traffic.

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

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

Traffic Type: Select the protocol of the trigger port (TCP, UDP, or Both).

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

Traffic Type: Select the protocol of the firewall port (TCP, UDP, or Both).

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

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SETUP ADVANCED TOOLS STATUS SUPPORT

APPLICATION RULES

The Application Rules option is used to open single or multiple ports in your firewall when the router senses data sent to the Internet on an outgoing "Trigger" port or port range. Special Application rules apply to all computers on your internal network.

Save Settings Don't Save Settings

24 — APPLICATION RULES

Remaining number of rules that can be created: 24

	Name	Application	Trigger	Traffic Type	Schedule
☐		Application <<>	Firewall	All	Always
☐		Application <<>	Firewall	All	Always
☐		Application <<>	Firewall	All	Always
☐		Application <<>	Firewall	All	Always
☐		Application <<>	Firewall	All	Always
☐		Application <<>	Firewall	All	Always
☐		Application <<>	Firewall	All	Always

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

- Use this feature if you are trying to execute one of the listed network applications and it is not communicating as expected.
- Use the Application Name drop-down menu to view a list of pre-defined applications that you can select from. If you select one of the pre-defined applications, click the arrow button next to the drop-down menu to fill out the appropriate fields.
- Select a schedule for when the service will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Tools > Schedules** screen and create a new schedule.
- More...

QoS Engine

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

Enable QoS Engine: This option is disabled by default. Enable this option for better performance and experience with online games and other interactive applications, such as VoIP.

Automatic Uplink Speed: This option is enabled by default when the QoS Engine option is enabled. This option will allow your router to automatically determine the uplink speed of your Internet connection.

Measured Uplink Speed: This displays the detected uplink speed.

Manual Uplink Speed: The speed at which data can be transferred from the router to your ISP. This is determined by your ISP. ISP's often speed as a download/upload pair. For example, 1.5Mbps/284Kbits. Using this example, you would enter 284. Alternatively you can test your uplink speed with a service such as speedtest.net.

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

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

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

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

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SETUP ADVANCED TOOLS STATUS SUPPORT

QoS SETTINGS

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

Save Settings Don't Save Settings

QoS SETUP

Enable QoS : ☒

Uplink Speed : 2048 kbps << Select Transmitter Rate >>

Downlink Speed : 8192 kbps << Select Transmitter Rate >>

Queue Type : ☐ Strict Priority Queue ☒ Weighted Fair Queue

Queue ID	Queue Weight
1	40 %
2	30 %
3	20 %
4	10 %

32 - CLASSIFICATION RULES

Remaining number of rules that can be created: 18

Name: Youtube Queue ID: 1 - Highest Protocol: TCP << ALL >>

Local IP Range: to Application Port: << ALL >>

Remote IP Range: to

Name: Queue ID: 1 - Highest Protocol: << ALL >>

Local IP Range: to Application Port: << ALL >>

Remote IP Range: to

Save Settings Don't Save Settings

Protocol: The protocol used by the messages.

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

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

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

Remote Port

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

Network Filters

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router.

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

MAC Address: Enter the MAC address you would like to filter.

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

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

Clear: Click to remove the MAC address.

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DIR-869L // SETUP ADVANCED TOOLS STATUS SUPPORT

MAC ADDRESS FILTER

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

Save Settings Don't Save Settings

24 - MAC FILTERING RULES

Configure MAC Filtering below:
Turn MAC Filtering ON and ALLOW computers listed to access the network

Remaining number of rules that can be created: 24

MAC Address	DHCP Client List	Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule
☐	<< Computer Name	Always New Schedule

Save Settings Don't Save Settings

WIRELESS

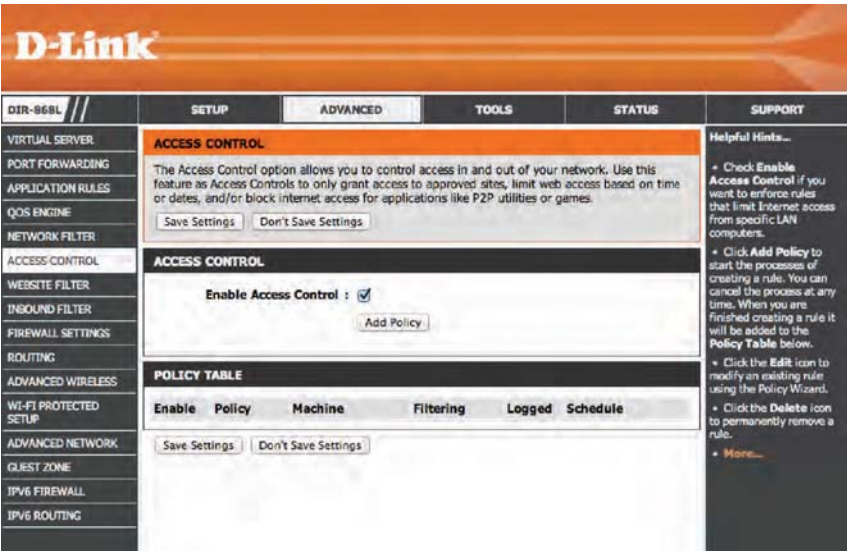
Helpful Hints...

- Create a list of MAC addresses and choose whether to allow or deny them access to your network.
- Computers that have obtained an IP address from the router's DHCP server will be in the DHCP Client List. Select a device from the drop down menu and click the arrow to add that device's MAC to the list.
- Use the check box on the left to either enable or disable a particular entry.
- Use the Always drop down menu if you have previously defined a schedule in the router. If not, click on the New Schedule button to add one.
- More...

Access Control

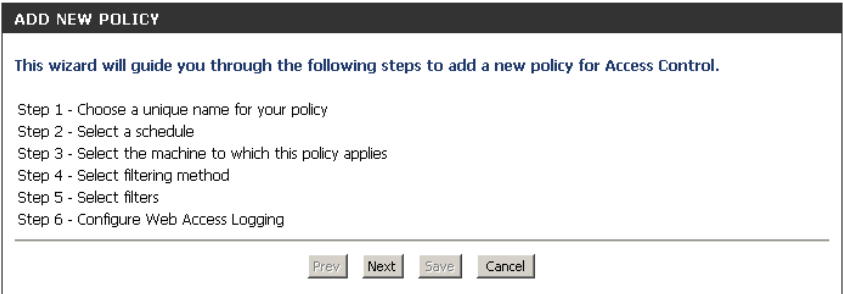
The Access Control section allows you to control access in and out of your network. Use this feature as Parental Controls to only grant access to approved sites, limit web access based on time or dates, and/or block access from applications like P2P utilities or games.

Add Policy: Click the **Add Policy** button to start the Access Control Wizard.



Access Control Wizard

Click **Next** to continue with the wizard.



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

STEP 1: CHOOSE POLICY NAME

Choose a unique name for your policy.

Policy Name :

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

STEP 2: SELECT SCHEDULE

Choose a schedule to apply to this policy.

Details :

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

- **Address Type** - Select IP address, MAC address, or Other Machines.
- **IP Address** - Enter the IP address of the computer you want to apply the rule to.
- **Machine Address** - Enter the PC MAC address (i.e. 00:00:00.00.00).

STEP 3: SELECT MACHINE

Select the machine to which this policy applies.

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

Address Type : ☒ IP ☐ MAC ☐ Other Machines

IP Address : <<

Machine Address : <<

Machine		
192.168.0.112		

Select the filtering method and then click **Next** to continue.

STEP 4: SELECT FILTERING METHOD

Select the method for filtering.

Method : ☐ Log Web Access Only ☐ Block All Access ☒ Block Some Access

Apply Web Filter : ☐

Apply Advanced Port Filters : ☐

Enter the rule:

- Enable** - Check to enable the rule.
- Name** - Enter a name for your rule.
- Dest IP Start** - Enter the starting IP address.
- Dest IP End** - Enter the ending IP address.
- Protocol** - Select the protocol.
- Dest Port Start** - Enter the starting port number.
- Dest Port End** - Enter the ending port number.

To enable web logging, click **Enable**.

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

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

STEP 5: PORT FILTER

Add Port Filters Rules.

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

Enable	Name	Dest IP Start	Dest IP End	Protocol	Dest Port Start	Dest Port End
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535
☐		0.0.0.0	255.255.255.255	Any	0	65535

Prev

Next

Save

Cancel

STEP 6: CONFIGURE WEB ACCESS LOGGING

Web Access Logging : ☐ Disabled

☒ Enable

Prev

Next

Save

Cancel

ACCESS CONTROL

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

Save Settings

Don't Save Settings

Reboot Now

ENABLE

Enable Access Control : ☒

Add Policy

POLICY TABLE

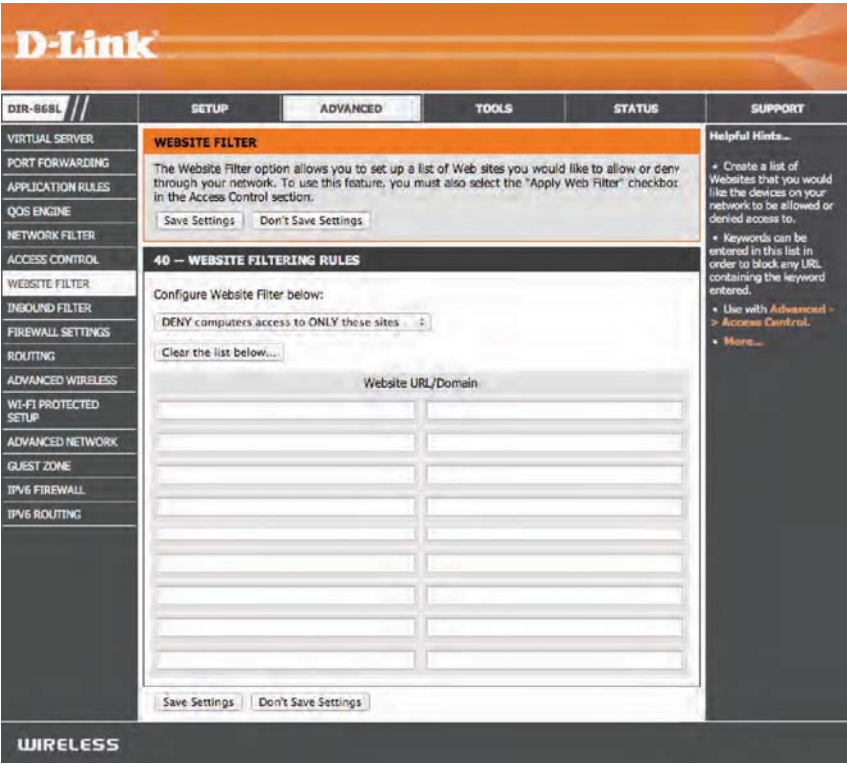
Enable Policy	Machine	Filtering	Logged	Schedule		
☒	dlink	192.168.0.106	Block Some Access	No	Always	 

Website Filters

Website Filters are used to allow you to set up a list of Web sites that can be viewed by multiple users through the network. To use this feature select to **Allow** or **Deny**, enter the domain or website and click **Save Settings**. You must also select **Apply Web Filter** under the *Access Control* section.

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

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



Inbound Filter

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

Name: Enter a name for the inbound filter rule.

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

Enable: Check to enable rule.

Remote IP Start: Enter the starting IP address. Enter 0.0.0.0 if you do not want to specify an IP range.

Remote IP End: Enter the ending IP address. Enter 255.255.255.255 if you do not want to specify an IP range.

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

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

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INBOUND FILTER

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

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

ADD INBOUND FILTER RULE

Name:

Action: ☐ Allow ☐ Deny

Remote IP Range: ☐ Enable Remote IP Start Remote IP End

☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255
☐	0.0.0.0	255.255.255.255

INBOUND FILTER RULES LIST

Name	Action	Remote IP Range

WIRELESS

Helpful Hints...

- Give each rule a **Name** that is meaningful to you.
- Each rule can either **Allow** or **Deny** access from the WAN.
- Up to eight ranges of WAN IP addresses can be controlled by each rule. The checkbox by each IP range can be used to disable ranges already defined.
- The starting and ending IP addresses are WAN-side address.
- Click the **Add** button to store a finished rule in the Rules List below.
- Click the **Edit** icon in the Rules List to change a rule.
- Click the **Delete** icon in the Rules List to permanently remove a rule.
- [More...](#)

Firewall Settings

A firewall protects your network from the outside world. The DAP-1750 offers a firewall type functionality. The SPI feature helps prevent cyber attacks. Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ. DMZ is short for Demilitarized Zone. This option will expose the chosen computer completely to the outside world.

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

Anti-Spoof Check: Enable this feature to protect your network from certain kinds of “spoofing” attacks.

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

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

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

PPTP: Allows multiple machines on the LAN to connect to their corporate network using PPTP protocol.

IPSEC (VPN): Allows multiple VPN clients to connect to their corporate network using IPsec. Some VPN clients support traversal of IPsec through

The screenshot displays the D-Link DAP-1750 web interface for Firewall & DMZ Settings. The left sidebar lists various configuration categories, with 'FIREWALL SETTINGS' selected. The main content area is divided into several sections:

- FIREWALL & DMZ SETTINGS:** Contains a description of DMZ and buttons for 'Save Settings' and 'Don't Save Settings'.
- FIREWALL SETTINGS:** Includes a checkbox for 'Enable SPI'.
- ANTI-SPOOF CHECKING:** Includes a checkbox for 'Enable anti-spoof checking'.
- DMZ HOST:** Contains a description of the DMZ option, a 'Note' about security risks, and fields for 'Enable DMZ' (checkbox), 'DMZ IP Address' (text input), and 'Computer Name' (dropdown menu).
- APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION:** Includes checkboxes for 'PPTP', 'IPsec (VPN)', 'RTSP', and 'SIP', all of which are currently checked.

Buttons for 'Save Settings' and 'Don't Save Settings' are located at the bottom of the configuration sections.

NAT. This ALG may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.

RTSP: Allows application that uses Real Time Streaming Protocol to receive streaming media from the Internet. QuickTime and Real Player are some of the common applications using this protocol.

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

Routing

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

Name: Enter a name for your route.

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

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

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

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

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

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SETUP ADVANCED TOOLS STATUS SUPPORT

ROUTING

The Routing option allows you to define static routes to specific destinations.

Save Settings Don't Save Settings

32 - ROUTE LIST

Remaining number of rules that can be created: 32

Name	Destination IP	Netmask	Gateway	Metric	Interface
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)
				1	WAN (172.17.5.129)

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

- Enable:** Specifies whether the entry will be enabled or disabled.
- Interface:** Specifies the interface -- WAN -- that the IP packet must use to transit out of the router, when this route is used.
- Destination IP:** The IP address of packets that will take this route.
- Netmask:** One bit in the mask specifies which bits of the IP address must match.
- Gateway:** The gateway IP address is the IP address of the router, if any, used to reach the specified destination.
- More...**

Advanced Wireless

This page allows you to change some of the advanced wireless settings of the DAP-1750. It is recommended that you only change these settings if you are familiar with their functions and proper settings, or are instructed to do so.

Wireless Band: This will display which radio band the following settings will be used for. This top box will be the settings for the 2.4 GHz band.

Transmit Power: Set the transmit power of the antennas for the 2.4 GHz band.

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

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

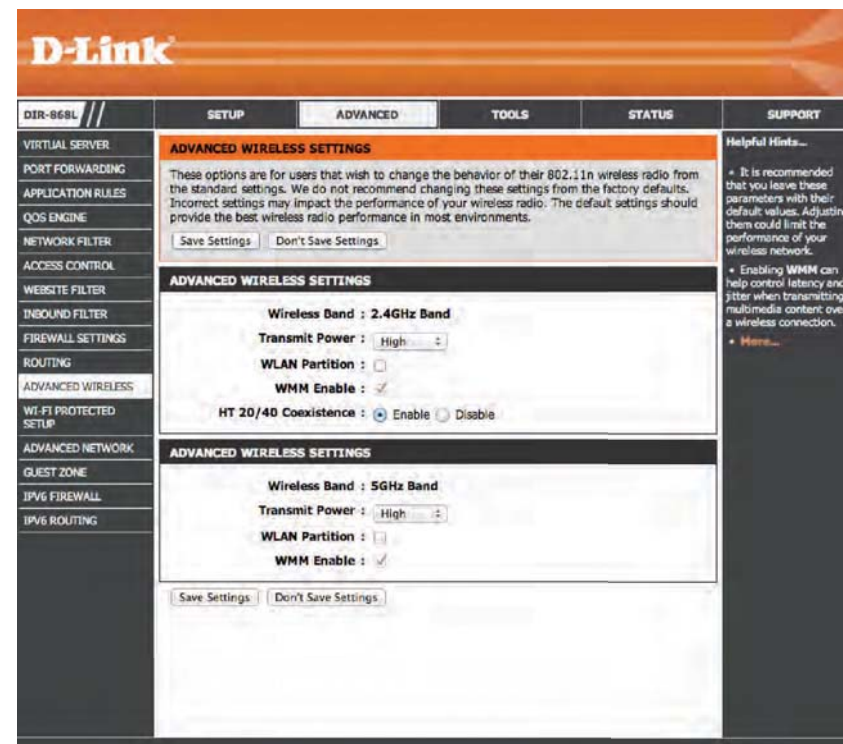
HT20/40 Coexistence: Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz.

Wireless Band: This will display which radio band settings will be used. This top box will be the settings for the 5 GHz band.

Transmit Power: Set the transmit power of the antennas for the 5 GHz band.

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

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



Wi-Fi Protected Setup

Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the “Initial setup” as well as the “Add New Device” processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufacturers. The process is just as easy as pressing a button for the Push-Button Method or correctly entering the 8-digit code for the PIN Code Method. The time reduction in setup and ease of use are quite beneficial, and the highest wireless security setting of WPA2 is automatically used.

Enable: Enable the Wi-Fi Protected Setup feature.

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

Lock WPS-PIN Setup: Check to disable the option of configuring the WPS PIN options.

PIN Settings: A PIN is a unique number that can be used to add the router to an existing network or to create a new network. Only the Administrator (“admin” account) can change or reset the PIN.

Current PIN: Shows the current PIN.

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

Reset PIN to Default:

Restore the default PIN of the router.

The screenshot shows the D-Link DIR-868L web interface. The left sidebar contains a menu with options: VIRTUAL SERVER, PORT FORWARDING, APPLICATION RULES, QOS ENGINE, NETWORK FILTER, ACCESS CONTROL, WEBSITE FILTER, INBOUND FILTER, FIREWALL SETTINGS, ROUTING, ADVANCED WIRELESS, WI-FI PROTECTED SETUP (highlighted), ADVANCED NETWORK, GUEST ZONE, IPV6 FIREWALL, and IPV6 ROUTING. The main content area is titled 'WI-FI PROTECTED SETUP' and includes the following sections:

- WI-FI PROTECTED SETUP**: A description of the feature and instructions. It includes buttons for 'Save Settings' and 'Don't Save Settings'.
- WI-FI PROTECTED SETUP**: A section with 'Enable' checked, 'WiFi Protected Setup' set to 'Enable/Configured', and 'Lock WPS-PIN Setup' set to 'Off'.
- PIN SETTINGS**: Displays the current PIN as '01234567'. It includes buttons for 'Reset PIN to Default' and 'Generate New PIN'.
- ADD WIRELESS STATION**: A section with a 'Connect your Wireless Device' button and 'Save Settings'/'Don't Save Settings' buttons.

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

- Enable if other wireless devices you wish to include in the local network support Wi-Fi Protected Setup.
- Only "Admin" account can change security settings.
- Lock WPS-PIN Setup Locking the WPS-PIN Method prevents the settings from being changed by any new external registrar using its PIN. Devices can still be added to the wireless network using Wi-Fi Protected Setup Push Button Configuration (WPS PIN).
- Click **Connect your Wireless Device** to use Wi-Fi Protected Setup to add wireless devices to the wireless network.
- More...

Add Wireless This Wizard helps you add wireless devices to the wireless network.

Station:

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

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

Click to start the wizard and turn to page 40.

WPS Button

You can also simply press the WPS button on the side of the router, and then press the WPS button on your wireless client within 120 seconds to automatically connect without logging into the router.

Refer to page 108 for more information.

Advanced Network

This page allows you to change some of the advanced network settings of the DAP-1750. It is recommended that you only change these settings if you are familiar with their functions and proper settings, or are instructed to do so.

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

WAN Ping: Checking the box will allow the DAP-1750 to respond to pings. Unchecking the box may provide some extra security from hackers.

WAN Ping Inbound Filter: Select from the drop-down menu if you would like to apply the Inbound Filter to the WAN ping. Refer to the Inbound Filters section for more information.

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

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

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

The screenshot displays the 'Advanced Network Settings' page for a D-Link DIR-868L router. The interface includes a sidebar with navigation links such as 'VIRTUAL SERVER', 'PORT FORWARDING', 'APPLICATION RULES', 'QOS ENGINE', 'NETWORK FILTER', 'ACCESS CONTROL', 'WEBSITE FILTER', 'INBOUND FILTER', 'FIREWALL SETTINGS', 'ROUTING', 'ADVANCED WIRELESS', 'WI-FI PROTECTED SETUP', 'ADVANCED NETWORK', 'GUEST ZONE', 'IPv6 FIREWALL', and 'IPv6 ROUTING'. The main content area is titled 'ADVANCED NETWORK SETTINGS' and contains several sections:

- UPNP:** A section with a warning about changing LAN settings and a checkbox for 'Enable UPnP IGD' which is checked.
- WAN PING:** A section with a description of the feature and a checkbox for 'Enable WAN Ping Response' which is unchecked.
- WAN PORT SPEED:** A section with a dropdown menu for 'WAN Port Speed' set to 'Auto 10/100/1000Mbps'.
- IPv4 MULTICAST STREAMS:** A section with a checkbox for 'Enable IPv4 Multicast Streams' which is unchecked.
- IPv6 MULTICAST STREAMS:** A section with a checkbox for 'Enable IPv6 Multicast Streams' which is unchecked.

At the bottom of the main content area are 'Save Settings' and 'Don't Save Settings' buttons. A 'WIRELESS' section is visible at the very bottom. On the right side, there is a 'Helpful Hints...' section with additional information about UPnP and WAN Ping.

Guest Zone

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

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

Enable Guest Zone: Check to enable the Guest Zone feature for the 2.4 GHz band.

Schedule: The schedule of time when the Guest Zone will be active. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times in the **Tools > Schedules** section or click **Add New**.

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

Security Mode: If you want to choose a security mode for the 2.4 GHz band, choose from the drop-down menu.

Enable Guest Zone: Check to enable the Guest Zone feature for the 5 GHz band.

Schedule: The schedule of time when the Guest Zone will be active. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times in the **Tools > Schedules** section or click **Add New**.

Wireless Network

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

Security Mode: If you want to choose a security mode for the 5 GHz band, choose from the drop-down menu.

The screenshot displays the D-Link web interface for the DIR-868L router, specifically the 'GUEST ZONE' configuration page. The interface has a top navigation bar with 'D-Link' logo and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. A left sidebar lists various configuration categories. The main content area is titled 'GUEST ZONE' and contains instructions: 'Use this section to configure the guest zone settings of your router. The guest zone provide a separate network zone for guest to access Internet.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. The configuration is split into two sections: 'SESSION 2.4GHZ' and 'SESSION 5GHZ'. In the 2.4GHz section, 'Enable Guest Zone' is checked, 'Wireless Band' is '2.4GHz Band', 'Wireless Network Name' is 'dlink-guest', and 'Security Mode' is 'None'. In the 5GHz section, 'Enable Guest Zone' is checked, 'Wireless Band' is '5GHz Band', 'Wireless Network Name' is 'dlink-media-guest', and 'Security Mode' is 'None'. Both sections have 'Save Settings' and 'Don't Save Settings' buttons. A 'Helpful Hints...' section on the right provides additional guidance.

IPv6 Firewall

The DAP-1750's IPv6 Firewall feature allows you to configure which kind of IPv6 traffic is allowed to pass through the device. The DAP-1750's IPv6 Firewall functions in a similar way to the IP Filters feature.

Enable IPv6 Simple

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

Configure IPv6

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

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

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

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

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

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

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

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

IPv6 Routing

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

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

Name: Enter a specific name to identify this route.

Destination IP/ This is the IP address of the router used to reach the specified

Prefix Length: destination or enter the IPv6 address prefix length of the packets that will take this route.

Metric: Enter the metric value for this rule here.

Interface: Use the drop-down menu to specify if the IP packet must use the WAN or LAN interface to transit out of the Router.

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

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ROUTING

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

Save Settings Don't Save Settings

10 - ROUTE LIST

Route	Name	Destination IPv6 / Prefix Length	Metric	Interface	Gateway
☐		64		NULL	
☐		64		NULL	
☐		64		NULL	
☐		64		NULL	
☐		64		NULL	

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

- Each route has a check box next to it, check this box if you want the route to be enabled.
- The name field allows you to specify a name for identification of this route, e.g. "Network 2".
- The destination IPv6 address is the address of the host or network you wish to reach.
- The prefix length field identifies the portion of the destination IP in use.
- The gateway IP address is the IP address of the router, if any, used to reach the specified destination.
- More...

Tools Admin

This page will allow you to change the Administrator and User passwords. You can also enable Remote Management. There are two accounts that can access the management interface through the web browser. The accounts are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes. Only the admin account has the ability to change both admin and user account passwords.

Admin Here you can enter a new password for the Administrator Login
Password: Name. The administrator can make changes to the settings.

Password: Enter the new password for the User login. If you login as the User, you cannot change the settings (you can only view them). Then enter the password again for verification.

Gateway Name: Enter a name for your router.

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

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

Enable Remote Management: Remote management allows the DAP-1750 to be configured from the Internet by a web browser. A username/password is still required to access the Web Management interface.

Remote Admin The port number used to access the DAP-1750 is used in the URL. Example: **http://x.x.x.x:8080** whereas x.x.x.x is the Internet IP
Port: address of the DAP-1750 and 8080 is the port used for the Web Management interface. If you have enabled **HTTPS Server**, you must enter **https://** as part of the URL to access the router remotely.

Remote Admin This section will list any rules that are created. You may click the **Edit** icon to change the settings or enable/disable the rule, or click the **Inbound Filter: Delete** icon to remove the rule. **Details** will display the current status of the rule.

The screenshot shows the D-Link DIR-868L Web Management interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration sections: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'ADMINISTRATOR SETTINGS' and contains the following sections:

- ADMINISTRATOR SETTINGS:** A text box explaining that the 'admin' account has read/write access and can change its password. It recommends creating a password. Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- ADMIN PASSWORD:** A section for changing the admin password. It includes a text box for the new password and a 'Verify Password' field. A note states: 'Please enter the same password into both boxes, for confirmation.'
- SYSTEM NAME:** A section for setting the Gateway Name, with a text box containing 'DIR-868L'.
- ADMINISTRATION:** A section for enabling various features:
 - Enable Graphical Authentication:** A checkbox that is currently unchecked.
 - Enable HTTPS Server:** A checkbox that is currently checked.
 - Enable Remote Management:** A checkbox that is currently unchecked.
 - Remote Admin Port:** A text box containing '8080'.
 - Use HTTPS:** A checkbox that is currently unchecked.
 - Remote Admin Inbound Filter:** A dropdown menu showing 'Allow All'.
 - Details:** A link to view more details.

At the bottom of the main content area are 'Save Settings' and 'Don't Save Settings' buttons. The bottom of the page features a 'WIRELESS' section header.

Time

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the Time Server. Daylight Saving can also be configured to automatically adjust the time when needed.

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

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

Enable Daylight Saving: To select Daylight Saving time manually, select enabled or disabled, and enter a start date and an end date for daylight saving time.

Enable NTP Server: NTP is short for Network Time Protocol. A NTP server will synch the time and date with your router. This will only connect to a server on the Internet, not a local server. Check the box to enable this feature.

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

Manual: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second and then click **Set Time**.

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

The screenshot shows the D-Link DIR-868L web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'TIME AND DATE' and contains the following sections:

- TIME AND DATE CONFIGURATION:**
 - Time: 2012/12/14 17:25:40
 - Time Zone: GMT+08:00 Taipei
 - Enable Daylight Saving: ☐
 - Daylight Saving Offset: +01:00
 - Daylight Saving Dates:

	Month	Week	Day of Week	Time
DST Start	Jan	1st	Sun	12:00 AM
DST End	Jan	1st	Sun	12:00 AM
- AUTOMATIC TIME AND DATE CONFIGURATION:**
 - ☒ Automatically synchronize with D-Link's Internet time server
 - NTP Server Used: ntp1.dlink.com
 - Update Now
 - The time has been successfully synchronized.
 - (NTP Server Used: ntp1.dlink.com, Time: 2012/12/14 16:33:34)
 - Next time synchronization: 2012/12/21 16:33:34
- SET THE TIME AND DATE MANUALLY:**
 - Year: 2012, Month: Dec, Day: 14, Hour: 11, Minute: 25, Second: 40
 - Sync your computer's time settings

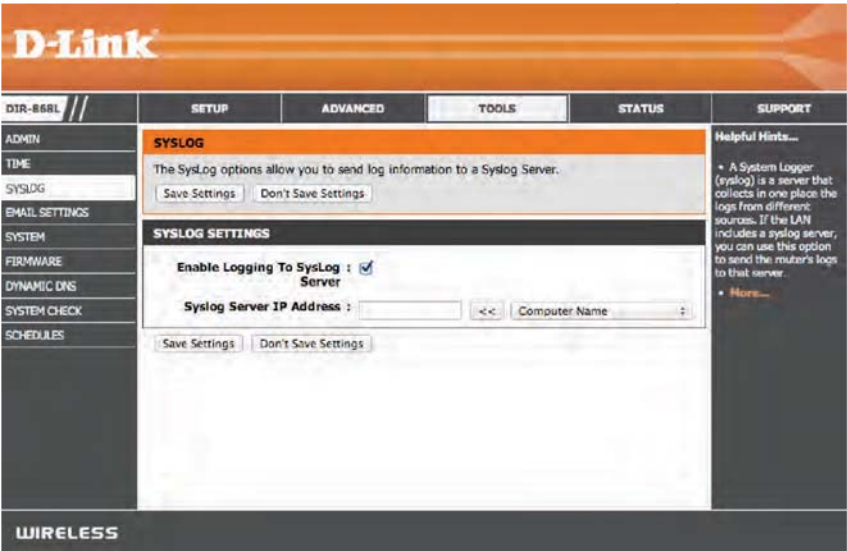
At the bottom of the main content area are 'Save Settings' and 'Don't Save Settings' buttons. The footer of the interface says 'WIRELESS'.

SysLog

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

Enable Logging to

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



Email Settings

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

Enable Email Notification: When this option is enabled, router activity logs are emailed to a designated email address.

From Email Address: This email address will appear as the sender when you receive a log file or firmware upgrade notification via email.

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

SMTP Server Address: Enter the SMTP server address for sending email.

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

Enable

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

Account Name: Enter your account for sending email.

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

On Log Full: When this option is selected, logs will be sent via email to your account when the log is full.

On Schedule: Selecting this option will send the logs via email according to schedule.

Schedule: This option is enabled when **On Schedule** is selected. You can select a schedule from the list of defined schedules. To create a schedule, go to **Tools > Schedules**.

Details: Here you can choose from a drop down menu whether email details are kept in the log or not.

The screenshot shows the D-Link DIR-868L Web UI. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists various configuration options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS (selected), SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'EMAIL SETTINGS' and contains the following sections:

- EMAIL SETTINGS:** A message stating 'The Email feature can be used to send the system log files and router alert messages to your email address.' with 'Save Settings' and 'Don't Save Settings' buttons.
- EMAIL NOTIFICATION:** A section with 'Enable Email Notification' checked.
- EMAIL SETTINGS:** A form with fields for 'From Email Address', 'To Email Address', 'Email Subject', 'SMTP Server Address', 'SMTP Server Port' (set to 25), 'Enable Authentication' (unchecked), 'Account Name', 'Password', and 'Verify Password'. A 'Send Mail Now' button is at the bottom right.
- EMAIL LOG WHEN FULL OR ON SCHEDULE:** A section with 'On Log Full' and 'On Schedule' checkboxes (both unchecked), a 'Schedule' dropdown menu (set to 'Never'), and a 'Detail' field. 'Save Settings' and 'Don't Save Settings' buttons are at the bottom.

A 'Helpful Hint...' sidebar on the right suggests that users may want to make email settings similar to those of their email client programs.

System

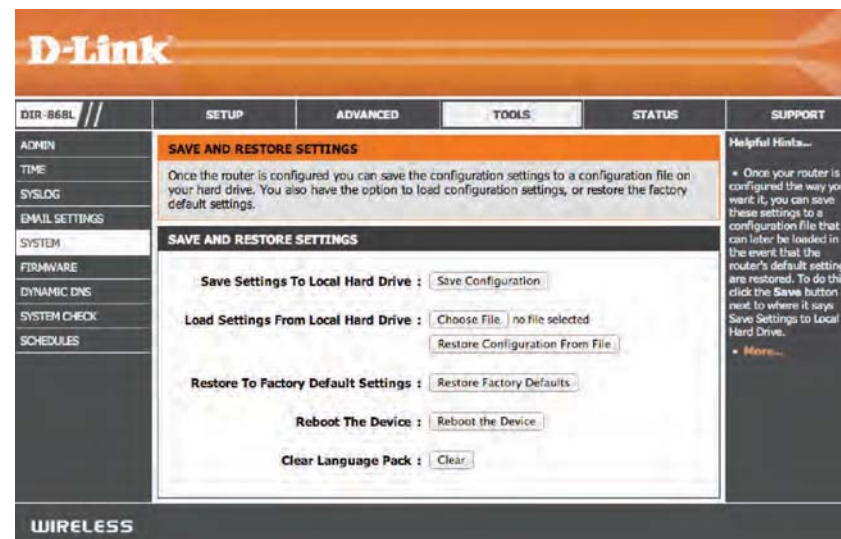
This section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created.

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

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

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

Reboot Device: Click to reboot the router.



Firmware

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

Check Now: Click **Check Now** to check for new firmware and language pack versions online.

Firmware Upgrade

You can change update the internal router software by uploading a new firmware version.

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

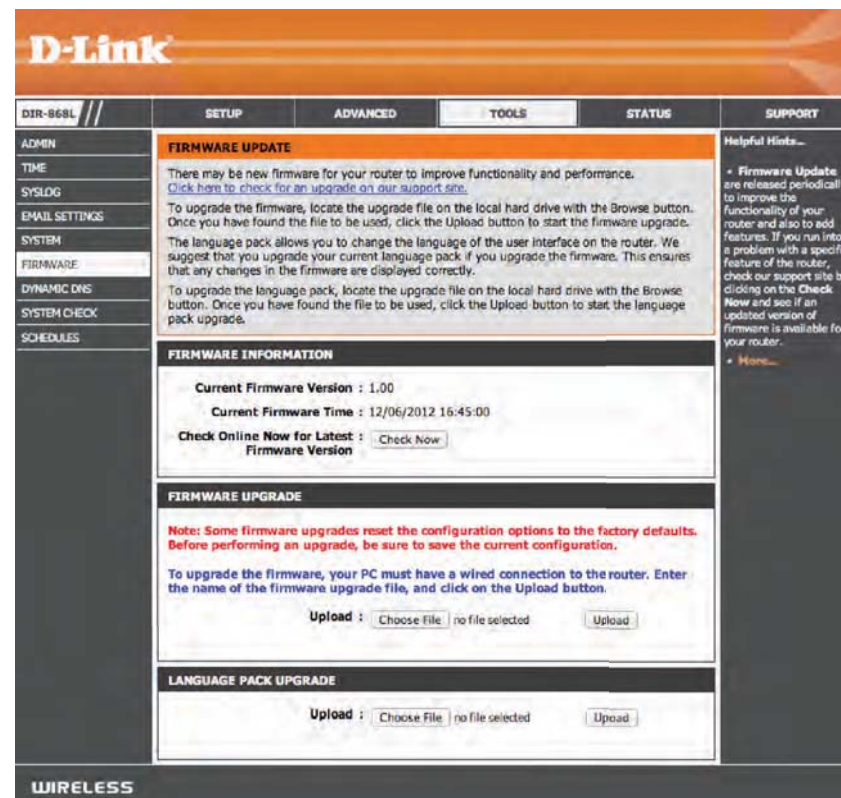
Upload: Click **Upload** to complete the firmware upgrade.

Language Pack

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

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

Upload: Click **Upload** to complete the language pack upgrade.



Dynamic DNS

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

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

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

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

Username or

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

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

Timeout: Enter a timeout time (in hours).

Status: Displays the current connection status.

Enable DDNS for

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

IPv6 Address: Select your DDNS provider from the drop-down menu or enter the DDNS server address.

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

IPv6 DDNS List: Displays the list of active IPv6 Dynamic DNS addresses.

The screenshot shows the D-Link web interface for the DIR-868L router. The 'DYNAMIC DNS' tab is selected in the top navigation bar. The left sidebar contains a menu with options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS (selected), SYSTEM CHECK, and SCHEDULES. The main content area is titled 'DYNAMIC DNS' and contains the following sections:

- DYNAMIC DNS:** A text box explaining the feature and a link to 'Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com'. Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- DYNAMIC DNS SETTINGS:** A form with fields for 'Enable Dynamic DNS' (checkbox), 'Server Address', 'Host Name', 'Username or Key', 'Password or Key', 'Verify Password or Key', 'Timeout' (set to 567 hours), and 'Status' (Disconnected).
- DYNAMIC DNS FOR IPV6 HOSTS:** A form with an 'Enable' checkbox, 'IPv6 Address' (with a dropdown menu), 'Host Name' (with a dropdown menu), and 'Save'/'Clear' buttons.
- IPV6 DYNAMIC DNS LIST:** A table with columns 'Enable', 'Host Name', and 'IPv6 Address'. Below the table are 'Save Settings' and 'Don't Save Settings' buttons.

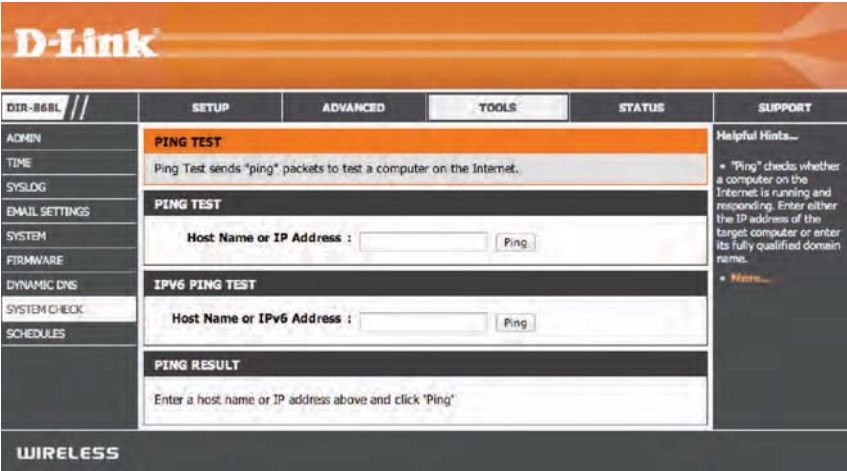
The bottom of the interface shows the 'WIRELESS' tab selected in the navigation bar.

System Check

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

IPv6 Ping Test: Enter the IPv6 address that you wish to Ping and click **Ping**.

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



Schedules

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

Name: Enter a name for your new schedule.

Days: Select a day, a range of days, or All Week to include every day.

All Day - 24 Hrs: Check **All Day - 24hrs** to schedule the entire day.

Time Format: Choose a 24 hour or 12 hour clock-style.

Start Time: Enter a start time for your schedule.

End Time: Enter an end time for your schedule.

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

D-Link

DIR-868L // SETUP ADVANCED **TOOLS** STATUS SUPPORT

SCHEDULES

The Schedule configuration option is used to manage schedule rules for "WAN", "Wireless", "Virtual Server", "Port Forwarding", "Applications" and "Network Filter".

10 - ADD SCHEDULE RULE

Name :

Day(s) : ☐ All Week ☒ Select Day(s)

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

All Day - 24 hrs : ☐

Time Format :

Start Time : : AM (hour:minute)

End Time : : PM (hour:minute)

SCHEDULE RULES LIST

Name	Day(s)	Time Frame

Helpful Hints...

- Schedules are used with a number of other features to define when those features are in effect.
- Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called "After School".
- Click **Add** to add a completed schedule to the list below.
- Click **Edit** icon to change an existing schedule.
- Click **Delete** icon to permanently delete a schedule.
- [More...](#)

WIRELESS

Status Device Info

This page displays the current information for the DAP-1750. It will display the LAN, WAN (Internet), and Wireless information. If your Internet connection is set up for a Dynamic IP address then a **Release** button and a **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP. If your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

General: Displays the router's time and firmware version.

WAN: Displays the MAC address and the public IP settings

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

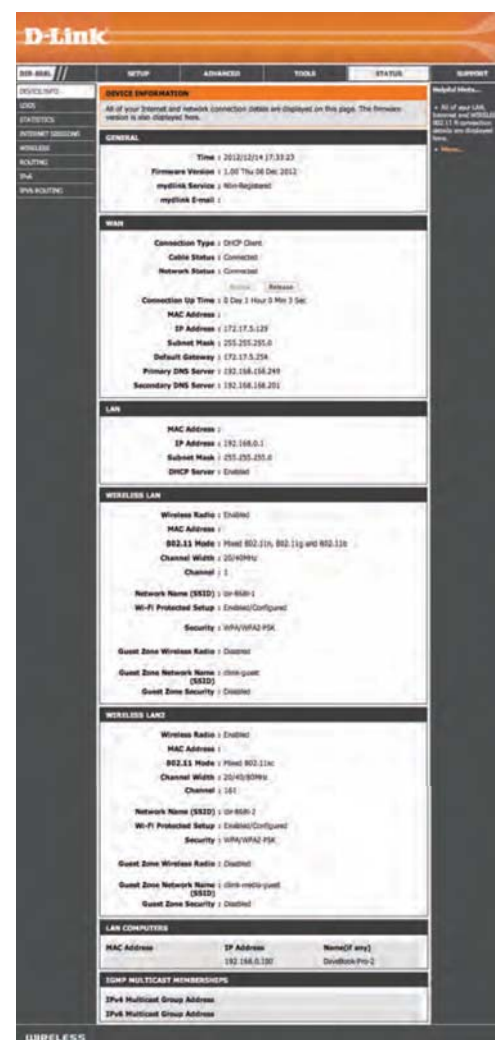
Wireless LAN1: Displays the 2.4GHz wireless MAC address and your wireless settings such as SSID and Channel.

Wireless LAN2: Displays the 5GHz wireless MAC address and your wireless settings such as SSID and Channel.

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

IGMP Multicast

Memberships: Displays the group address of any IGMP multicasts.



Logs

The router automatically logs (records) events of possible interest in its internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. The Logs option allows you to view the router logs. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

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

Refresh: Updates the log details on the screen so it displays any recent activity.

First Page: Click to go to the first page.

Last Page: Click to go to the last page.

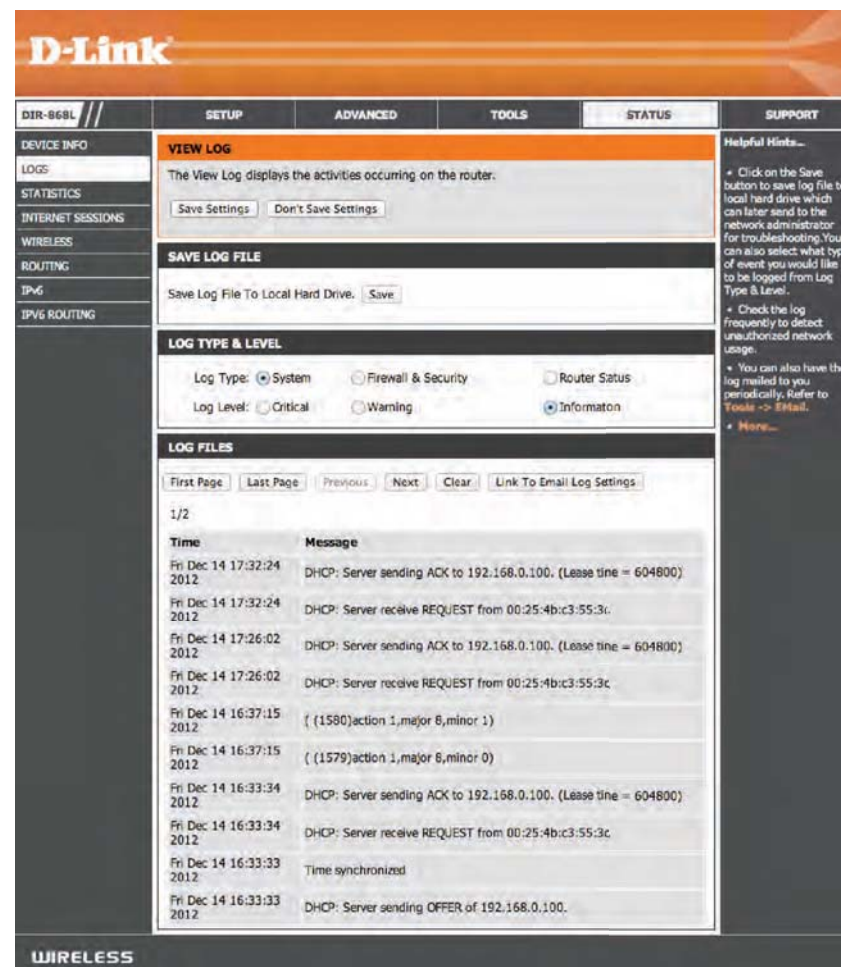
Previous: Click to go back one page.

Next: Click to go to the next page.

Clear: Clears all of the log contents.

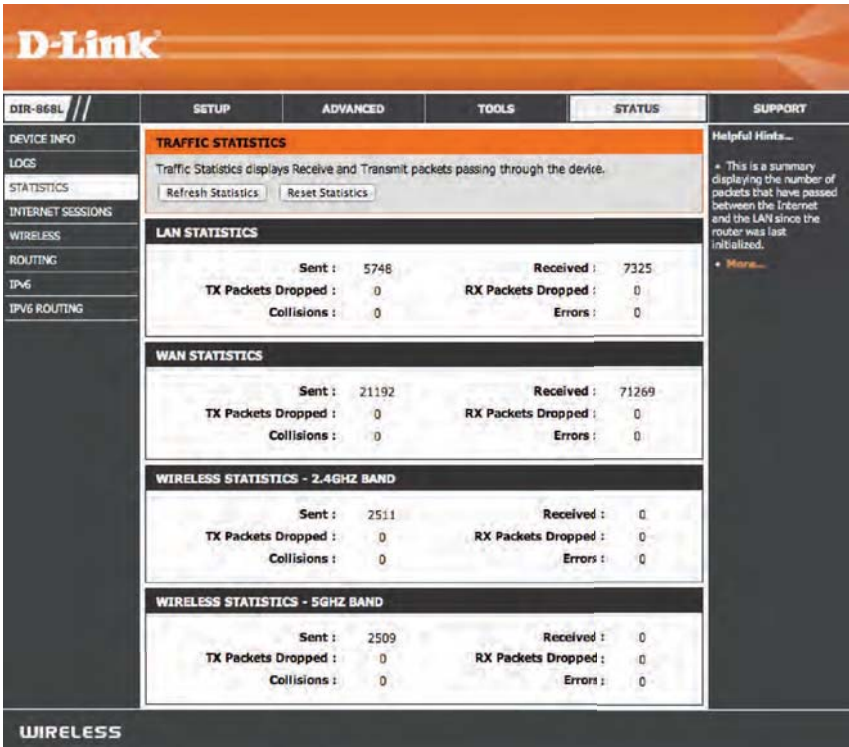
Email Now: This option will send a copy of the router log to your email address configured in the **Tools > Email Settings** screen.

Save Log: This option will save the router log to a file on your computer.



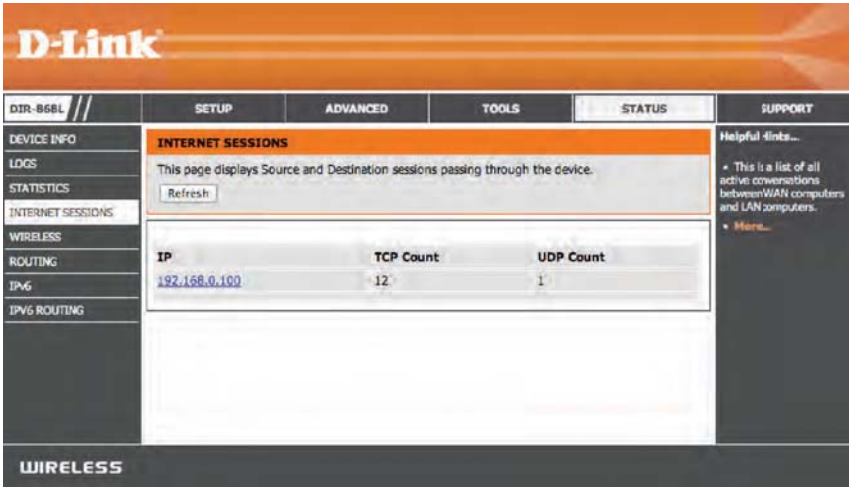
Statistics

The screen below displays the **Traffic Statistics**. Here you can view the amount of packets that pass through thDAP-1750L on both the WAN, LAN ports and the wireless segments. The traffic counter will reset if the device is rebooted.



Internet Sessions

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



Routing

This page will display your current routing table.

D-Link

DIR-868L

SETUPADVANCEDTOOLSSTATUSSUPPORT

DEVICE INFOLOGSSTATISTICSINTERNET SESSIONS

ROUTINGIPV6IPV6 ROUTING

ROUTING

ROUTING TABLE

Destination	Gateway	Genmask	Metric	Iface	Creator
192.168.7.0	0.0.0.0	255.255.255.0	0	LAN	SYSTEM
192.168.0.0	0.0.0.0	255.255.255.0	0	LAN	SYSTEM
172.17.5.0	0.0.0.0	255.255.255.0	0	INTERNET	SYSTEM
239.0.0.0	0.0.0.0	255.0.0.0	0	LAN	SYSTEM
0.0.0.0	172.17.5.254	255.255.255.255	100	INTERNET	SYSTEM

Helpful Hints...

- This is a list of all routing rules on router.
- More...

WIRELESS

Wireless

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



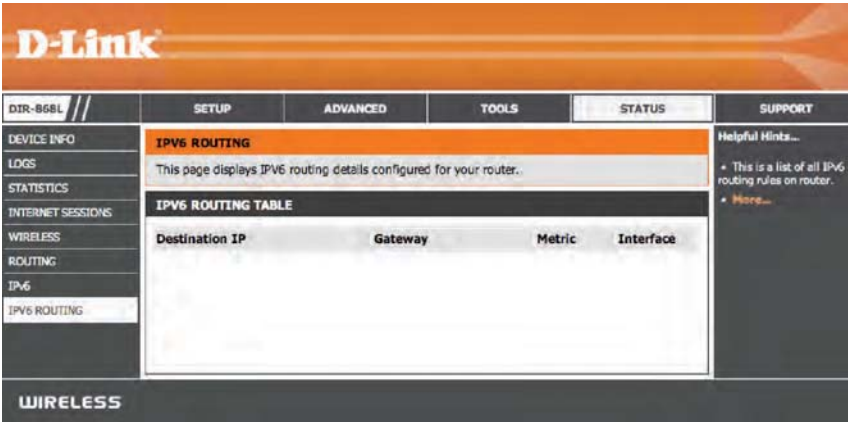
IPv6

The IPv6 page displays a summary of the Router’s IPv6 settings and lists the IPv6 address and host name of any IPv6 clients.



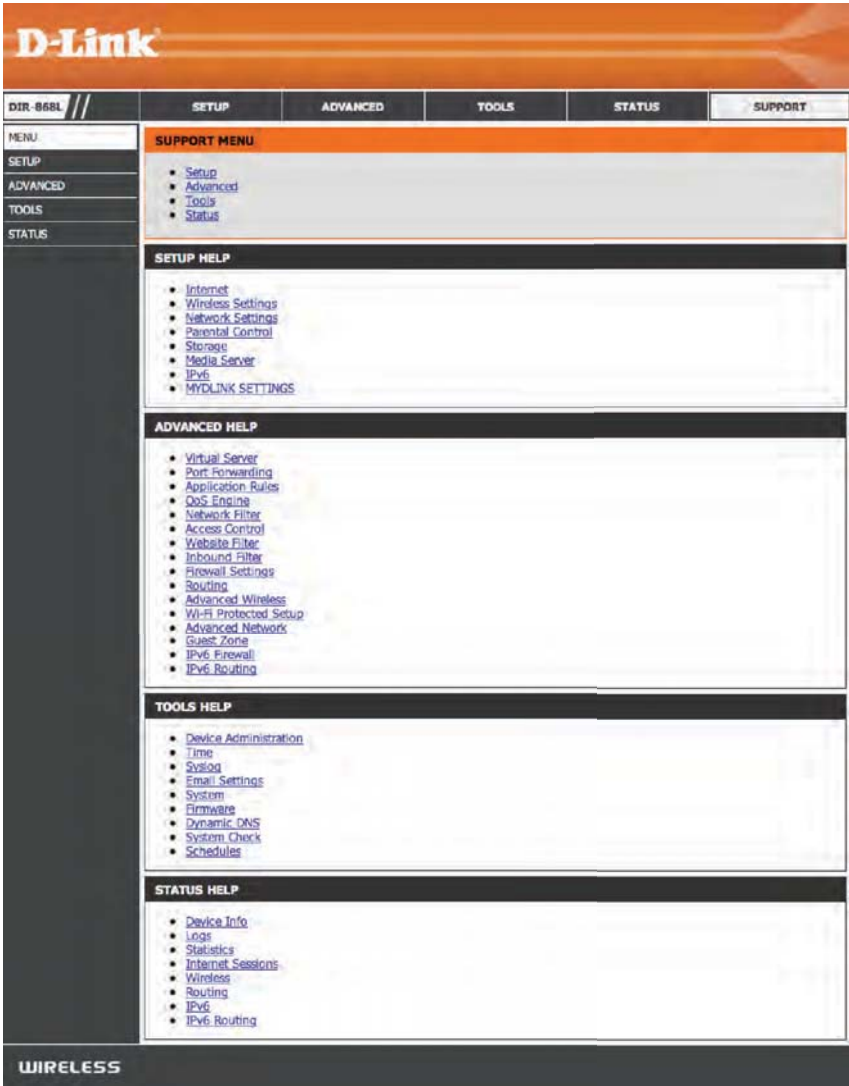
IPv6 Routing

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



Support

The Support pages let you jump to descriptions of the settings and their functions.



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 DAP-1750 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 DAP-1750 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® 7

WPA/WPA2

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

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



Wireless Icon

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

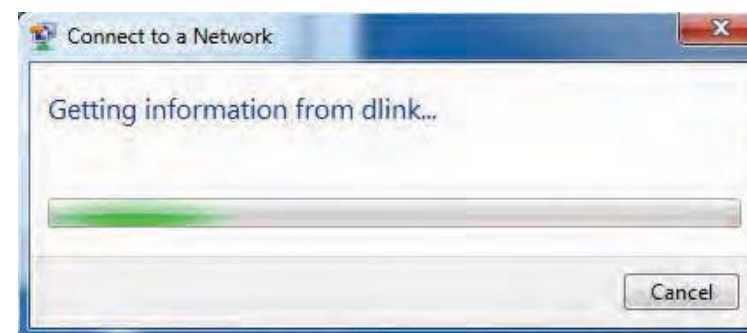


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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.



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.

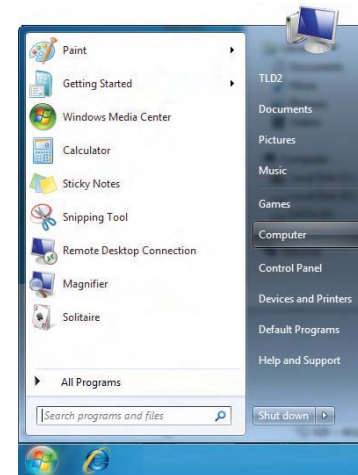
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



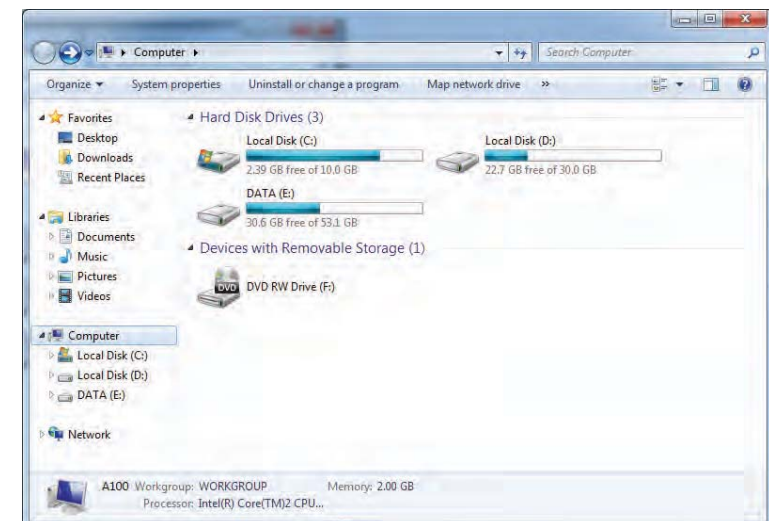
WPS

The WPS feature of the DAP-1750 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

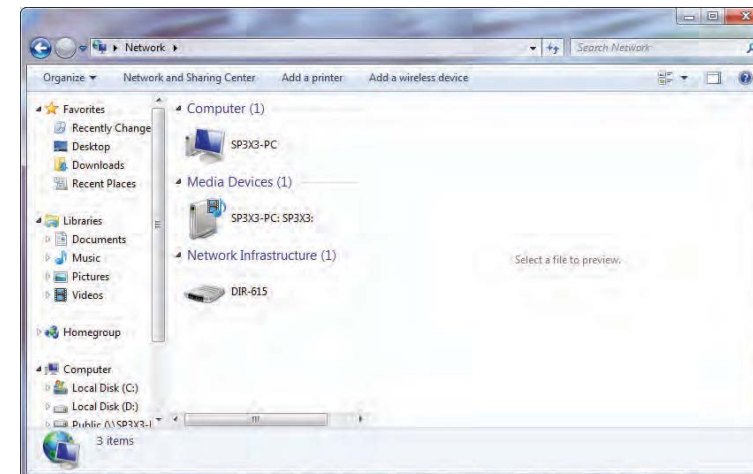
1. Click the **Start** button and select **Computer** from the Start menu.



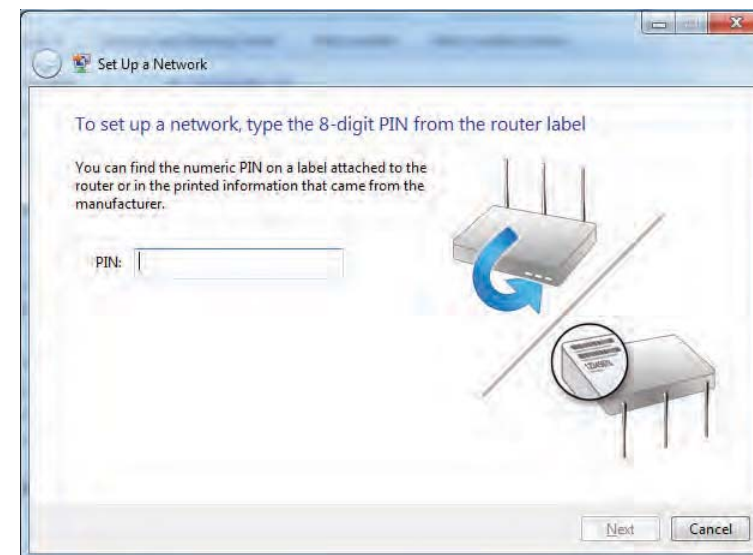
2. Click **Network** on the left side.



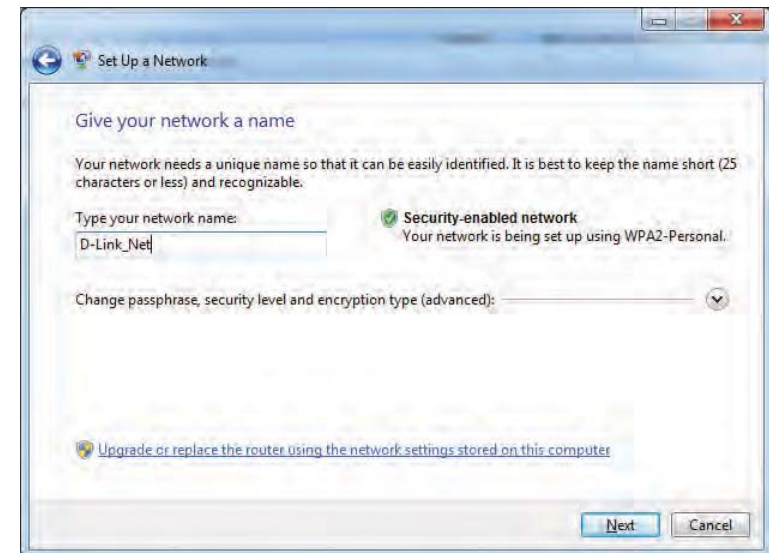
3. Double-click the DAP-1750



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

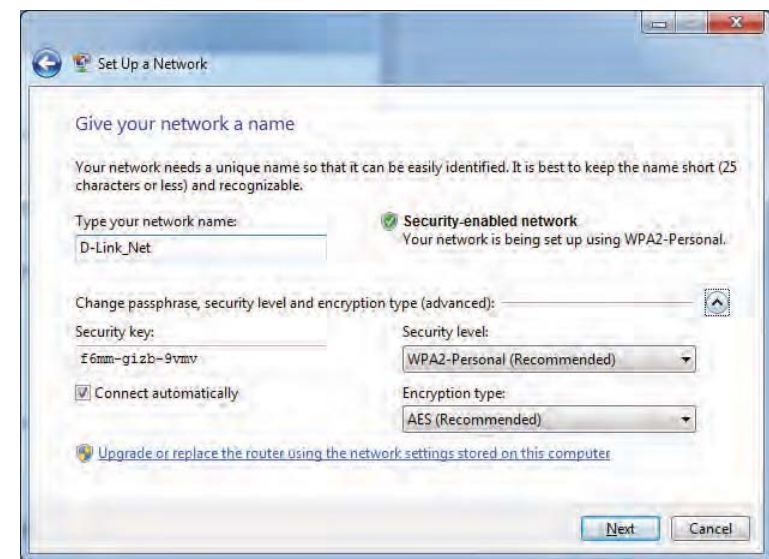


5. Type a name to identify the network.



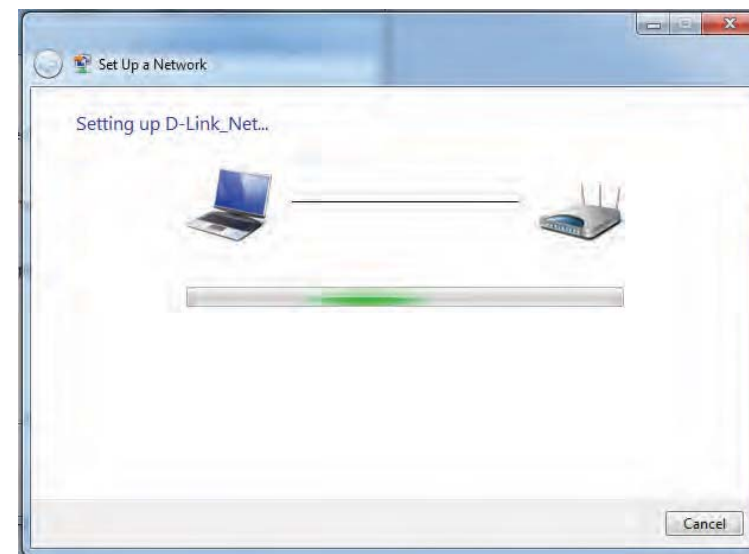
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

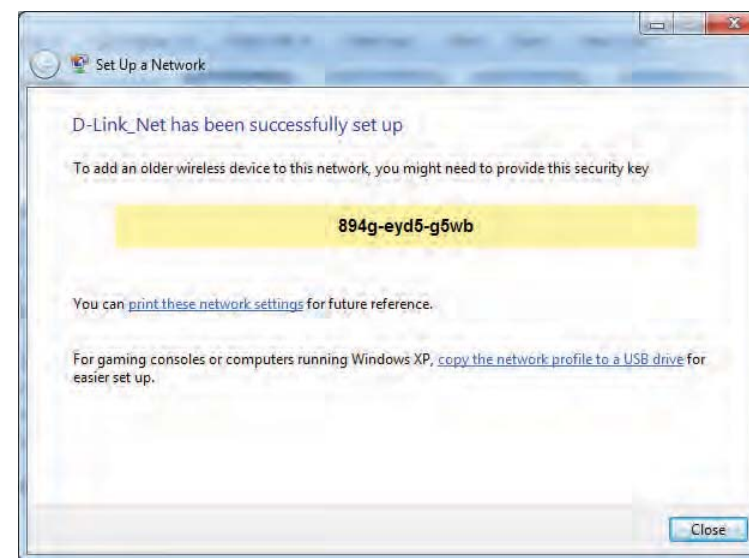
Wait for the configuration to complete.



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

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

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



Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

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

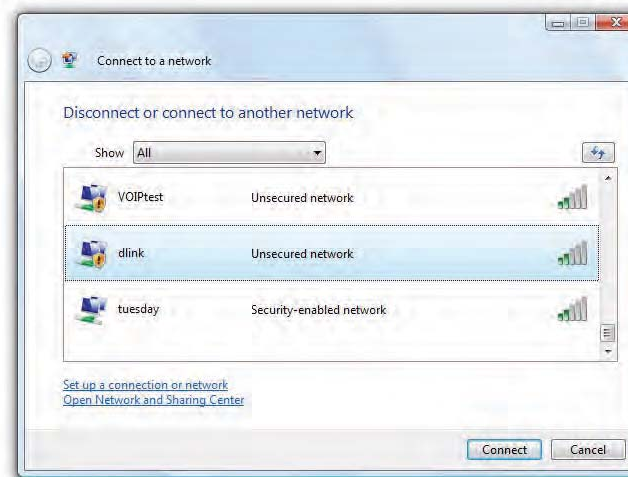
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.



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

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



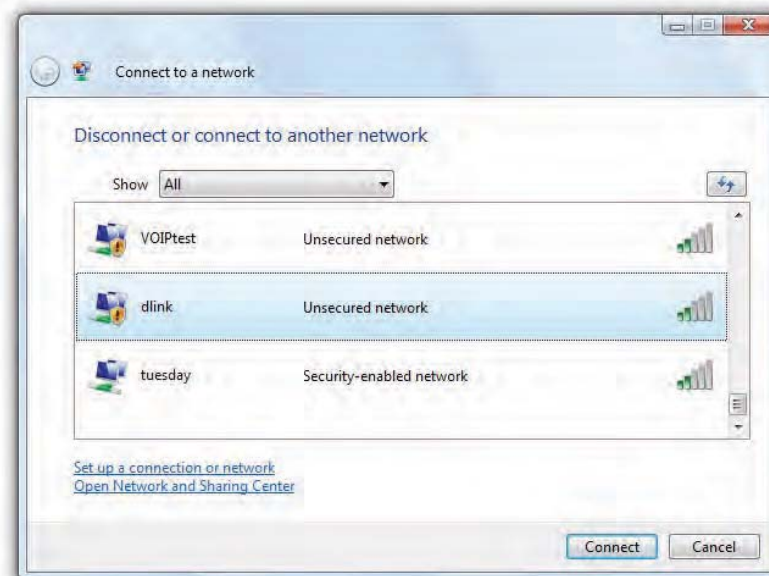
WPA/WPA2

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

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.

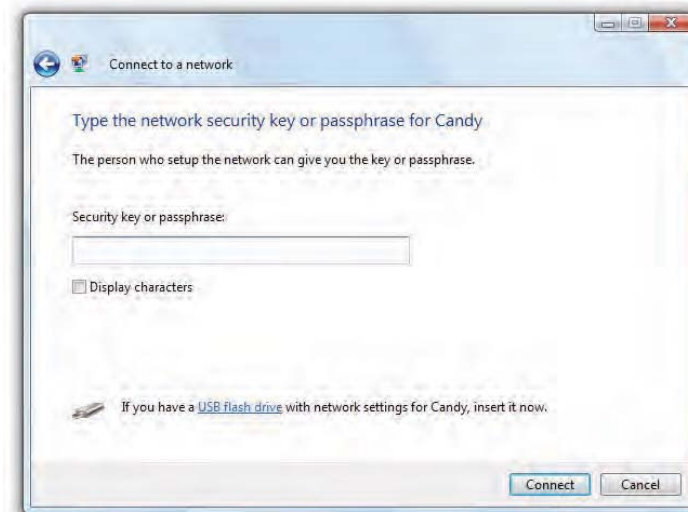


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



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.

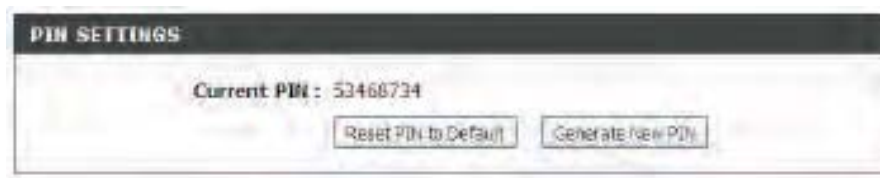


WPS/WCN 2.0

The router supports Wi-Fi protection, referred to as WCN 2.0 in Windows Vista®. The following instructions for setting this up depends on whether you are using Windows Vista® to configure the router or third party software.

When you first set up the router, Wi-Fi protection is disabled and unconfigured. To enjoy the benefits of Wi-Fi protection, the router must be both enabled and configured. There are three basic methods to accomplish this: use Windows Vista's built-in support for WCN 2.0, use software provided by a third party, or manually configure.

If you are running Windows Vista®, log into the router and click the **Enable** checkbox in the **Basic > Wireless** section. Use the Current PIN that is displayed on the **Advanced > Wi-Fi Protected Setup** section or choose to click the **Generate New PIN** button or **Reset PIN to Default** button.



If you are using third party software to set up Wi-Fi Protection, carefully follow the directions. When you are finished, proceed to the next section to set up the newly-configured router.

Windows® XP

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

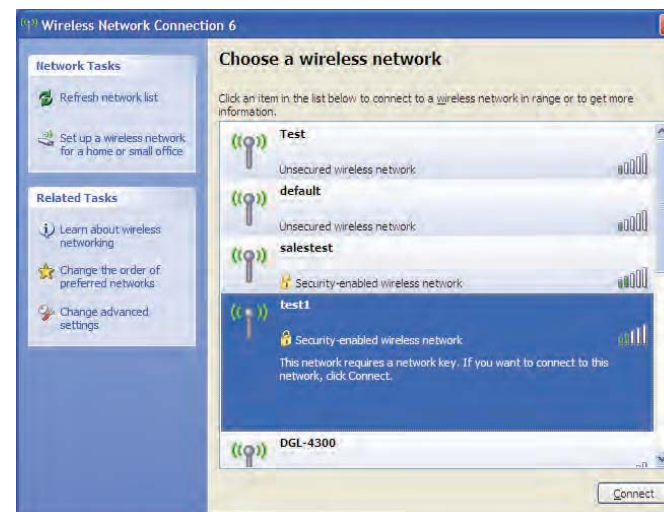
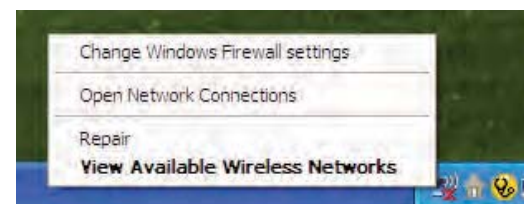
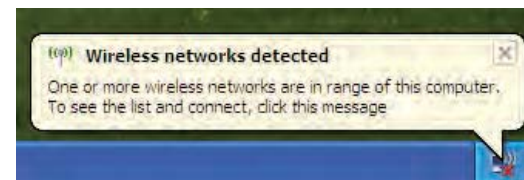
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

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

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

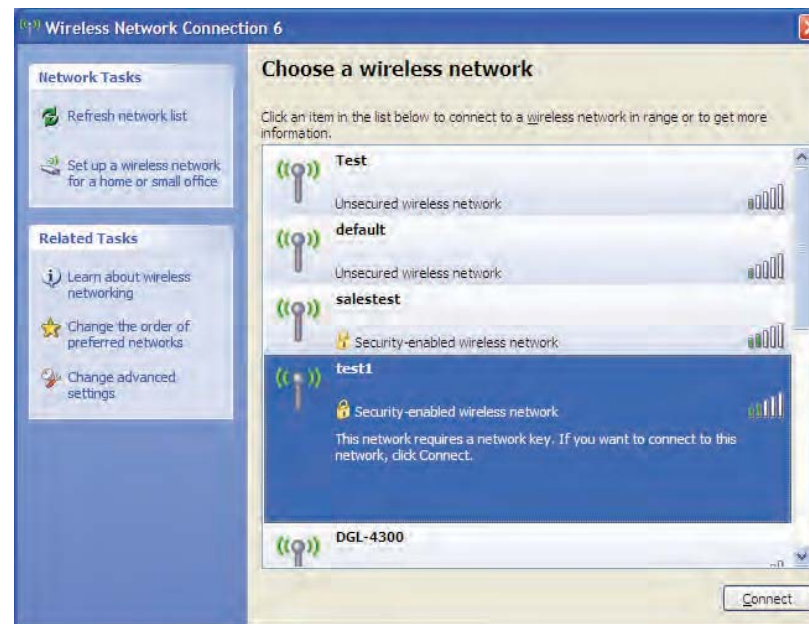
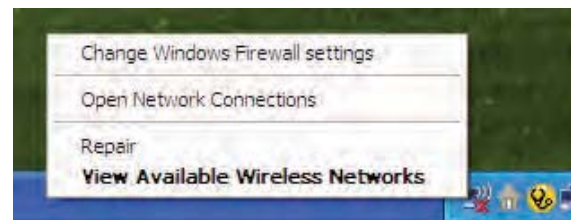
If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

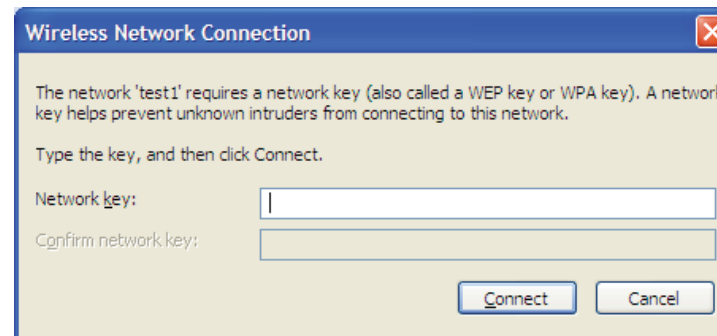
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

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



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.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-1750. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.

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

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

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

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

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

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

To reset the router, locate the reset button (hole) on the 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® 95, 98, and Me users type in **command** (Windows® NT, 2000, XP, Vista®, and 7 users type in **cmd**) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

ping [url] [-f] [-l] [MTU value]

Example: **ping yahoo.com -f -l 1472**

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

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

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

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

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

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

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

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

C:\>
```

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

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

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

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

Wireless Basics

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

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

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

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

What is Wireless?

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

Why D-Link Wireless?

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

How does wireless work?

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

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home

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

Small Office and Home Office

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

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

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 DAP-1750 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

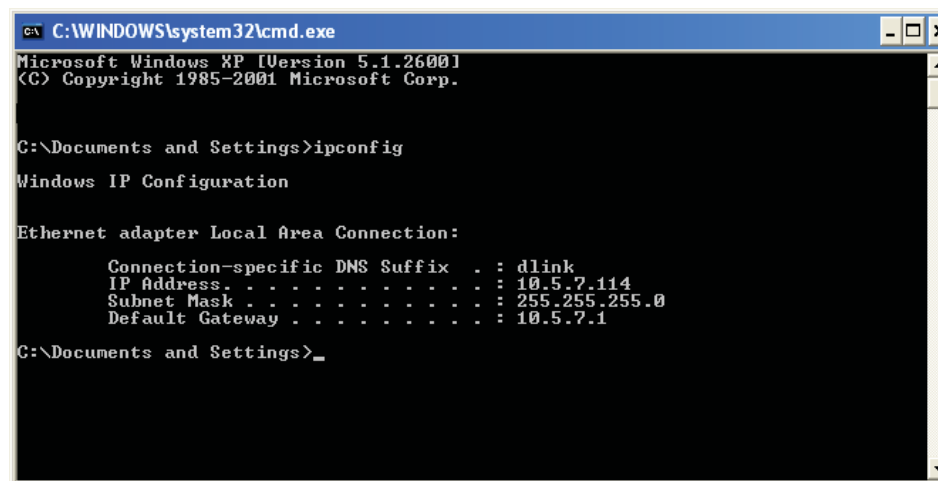
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

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

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

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



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

C:\Documents and Settings>
```

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

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

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

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

Step 2

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

Step 3

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

Step 4

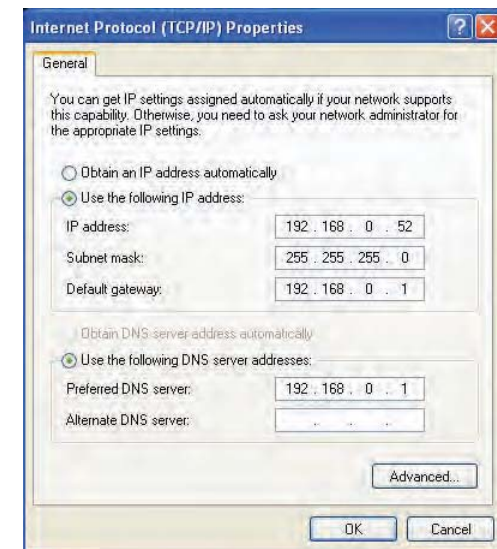
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, 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.



Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DAP-1750 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
- USB 3.0 port

Antenna Types

- Six internal antennas

Standards

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

Security

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

Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 2.0 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)

1Maximum 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.

2 Frequency Range varies depending on country's regulation.

3 The DAP-1750 does not include 5.25-5.35GHz & 5.47-5.725GHz in some regions.

Federal Communication Commission Interference Statement

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.

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

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

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.

Note: The country code selection is for non-US model only and is not available to all US model.

Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

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 24cm 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 24 cm de distance entre la source de rayonnement et votre corps.

"This unit is to be used with a power supply, Model AMS3-1202500FU,AMS3-1202500FV,AMS3-1202500FB,
WA-30B12,AMS115-12000FU,AMS115-12000FB,AMS115-12000FV, WA-24Q12R."

Avertissement: Cet appareil doit etre utilise avec une source de courant,modele AMS3-1202500FU,
AMS3-1202500FV,AMS3-1202500FB,WA-30B12,AMS115-12000FU,AMS115-12000FB,AMS115-12000FV, WA-24Q12R.