D-Link®

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User Manual

amplifi™ | Cloud Router 5700

DIR-865L

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	June 28, 2012	• Initial release for Revision A1

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Table of Contents

Preface i
Manual Revisions i
Trademarks i

Product Overview 1
Package Contents 1
System Requirements 2
Introduction 3
Features 4
Hardware Overview 5
Connections 5
LEDs 6

Installation 7
Before you Begin 7
Wireless Installation Considerations 8
Manual Setup 9
Connect to an Existing Router 11

Configuration 13
Quick Setup Wizard 14
QRS Mobile App 21
SharePort Mobile App 22
Web-based Configuration Utility 26
Internet Connection Setup 27
Static (assigned by ISP) 28
Dynamic (Cable) 29
PPPoE (DSL) 30
PPTP 31
L2TP 33
DS-Lite 35
Wireless Settings 36
Wireless Connection Setup Wizard 37
Add Wireless Device with WPS Wizard 39
Manual Wireless Settings 41
802.11n/g (2.4GHz) 41
802.11ac/n/a (5GHz) 42
Wireless Bridge Mode 43
Wireless Security 46
What is WPA? 46
WPA/WPA2-Personal (PSK) 47
Configure WPA/WPA2-Enterprise (RADIUS) 48
Network Settings 50
Router Settings 50
DHCP Server Settings 51
DHCP Reservation 53
Parental Control 54
Storage 55
Access Files from the Internet 56
IPv6 57
IPv6 Internet Connection Setup Wizard 58
IPv6 Manual Setup 63
Auto Detection 63

Static IPv6 64
Autoconfiguration 65
PPPoE.....66
IPv6 in IPv4 Tunneling 68
6 to 4 Tunneling.....69
6rd 70
Link-Local Connectivity 71
mydlink Settings 72
Advanced.....73
Virtual Server.....73
Port Forwarding 74
Application Rules.....75
QoS Engine.....76
Network Filters.....78
Access Control.....79
Access Control Wizard 79
Website Filters.....82
Inbound Filters.....83
Firewall Settings.....84
Routing.....86
Advanced Wireless 87
Wi-Fi Protected Setup (WPS) 88
WPS Button 89
Advanced Network Settings.....90
DLNA Settings.....91
iTunes Server.....92
Guest Zone.....93
IPv6 Firewall.....94
IPv6 Routing 95
Tools 96
Admin.....96
Time 97
SysLog 98
Email Settings.....99
System 100
Firmware 101
Language Pack.....101
Dynamic DNS 102
System Check.....103
Schedules 104
Status 105
Device Info 105
Logs.....106
Statistics 107
Internet Sessions.....108
Wireless.....109
Routing.....110
IPv6 111
IPV6 Routing.....112
Support 113
Connect a Wireless Client to your Router 114
WPS Button.....114
Windows® 7.....115
WPA/WPA2 115
WPS.....118

Windows Vista®.. 122
WPA/WPA2 123
WPS/WCN 2.0 125
Windows® XP.. 126
WPA/WPA2 127

Troubleshooting 129

Wireless Basics 133
What is Wireless?.. 134
Tips.. 136
Wireless Modes.. 137

Networking Basics 138
Check your IP address.. 138
Statically Assign an IP address.. 139

Technical Specifications 140

Contacting Technical Support 142

GPL Code Statement..143

Warranty..155

Registration 162

Package Contents

DIR-865L Amplifi Cloud Router 5700

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 DIR-865L will cause damage and void the warranty for this product.*

System Requirements

Network Requirements	• An Ethernet-based broadband modem • IEEE 802.11n/g (2.4GH) wireless clients • IEEE 802.11ac/n/a (5GHz) wireless clients • 10/100/1000 Ethernet
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® Cloud Router 5700 (DIR-865L) provides revolutionary Gigabit 802.11ac wireless speed - up to 1,350Mbps – for flawless HD video streaming to multiple devices.

With ground-breaking mydlink Cloud Services, you can monitor your home network from anywhere on your iPhone, iPad and Android device. See websites that are being visited, block unwanted devices and receive automatic email alerts when unauthorized connections are attempted.

With SharePort Mobile, wirelessly access your media on your iPhone, iPad or Android device from any connected USB drive. Best of all, the apps for network management and file access are free.

The Cloud Router 5700 is Wireless N compatible with all of your wireless products up to 450Mbps speed and boasts a high-powered amplifier to ensure wall-to-wall coverage.

Features

Easy media sharing:
Wirelessly access videos, music and photos on your iPad, iPhone or Android device from any connected USB drive with SharePort Mobile

Wireless N450 peformance 2.4GHz band:
Compatible with all your devices

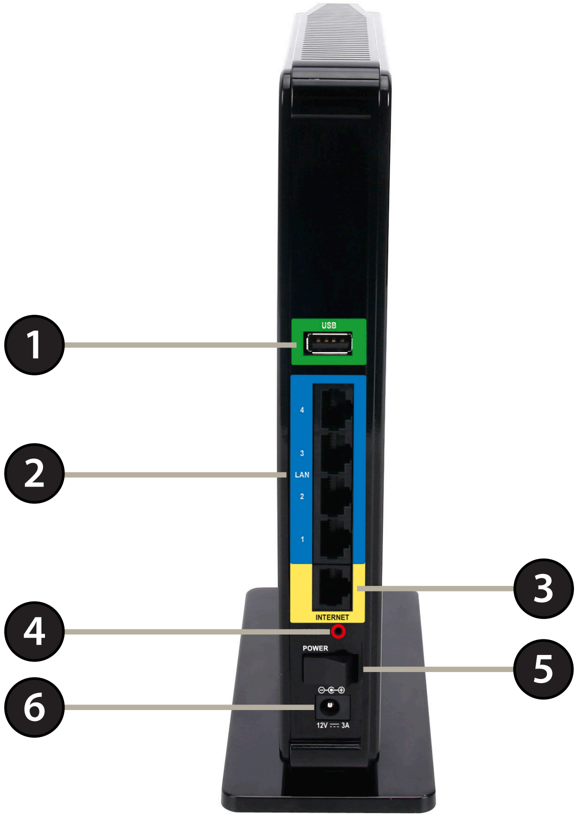
Total security:
Complete set of security features including an SPI firewall and WPA2 to protect your network against intruders

Easy configuration:
Easy Setup Wizard and Wi-Fi Protected Setup™ (WPS) for easy configuration and addition of new devices

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

Hardware Overview

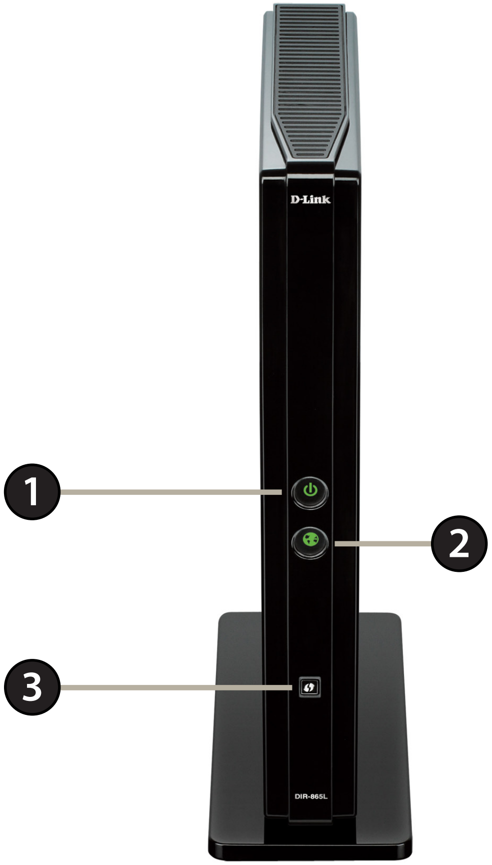
Connections



1	USB Port	Connect a USB flash drive to share content throughout your network.
2	LAN Ports (1-4)	Connect 10/100/1000 Ethernet devices such as computers, switches, storage (NAS) devices and game consoles.
3	Internet Port	Using an Ethernet cable, connect your broadband modem to this port.
4	Reset Button	Press and hold for 6 seconds to reset the device back to the default factory settings.
5	Power Button	Press the power button to power on and off.
6	Power Receptor	Receptor for the supplied power adapter.

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 blink orange during boot up.
2	Internet LED	A solid light indicates a good connection on the Internet port and to the Internet. If the LED is orange, the connection is good but the router cannot connect to the Internet.
3	WPS Button	Press to start the WPS process. The Power LED will blink during this process.

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.

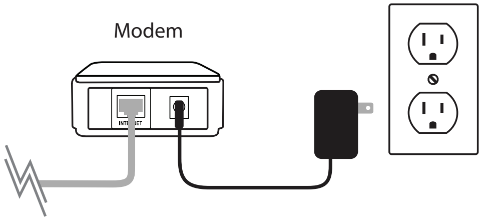
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, 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 in not in use.

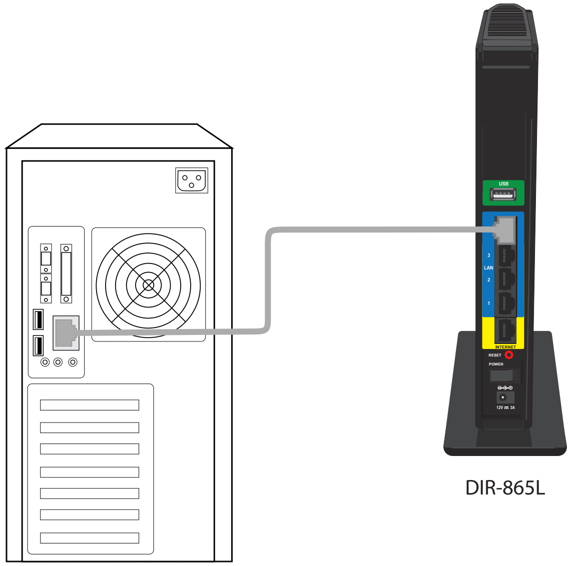
Manual Setup

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

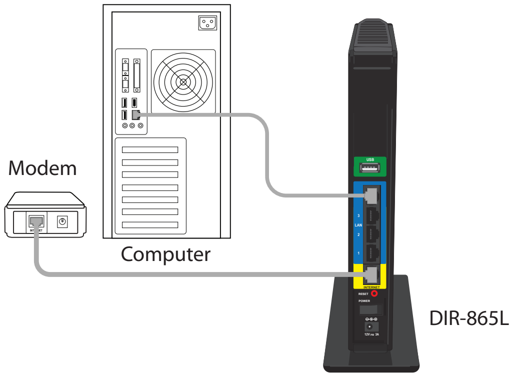


2. Position your router close to your modem and a computer. Place the router in an open area of your intended work area for better wireless coverage.

3. Unplug the Ethernet cable from your modem (or existing router if upgrading) that is connected to your computer. Plug it into the LAN port labeled **1** on the back of your router. The router is now connected to your computer.

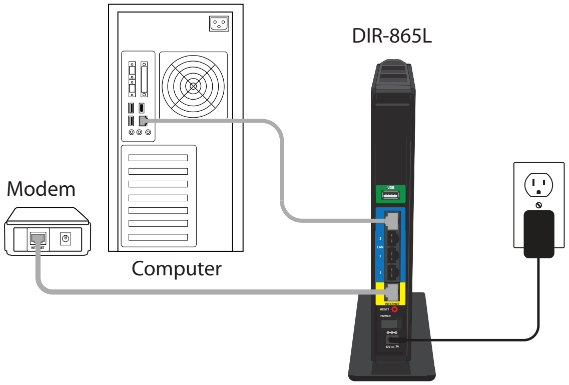


4. Plug one end of the included blue Ethernet cable that came with your router into the yellow port labeled INTERNET on the back of the router. Plug the other end of this cable into the Ethernet port on your modem.



5. Reconnect the power adapter to your cable or DSL broadband modem and wait for two minutes.

6. Connect the supplied power adapter into the power port on the back of the router and then plug it into a power outlet or surge protector. Press the power button and verify that the power LED is lit. Allow 1 minute for the router to boot up.



7. If you are connecting to a Broadband service that uses a dynamic connection (not PPPoE), you may be online already. Try opening a web browser and enter a web site. If you connect, you are finished with your Internet setup. Please skip to page 13 to configure your router and use the manual setup procedure to configure your network and wireless settings. If you did not connect to the Internet, use the D-Link Setup Wizard (refer to page 14).

Connect to an Existing Router

Note: *It is strongly recommended to replace your existing router with the DIR-865L instead of using both. If your modem is a combo router, you may want to contact your ISP or manufacturer's user guide to put the router into Bridge mode, which will 'turn off' the router (NAT) functions.*

If you are connecting the DIR-865L router to an existing router to use as a wireless access point and/or switch, you will have to do the following to the DIR-865L before connecting it to your network:

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

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

1. Plug the power into the router. Connect one of your computers to the router (LAN port) using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the **Networking Basics** section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.

2. Open a web browser, enter **http://192.168.0.1** (or **http://dlinkrouter.local**) and press **Enter**. When the login window appears, set the user name to **Admin** and leave the password box empty. Click **Log In** to continue.

3. Click on **Advanced** and then click **Advanced Network**. Uncheck the **Enable UPnP** checkbox. Click **Save Settings** to continue.

4. Click **Setup** and then click **Network Settings**. Uncheck the **Enable DHCP Server** checkbox. Click **Save Settings** to continue.

5. Under Router Settings, enter an available IP address and the subnet mask of your network. Click **Save Settings** to save your settings. Use this new IP address to access the configuration utility of the router in the future. Close the browser and change your computer's IP settings back to the original values as in Step 1.

6. Disconnect the Ethernet cable from the router and reconnect your computer to your network.

7. Connect an Ethernet cable in one of the **LAN** ports of the router and connect it to your other router. Do not plug anything into the Internet (WAN) port of the D-Link router.

8. You may now use the other 3 LAN ports to connect other Ethernet devices and computers. To configure your wireless network, open a web browser and enter the IP address you assigned to the router. Refer to the **Configuration** and **Wireless Security** sections for more information on setting up your wireless network.

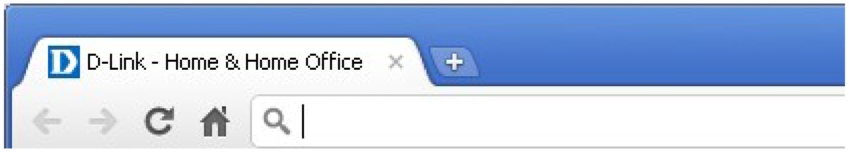
Configuration

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

- **QRS Mobile App** - Use your iPhone, iPad, or iPod Touch to configure your router. Refer to page 21
- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time. Refer to page 14.
- **Manual Setup** - Log into the router and manually configure your router (advanced users only). Refer to page 26.

Quick Setup Wizard

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

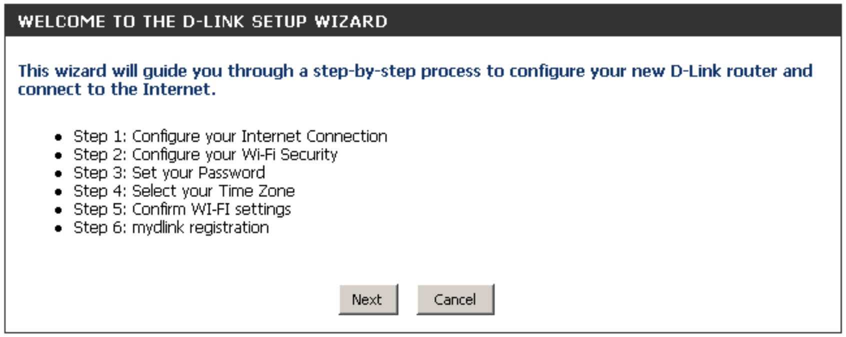


If you have already configured your settings and you would like to access the configuration utility, please refer to page 26.

If this is your first time logging into the router, this wizard will start automatically.

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

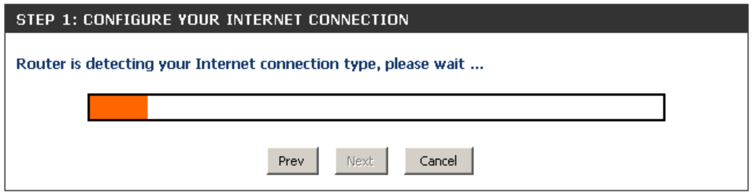
Click **Next** to continue.


WELCOME TO THE D-LINK SETUP WIZARD

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

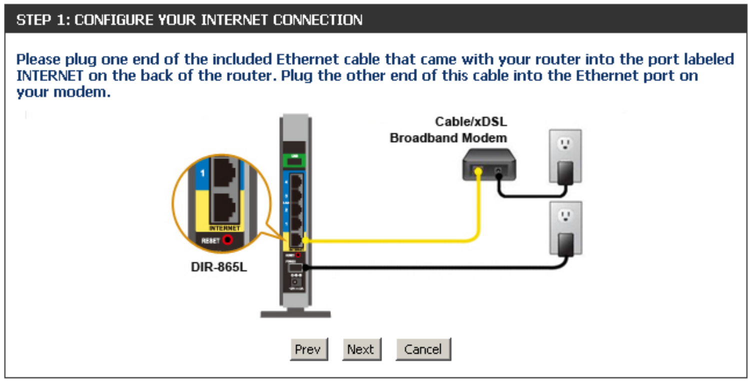
- Step 1: Configure your Internet Connection
- Step 2: Configure your Wi-Fi Security
- Step 3: Set your Password
- Step 4: Select your Time Zone
- Step 5: Confirm WI-FI settings
- Step 6: mydlink registration

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.


STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Router is detecting your Internet connection type, please wait ...

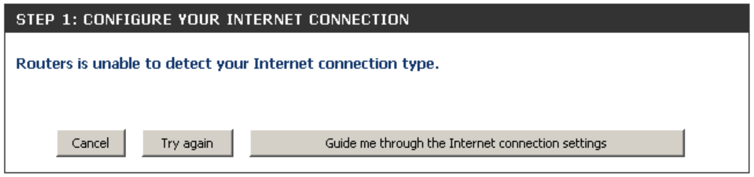
If the router does not detect a valid Ethernet connection from the Internet port, this screen will appear. Connect your broadband modem to the Internet port and then click **Try Again**.



STEP 1: CONFIGURE YOUR INTERNET CONNECTION

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

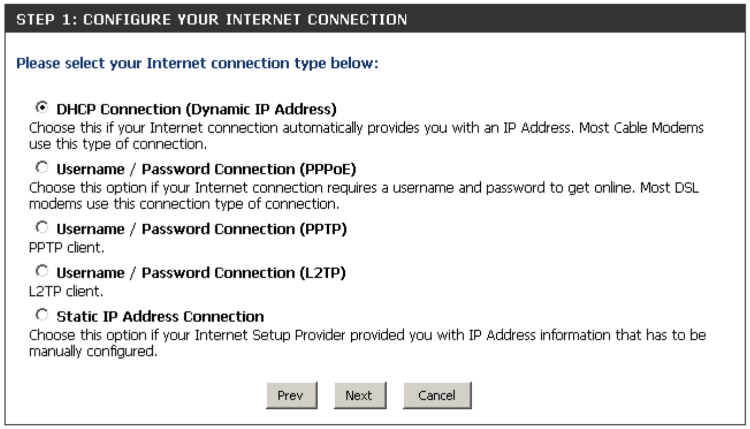
If the router detects an Ethernet connection but does not detect the type of Internet connection you have, this screen will appear. Click **Guide me through the Internet Connection Settings** to display a list of connection types to choose from.



STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Routers is unable to detect your Internet connection type.

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



STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Please select your Internet connection type below:

● **DHCP Connection (Dynamic IP Address)**
Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.

○ **Username / Password Connection (PPPoE)**
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this connection type of connection.

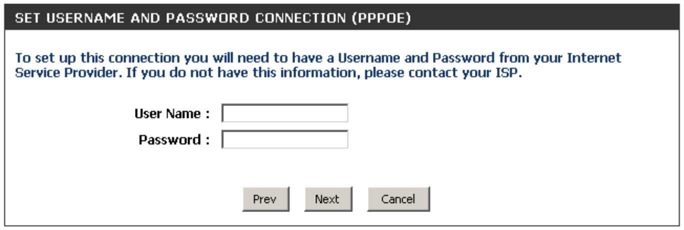
○ **Username / Password Connection (PPTP)**
PPTP client.

○ **Username / Password Connection (L2TP)**
L2TP client.

○ **Static IP Address Connection**
Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

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.*



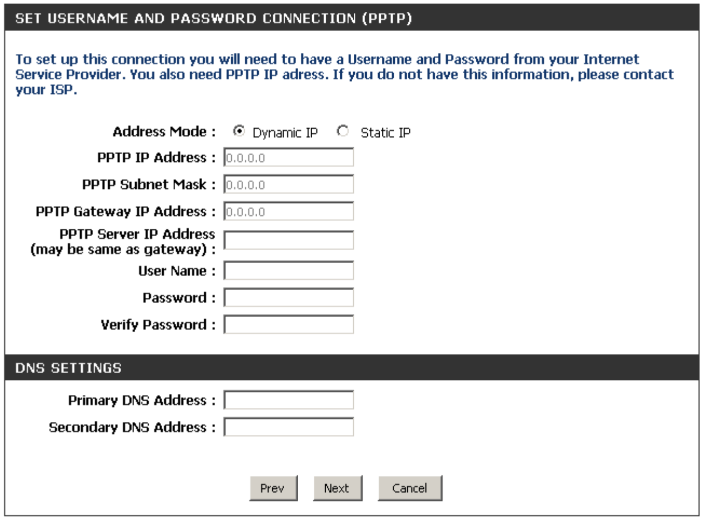
SET USERNAME AND PASSWORD CONNECTION (PPPOE)

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 :

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



SET USERNAME AND PASSWORD CONNECTION (PPTP)

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

Address Mode : ● Dynamic IP ○ Static IP

PPTP IP Address : 0.0.0.0

PPTP Subnet Mask : 0.0.0.0

PPTP Gateway IP Address : 0.0.0.0

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

User Name :

Password :

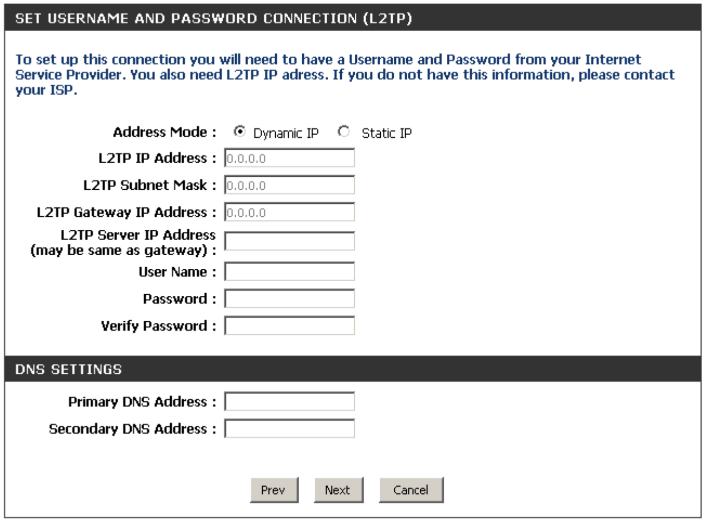
Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

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



SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

Address Mode : ● Dynamic IP ○ Static IP

L2TP IP Address : 0.0.0.0

L2TP Subnet Mask : 0.0.0.0

L2TP Gateway IP Address : 0.0.0.0

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

User Name :

Password :

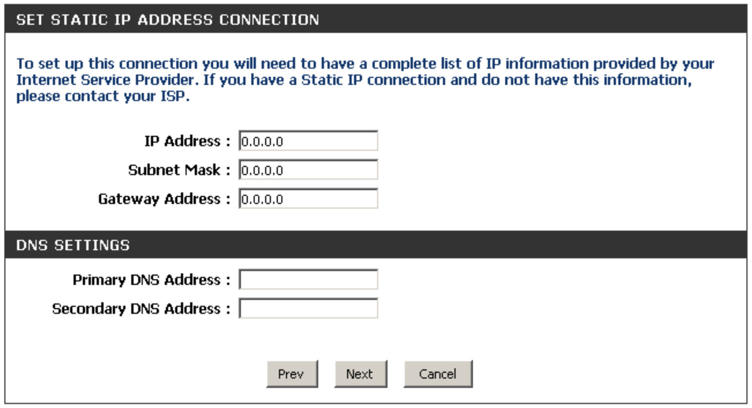
Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

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



SET STATIC IP ADDRESS CONNECTION

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

IP Address : 0.0.0.0

Subnet Mask : 0.0.0.0

Gateway Address : 0.0.0.0

DNS SETTINGS

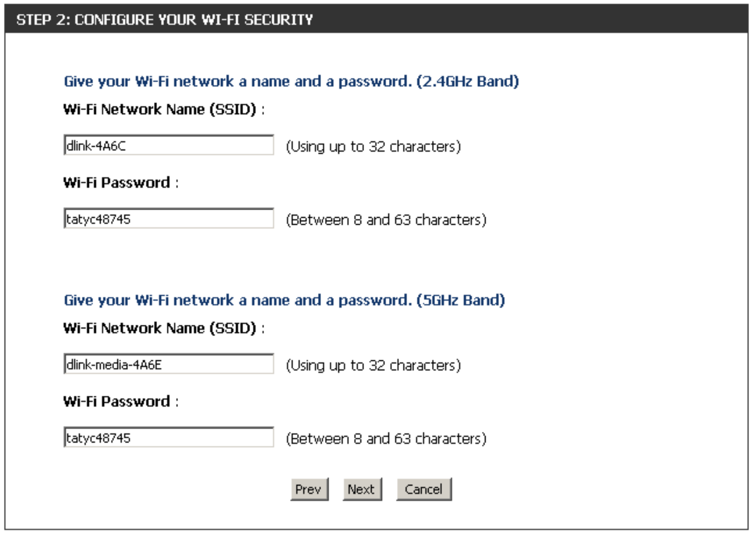
Primary DNS Address :

Secondary DNS Address :

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

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

Click **Next** to continue.



STEP 2: CONFIGURE YOUR WI-FI SECURITY

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

Wi-Fi Network Name (SSID) :

dlink-4A6C (Using up to 32 characters)

Wi-Fi Password :

tatyc48745 (Between 8 and 63 characters)

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

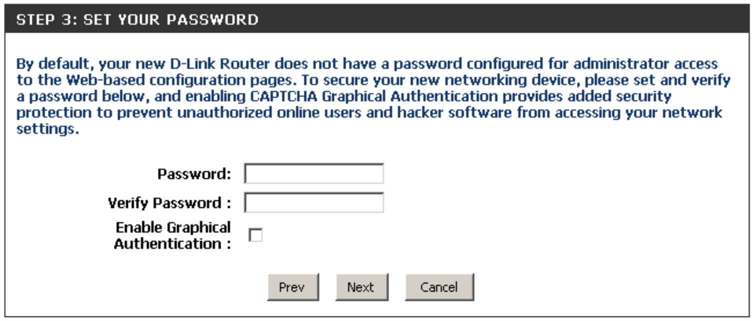
Wi-Fi Network Name (SSID) :

dlink-media-4A6E (Using up to 32 characters)

Wi-Fi Password :

tatyc48745 (Between 8 and 63 characters)

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

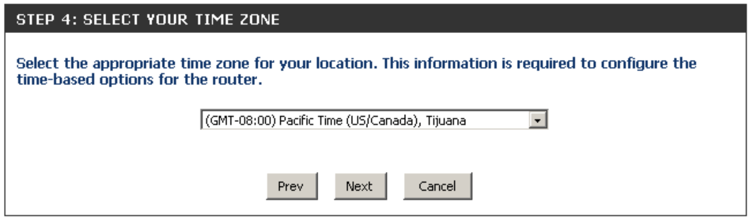
By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below, and enabling CAPTCHA Graphical Authentication provides added security protection to prevent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

Password:

Verify Password :

Enable Graphical Authentication : □

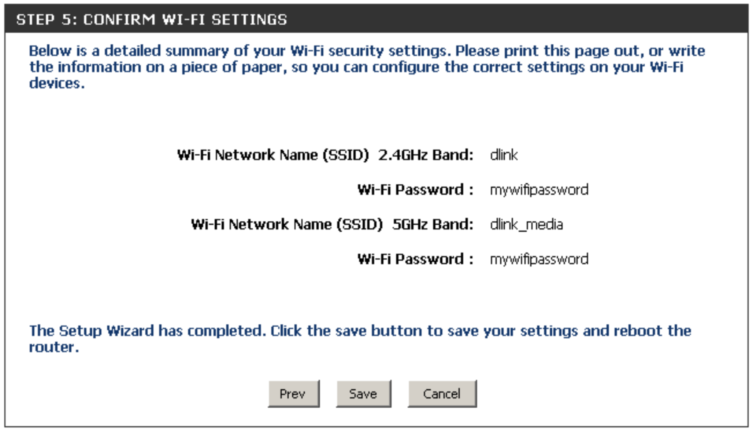
Select your time zone from the drop-down menu and click **Next** to continue.


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

The Setup Complete window will display your wireless 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

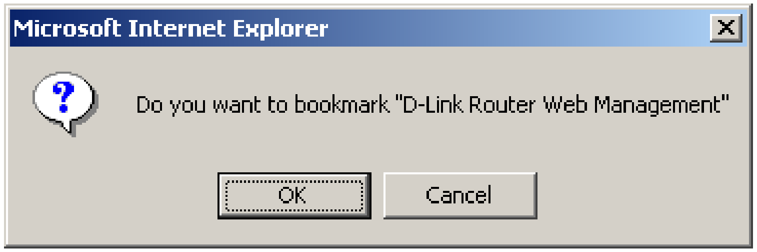
Wi-Fi Password : mywifipassword

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

Wi-Fi Password : mywifipassword

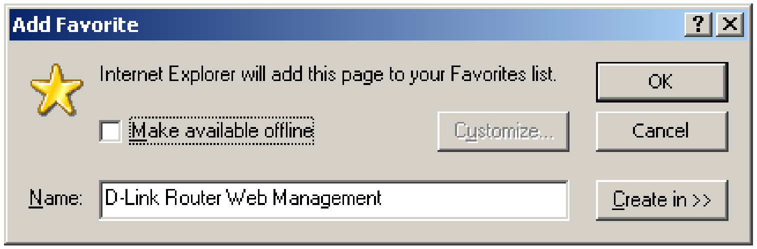
The Setup Wizard has completed. Click the save button to save your settings and reboot the router.

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"

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


Add Favorite

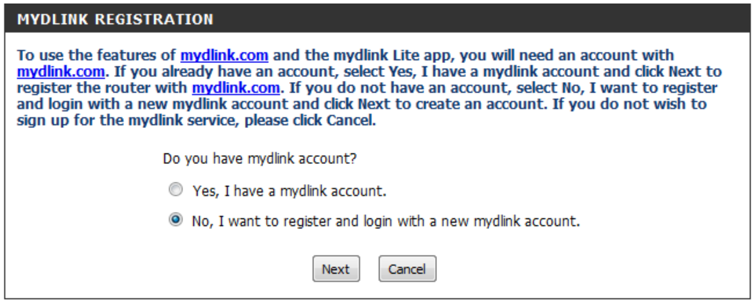
Internet Explorer will add this page to your Favorites list.

□ Make available offline

Name: D-Link Router Web Management

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

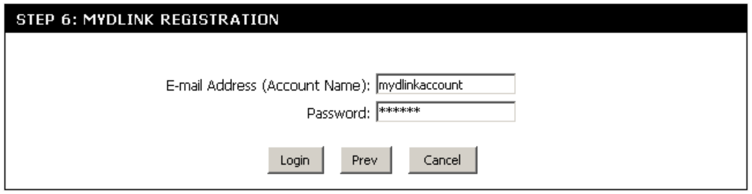
To use the features of mydlink.com and the mydlink Lite app, you will need an account with mydlink.com. If you already have an account, select Yes, I have a mydlink account and click Next to register the router with mydlink.com. If you do not have an account, select No, I want to register and login with 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.

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

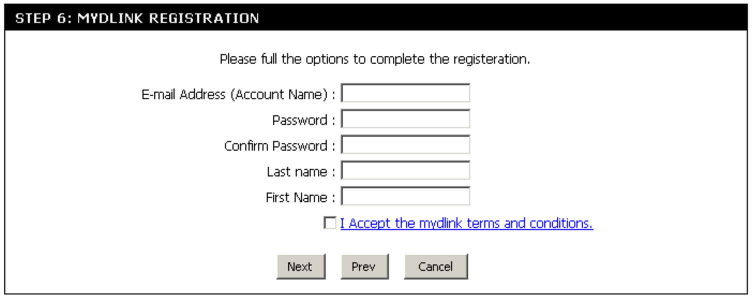


STEP 6: MYDLINK REGISTRATION

E-mail Address (Account Name): mydlinkaccount

Password: ******

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



STEP 6: MYDLINK REGISTRATION

Please full the options to complete the registeration.

E-mail Address (Account Name) :

Password :

Confirm Password :

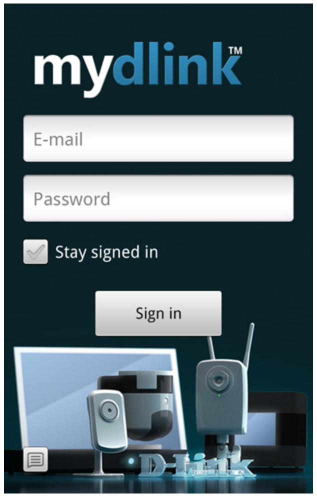
Last name :

First Name :

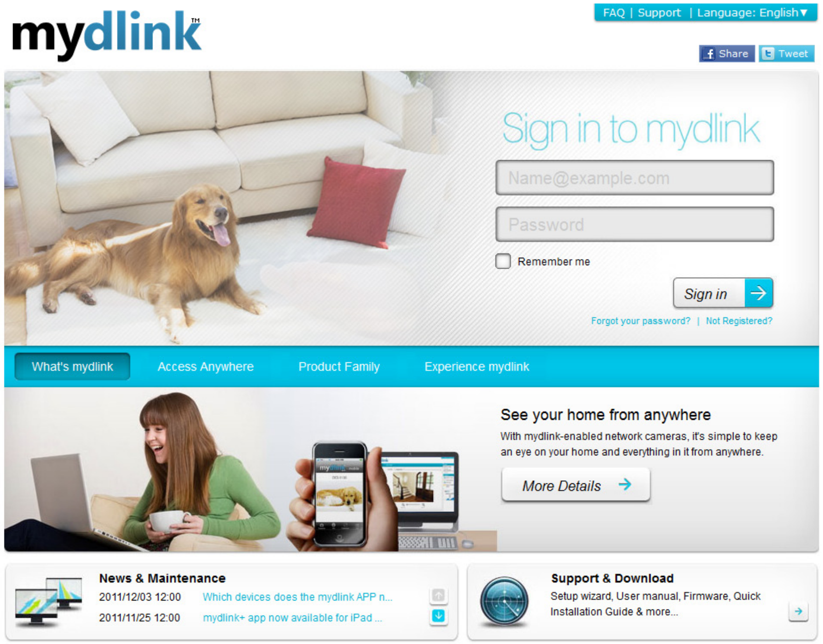
☐ I Accept the mydlink terms and conditions.

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), or 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**.



See your home from anywhere

With mydlink-enabled network cameras, it's simple to keep an eye on your home and everything in it from anywhere.

News & Maintenance

2011/12/03 12:00 Which devices does the mydlink APP n...

2011/11/25 12:00 mydlink+ app now available for iPad ...

Support & Download

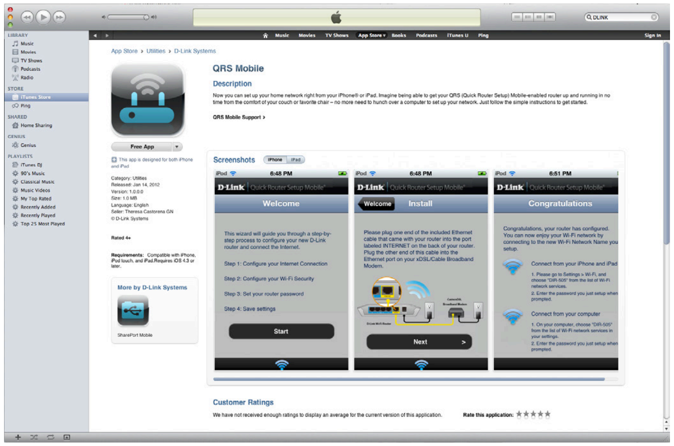
Setup wizard, User manual, Firmware, Quick Installation Guide & more...

QRS Mobile App

D-Link offers an app for your iPad, iPod Touch, or iPhone (iOS 4.3 or higher) to install and configure your router.

Step 1
From your iPad, Touch, or iPhone, go to the iTunes Store and search for 'D-Link'. Select **QRS Mobile** and then download it.

You may also scan this code to download.



App Store › Utilities › D-Link Systems

QRS Mobile

Description

Now you can set up your home network right from your iPhone® or iPad. Imagine being able to get your QRS (Quick Router Setup) Mobile-enabled router up and running in no time from the comfort of your couch or favorite chair – no more need to hunch over a computer to set up your network. Just follow the simple instructions to get started.

QRS Mobile Support ›

This app is designed for both iPhone and iPad

Category: Utilities
Released: Jan 14, 2012
Version: 1.0.0.0
Size: 1.0 MB
Language: English
Seller: Theresa Castorena GN
© D-Link Systems

Rated 4+

Requirements: Compatible with iPhone, iPod touch, and iPad.Requires iOS 4.3 or later.

More by D-Link Systems

SharePort Mobile

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

Step 1: Configure your Internet Connection

Step 2: Configure your Wi-Fi Security

Step 3: Set your router password

Step 4: Save settings

Please plug one end of the included Ethernet cable that came with your router into the port labeled INTERNET on the back of your router. Plug the other end of this cable into the Ethernet port on your xDSL/Cable Broadband Modem.

Congratulations, your router has configured. You can now enjoy your Wi-Fi network by connecting to the new Wi-Fi Network Name you setup.

Connect from your iPhone and iPad

1. Please go to Settings > Wi-Fi, and choose "DIR-505" from the list of Wi-Fi network services.
2. Enter the password you just setup when prompted.

Connect from your computer

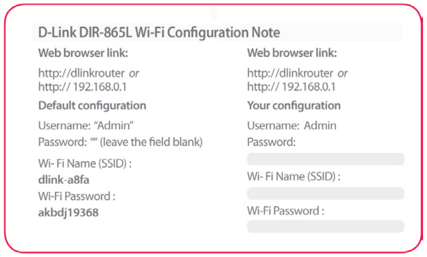
1. On your computer, choose "DIR-505" from the list of Wi-Fi network services in your settings.
2. Enter the password you just setup when prompted.

Customer Ratings

We have not received enough ratings to display an average for the current version of this application.

Rate this application: ★★★★★

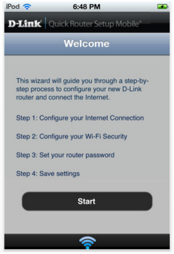
Step 2
Once your app is installed, you may now configure your router. Connect to the router wirelessly by going to your wireless utility on your device. Scan for the wireless network name (SSID) as listed on the supplied info card. Select and then enter your security password (Wi-Fi Password).



D-Link DIR-865L Wi-Fi Configuration Note

Web browser link:	**Web browser link:**
http://dlinkrouter *or* http:// 192.168.0.1	http://dlinkrouter *or* http:// 192.168.0.1
Default configuration	**Your configuration**
Username: "Admin"	Username: Admin
Password: "" (leave the field blank)	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.



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

Step 1: Configure your Internet Connection

Step 2: Configure your Wi-Fi Security

Step 3: Set your router password

Step 4: Save settings

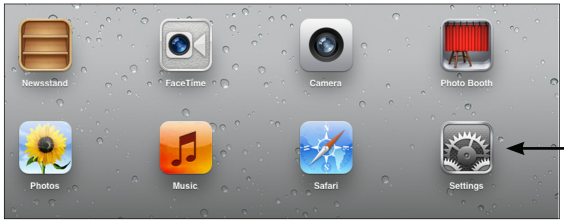
SharePort Mobile App

The SharePort Mobile app will allow you to access files from a USB thumb drive that is plugged into your router. You must enable file sharing from the **Setup** > **Storage** page (refer to page 55) for this app to work properly.

1. Insert your USB flash drive into DIR-865L.

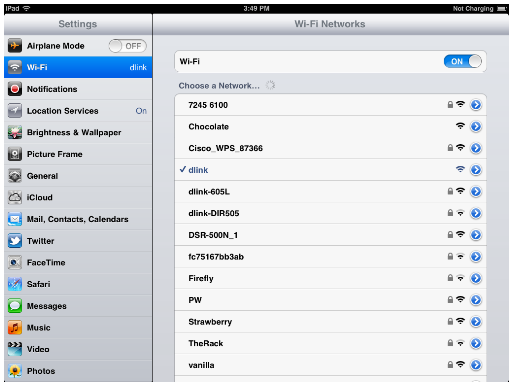
2. Scan the bar code to download the **SharePort Mobile** app from the app store to your iPhone or iPad.

3. From your iOS mobile device, click **Settings.**

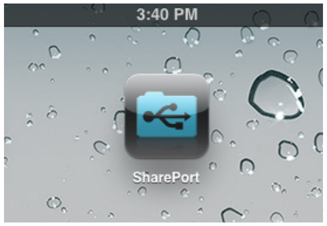


Settings

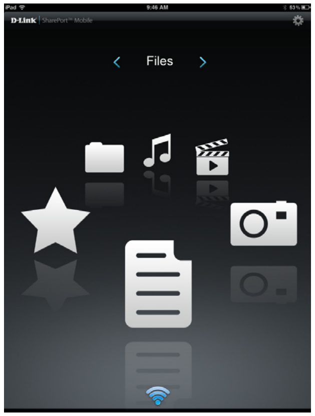
4. Click **Wi-Fi,** select the wireless network (SSID) that you created in the setup and then enter your Wi-Fi password.



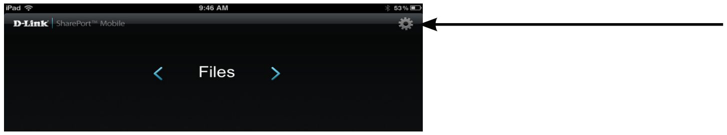
5. Once connected, click on the **SharePort Mobile** icon.



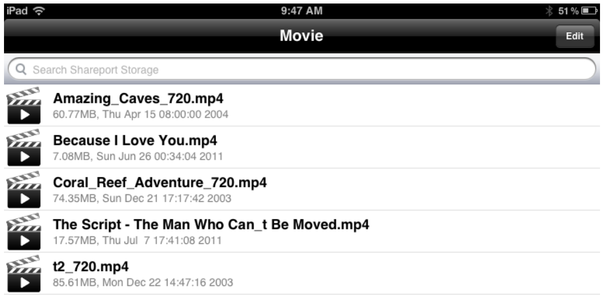
6. The following screen will appear.



7. Click on **Settings** icon located on the right top corner of the screen. Click **Edit** to enter your User Name and Password. 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.



Amazing_Caves_720.mp4
60.77MB, Thu Apr 15 08:00:00 2004

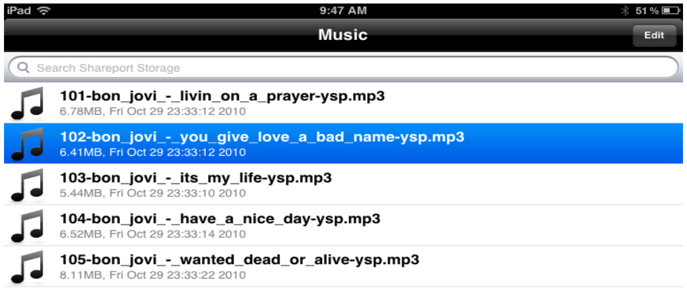
Because I Love You.mp4
7.08MB, Sun Jun 26 00:34:04 2011

Coral_Reef_Adventure_720.mp4
74.35MB, Sun Dec 21 17:17:42 2003

The Script - The Man Who Can_t Be Moved.mp4
17.57MB, Thu Jul 7 17:41:08 2011

t2_720.mp4
85.61MB, Mon Dec 22 14:47:16 2003

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



101-bon_jovi_-_livin_on_a_prayer-ysp.mp3
6.78MB, Fri Oct 29 23:33:12 2010

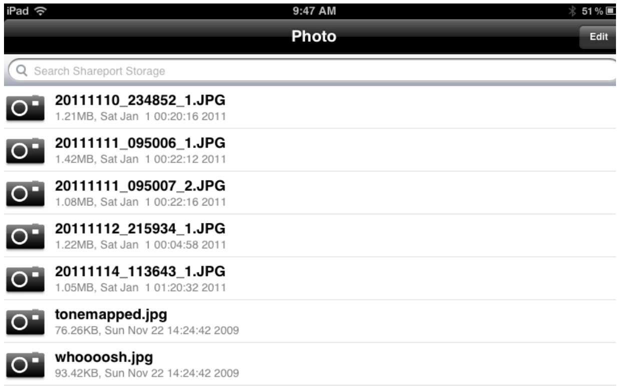
102-bon_jovi_-_you_give_love_a_bad_name-ysp.mp3
6.41MB, Fri Oct 29 23:33:12 2010

103-bon_jovi_-_its_my_life-ysp.mp3
5.44MB, Fri Oct 29 23:33:10 2010

104-bon_jovi_-_have_a_nice_day-ysp.mp3
6.52MB, Fri Oct 29 23:33:14 2010

105-bon_jovi_-_wanted_dead_or_alive-ysp.mp3
8.11MB, Fri Oct 29 23:33:22 2010

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



20111110_234852_1.JPG
1.21MB, Sat Jan 1 00:20:16 2011

20111111_095006_1.JPG
1.42MB, Sat Jan 1 00:22:12 2011

20111111_095007_2.JPG
1.08MB, Sat Jan 1 00:22:16 2011

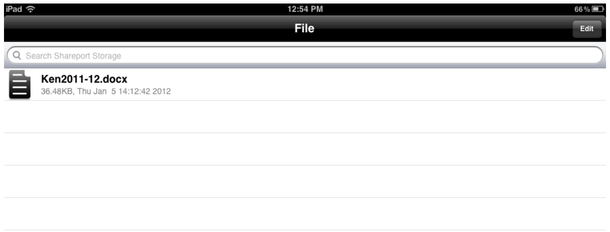
20111112_215934_1.JPG
1.22MB, Sat Jan 1 00:04:58 2011

20111114_113643_1.JPG
1.05MB, Sat Jan 1 01:20:32 2011

tonemapped.jpg
76.26KB, Sun Nov 22 14:24:42 2009

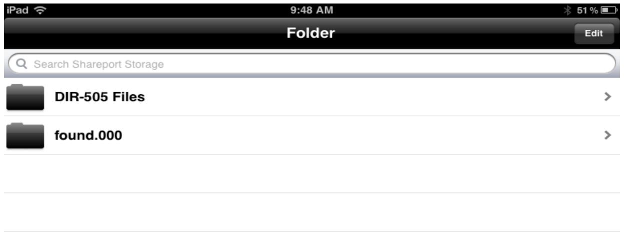
whooooosh.jpg
93.42KB, Sun Nov 22 14:24:42 2009

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



Ken2011-12.docx
36.48KB, Thu Jan 5 14:12:42 2012

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

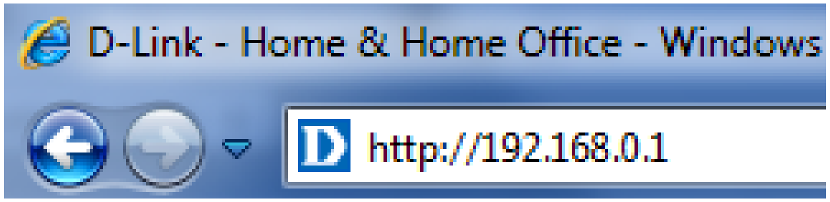


DIR-505 Files

found.000

Web-based Configuration Utility

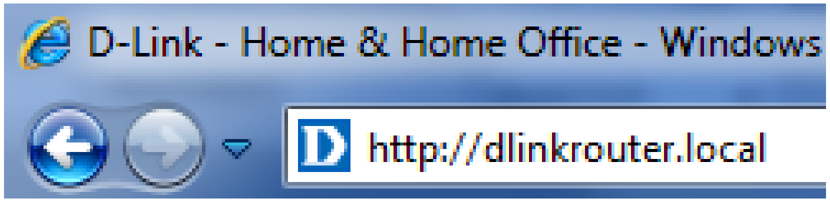
To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router **http://192.168.0.1**.



D-Link - Home & Home Office - Windows

http://192.168.0.1

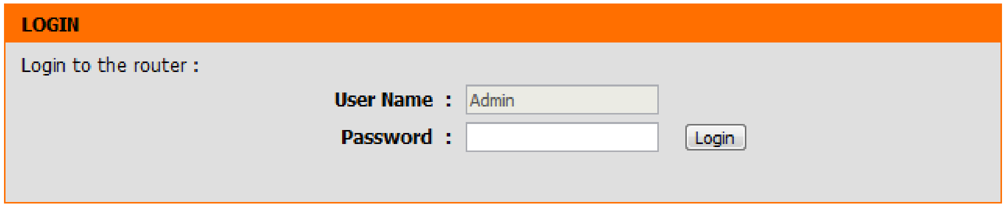
You may also type the name of the router (**http://dlinkrouter.local**).



D-Link - Home & Home Office - Windows

http://dlinkrouter.local

Select **Admin** from the drop-down menu and then enter your password. Leave the password blank by default.



LOGIN

Login to the router :

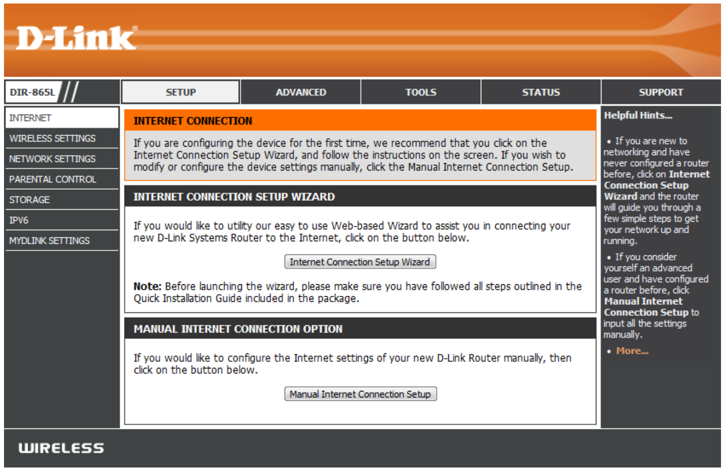
User Name : Admin

Password :

Internet Connection Setup

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

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 14.



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 utility 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.

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.

Helpful Hints...

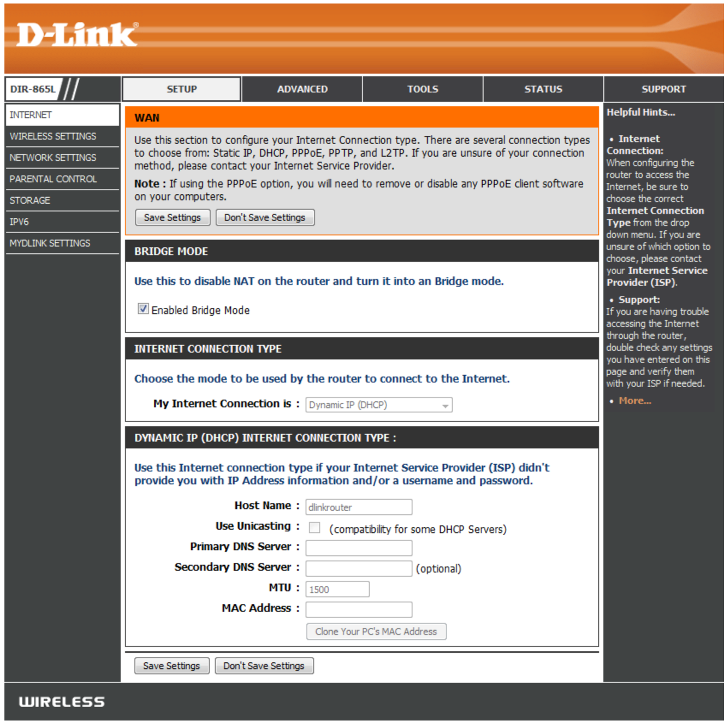
- If you are new to networking and have never configured a router before, click on **Internet Connection Setup Wizard** and the router will guide you through a few simple steps to get your network up and running.
- If you consider yourself an advanced user and have configured a router before, click **Manual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

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

You may also configure your router to be a wireless client/bridge. This is useful if you want to connect Ethernet devices to your wireless network if you currently have a wireless router. Please refer to page 43 for more information.

Note: *For 802.11ac performance, you must connect to another 802.11ac wireless router. The DIR-865L will automatically adjust to the connection type of your router.*

Also, if bridge mode is enabled, all router functions (NAT, filtering, DHCP server, etc) will be disabled as well as mydlink and SharePort Mobile functions.



WAN

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

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

BRIDGE MODE

Use this to disable NAT on the router and turn it into an Bridge mode.

☑ Enabled Bridge Mode

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 :

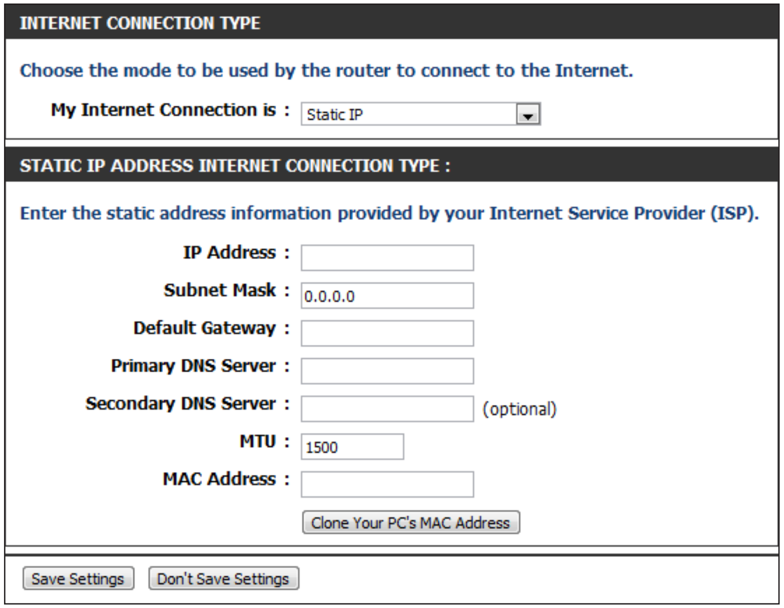
Helpful Hints...

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

Manual Internet Setup

Static (assigned by ISP)

Select **Static IP** if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. 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.



INTERNET CONNECTION TYPE

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

My Internet Connection is : Static IP

STATIC IP ADDRESS INTERNET CONNECTION TYPE :

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

IP Address :

Subnet Mask : 0.0.0.0

Default Gateway :

Primary DNS Server :

Secondary DNS Server : (optional)

MTU : 1500

MAC Address :

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

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

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

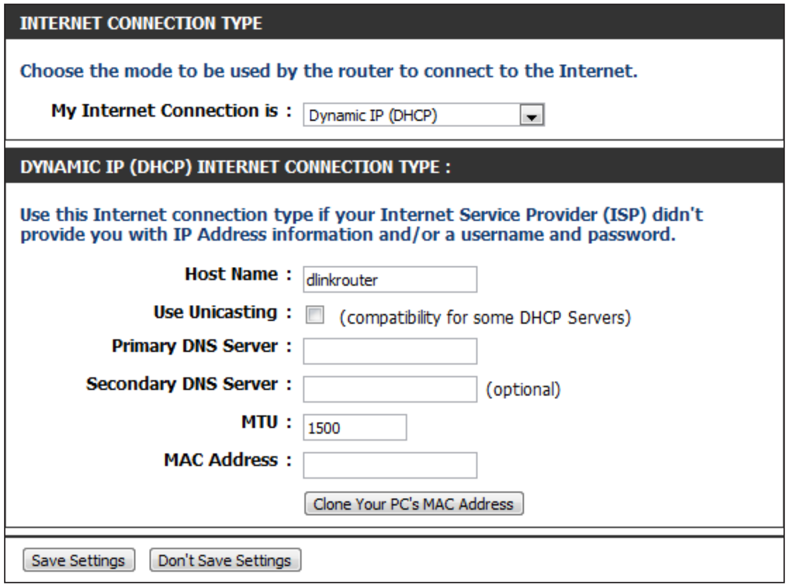
Default Gateway: Enter the Gateway assigned by your ISP.

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

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.

Dynamic (Cable)



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 :

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.

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

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

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

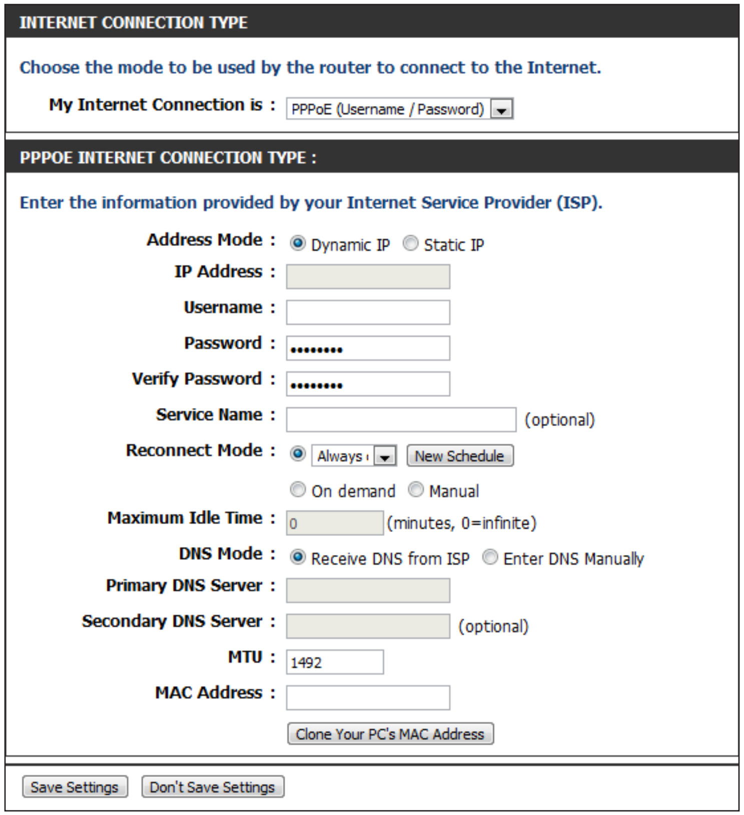
MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU.

MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can 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.

Internet Setup

PPPoE (DSL)

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.



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 ‹ New Schedule ○ On demand ○ Manual
Maximum Idle Time :	0 (minutes, 0=infinite)
DNS Mode :	● Receive DNS from ISP ○ Enter DNS Manually
Primary DNS Server :	
Secondary DNS Server :	(optional)
MTU :	1492
MAC Address :	

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

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**.

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 Mode/ Addresses: Select **Receive DNS from ISP** to automatically use your ISP's DNS servers or select **Enter DNS Manually** and enter the Primary and Secondary DNS Server Addresses of your choice.

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.

Internet Setup

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.

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.

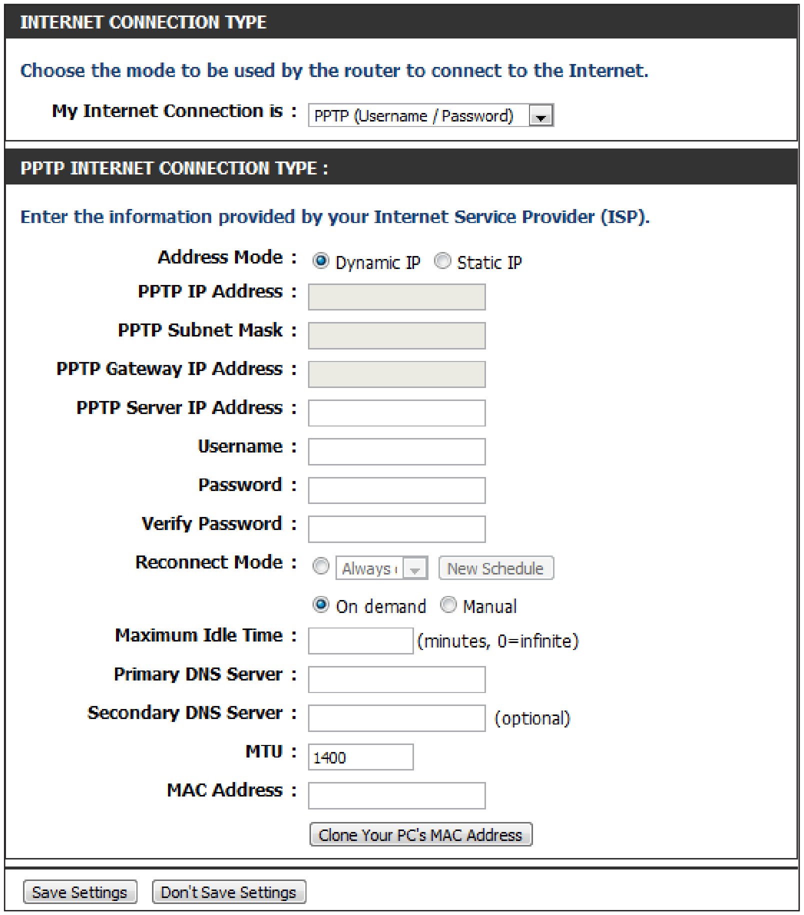
PPTP Server: Enter the Server IP provided by your ISP (optional).

Username: Enter your PPTP username.

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

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

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



INTERNET CONNECTION TYPE

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

My Internet Connection is : PPTP (Username / Password)

PPTP INTERNET CONNECTION TYPE :

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

Address Mode : ● Dynamic IP ○ Static IP

PPTP IP Address :

PPTP Subnet Mask :

PPTP Gateway IP Address :

PPTP Server IP Address :

Username :

Password :

Verify Password :

Reconnect Mode : ○ Always on ● On demand ○ Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server :

Secondary DNS Server : (optional)

MTU : 1400

MAC Address :

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.

Internet Setup
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.

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

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

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

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

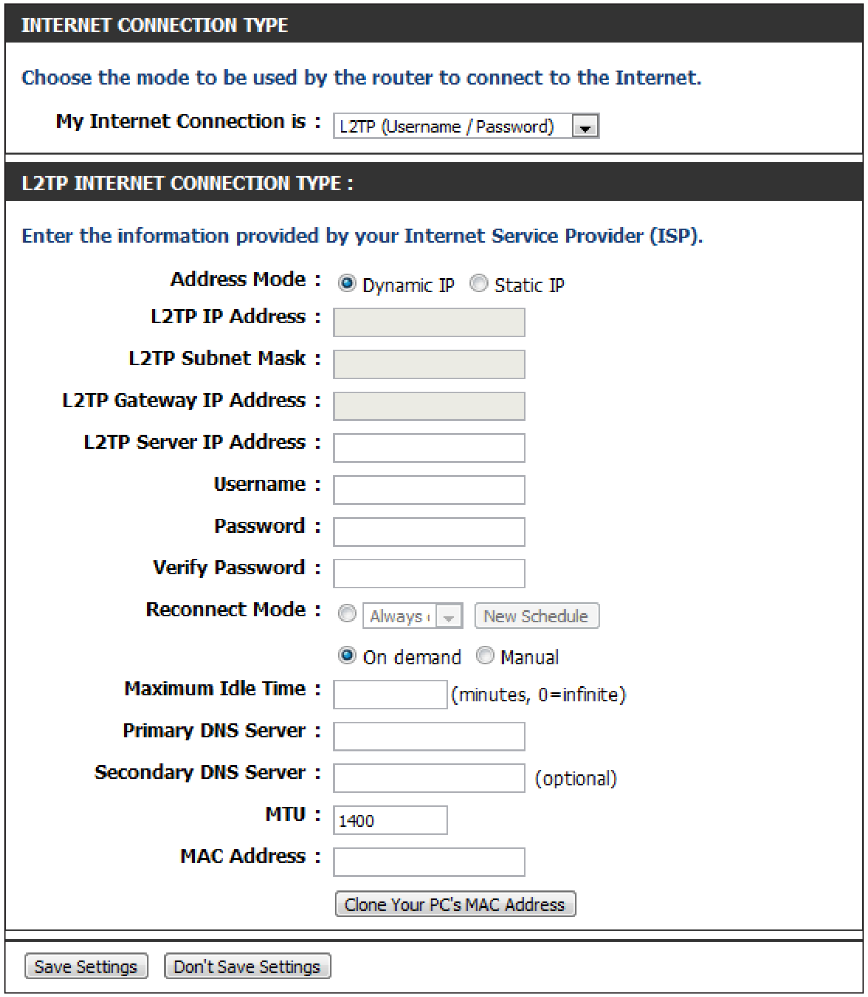
L2TP Server IP: Enter the Server IP provided by your ISP (optional).

Username: Enter your L2TP username.

Password: Enter your L2TP password and then retype the password in the next box.

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

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



INTERNET CONNECTION TYPE

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

My Internet Connection is : L2TP (Username / Password)

L2TP INTERNET CONNECTION TYPE :

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

Address Mode : ● Dynamic IP ○ Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

L2TP Server IP Address :

Username :

Password :

Verify Password :

Reconnect Mode : ○ Always on New Schedule

● On demand ○ Manual

Maximum Idle Time : (minutes, 0=infinite)

Primary DNS Server :

Secondary DNS Server : (optional)

MTU : 1400

MAC Address :

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

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

Clone 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.

Internet Setup
DS-Lite

Another Internet Connection type is DS-Lite.

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

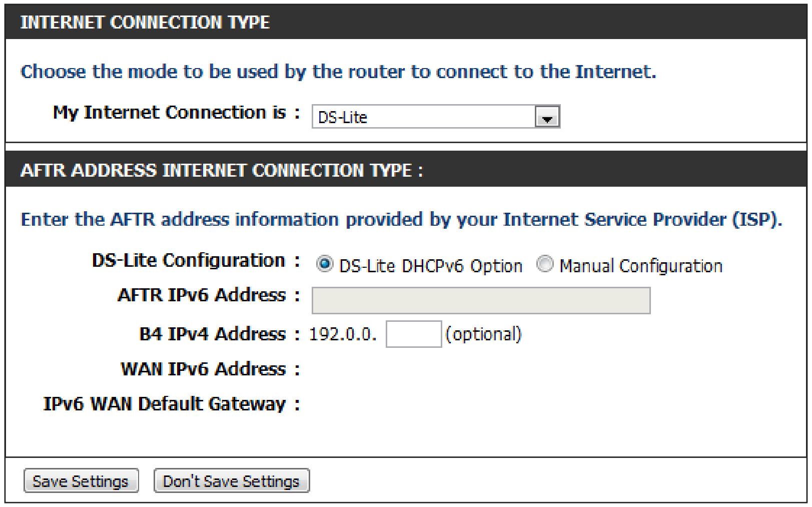
DS-Lite Configuration: Select the DS-Lite DHCPv6 option to let the router allocate the AFTR IPv6 address automatically. Select the Manual Configuration to enter the AFTR IPv6 address in manually.

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.



INTERNET CONNECTION TYPE

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

My Internet Connection is : DS-Lite

AFTR ADDRESS INTERNET CONNECTION TYPE :

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

DS-Lite Configuration : ● DS-Lite DHCPv6 Option ○ Manual Configuration

AFTR IPv6 Address :

B4 IPv4 Address : 192.0.0. (optional)

WAN IPv6 Address :

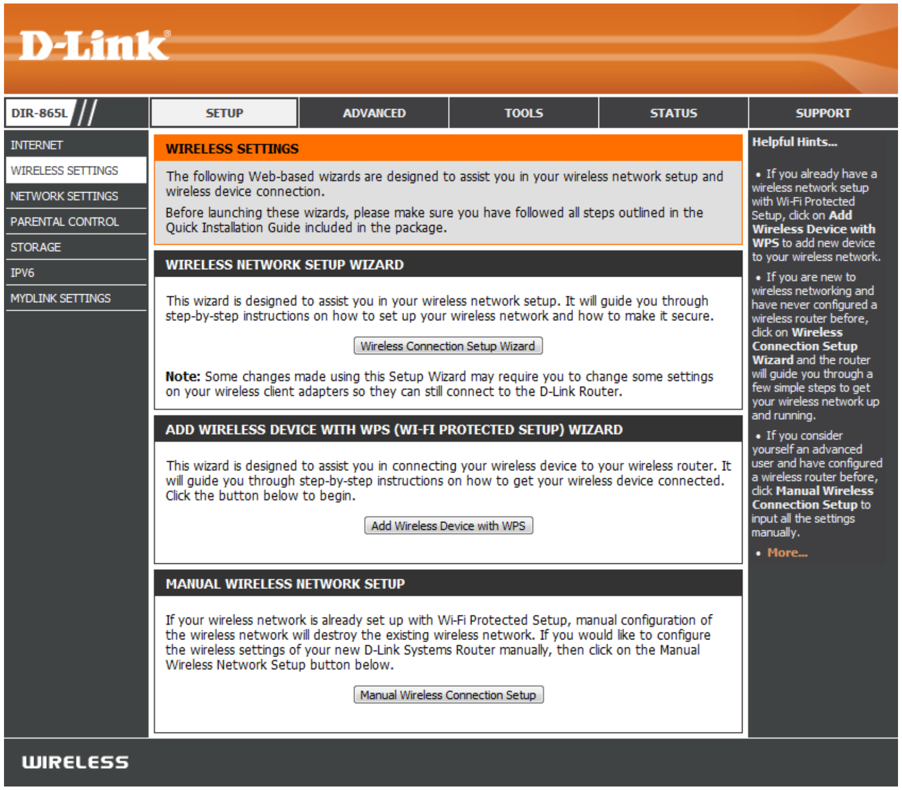
IPv6 WAN Default Gateway :

Wireless Settings

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

Click **Add Wireless Device with WPS** if you want to add a wireless device using Wi-Fi Protected Setup (WPS) and refer to page 39.

If you want to manually configure the wireless settings on your router click **Manual Wireless Network Setup** and refer to page 41.



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.

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

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.

MANUAL WIRELESS NETWORK SETUP

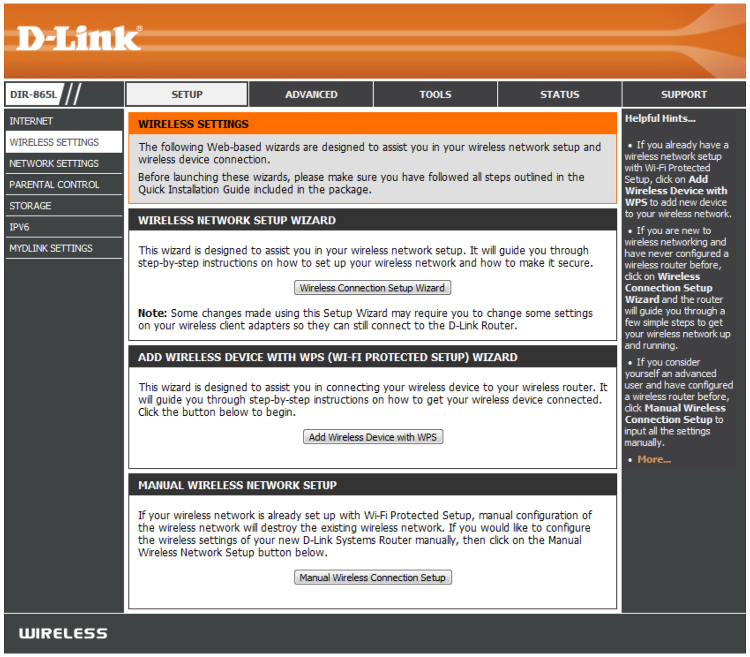
If your wireless network is already set up with Wi-Fi Protected Setup, manual configuration of the wireless network will destroy the existing wireless network. If you would like to configure the wireless settings of your new D-Link Systems Router manually, then click on the Manual Wireless Network Setup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

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 Connection Setup Wizard

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



WIRELESS SETTINGS

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

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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

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

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...

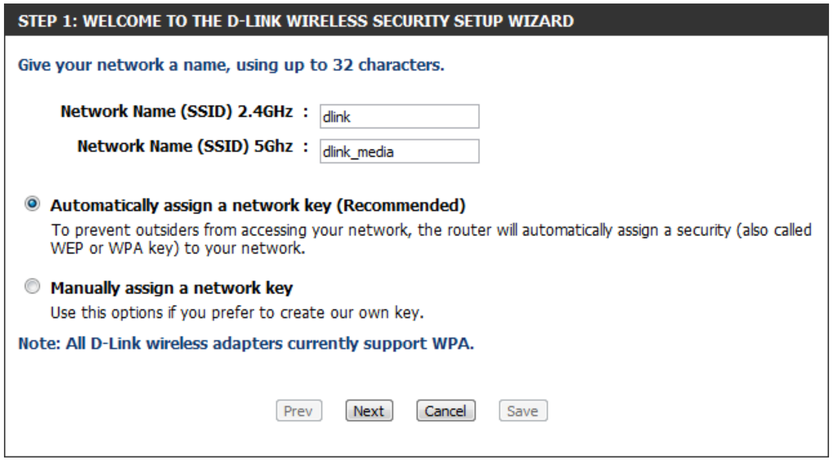
- If you already have a wireless network setup with Wi-Fi Protected Setup, click on **Add Wireless Device with WPS** to add new device to your wireless network.
- If you are new to wireless networking and have never configured a wireless router before, click on **Wireless Connection Setup Wizard** and 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...

Enter a name for your wireless network (SSID), one for the 2.4GHz frequency and another for the 5GHz frequency. Do not use personal information as your SSID since users with wireless devices within range of your router will be able to see this information.

Then select one of the following options:

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

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



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

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

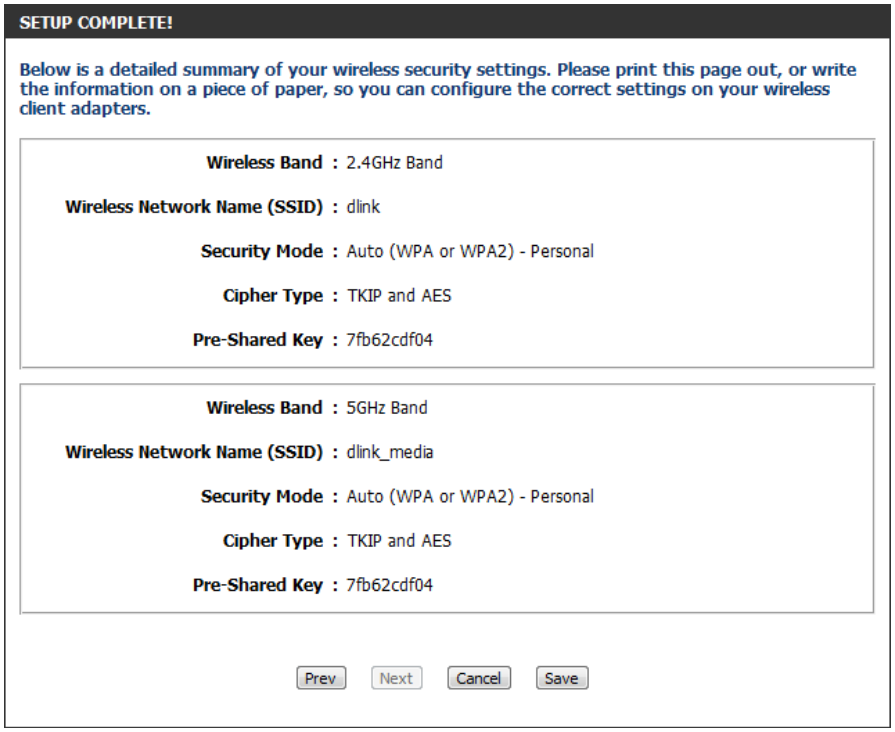
Network Name (SSID) 2.4GHz :	dlink
Network Name (SSID) 5Ghz :	dlink_media

● **Automatically assign a network key (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 **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.



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.

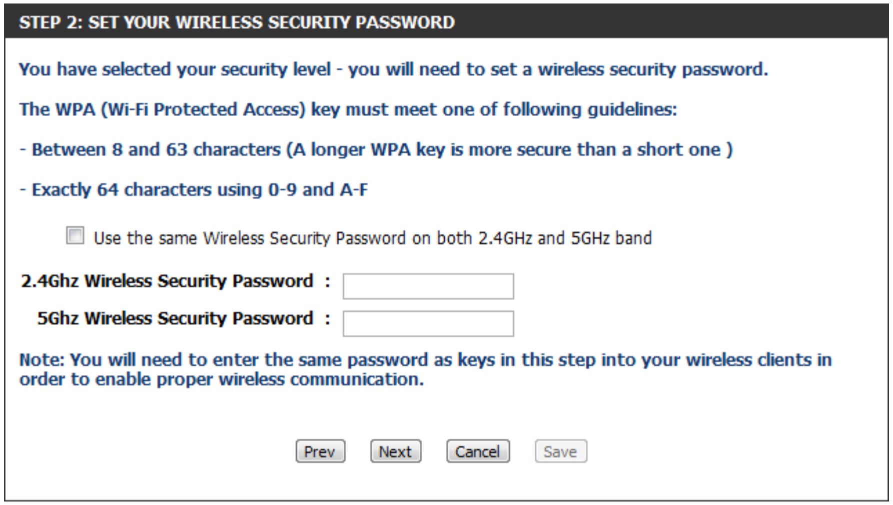
Wireless Band :	2.4GHz Band
Wireless Network Name (SSID) :	dlink
Security Mode :	Auto (WPA or WPA2) - Personal
Cipher Type :	TKIP and AES
Pre-Shared Key :	7fb62cdf04

Wireless Band :	5GHz Band
Wireless Network Name (SSID) :	dlink_media
Security Mode :	Auto (WPA or WPA2) - Personal
Cipher Type :	TKIP and AES
Pre-Shared Key :	7fb62cdf04

If you selected **Manually**, the following screen will appear.

Create a passphrase for your security password. Click **Next** to continue.

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



STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

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

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

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)

- Exactly 64 characters using 0-9 and A-F

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

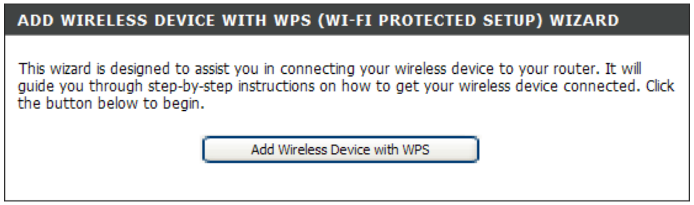
2.4Ghz Wireless Security Password :

5Ghz 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

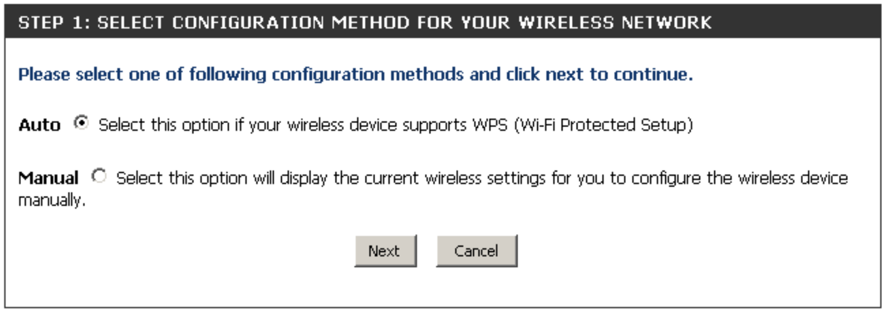
From the **Setup** > **Wireless Settings** screen, click **Add Wireless Device with WPS**.



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.

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



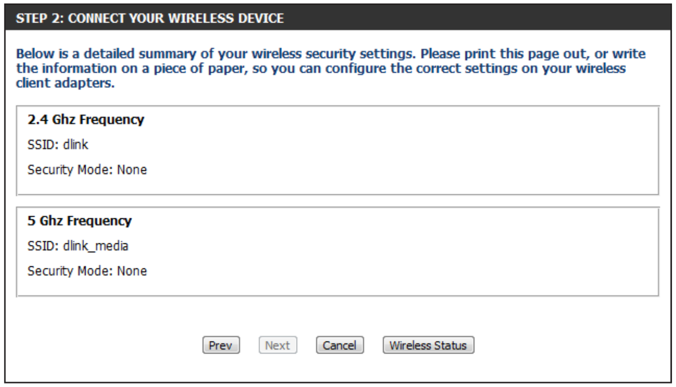
STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK

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.

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

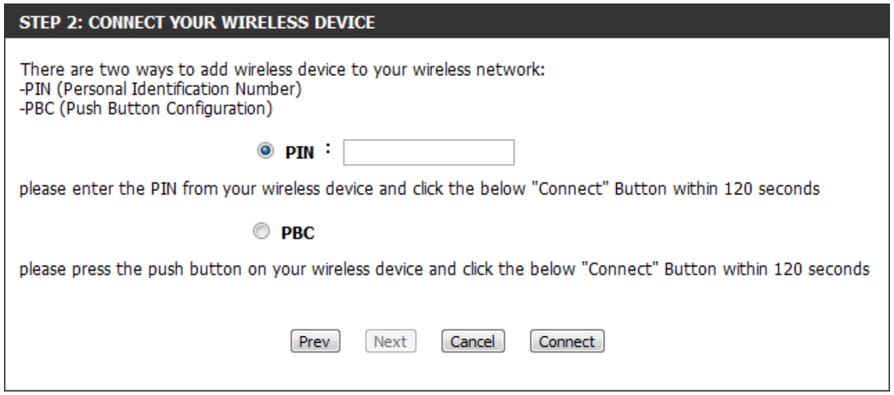
Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

2.4 Ghz Frequency
SSID: dlink
Security Mode: None

5 Ghz Frequency
SSID: dlink_media
Security Mode: None

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**.



STEP 2: CONNECT YOUR WIRELESS DEVICE

There are two ways to add wireless device to your wireless network:
-PIN (Personal Identification Number)
-PBC (Push Button Configuration)

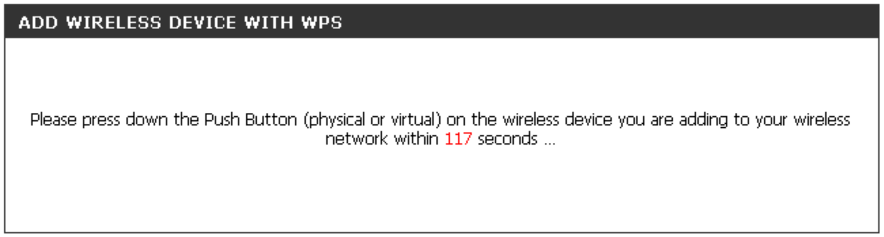
● PIN :

please enter the PIN from your wireless device and click the below "Connect" Button within 120 seconds

○ 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.

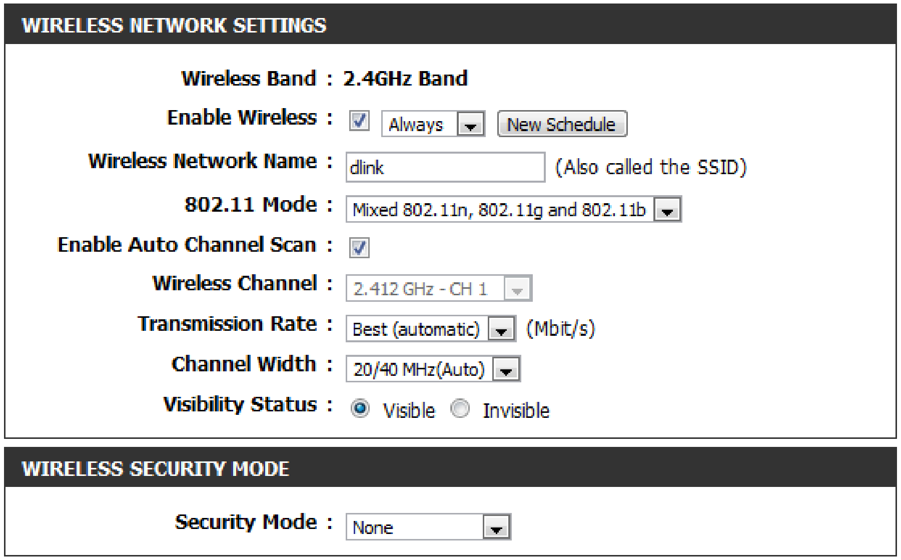


ADD WIRELESS DEVICE WITH WPS

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

802.11n/g (2.4GHz)



WIRELESS NETWORK SETTINGS

Wireless Band : 2.4GHz Band

Enable Wireless : ☑ Always New Schedule

Wireless Network Name : dlink (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

WIRELESS SECURITY MODE

Security Mode : None

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.

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DIR-865L to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DIR-865L. 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 DIR-865L. If Invisible is selected, the SSID of the DIR-865L will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-865L in order to connect to it.

Wireless Security: Refer to page 46 for more information regarding wireless security.

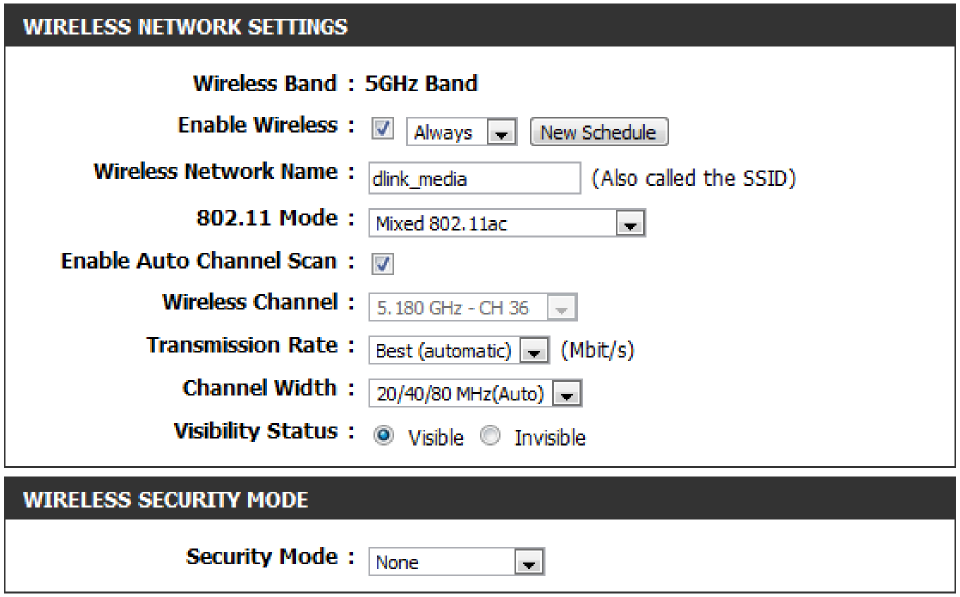
802.11ac/n/a (5GHz)

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:
802.11a Only - Select if all of your wireless clients are 802.11a.
802.11n Only - Select only if all of your wireless clients are 802.11n.
Mixed 802.11a and 802.11n - Select if you are using both 802.11n and 802.11a wireless clients.
Mixed 802.11ac - Select if you are using 802.11ac, 802.11n and 802.11a wireless clients.



WIRELESS NETWORK SETTINGS

Wireless Band :	5GHz Band
Enable Wireless :	☑ Always ▾ New Schedule
Wireless Network Name :	dlink_media (Also called the SSID)
802.11 Mode :	Mixed 802.11ac ▾
Enable Auto Channel Scan :	☑
Wireless Channel :	5.180 GHz - CH 36 ▾
Transmission Rate :	Best (automatic) ▾ (Mbit/s)
Channel Width :	20/40/80 MHz(Auto) ▾
Visibility Status :	● Visible ○ Invisible

WIRELESS SECURITY MODE

Security Mode :	None ▾

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DIR-865L to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DIR-865L. 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:
20MHz - Select if you are not using any 802.11n wireless clients.
20/40MHz (Auto) - This is the default setting. Select if you are using both 802.11n and non-802.11n wireless devices.
20/40/80MHz (Auto) - Select if you are using 802.11ac, 802.11n and non-802.11n wireless devices. This option is only available when the 802.11 Mode is set to Mixed 802.11ac.

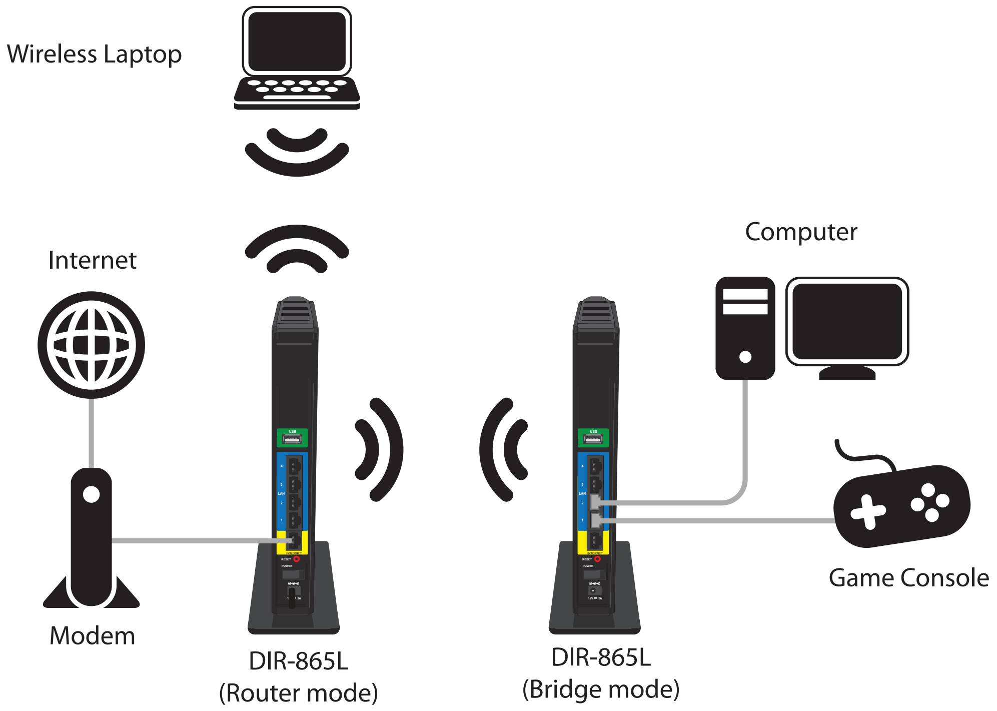
Visibility Status: Select **Invisible** if you do not want the SSID of your wireless network to be broadcasted by the DIR-865L. If Invisible is selected, the SSID of the DIR-865L will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-865L in order to connect to it.

Wireless Security: Refer to page 46 for more information regarding wireless security.

Wireless Bridge Mode

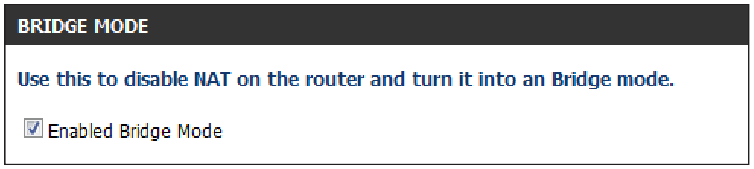
If you want to wirelessly connect multiple Ethernet-enabled devices such as game consoles, media players, or network attached storage (NAS) devices you can set the DIR-865L to Bridge mode. You must have a wireless router for this feature.

Note: *For 802.11ac performance, you must connect to another 802.11ac wireless router. The DIR-865L will automatically adjust to the connection type of your router.*



To configure your DIR-865L router to bridge mode, follow the steps below:

Step 1 - From the **Setup** > **Internet** page, click **Manual Internet Connection Setup** and then check the **Enable Wireless Bridge** box. Click **Save Settings** and then click **OK** to the pop-up message.



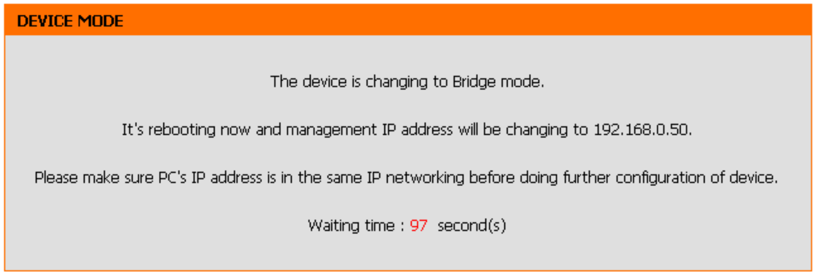
BRIDGE MODE

Use this to disable NAT on the router and turn it into an Bridge mode.

☑ Enabled Bridge Mode

***Note:** When you enable Bridge mode, the DIR-865L's default IP address will change to **192.168.0.50**.*

Step 2 - The following message will appear. The router will automatically reboot.



DEVICE MODE

The device is changing to Bridge mode.

It's rebooting now and management IP address will be changing to 192.168.0.50.

Please make sure PC's IP address is in the same IP networking before doing further configuration of device.

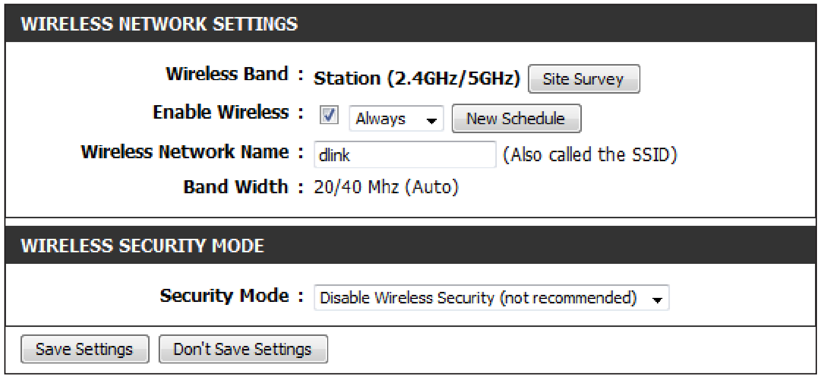
Waiting time : 97 second(s)

Step 3 - Once the router reboots, you may get a "connect display page" error on your web browser. This is because the IP address of the router changed. In your web browser, enter **http://192.168.0.50** to access the web interface.

Step 4 - At the login screen, enter **admin** for the User Name and enter your password (leave blank by default).

Step 5 - From the **Setup** > **Wireless Settings** page, click the **Site Survey** button. This will display a list of wireless networks in your area.

You may also manually enter the wireless network name you want to connect to (SSID) and any security/encryption settings (from the **Security Mode** drop-down menu). Enter your wireless network information, click **Save Settings**, and then skip to step 7.



WIRELESS NETWORK SETTINGS

Wireless Band : Station (2.4GHz/5GHz) [Site Survey]

Enable Wireless : ☑ Always [New Schedule]

Wireless Network Name : dlink (Also called the SSID)

Band Width : 20/40 Mhz (Auto)

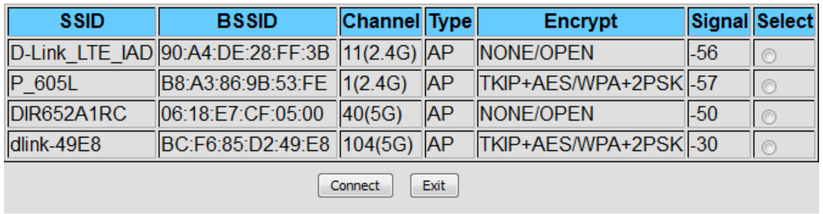
WIRELESS SECURITY MODE

Security Mode : Disable Wireless Security (not recommended)

Step 6 - When the site survey screen appears, select the network you want to connect to (click the radio button under **Select**) and then click **Connect**.

If the network is secure/encrypted, you will need to enter the passphrase/encryption key.

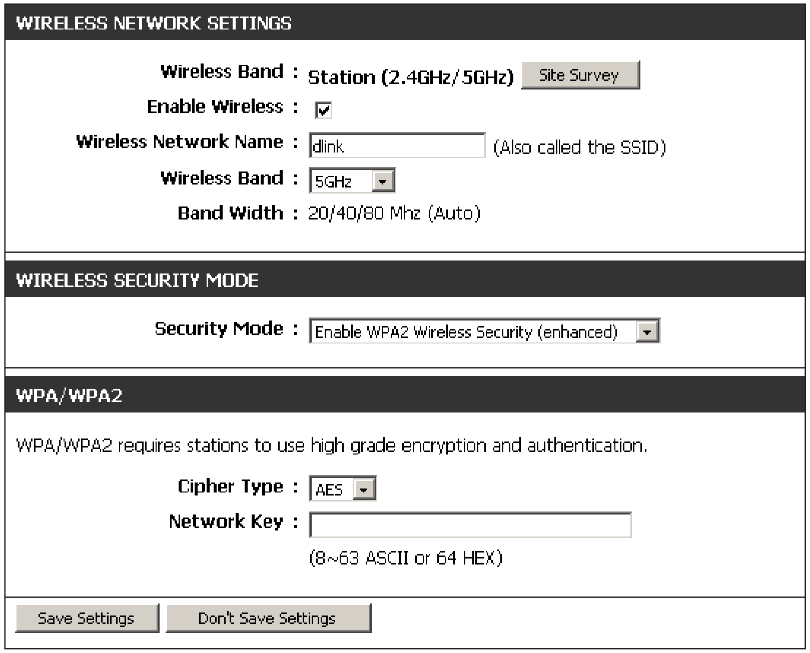
Please allow a minute to connect.



SSID	BSSID	Channel	Type	Encrypt	Signal	Select
D-Link_LTE_IAD	90:A4:DE:28:FF:3B	11(2.4G)	AP	NONE/OPEN	-56	○
P_605L	B8:A3:86:9B:53:FE	1(2.4G)	AP	TKIP+AES/WPA+2PSK	-57	○
DIR652A1RC	06:18:E7:CF:05:00	40(5G)	AP	NONE/OPEN	-50	○
dlink-49E8	BC:F6:85:D2:49:E8	104(5G)	AP	TKIP+AES/WPA+2PSK	-30	○

Step 7 - Once connected, any Ethernet device connected to the DIR-865L will connect to the wireless network.

Note: *Wireless clients cannot connect to the DIR-865L while in bridge mode. Also, the Internet port on the DIR-865L in Bridge mode will not function.*



WIRELESS NETWORK SETTINGS

Wireless Band : Station (2.4GHz/5GHz)

Enable Wireless : ☑

Wireless Network Name : dlink (Also called the SSID)

Wireless Band : 5GHz

Band Width : 20/40/80 Mhz (Auto)

WIRELESS SECURITY MODE

Security Mode : Enable WPA2 Wireless Security (enhanced)

WPA/WPA2

WPA/WPA2 requires stations to use high grade encryption and authentication.

Cipher Type : AES

Network Key :

(8~63 ASCII or 64 HEX)

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-865L 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.

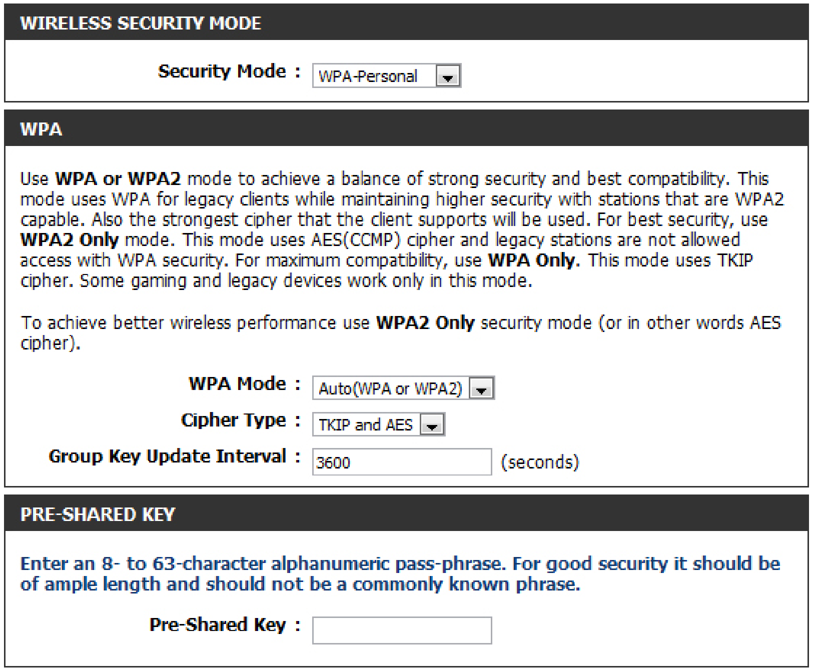
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key 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.

WPA/WPA2-Personal (PSK)

It is recommended to enable encryption on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.



WIRELESS SECURITY MODE

Security Mode : WPA-Personal

WPA

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

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

WPA Mode : Auto(WPA or WPA2)

Cipher Type : TKIP and AES

Group Key Update Interval : 3600 (seconds)

PRE-SHARED KEY

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

Pre-Shared Key :

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1). Click on **Setup** and then click **Wireless Settings** on the left side.

2. Next to *Security Mode*, select **WPA-Personal**.

3. Next to *WPA Mode*, select **Auto**, **WPA2 Only**, or **WPA Only**. Use **Auto** if you have wireless clients using both WPA and WPA2.

4. Next to *Cypher Type*, select **TKIP and AES**, **TKIP**, or **AES**.

5. Next to *Group Key Update Interval*, enter the amount of time before the group key used for broadcast and multicast data is changed (3600 is default).

6. Next to *Pre-Shared Key*, enter a key (passphrase). The key is entered as a pass-phrase in ASCII format at both ends of the wireless connection. The pass-phrase must be between 8-63 characters.

7. Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WPA-PSK on your adapter and enter the same passphrase as you did on the router.

Configure WPA/WPA2-Enterprise (RADIUS)

It is recommended to enable encryption on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1). Click on **Setup** and then click **Wireless Settings** on the left side.

2. Next to *Security Mode*, select **WPA-Enterprise**.

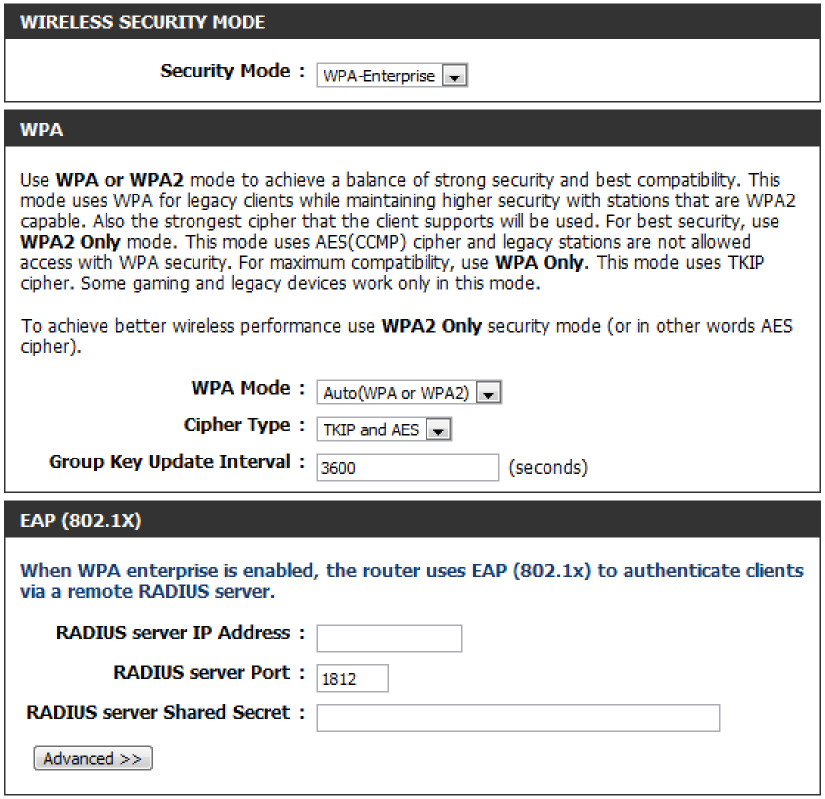
3. Next to *WPA Mode*, select **Auto**, **WPA2 Only**, or **WPA Only**. Use **Auto** if you have wireless clients using both WPA and WPA2.

4. Next to *Cypher Type*, select **TKIP and AES**, **TKIP**, or **AES**.

5. Next to *Group Key Update Interval*, enter the amount of time before the group key used for broadcast and multicast data is changed (3600 is default).

6. Next to *Authentication Timeout*, enter the amount of time before a client is required to re-authenticate (60 minutes is default).

7. Next to *RADIUS Server IP Address* enter the IP Address of your RADIUS server.



WIRELESS SECURITY MODE

Security Mode : WPA-Enterprise

WPA

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

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

WPA Mode : Auto(WPA or WPA2)

Cipher Type : TKIP and AES

Group Key Update Interval : 3600 (seconds)

EAP (802.1X)

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

RADIUS server IP Address :

RADIUS server Port : 1812

RADIUS server Shared Secret :

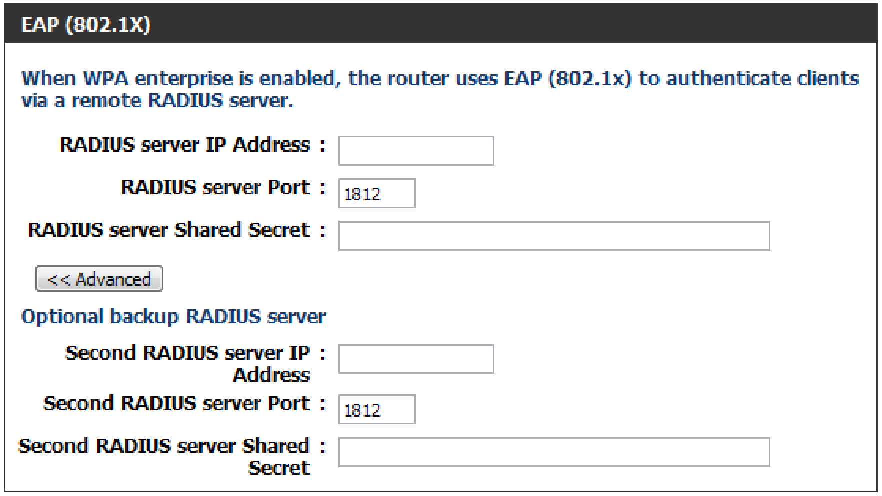
8. Next to *RADIUS Server Port*, enter the port you are using with your RADIUS server. 1812 is the default port.

9. Next to *RADIUS Server Shared Secret*, enter the security key.

10. If the *MAC Address Authentication* box is selected then the user will need to connect from the same computer whenever logging into the wireless network.

11. Click **Advanced** to enter settings for a secondary RADIUS Server.

12. Click **Apply Settings** to save your settings.



EAP (802.1X)

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

RADIUS server IP Address :	
RADIUS server Port :	1812
RADIUS server Shared Secret :	

Optional backup RADIUS server

Second RADIUS server IP Address :	
Second RADIUS server Port :	1812
Second RADIUS server Shared Secret :	

Network Settings

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

Router Settings

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

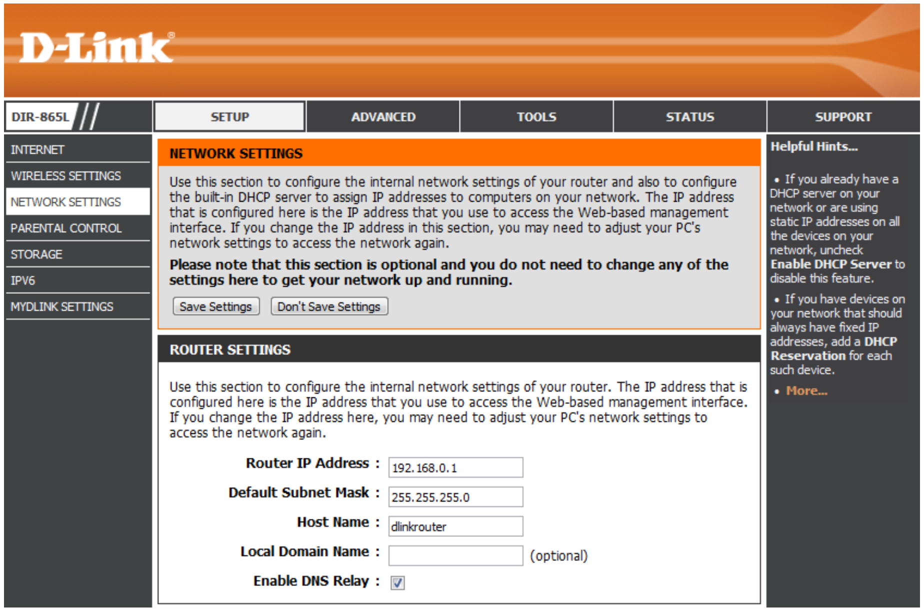
If you change the IP address, once you click **Save Settings**, you will need to enter the new IP address in your browser to get back into the configuration utility.

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.



NETWORK SETTINGS

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

Please note that this section is optional and you do not need to change any of the settings here to get your network up and running.

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)

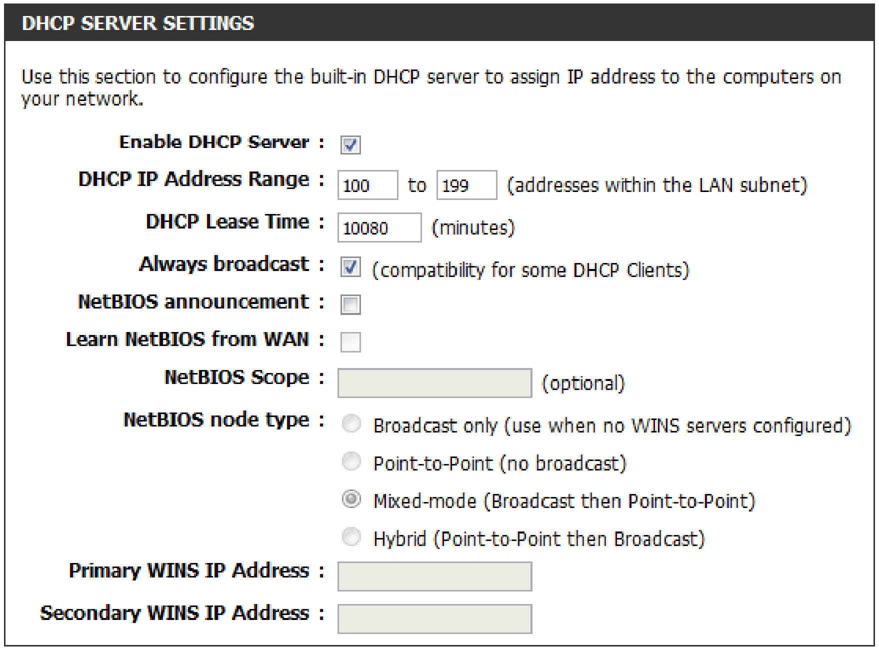
Enable DNS Relay : ☑

Helpful Hints...

- If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, uncheck **Enable DHCP Server** to disable this feature.
- If you have devices on your network that should always have fixed IP addresses, add a **DHCP Reservation** for each such device.

DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DIR-865L has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DIR-865L. 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.



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 :

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

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

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

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

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

NetBIOS Announcement: NetBIOS allows LAN hosts to discover all other computers within the network, 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 operates. 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 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.

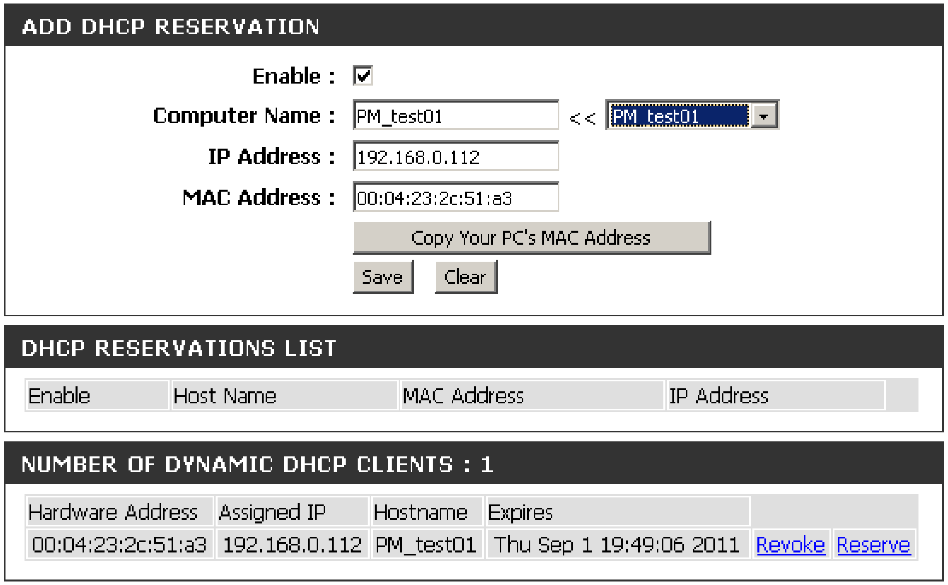
Computer Name: Enter the computer name or select from the drop-down menu and click **<<**.

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.



ADD DHCP RESERVATION

Enable : ☑

Computer Name : PM_test01 << PM_test01 ▾

IP Address : 192.168.0.112

MAC Address : 00:04:23:2c:51:a3

DHCP RESERVATIONS LIST

Enable	Host Name	MAC Address	IP Address

NUMBER OF DYNAMIC DHCP CLIENTS : 1

Hardware Address	Assigned IP	Hostname	Expires	
00:04:23:2c:51:a3	192.168.0.112	PM_test01	Thu Sep 1 19:49:06 2011	Revoke Reserve

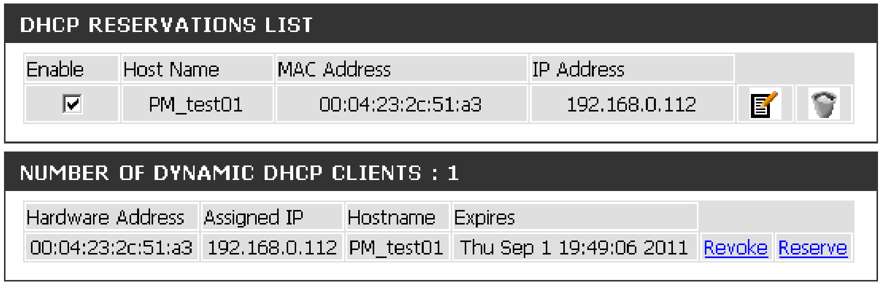
DHCP Reservations List

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	MAC Address	IP Address	
☑	PM_test01	00:04:23:2c:51:a3	192.168.0.112	

NUMBER OF DYNAMIC DHCP CLIENTS : 1

Hardware Address	Assigned IP	Hostname	Expires	
00:04:23:2c:51:a3	192.168.0.112	PM_test01	Thu Sep 1 19:49:06 2011	Revoke Reserve

Parental Control

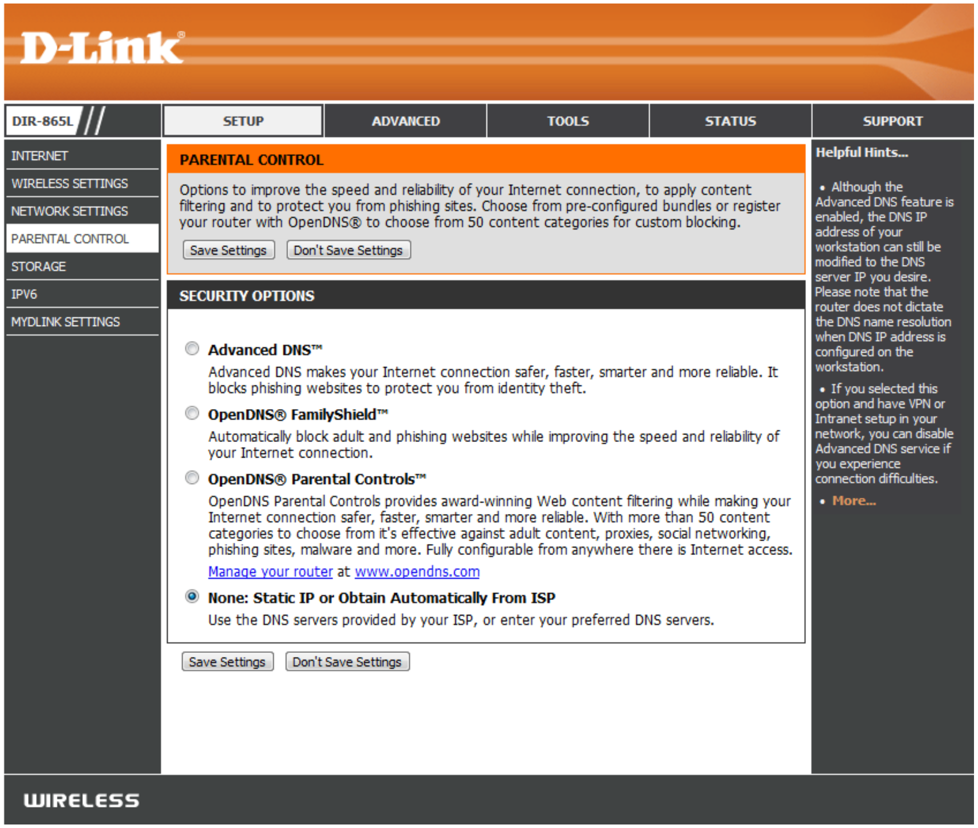
Advanced DNS Service is a free security option that provides anti-phishing protection to your network and offers navigation improvements such as auto-correction of common URL typos.

Advanced DNS: Faster, more reliable Internet browsing.

FamilyShield: Includes Advanced DNS and automatic protection from malware, phishing, and adult websites. This option uses OpenDNS.

Parental Controls: Includes Advanced DNS, FamilyShield, and customizable blocking of malware and phishing sites. You may also customize filtering of web content by category. This option uses OpenDNS.

None: DNS servers will be provided via DHCP by your ISP or you may manually enter DNS servers.



PARENTAL CONTROL

Options to improve the speed and reliability of your Internet connection, to apply content filtering and to protect you from phishing sites. Choose from pre-configured bundles or register your router with OpenDNS® to choose from 50 content categories for custom blocking.

SECURITY OPTIONS

○ **Advanced DNS™**
Advanced DNS makes your Internet connection safer, faster, smarter and more reliable. It blocks phishing websites to protect you from identity theft.

○ **OpenDNS® FamilyShield™**
Automatically block adult and phishing websites while improving the speed and reliability of your Internet connection.

○ **OpenDNS® Parental Controls™**
OpenDNS Parental Controls provides award-winning Web content filtering while making your Internet connection safer, faster, smarter and more reliable. With more than 50 content categories to choose from it's effective against adult content, proxies, social networking, phishing sites, malware and more. Fully configurable from anywhere there is Internet access.
Manage your router at www.opendns.com

● **None: Static IP or Obtain Automatically From ISP**
Use the DNS servers provided by your ISP, or enter your preferred DNS servers.

Helpful Hints...

- Although the Advanced DNS feature is enabled, the DNS IP address of your workstation can still be modified to the DNS server IP you desire. Please note that the router does not dictate the DNS name resolution when DNS IP address is configured on the workstation.
- If you selected this option and have VPN or Intranet setup in your network, you can disable Advanced DNS service if you experience connection difficulties.
- More...

Storage

This page will allow you to access files from a USB external hard drive or thumb drive that is plugged into the router from your local network or from the Internet using either a web browser or an app for your smartphone or tablet. You can create users to be allowed to access these files.

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

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

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

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

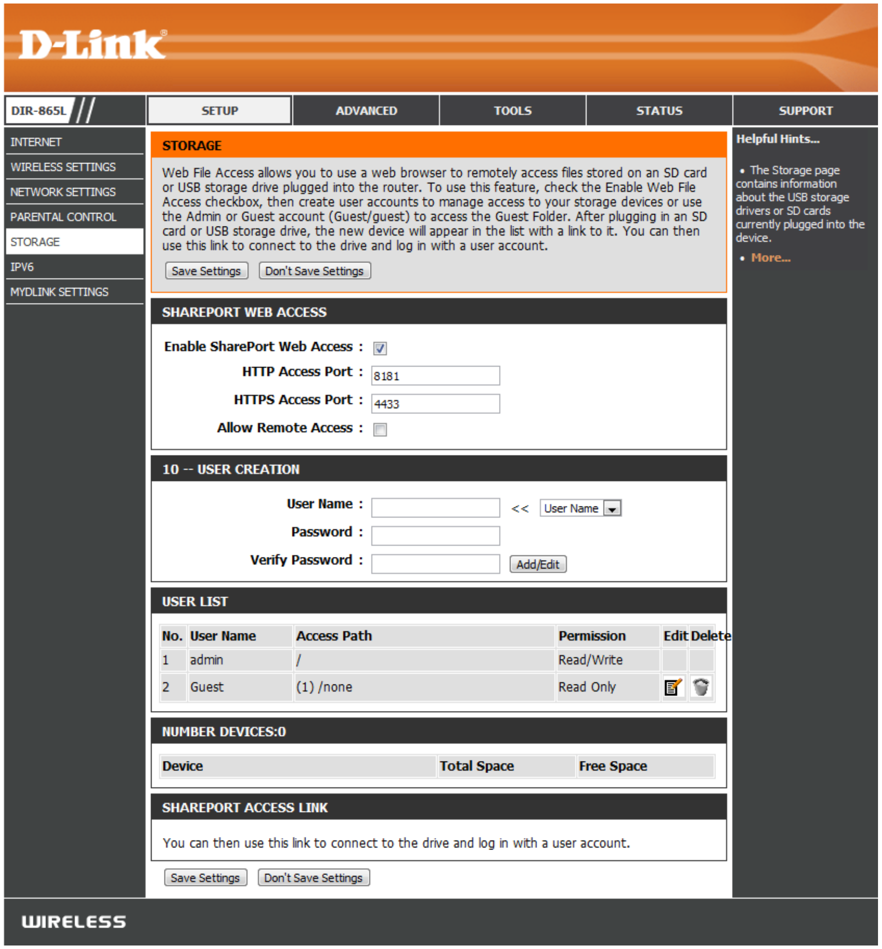
User Name: To create a new user, enter a user name.

Password: Enter a password for this account.

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

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

Number of Devices: Displays the USB device plugged into the router.



STORAGE

Web File Access allows you to use a web browser to remotely access files stored on an SD card or USB storage drive plugged into the router. To use this feature, check the Enable Web File Access checkbox, then create user accounts to manage access to your storage devices or use the Admin or Guest account (Guest/guest) to access the Guest Folder. After plugging in an SD card or USB storage drive, the new device will appear in the list with a link to it. You can then use this link to connect to the drive and log in with a user account.

Helpful Hints...

- The Storage page contains information about the USB storage drivers or SD cards currently plugged into the device.
- More...

SHAREPORT WEB ACCESS

Enable SharePort Web Access : ☑
HTTP Access Port : 8181
HTTPS Access Port : 4433
Allow Remote Access : ☐

10 -- USER CREATION

User Name : << User Name
Password :
Verify Password :

USER LIST

No.	User Name	Access Path	Permission	Edit	Delete
1	admin	/	Read/Write		
2	Guest	(1) /none	Read Only	✎	🗑

NUMBER DEVICES:0

Device	Total Space	Free Space

SHAREPORT ACCESS LINK

You can then use this link to connect to the drive and log in with a user account.

Access Files from the Internet

If you would like to access your files that are on your USB thumb drive or external hard drive that is connected to your router, follow the steps below:

Step 1 - Enable Web File Access
Check the Enable Web File Access checkbox to enable. Then select if you want to use HTTP or HTTPS (secure) and enter the port(s) you want to use. The default for HTTP is 8181 and HTTPS is 4433.

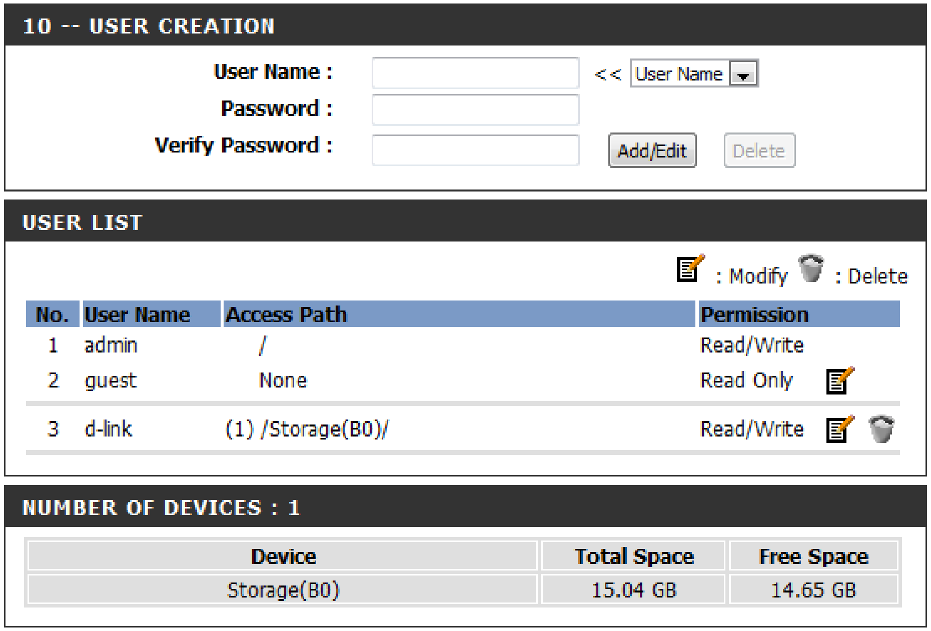
Step 2 - Create a User Account
Under *User Creation*, enter a username and password, and then click **Add/Edit**.

Step 3 - Configure your Access Path
Under *User List*, click the **Modify** icon for the user you just created. Here you can browse to the folder on your USB storage device you want to assign the Access Path to.

Step 4 - Save Settings
If you want to add more users, repeat steps 3 and 4. Once you are finished, click the **Save Settings** button at the top to save your settings.

Note that under the HTTP Storage Link (at the bottom) will display the URL(s) you can use to connect. Also if you selected HTTPS, you must type in **HTTPS://** instead of **HTTP://** to get a secure connection.

For example, if you selected HTTPS and changed the port to 3200, and your WAN IP address is 1.2.3.4, then you would enter **HTTPS://1.2.3.4:3200** to connect.



10 -- USER CREATION

User Name :	<< User Name
Password :	
Verify Password :	

USER LIST

No.	User Name	Access Path	Permission	
1	admin	/	Read/Write	
2	guest	None	Read Only	📝
3	d-link	(1) /Storage(B0)/	Read/Write	📝 🗑

NUMBER OF DEVICES : 1

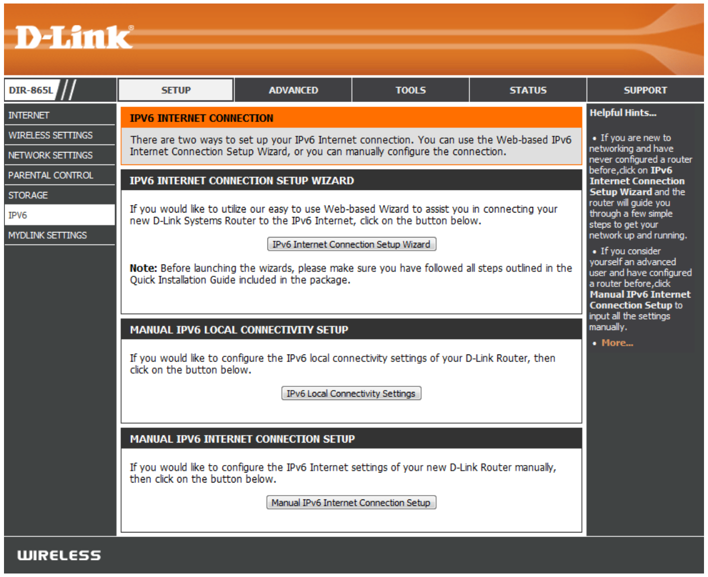
Device	Total Space	Free Space
Storage(B0)	15.04 GB	14.65 GB

IPv6

On this page, the user 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.

For the beginner user 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.

For the 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

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

IPV6 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 IPv6 Internet, click on the button below.

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

MANUAL IPV6 LOCAL CONNECTIVITY SETUP

If you would like to configure the IPv6 local connectivity settings of your D-Link Router, then click on the button below.

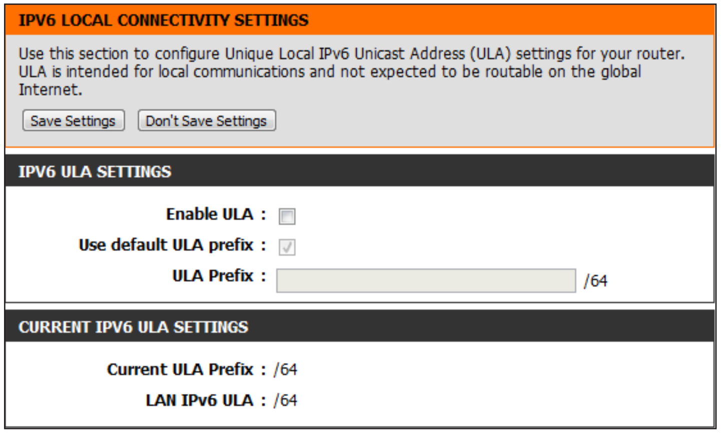
MANUAL IPV6 INTERNET CONNECTION SETUP

If you would like to configure the IPv6 Internet settings of your new D-Link Router manually, then click on the button below.

Helpful Hints...

- If you are new to networking and have never configured a router before,click on **IPv6 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 IPv6 Internet Connection Setup** to input all the settings manually.

To configure the IPv6 local settings, click on the **IPv6 Local Connectivity Setup** button.



IPV6 LOCAL CONNECTIVITY SETTINGS

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

IPV6 ULA SETTINGS

Enable ULA : □

Use default ULA prefix : ☑

ULA Prefix : /64

CURRENT IPV6 ULA SETTINGS

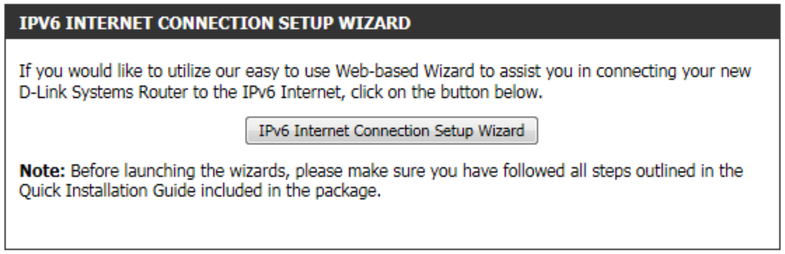
Current ULA Prefix : /64

LAN IPv6 ULA : /64

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.

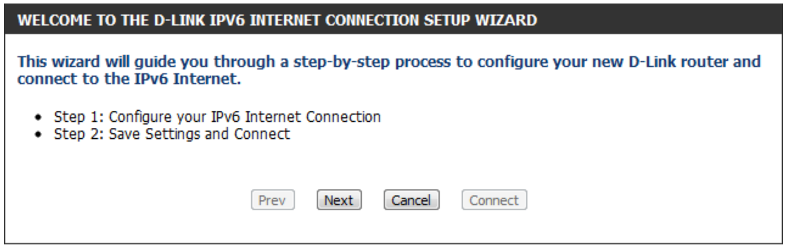


IPV6 INTERNET CONNECTION SETUP WIZARD

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 IPv6 Internet, click on the button below.

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

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

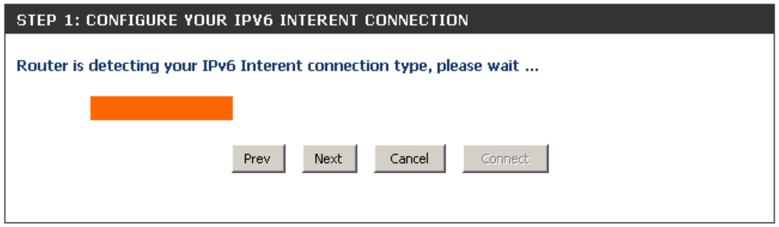


WELCOME TO THE D-LINK IPV6 INTERNET CONNECTION SETUP WIZARD

This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the IPv6 Internet.

- Step 1: Configure your IPv6 Internet Connection
- Step 2: Save Settings and Connect

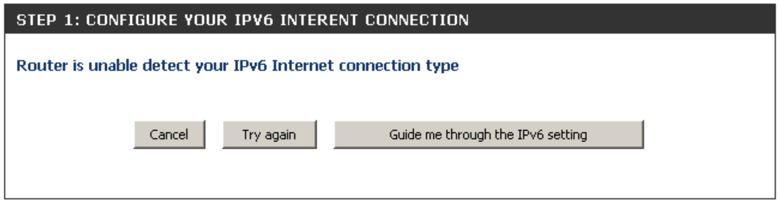
The router will try to detect whether its possible to obtain the IPv6 Internet connection type automatically. If this succeeds then the user will be guided through the input of the appropriate parameters for the connection type found.



STEP 1: CONFIGURE YOUR IPV6 INTERENT CONNECTION

Router is detecting your IPv6 Interent connection type, please wait ...

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.



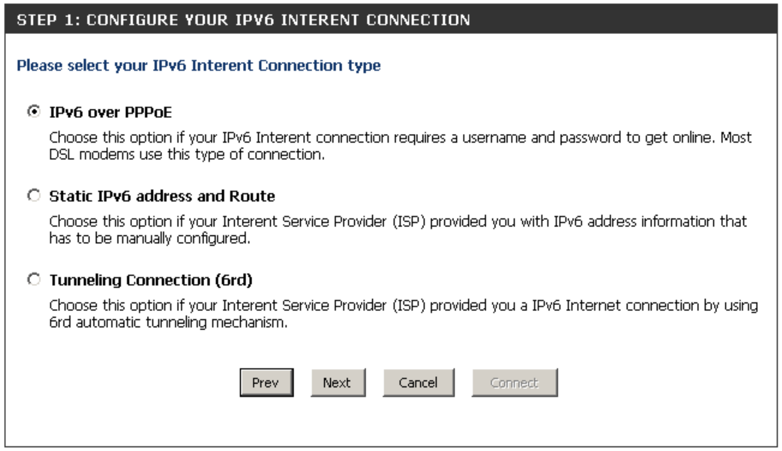
STEP 1: CONFIGURE YOUR IPV6 INTERENT CONNECTION

Router is unable detect your IPv6 Internet connection type

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.

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:

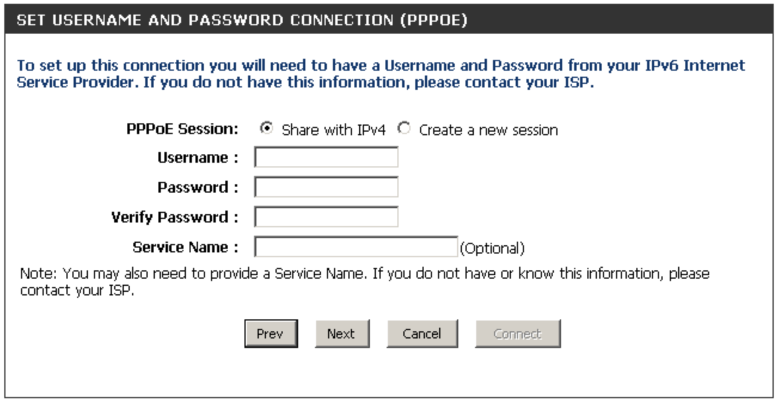
PPPoE Session: Select the PPPoE Session value used here. This option will state that this connection shares it's information with the already configured IPv6 PPPoE connection, or the user can create a new PPPoE connection here.

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 :

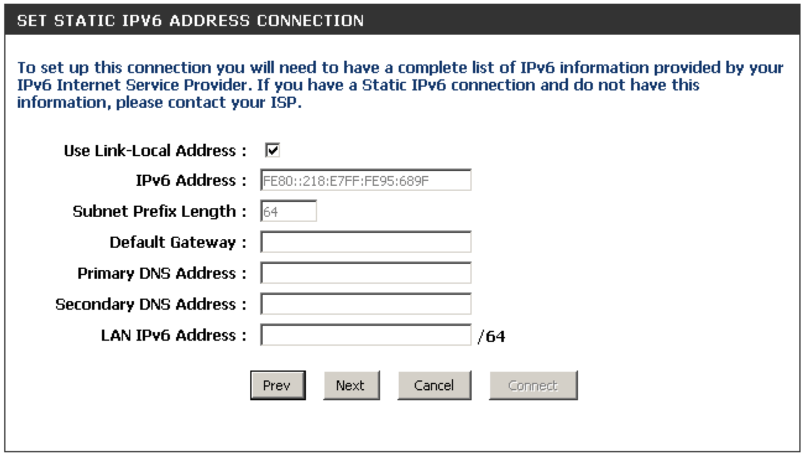
Verify Password :

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.



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 :	FE80::218:E7FF:FE95:689F
Subnet Prefix Length :	64
Default Gateway :	
Primary DNS Address :	
Secondary DNS Address :	
LAN IPv6 Address :	/64

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

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

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

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

Primary IPv6 DNS Address: Enter the WAN primary DNS Server address used here.

Secondary IPv6 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.)

Tunneling Connection (6rd)

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

The following parameters will be available for configuration:

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

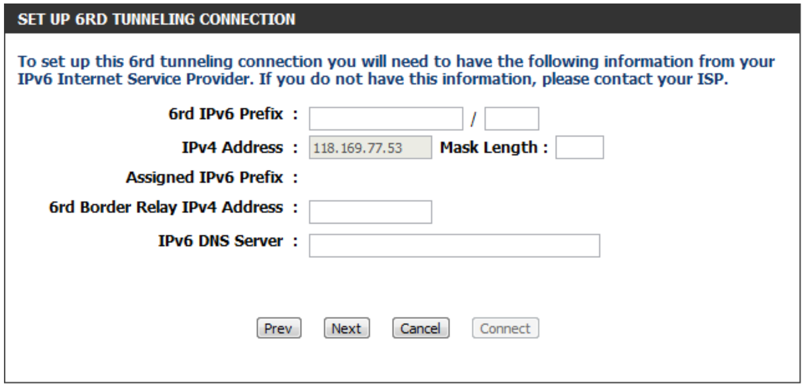
IPv4 Address: Enter the IPv4 address used here.

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 : /

IPv4 Address : 118.169.77.53 Mask Length :

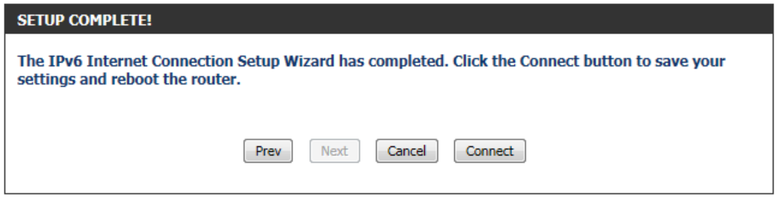
Assigned IPv6 Prefix :

6rd Border Relay IPv4 Address :

IPv6 DNS Server :

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.

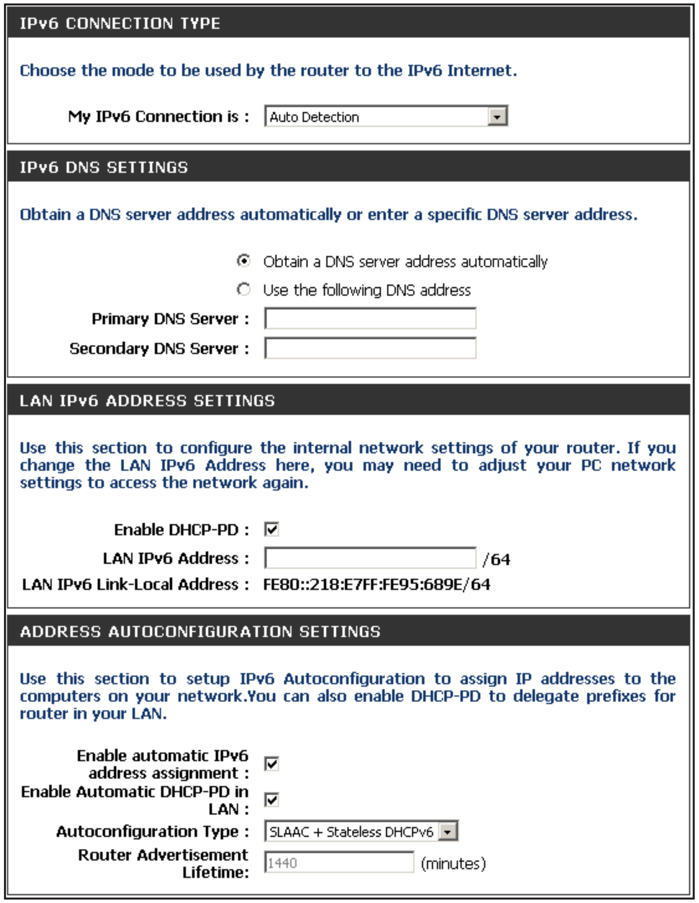
IPv6 Manual Setup

There are several connection types to choose from: Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IPv4 Tunnel, 6to4, 6rd, and Link-local. 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.

Auto Detection

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



IPv6 CONNECTION TYPE

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

My IPv6 Connection is : Auto Detection

IPv6 DNS SETTINGS

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

● Obtain a DNS server address automatically
○ Use the following DNS address

Primary DNS Server :

Secondary DNS Server :

LAN IPv6 ADDRESS SETTINGS

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

Enable DHCP-PD : ☑

LAN IPv6 Address : /64

LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable automatic IPv6 address assignment : ☑

Enable Automatic DHCP-PD in LAN : ☑

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime: 1440 (minutes)

Static IPv6

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

WAN IPv6 Address Settings: Enter the address settings supplied by your Internet provider (ISP).

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

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

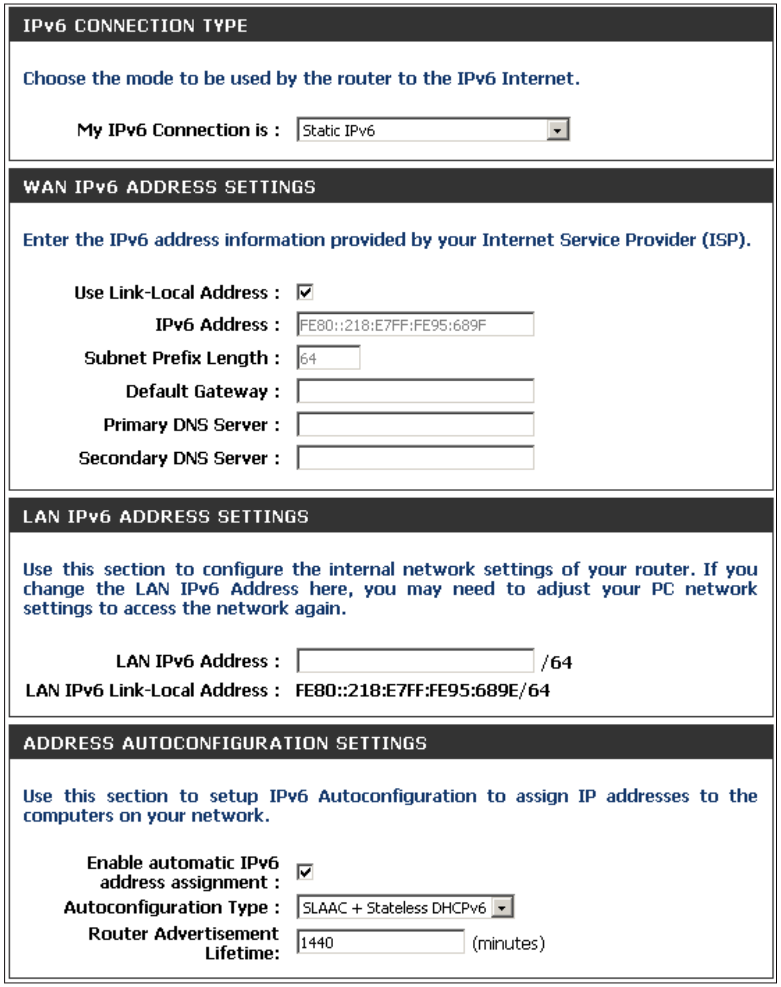
Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

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

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

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

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



IPv6 CONNECTION TYPE

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

My IPv6 Connection is : Static IPv6

WAN IPv6 ADDRESS SETTINGS

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

Use Link-Local Address : ☑
IPv6 Address : FE80::218:E7FF:FE95:689F
Subnet Prefix Length : 64
Default Gateway :
Primary DNS Server :
Secondary DNS Server :

LAN IPv6 ADDRESS SETTINGS

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

LAN IPv6 Address : /64
LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable automatic IPv6 address assignment : ☑
Autoconfiguration Type : SLAAC + Stateless DHCPv6
Router Advertisement Lifetime: 1440 (minutes)

Autoconfiguration

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

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.

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

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

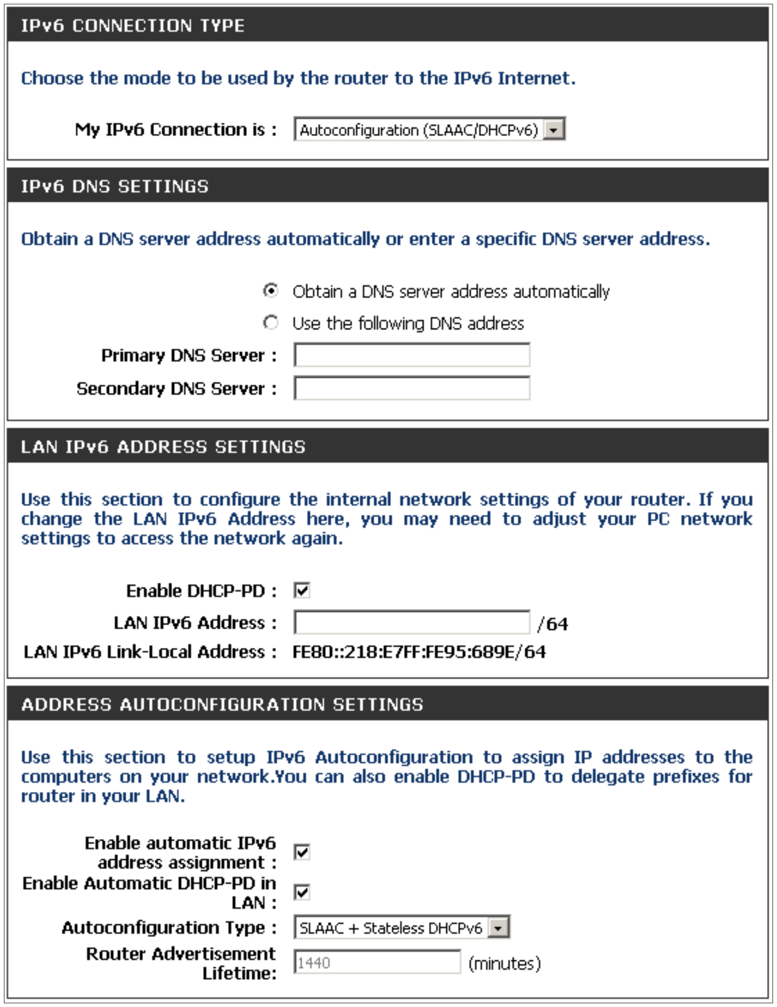
Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

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

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

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

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



IPv6 CONNECTION TYPE

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

My IPv6 Connection is : Autoconfiguration (SLAAC/DHCPv6)

IPv6 DNS SETTINGS

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

● Obtain a DNS server address automatically

○ Use the following DNS address

Primary DNS Server :

Secondary DNS Server :

LAN IPv6 ADDRESS SETTINGS

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

Enable DHCP-PD : ☑

LAN IPv6 Address : /64

LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable automatic IPv6 address assignment : ☑

Enable Automatic DHCP-PD in LAN : ☑

Autoconfiguration Type : SLAAC + Stateless DHCPv6

Router Advertisement Lifetime: 1440 (minutes)

PPPoE

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

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

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).

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).

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. To disable this feature, enable Auto-reconnect.

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

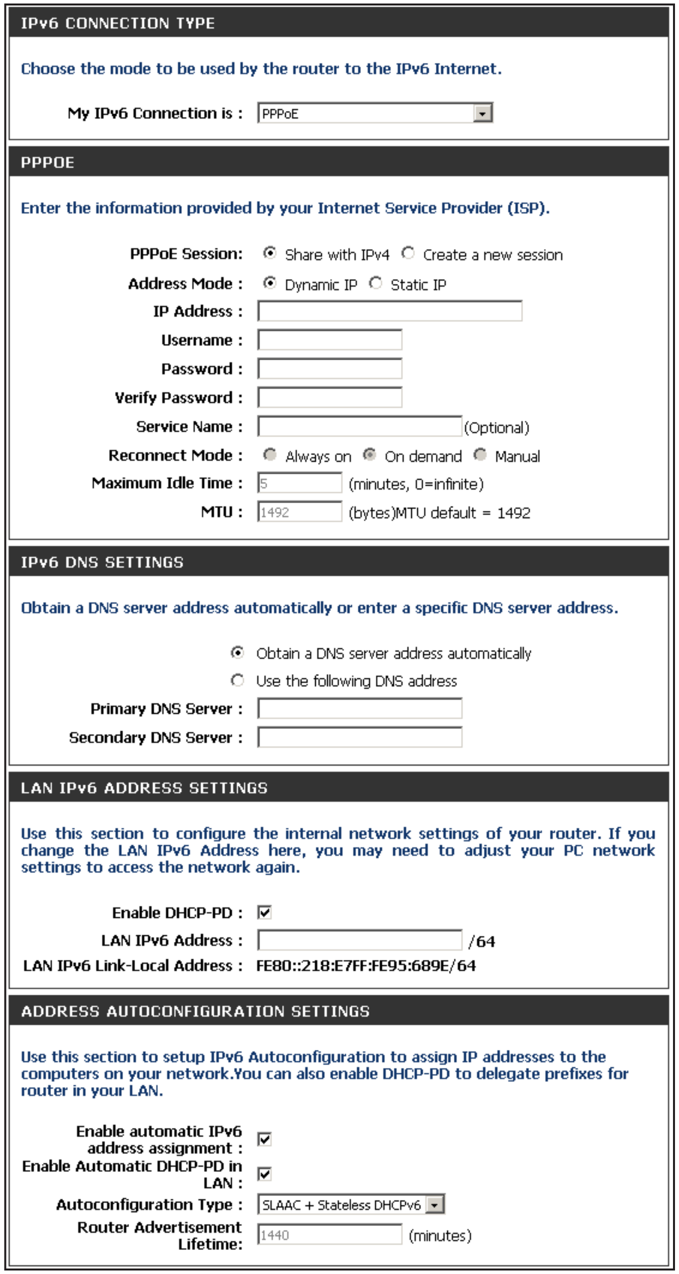
IPv6 DNS Settings: Select either **Obtain DNS server address automatically** or **Use the following DNS Address**.

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 Autoconfiguration: Check to enable the Autoconfiguration feature.



IPV6 CONNECTION TYPE

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

My IPv6 Connection is : PPPoE

PPPOE

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

PPPoE Session: ● Share with IPv4 ○ Create a new session
Address Mode : ● Dynamic IP ○ Static IP
IP Address :
Username :
Password :
Verify Password :
Service Name : (Optional)
Reconnect Mode : ○ Always on ● On demand ○ Manual
Maximum Idle Time : 5 (minutes, 0=infinite)
MTU : 1492 (bytes)MTU default = 1492

IPV6 DNS SETTINGS

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

● Obtain a DNS server address automatically
○ Use the following DNS address
Primary DNS Server :
Secondary DNS Server :

LAN IPV6 ADDRESS SETTINGS

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

Enable DHCP-PD : ☑
LAN IPv6 Address : /64
LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64

ADDRESS AUTOCONFIGURATION SETTINGS

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

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

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

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

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

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

IPv6 in IPv4 Tunneling

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

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

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

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

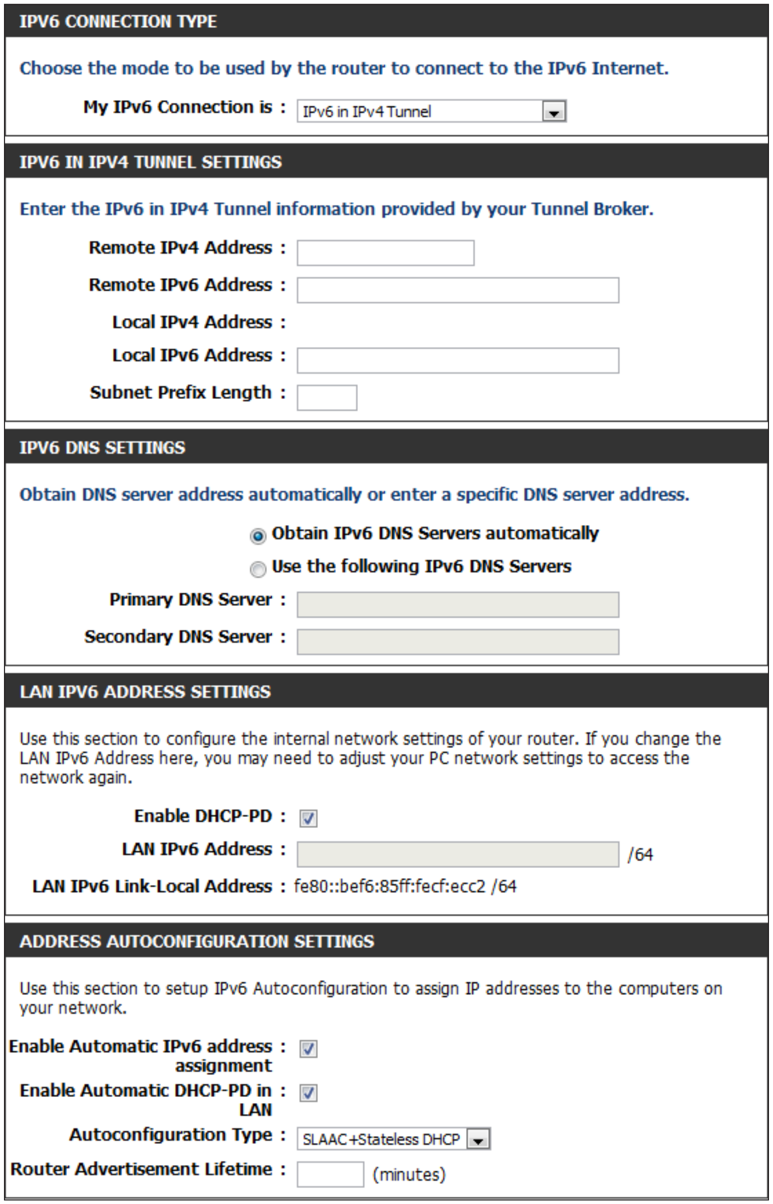
Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

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

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

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

Pv6 Address Lifetime: Enter the Router Advertisement Lifetime (in minutes).



IPV6 CONNECTION TYPE

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

My IPv6 Connection is : IPv6 in IPv4 Tunnel

IPV6 IN IPV4 TUNNEL SETTINGS

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

Remote IPv4 Address :

Remote IPv6 Address :

Local IPv4 Address :

Local IPv6 Address :

Subnet Prefix Length :

IPV6 DNS SETTINGS

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

● Obtain IPv6 DNS Servers automatically

○ Use the following IPv6 DNS Servers

Primary DNS Server :

Secondary DNS Server :

LAN IPV6 ADDRESS SETTINGS

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

Enable DHCP-PD : ☑

LAN IPv6 Address : /64

LAN IPv6 Link-Local Address : fe80::bef6:85ff:fecf:ecc2 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☑

Enable Automatic DHCP-PD in LAN : ☑

Autoconfiguration Type : SLAAC+Stateless DHCP

Router Advertisement Lifetime : (minutes)

6 to 4 Tunneling

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

6 to 4 Settings: Enter the IPv6 settings supplied by your Internet provider (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.

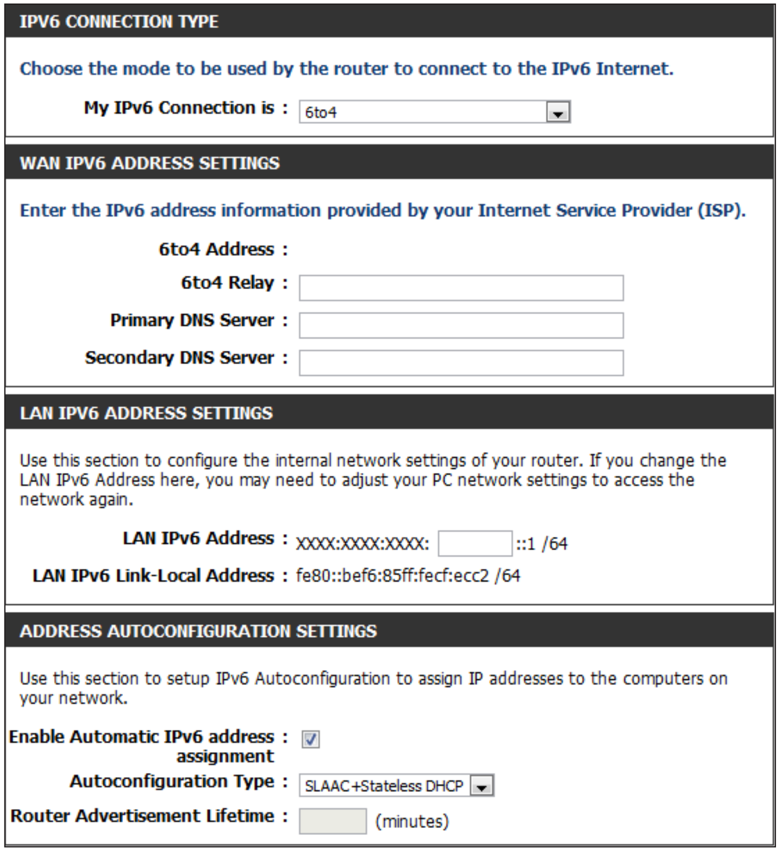
Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

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

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

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

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



IPV6 CONNECTION TYPE

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

My IPv6 Connection is : 6to4

WAN IPV6 ADDRESS SETTINGS

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

6to4 Address :

6to4 Relay :

Primary DNS Server :

Secondary DNS Server :

LAN IPV6 ADDRESS SETTINGS

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

LAN IPv6 Address : XXXX:XXXX:XXXX: ::1 /64

LAN IPv6 Link-Local Address : fe80::bef6:85ff:fecf:ecc2 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☑

Autoconfiguration Type : SLAAC+Stateless DHCP

Router Advertisement Lifetime : (minutes)

6rd

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

6RD Settings: Enter the address settings supplied by your Internet provider (ISP).

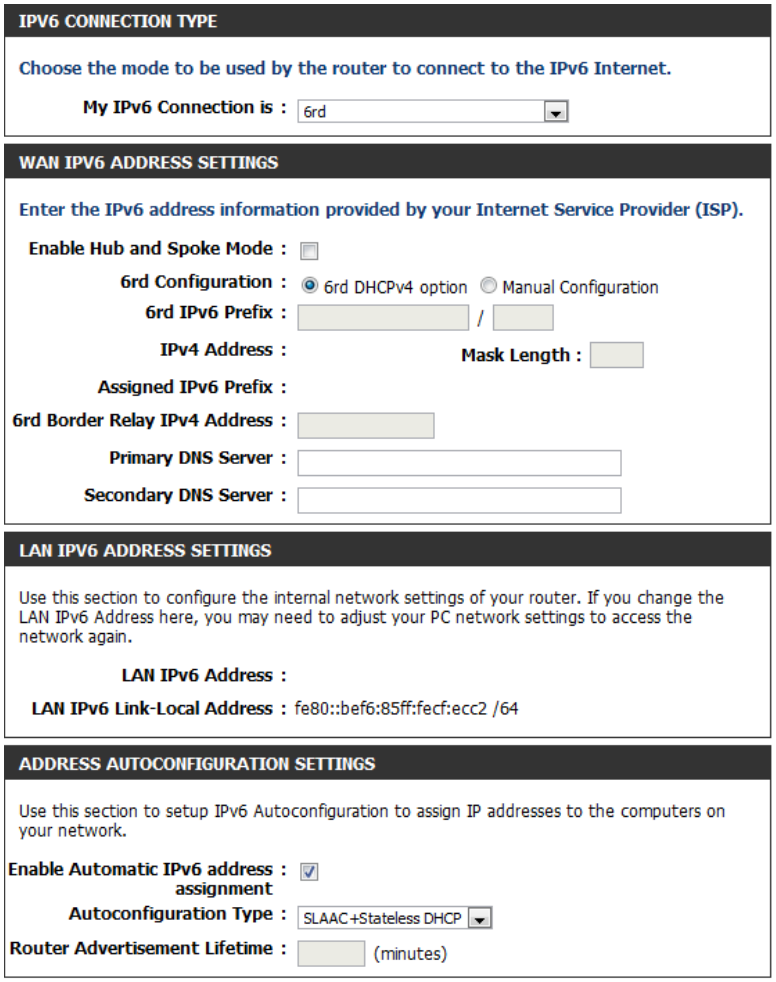
LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

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

Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

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

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



IPV6 CONNECTION TYPE

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

My IPv6 Connection is : 6rd

WAN IPV6 ADDRESS SETTINGS

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

Enable Hub and Spoke Mode : □

6rd Configuration : ● 6rd DHCPv4 option ○ Manual Configuration

6rd IPv6 Prefix : /

IPv4 Address : Mask Length :

Assigned IPv6 Prefix :

6rd Border Relay IPv4 Address :

Primary DNS Server :

Secondary DNS Server :

LAN IPV6 ADDRESS SETTINGS

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

LAN IPv6 Address :

LAN IPv6 Link-Local Address : fe80::bef6:85ff:fecf:ecc2 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☑

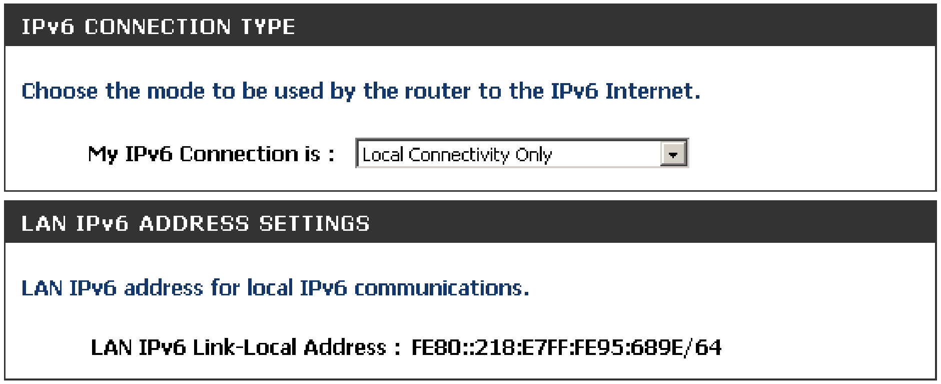
Autoconfiguration Type : SLAAC+Stateless DHCP

Router Advertisement Lifetime : (minutes)

Link-Local Connectivity

My IPv6 Connection: 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 communications.

LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64

mydlink Settings

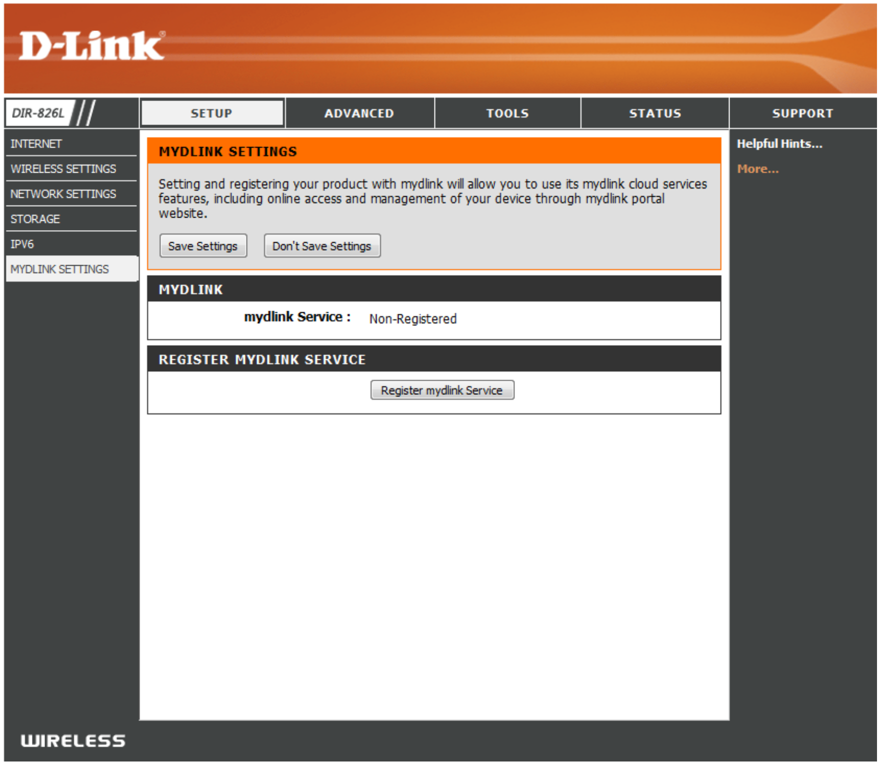
The DIR-865L features a cloud service that pushes information such as firmware upgrade notifications, user activity, and intrusion alerts to the mydlink™ app on Android and Apple mobile devices. To insure that your router is up-to-date with the latest features, mydlink™ will notify you when an update is available for your router. You can also monitor a user’s online activity with real-time website browsing history, maintaining a safe and secure environment, especially for children at home.

On this page the user can configure the mydlink™ settings for this router. This feature will allow us to use the mydlink cloud services that includes online access and management of this router through the mydlink portal website or portable device applications like iOS apps and Android applications.

In the mydlink section, we can view the registration status of the mydlink account service. The mydlink Service field will either display Registered or Non-Registered. In the Register mydlink Service section, we can register or modify a mydlink account. Click on the Register mydlink Service button to initiate this procedure.

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

Register mydlink Settings: Click to go to the mydlink website to register or edit your settings. Please refer to page 19 for the registration steps.



MYDLINK SETTINGS

Setting and registering your product with mydlink will allow you to use its mydlink cloud services features, including online access and management of your device through mydlink portal website.

MYDLINK

mydlink Service : Non-Registered

REGISTER MYDLINK SERVICE

Advanced

Virtual Server

This 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.

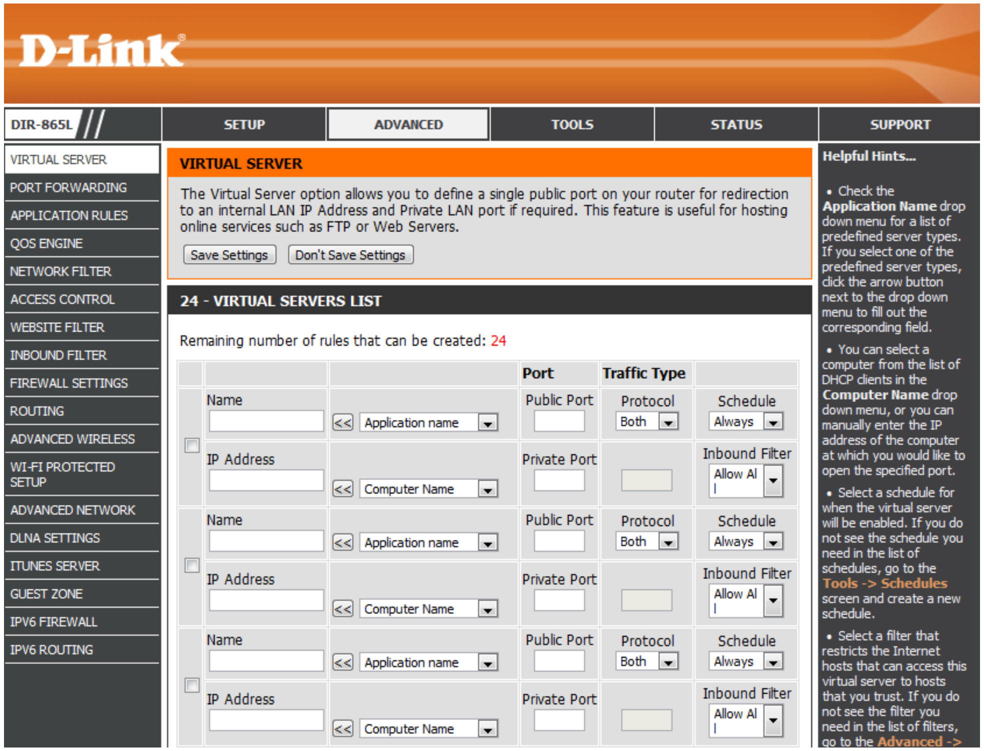
IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), you computer will be listed in the "Computer Name" drop-down menu. Select your computer and click **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

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

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

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



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.

24 - VIRTUAL SERVERS LIST

Remaining number of rules that can be created: 24

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

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 ->**

Port Forwarding

This 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.

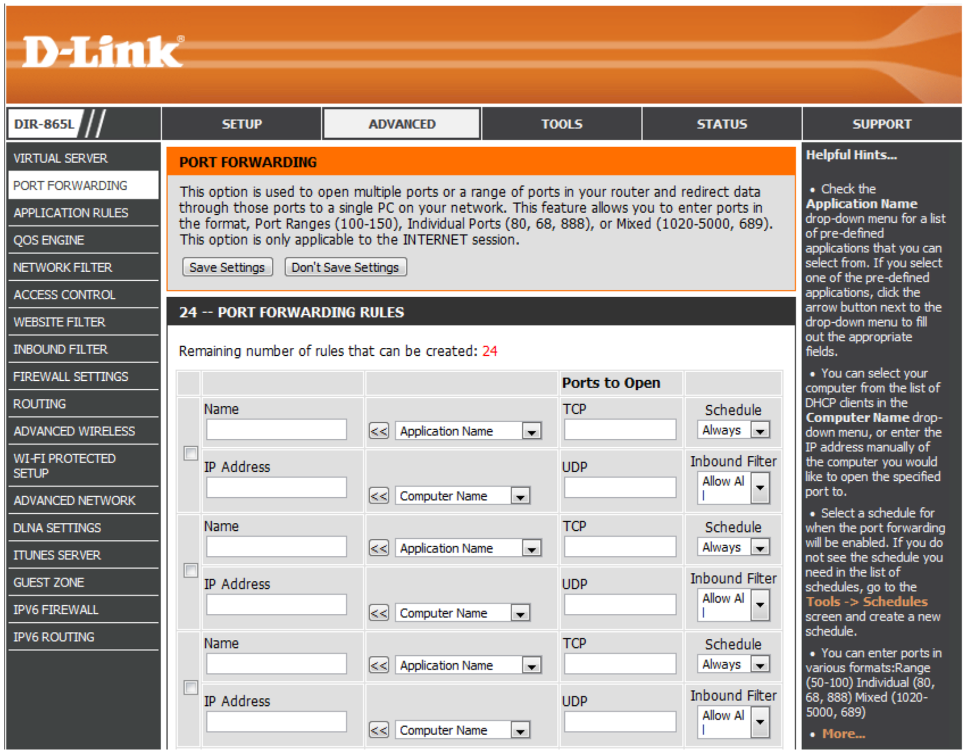
IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), you computer will be listed in the “Computer Name” drop-down menu. Select your computer and click **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

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



PORT FORWARDING

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

24 -- PORT FORWARDING RULES

Remaining number of rules that can be created: 24

			Ports to Open	
□	Name	<< Application Name	TCP	Schedule Always
	IP Address	<< Computer Name	UDP	Inbound Filter Allow Al
□	Name	<< Application Name	TCP	Schedule Always
	IP Address	<< Computer Name	UDP	Inbound Filter Allow Al
□	Name	<< Application Name	TCP	Schedule Always
	IP Address	<< Computer Name	UDP	Inbound Filter Allow Al

Helpful Hints...

- Check the **Application Name** drop-down menu for a list of pre-defined applications that you can select from. If you select one of the pre-defined applications, click the arrow button next to the drop-down menu to fill out the appropriate fields.
- You can select your computer from the list of DHCP clients in the **Computer Name** drop-down menu, or enter the IP address manually of the computer you would like to open the specified port to.
- Select a schedule for when the port forwarding will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Tools -> Schedules** screen and create a new schedule.
- You can enter ports in various formats:Range (50-100) Individual (80, 68, 888) Mixed (1020-5000, 689)
- **More...**

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 DIR-865L. 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.

The DIR-865L provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

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

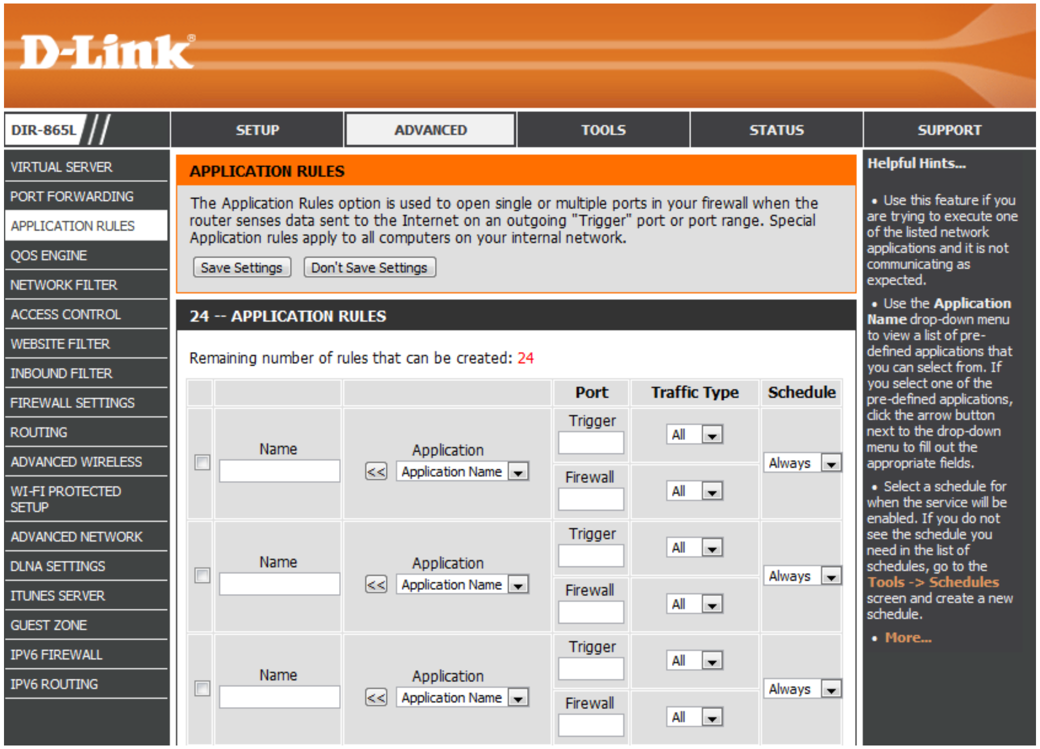
Trigger: This is the port used to trigger the application. It can be either a single port or a range of ports.

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.



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.

24 -- APPLICATION RULES

Remaining number of rules that can be created: 24

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

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 automatically classified. The QoS section contains a queuing mechanism, traffic shaping and classification. It supports two kinds of queuing mechanisms. Strict Priority Queue (SPQ) and Weighted Fair Queue (WFQ). SPQ will process traffic based on traffic priority. Queue1 has the highest priority and Queue4 has the lowest priority. WFQ will process traffic based on the queue weight. Users can configure each queue's weight. The sum of all the queue's weight must be 100. When surfing the Internet, the system will do traffic shaping based on the uplink and downlink speed. The classification rules can be used to classify traffic to different queues, then SPQ or WFQ will do QoS based on the queue's priority or weight.

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

Uplink Speed: The speed at which data can be transferred from the router to your ISP. This is determined by your ISP.

Downlink Speed: The speed at which data can be transferred from the Internet to your router. This is determined by your ISP.

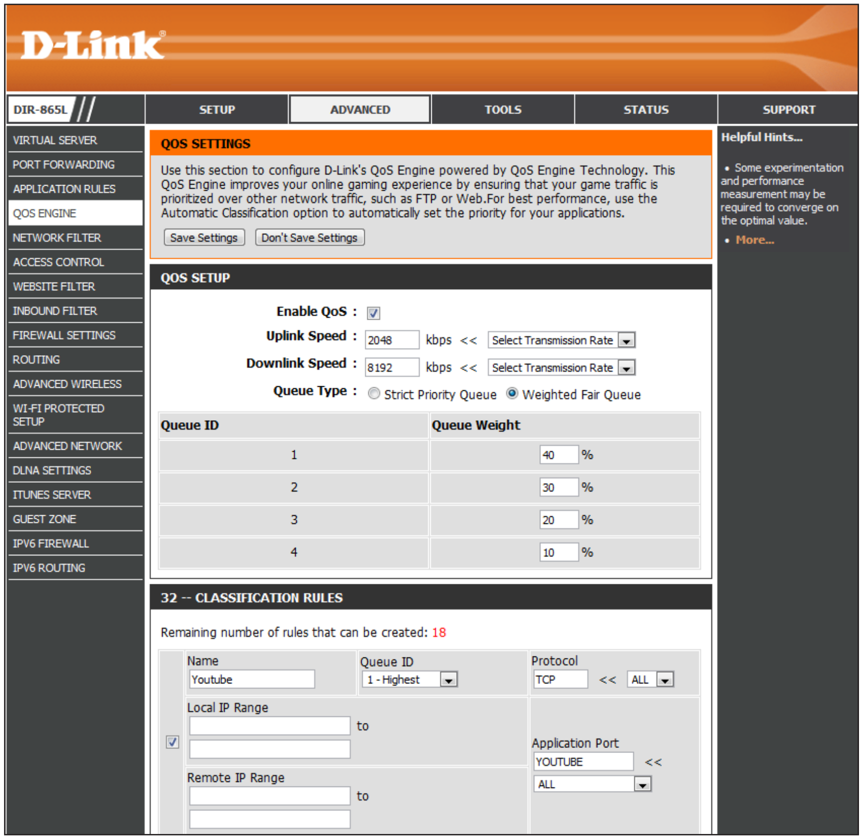
Queue Type: Select either **Strict Priority Queue** (rank in order) or **Weighted Fair Queue** (percentage).

Queue ID: The Queue ID used will be displayed.

Queue Priority: The Queue Priority used will be displayed.

Queue Weight: After selecting the Weight Fair Queue option, under Queue Type, you will be able to manually enter the Queue Weight for each individual Queue ID.

Queue Type: A Classification 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.



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.

Helpful Hints...

- Some experimentation and performance measurement may be required to converge on the optimal value.
- More...

QOS SETUP

Enable QoS : ☑

Uplink Speed : 2048 kbps << Select Transmission Rate

Downlink Speed : 8192 kbps << Select Transmission 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

Remote IP Range: to

Application Port: YOUTUBE << ALL

After specifying the QoS framework used, in the QoS setup section, the user can now create individual rules for scenarios that require the use of traffic control and data priority manipulation.

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

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

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

Protocol: 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.

Application Port: Select a service or port you want to assign to this rule.

Click on the **Save Settings** button to accept the changes made or click on the **Don’t Save Settings** button to discard the changes made.

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.

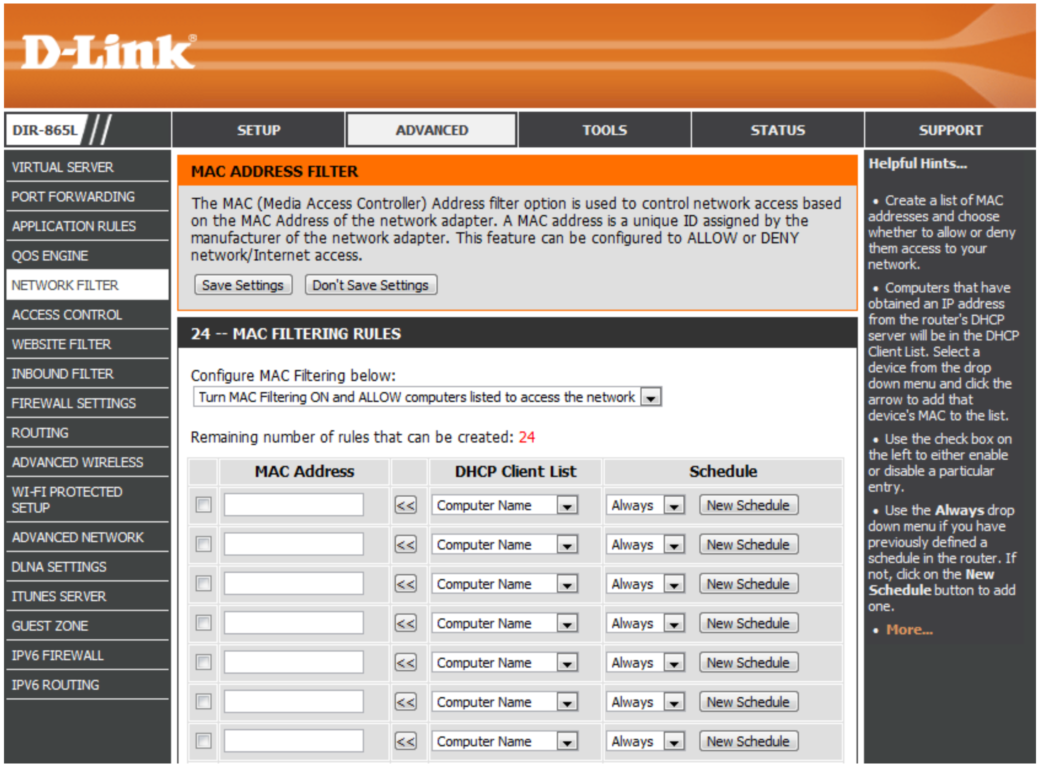
Configure MAC Filtering: Select **Turn MAC Filtering Off**, **Allow MAC addresses listed below**, or **Deny MAC addresses listed below** from the drop-down menu.

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.

Schedule: Select a pre-defined or user created schedule from the drop-down menu, or click **New Schedule** to create a new schedule. You set a specific time frame for the MAC filter rule to be active.



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.

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

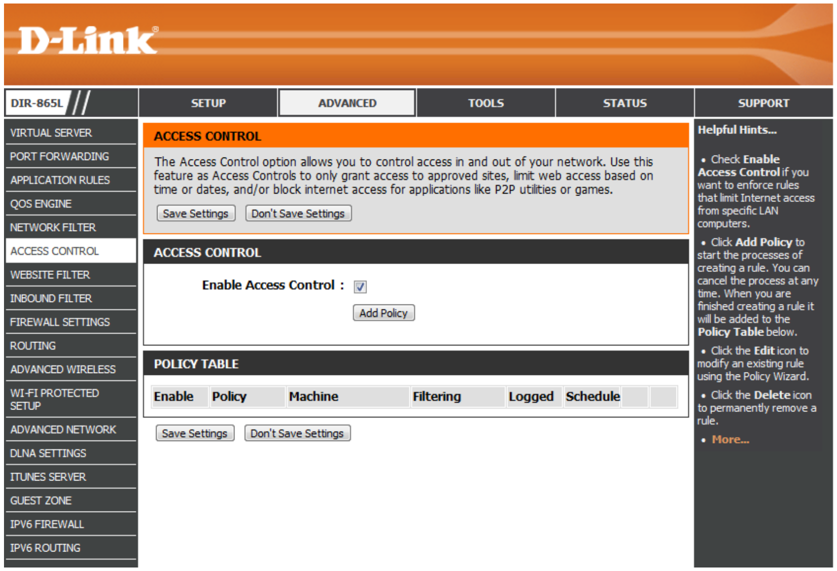
Helpful Hints...

- 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

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.

ACCESS CONTROL

Enable Access Control : ☑

POLICY TABLE

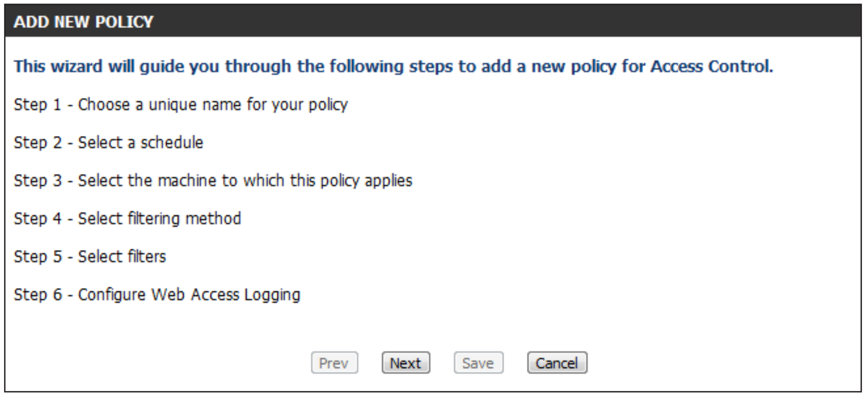
Enable	Policy	Machine	Filtering	Logged	Schedule

Helpful Hints...

- Check **Enable Access Control** if you want to enforce rules that limit Internet access from specific LAN computers.
- Click **Add Policy** to start the processes of creating a rule. You can cancel the process at any time. When you are finished creating a rule it will be added to the **Policy Table** below.
- Click the **Edit** icon to modify an existing rule using the Policy Wizard.
- Click the **Delete** icon to permanently remove a rule.
- More...

Access Control Wizard

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



ADD NEW POLICY

This wizard will guide you through the following steps to add a new policy for Access Control.

Step 1 - Choose a unique name for your policy

Step 2 - Select a schedule

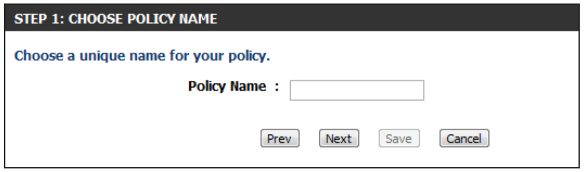
Step 3 - Select the machine to which this policy applies

Step 4 - Select filtering method

Step 5 - Select filters

Step 6 - Configure Web Access Logging

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

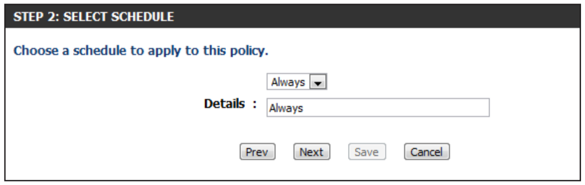


STEP 1: CHOOSE POLICY NAME

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

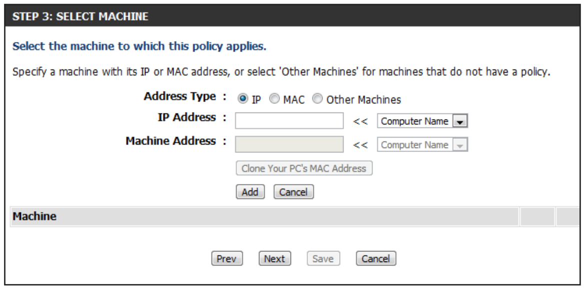
Choose a schedule to apply to this policy.

Always

Details : Always

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.

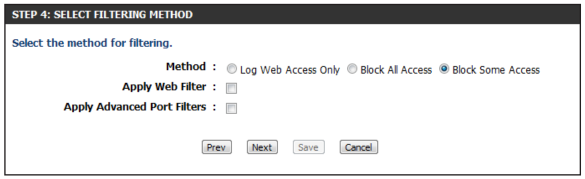
Address Type : ● IP ○ MAC ○ Other Machines

IP Address : << Computer Name

Machine Address : << Computer Name

Machine

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.

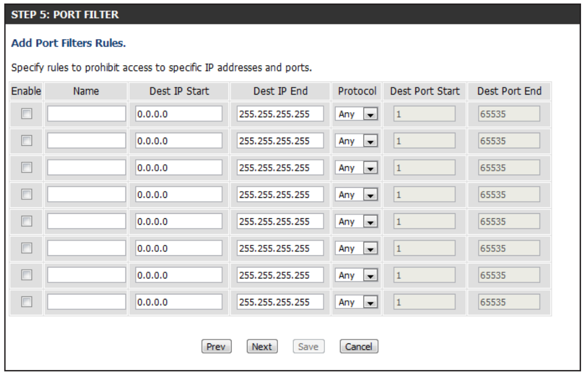
Dest IP Start - Enter the starting IP address.

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.



STEP 5: PORT FILTER

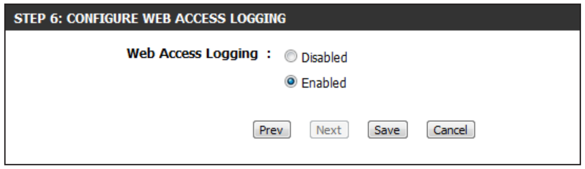
Add Port Filters Rules.

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	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535
□		0.0.0.0	255.255.255.255	Any	1	65535

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

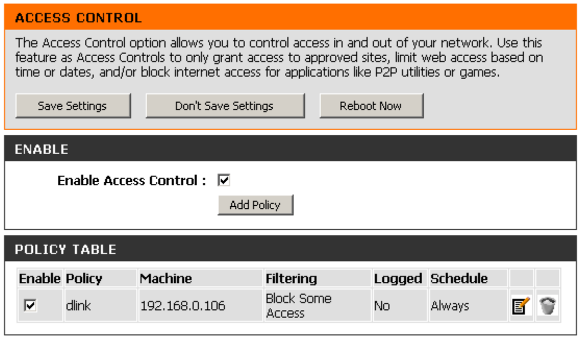
Click **Save** to save the access control rule.



STEP 6: CONFIGURE WEB ACCESS LOGGING

Web Access Logging : ○ Disabled ● Enabled

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



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.

ENABLE

Enable Access Control : ☑

POLICY TABLE

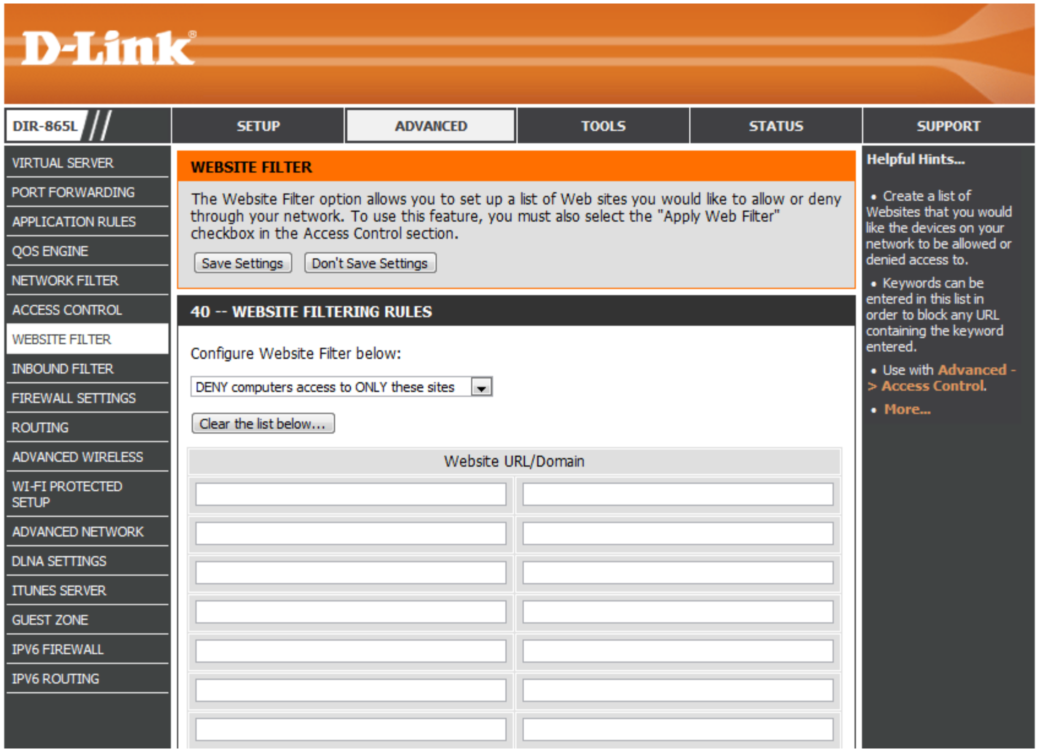
Enable	Policy	Machine	Filtering	Logged	Schedule		
☑	dlink	192.168.0.106	Block Some Access	No	Always		

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 (page 79).

Add Website Filtering Rule: 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**.



WEBSITE FILTER

The Website Filter option allows you to set up a list of Web sites you would like to allow or deny through your network. To use this feature, you must also select the "Apply Web Filter" checkbox in the Access Control section.

40 -- WEBSITE FILTERING RULES

Configure Website Filter below:

DENY computers access to ONLY these sites

Website URL/Domain

Helpful Hints...

- Create a list of Websites that you would like the devices on your network to be allowed or denied access to.
- Keywords can be entered in this list in order to block any URL containing the keyword entered.
- Use with Advanced -> Access Control.
- More...

Inbound Filters

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

Name: Enter a name for the inbound filter rule.

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

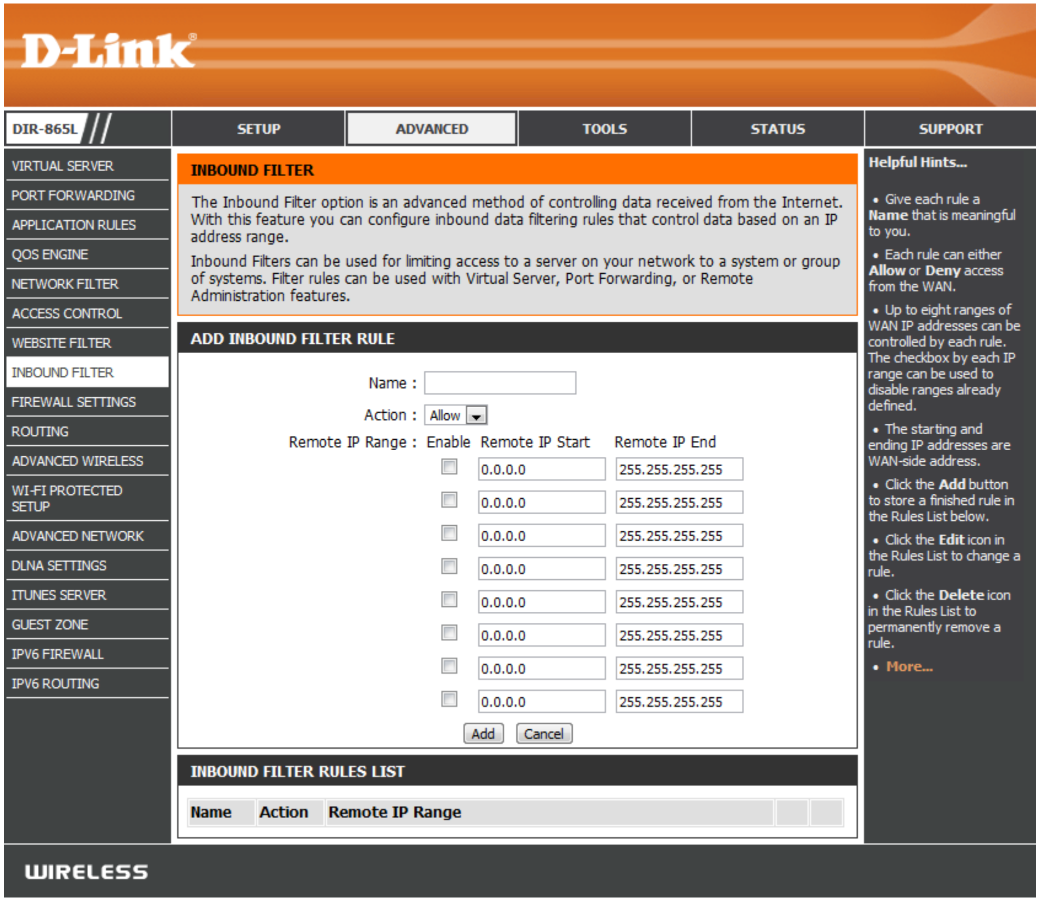
Enable: Check to enable rule.

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 and 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.



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

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

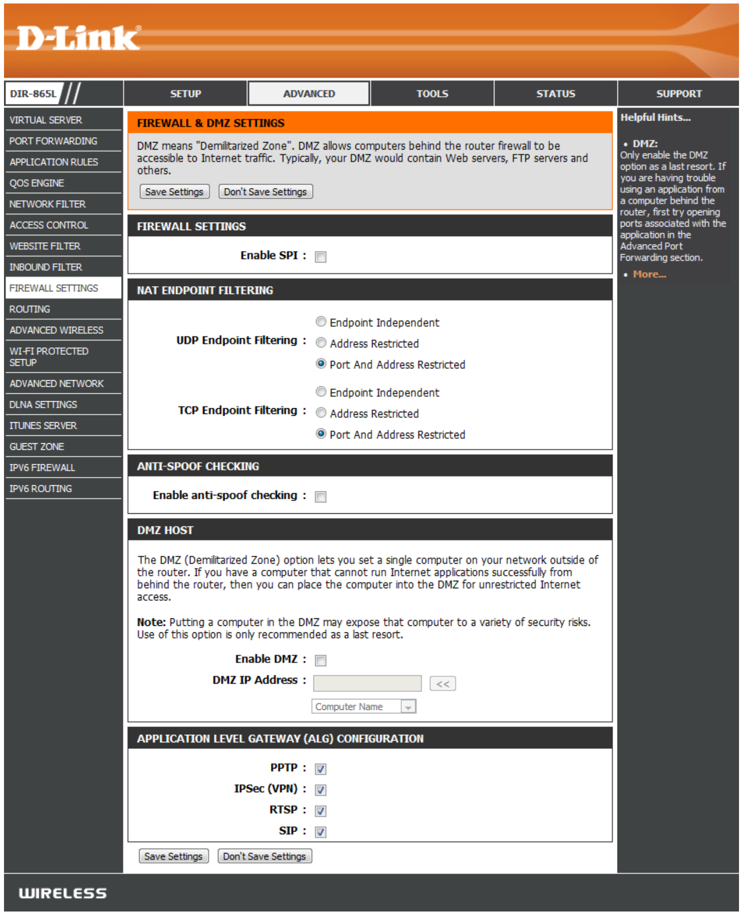
Name	Action	Remote IP Range		

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 DIR-865L 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.



FIREWALL & DMZ SETTINGS

DMZ means "Demilitarized Zone". DMZ allows computers behind the router firewall to be accessible to Internet traffic. Typically, your DMZ would contain Web servers, FTP servers and others.

FIREWALL SETTINGS

Enable SPI : □

NAT ENDPOINT FILTERING

UDP Endpoint Filtering : ○ Endpoint Independent ○ Address Restricted ● Port And Address Restricted

TCP Endpoint Filtering : ○ Endpoint Independent ○ Address Restricted ● Port And Address Restricted

ANTI-SPOOF CHECKING

Enable anti-spoof checking : □

DMZ HOST

The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access.

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

Enable DMZ : □

DMZ IP Address : << Computer Name

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

PPTP : ☑

IPSec (VPN) : ☑

RTSP : ☑

SIP : ☑

Helpful Hints...

- **DMZ:** Only enable the DMZ option as a last resort. If you are having trouble using an application from a computer behind the router, first try opening ports associated with the application in the Advanced Port Forwarding section.

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.

NAT Endpoint Filtering: Select one of the following for TCP and UDP ports:
Endpoint Independent - Any incoming traffic sent to an open port will be forwarded to the application that opened the port.
The port will close if idle for 5 minutes.

Address Restricted - Incoming traffic must match the IP address of the outgoing connection.

Address + Port Restriction - Incoming traffic must match the IP address and port of the outgoing connection.

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 it’s 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 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.

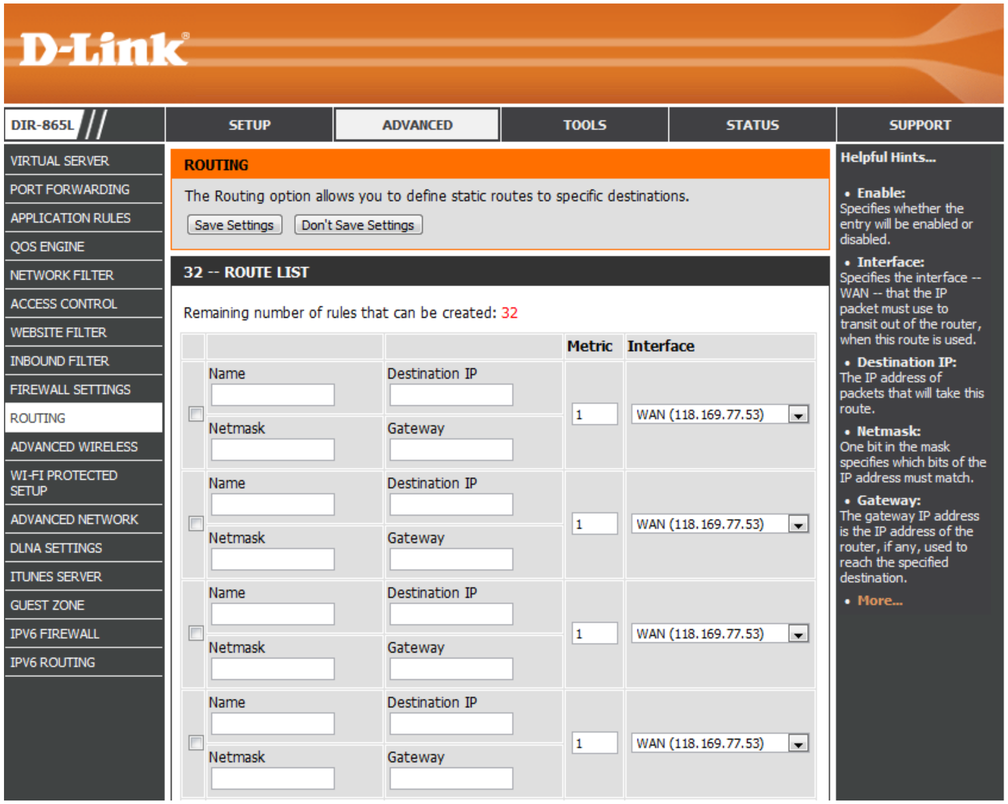
Destination IP: Enter the IP address of packets that will take this route.

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.



ROUTING

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

32 -- ROUTE LIST

Remaining number of rules that can be created: 32

			Metric	Interface
□	Name Netmask	Destination IP Gateway	1	WAN (118.169.77.53)
□	Name Netmask	Destination IP Gateway	1	WAN (118.169.77.53)
□	Name Netmask	Destination IP Gateway	1	WAN (118.169.77.53)
□	Name Netmask	Destination IP Gateway	1	WAN (118.169.77.53)

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

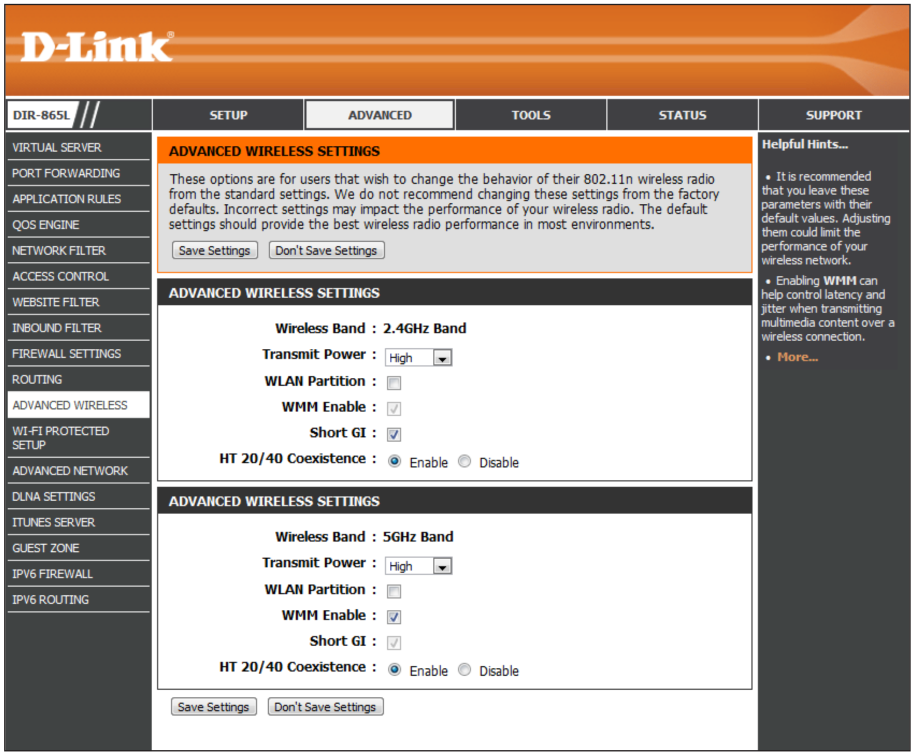
Transmit Power: Set the transmit power of the antennas.

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.

Short GI: Check this box to reduce the guard interval time therefore increasing the data capacity. However, it's less reliable and may create higher data loss.

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.



ADVANCED WIRELESS SETTINGS

These options are for users that wish to change the behavior of their 802.11n wireless radio from the standard settings. We do not recommend changing these settings from the factory defaults. Incorrect settings may impact the performance of your wireless radio. The default settings should provide the best wireless radio performance in most environments.

ADVANCED WIRELESS SETTINGS

Wireless Band : 2.4GHz Band
Transmit Power : High
WLAN Partition : □
WMM Enable : ☑
Short GI : ☑
HT 20/40 Coexistence : ● Enable ○ Disable

ADVANCED WIRELESS SETTINGS

Wireless Band : 5GHz Band
Transmit Power : High
WLAN Partition : □
WMM Enable : ☑
Short GI : ☑
HT 20/40 Coexistence : ● Enable ○ Disable

Helpful Hints...

- It is recommended that you leave these parameters with their default values. Adjusting them could limit the performance of your wireless network.
- Enabling **WMM** can help control latency and jitter when transmitting multimedia content over a wireless connection.
- More...

Wi-Fi Protected Setup (WPS)

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 manufactures. 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, while 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.*

WiFi Protected Setup: Displays the current WPS status.

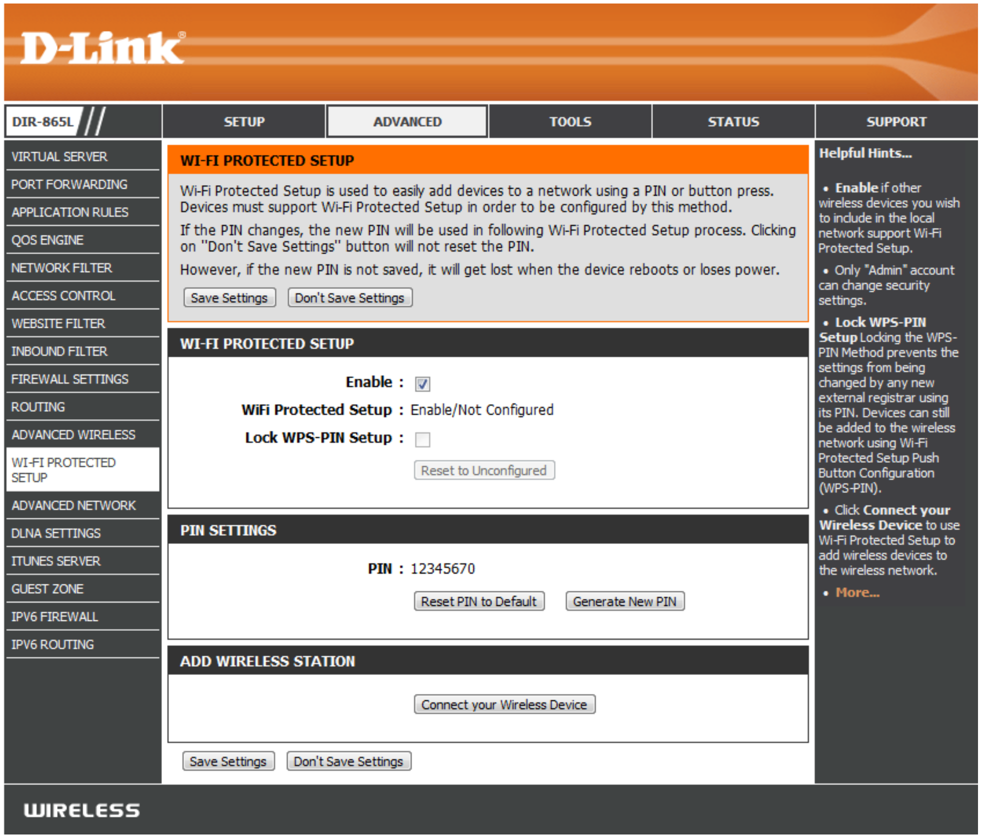
Lock Wireless Security Settings: Check the box to lock your wireless settings. Locking the wireless security settings will prevent the settings from being changed by the Wi-Fi Protected Setup feature of the router. Devices can still be added to the network using Wi-Fi Protected Setup. However, the settings of the network will not change once this option is checked.

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.

PIN: Shows the current PIN.

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

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



WI-FI PROTECTED SETUP

Wi-Fi Protected Setup is used to easily add devices to a network using a PIN or button press. Devices must support Wi-Fi Protected Setup in order to be configured by this method.

If the PIN changes, the new PIN will be used in following Wi-Fi Protected Setup process. Clicking on "Don't Save Settings" button will not reset the PIN.

However, if the new PIN is not saved, it will get lost when the device reboots or loses power.

WI-FI PROTECTED SETUP

Enable : ☑

WiFi Protected Setup : Enable/Not Configured

Lock WPS-PIN Setup : □

PIN SETTINGS

PIN : 12345670

ADD WIRELESS STATION

Helpful Hints...

- **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 Station: This Wizard helps you add wireless devices to the wireless network.

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.

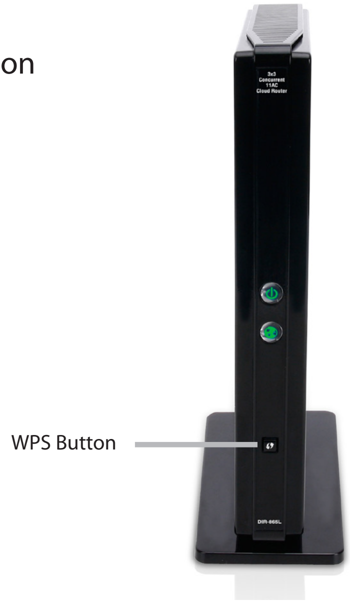
There are several ways to add a wireless device to your network. A “registrar” controls access to the wireless network. A registrar only allows devices onto the wireless network if you have entered the PIN, or pressed a special Wi-Fi Protected Setup button on the device. The router acts as a registrar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

Add Wireless Device Wizard: Click to start the wizard and skip to page 39.

WPS Button

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

Refer to page 114 for more information.



Advanced Network Settings

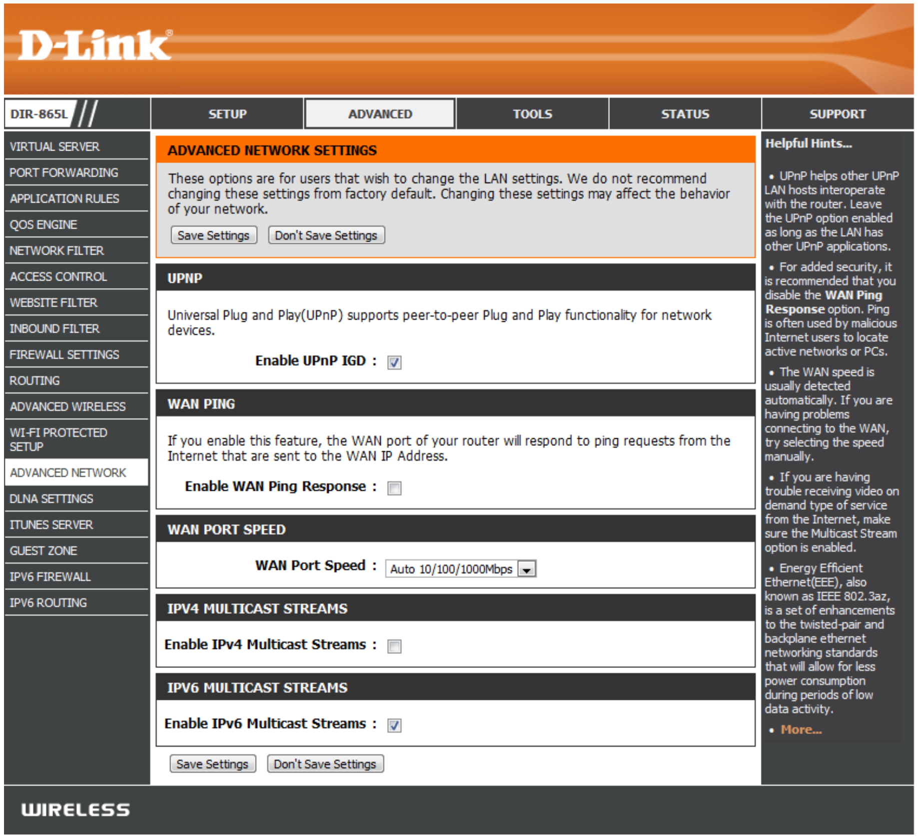
Enable UPnP: To use the Universal Plug and Play (UPnP™) feature click on **Enabled**. UPnP provides compatibility with networking equipment, software and peripherals.

WAN Ping: Checking the box will allow the DIR-865L to respond to pings. Unchecking the box may provide some extra security from hackers.

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).



ADVANCED NETWORK SETTINGS

These options are for users that wish to change the LAN settings. We do not recommend changing these settings from factory default. Changing these settings may affect the behavior of your network.

Save Settings | Don't Save Settings

UPNP

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

Enable UPnP IGD : ☑

WAN PING

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

Enable WAN Ping Response : ☐

WAN PORT SPEED

WAN Port Speed : Auto 10/100/1000Mbps

IPV4 MULTICAST STREAMS

Enable IPv4 Multicast Streams : ☐

IPV6 MULTICAST STREAMS

Enable IPv6 Multicast Streams : ☑

Save Settings | Don't Save Settings

Helpful Hints...

- UPnP helps other UPnP LAN hosts interoperate with the router. Leave the UPnP option enabled as long as the LAN has other UPnP applications.
- For added security, it is recommended that you disable the **WAN Ping Response** option. Ping is often used by malicious Internet users to locate active networks or PCs.
- The WAN speed is usually detected automatically. If you are having problems connecting to the WAN, try selecting the speed manually.
- If you are having trouble receiving video on demand type of service from the Internet, make sure the Multicast Stream option is enabled.
- Energy Efficient Ethernet(EEE), also known as IEEE 802.3az, is a set of enhancements to the twisted-pair and backplane ethernet networking standards that will allow for less power consumption during periods of low data activity.
- **More...**

DLNA Settings

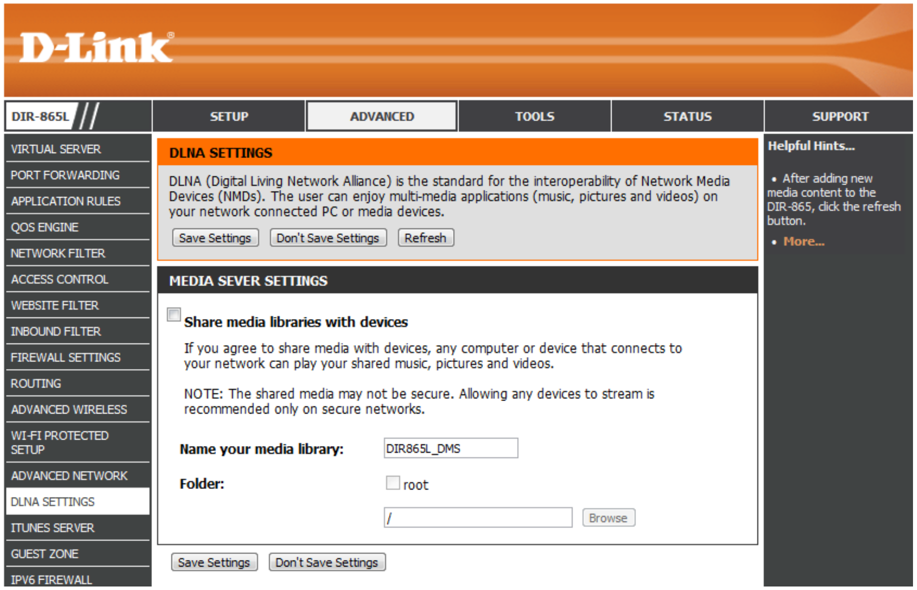
DLNA (Digital Living Network Alliance) is the standard for the interoperability of Network Media Devices (NMDs). The user can enjoy multimedia applications (music, pictures and videos) on your network connected PC or media devices. If you agree to share media with devices, any computer or device that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

Enable: Check this box to share your media files to your network. Plug a USB thumb drive into the USB port on the router.

Name your Media Library: Enter a name for your shared files. This is the folder that will be displayed on the computers connecting to your router.

Folder: Specifies the folder or directory that will be shared by the router. Select **root** to share all files on your thumb drive or click **Browse** to select a specific folder.



DLNA SETTINGS

DLNA (Digital Living Network Alliance) is the standard for the interoperability of Network Media Devices (NMDs). The user can enjoy multi-media applications (music, pictures and videos) on your network connected PC or media devices.

MEDIA SEVER SETTINGS

□ Share media libraries with 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.

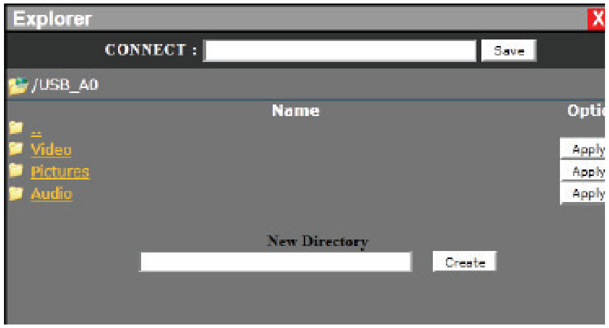
Name your media library: DIR865L_DMS

Folder: □ root

/

Helpful Hints...

- After adding new media content to the DIR-865, click the refresh button.
- More...



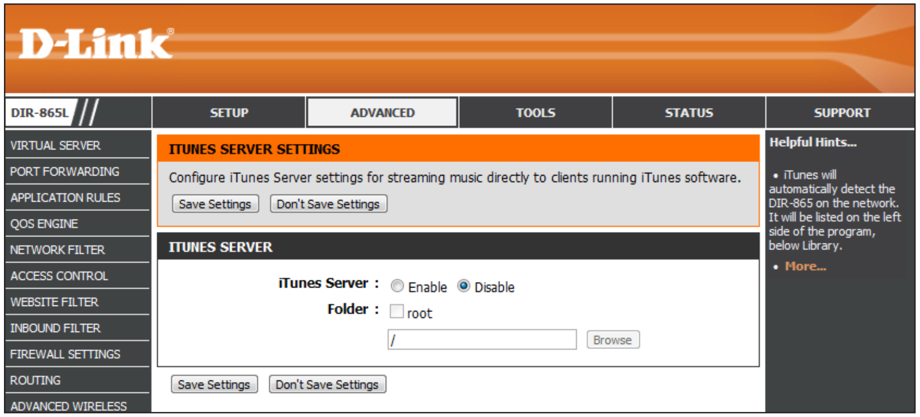
iTunes Server

The DIR-865L features an iTunes® Server. This server provides the ability to share music and videos to computers on your local network running iTunes. If the server is enabled, the router will be automatically be detected by the iTunes program and the music and videos contained in the specified directory will be available to stream over the network.

iTunes Server: Select to **Enable** or **Disable** the iTunes server feature.

Folder: Specifies the folder or directory that will be shared by the iTunes server. Select **root** to share all files on all volumes or click **Browse** to select a specific folder.

Click on the **Save Settings** button to accept the changes made or click on the **Don't Save Settings** button to discard the changes made.



ITUNES SERVER SETTINGS

Configure iTunes Server settings for streaming music directly to clients running iTunes software.

Save Settings | Don't Save Settings

ITUNES SERVER

iTunes Server : ○ Enable ● Disable

Folder : □ root

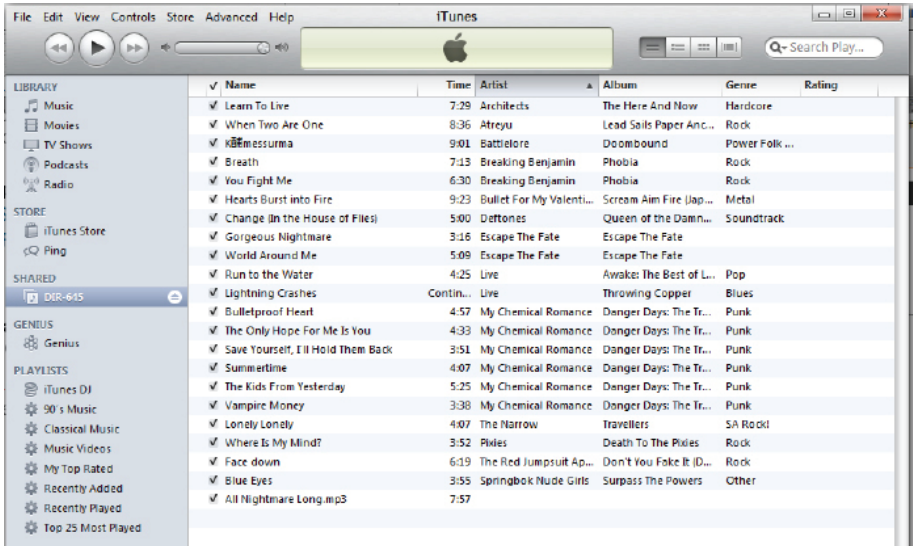
/ Browse

Save Settings | Don't Save Settings

Helpful Hints...

- iTunes will automatically detect the DIR-865 on the network. It will be listed on the left side of the program, below Library.
- More...

After enabling iTunes server on your router, launch iTunes on your computer. In iTunes on the left side under SHARED, select the router and enter the iTunes server password (if required). You will be able to play any song from your router's storage device.



✓	Name	Time	Artist	Album	Genre	Rating
✓	Learn To Live	7:29	Architects	The Here And Now	Hardcore	
✓	When Two Are One	8:36	Atreyu	Lead Sails Paper Anc...	Rock	
✓	K[illegible]messurma	9:01	Battlelore	Doombound	Power Folk ...	
✓	Breath	7:13	Breaking Benjamin	Phobia	Rock	
✓	You Fight Me	6:30	Breaking Benjamin	Phobia	Rock	
✓	Hearts Burst into Fire	9:23	Bullet For My Valenti...	Scream Aim Fire (Jap...	Metal	
✓	Change (In the House of Files)	5:00	Deftones	Queen of the Damn...	Soundtrack	
✓	Gorgeous Nightmare	3:16	Escape The Fate	Escape The Fate		
✓	World Around Me	5:09	Escape The Fate	Escape The Fate		
✓	Run to the Water	4:25	Live	Awake: The Best of L...	Pop	
✓	Lightning Crashes	Contin...	Live	Throwing Copper	Blues	
✓	Bulletproof Heart	4:57	My Chemical Romance	Danger Days: The Tr...	Punk	
✓	The Only Hope For Me Is You	4:33	My Chemical Romance	Danger Days: The Tr...	Punk	
✓	Save Yourself, I'll Hold Them Back	3:51	My Chemical Romance	Danger Days: The Tr...	Punk	
✓	Summertime	4:07	My Chemical Romance	Danger Days: The Tr...	Punk	
✓	The Kids From Yesterday	5:25	My Chemical Romance	Danger Days: The Tr...	Punk	
✓	Vampire Money	3:38	My Chemical Romance	Danger Days: The Tr...	Punk	
✓	Lonely Lonely	4:07	The Narrow	Travellers	SA Rock!	
✓	Where Is My Mind?	3:52	Pixies	Death To The Pixies	Rock	
✓	Face down	6:19	The Red Jumpsuit Ap...	Don't You Fake It (D...	Rock	
✓	Blue Eyes	3:55	Springbok Nude Girls	Surpass The Powers	Other	
✓	All Nightmare Long.mp3	7:57				

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.

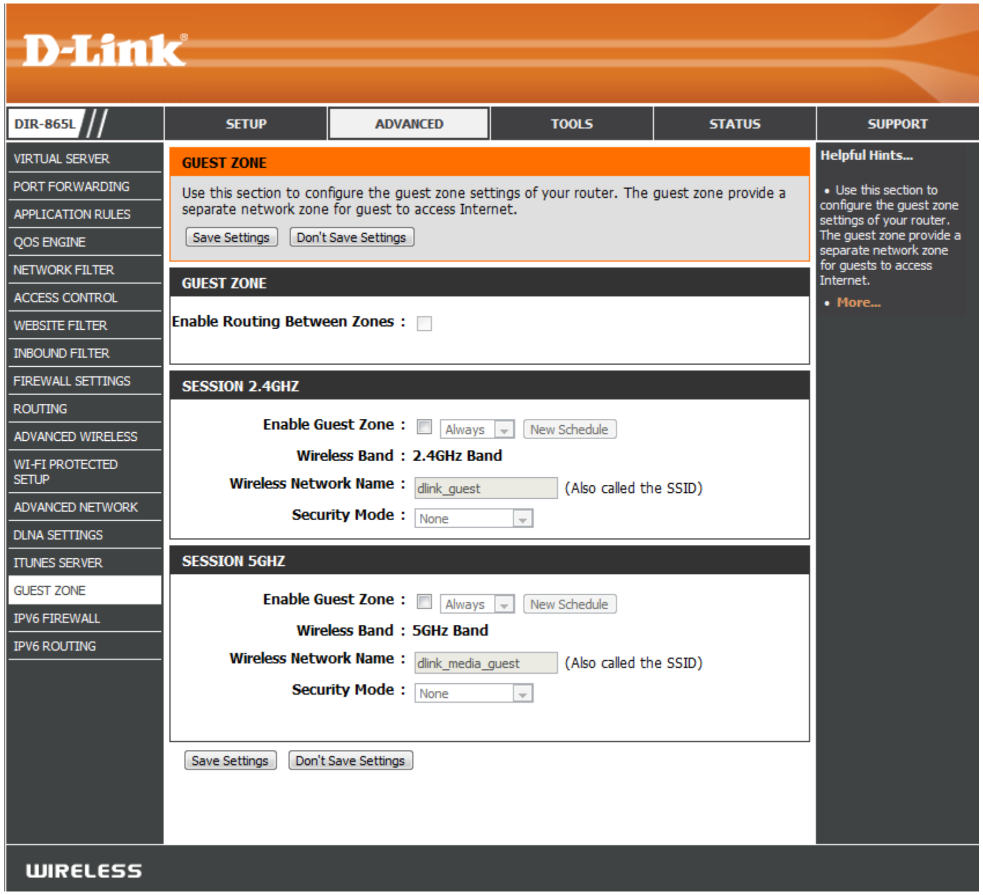
Enable Guest Zone: Check to enable the Guest Zone feature.

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

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: Select the type of security or encryption you would like to enable for the guest zone.



GUEST ZONE

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

GUEST ZONE

Enable Routing Between Zones : □

SESSION 2.4GHZ

Enable Guest Zone : □ Always

Wireless Band : 2.4GHz Band

Wireless Network Name : dlink_guest (Also called the SSID)

Security Mode : None

SESSION 5GHZ

Enable Guest Zone : □ Always

Wireless Band : 5GHz Band

Wireless Network Name : dlink_media_guest (Also called the SSID)

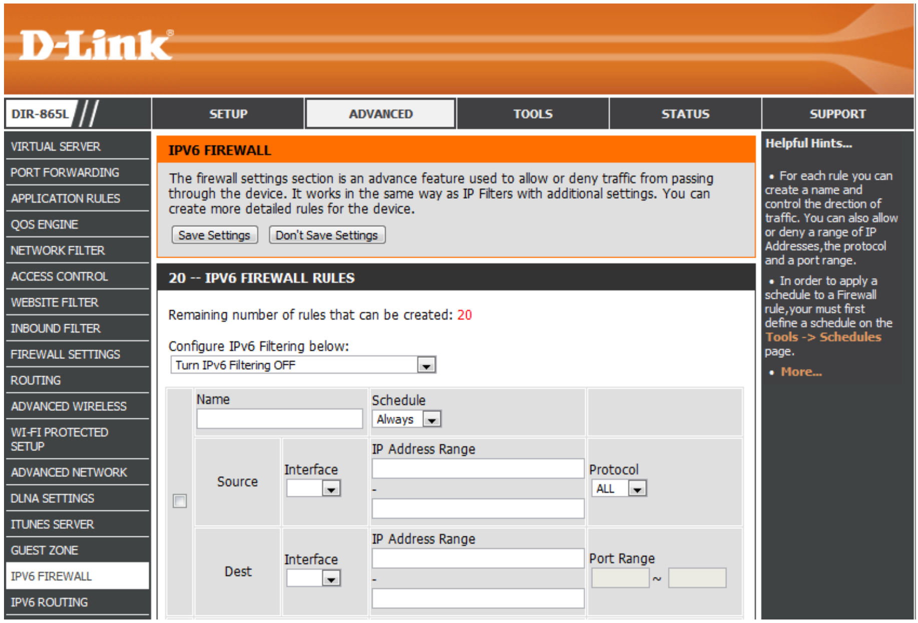
Security Mode : None

Helpful Hints...

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

IPv6 Firewall

The DIR-865L's IPv6 Firewall feature allows you to configure which kind of IPv6 traffic is allowed to pass through the device. The DIR-865L's IPv6 Firewall functions in a similar way to the IP Filters feature.



IPV6 FIREWALL

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

20 -- IPV6 FIREWALL RULES

Remaining number of rules that can be created: 20

Configure IPv6 Filtering below: Turn IPv6 Filtering OFF

□	Name		Schedule: Always	
	Source	Interface	IP Address Range	Protocol: ALL
	Dest	Interface	IP Address Range	Port Range ~

Helpful Hints...

- For each rule you can create a name and control the direction of traffic. You can also allow or deny a range of IP Addresses,the protocol and a port range.
- In order to apply a schedule to a Firewall rule,your must first define a schedule on the Tools -> Schedules page.
- More...

Enable Checkbox: 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.

Dest: Use the **Dest** 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.

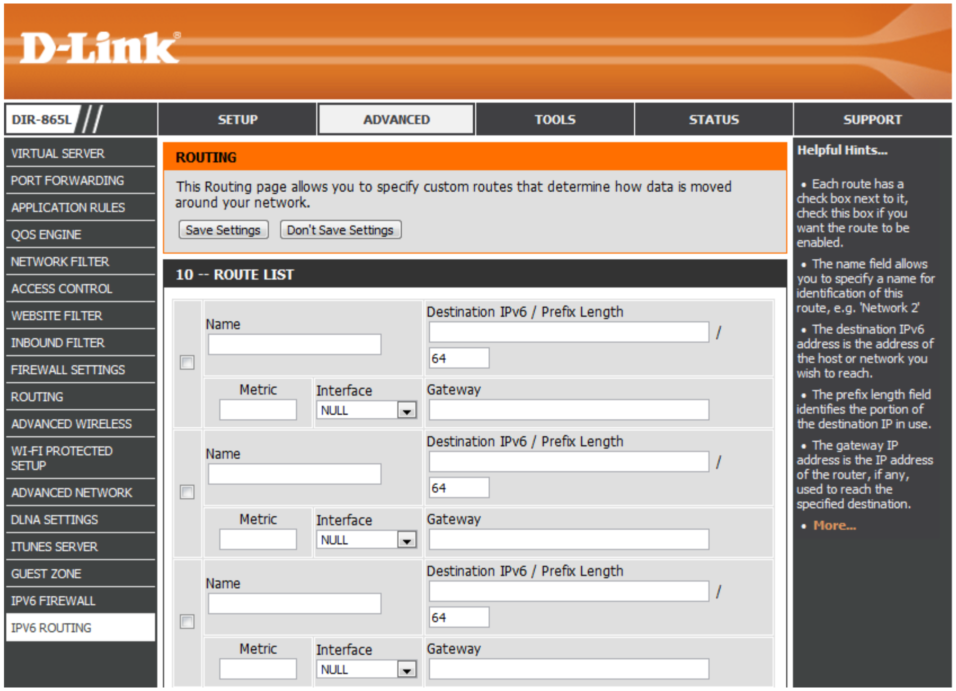
Name: Enter a specific name to identify this route.

Destination IP/ Prefix Length: This is the IP address of the router used to reach the specified 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.



ROUTING

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

10 -- ROUTE LIST

□	Name		Destination IPv6 / Prefix Length / 64
	Metric	Interface NULL	Gateway
□	Name		Destination IPv6 / Prefix Length / 64
	Metric	Interface NULL	Gateway
□	Name		Destination IPv6 / Prefix Length / 64
	Metric	Interface NULL	Gateway

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.

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

User 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).

Gateway Name: Enter a name for your router.

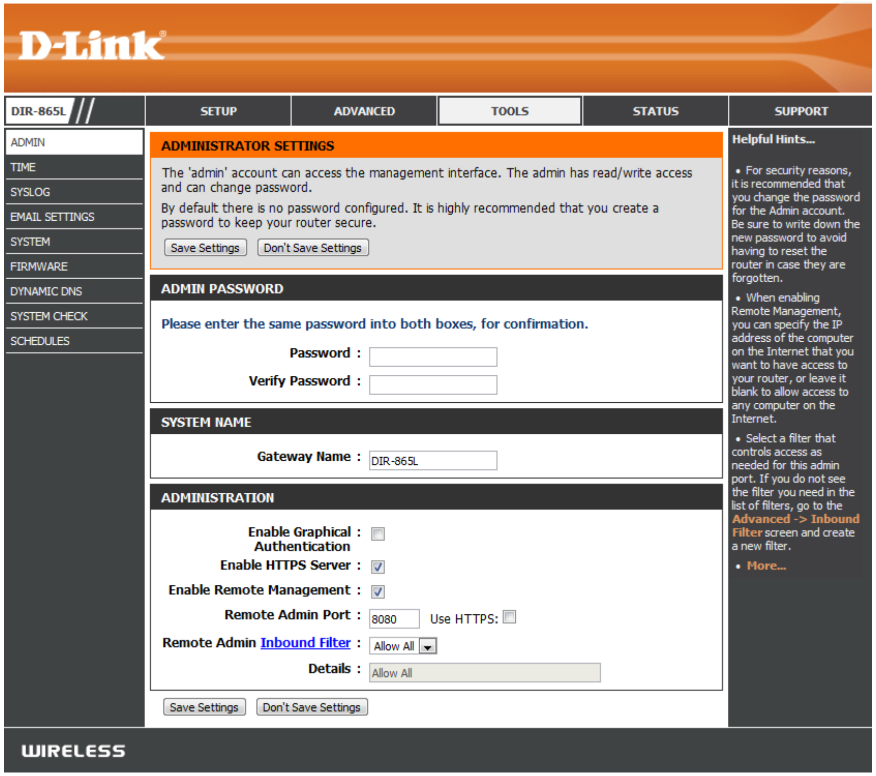
Enable Graphical Authentication: Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.

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 DIR-865L to be configured from the Internet by a web browser. A username/password is still required to access the Web Management interface.

Remote Admin Port: The port number used to access the DIR-865L is used in the URL. Example: **http://x.x.x.x:8080** whereas x.x.x.x is the Internet IP address of the DIR-865L 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.



ADMINISTRATOR SETTINGS

The 'admin' account can access the management interface. The admin has read/write access and can change password.

By default there is no password configured. It is highly recommended that you create a password to keep your router secure.

ADMIN PASSWORD

Please enter the same password into both boxes, for confirmation.

Password :

Verify Password :

SYSTEM NAME

Gateway Name : DIR-865L

ADMINISTRATION

Enable Graphical Authentication : □

Enable HTTPS Server : ☑

Enable Remote Management : ☑

Remote Admin Port : 8080 Use HTTPS: □

Remote Admin Inbound Filter : Allow All

Details : Allow All

Helpful Hints...

- For security reasons, it is recommended that you change the password for the Admin account. Be sure to write down the new password to avoid having to reset the router in case they are forgotten.
- When enabling Remote Management, you can specify the IP address of the computer on the Internet that you want to have access to your router, or leave it blank to allow access to any computer on the Internet.
- Select a filter that controls access as needed for this admin port. 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...

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

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.

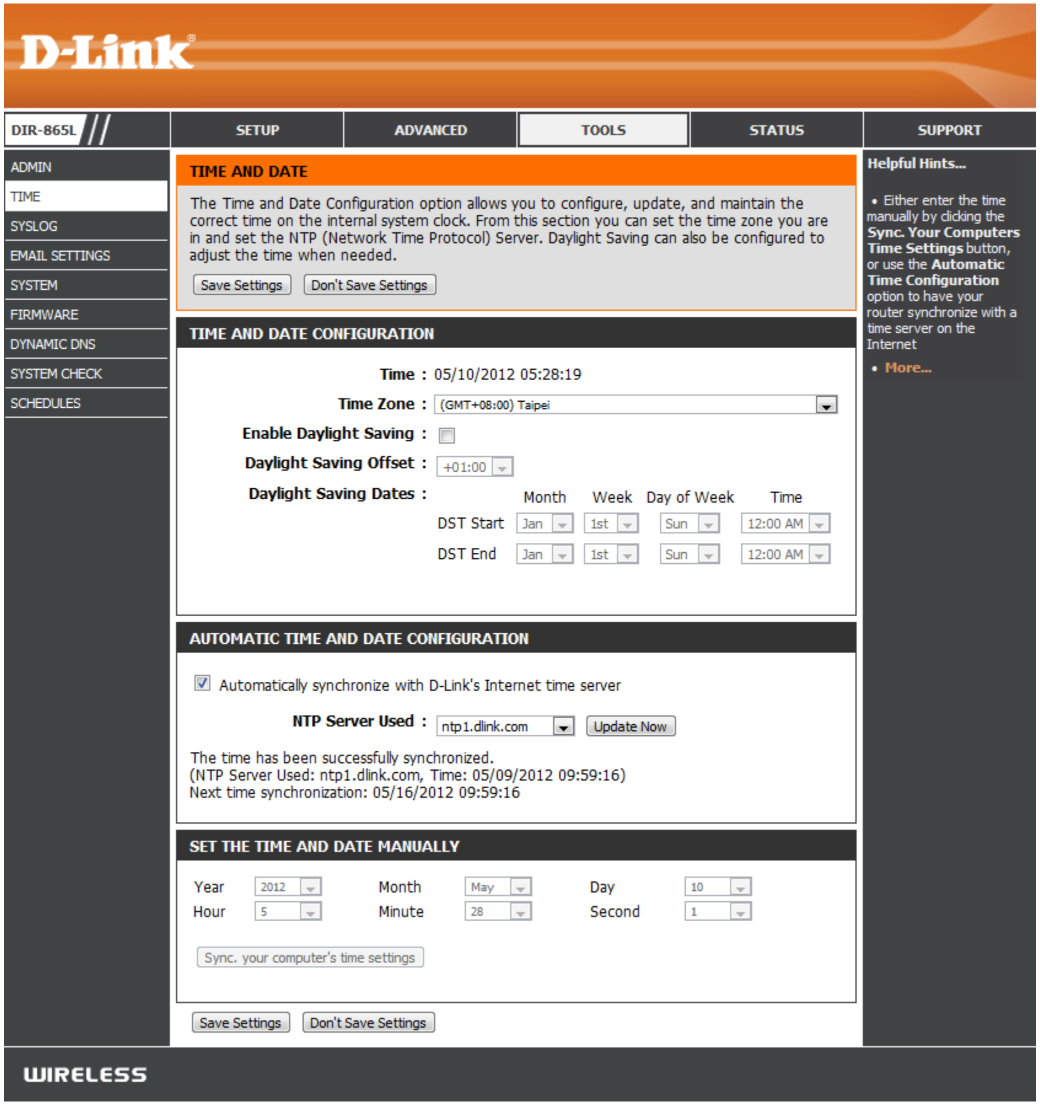
Enable Daylight Saving: To select Daylight Saving time manually, select enabled or disabled, and enter a start date and an end date for daylight saving time.

Enable NTP Server: NTP is short for Network Time Protocol. A NTP server will sync 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 **Copy Your Computer's Time Settings** to synch the date and time with the computer you are currently on.



TIME AND DATE

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

Save Settings | Don't Save Settings

TIME AND DATE CONFIGURATION

Time : 05/10/2012 05:28:19
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: 05/09/2012 09:59:16)
Next time synchronization: 05/16/2012 09:59:16

SET THE TIME AND DATE MANUALLY

Year	2012	Month	May	Day	10
Hour	5	Minute	28	Second	1

Sync. your computer's time settings

Save Settings | Don't Save Settings

Helpful Hints...

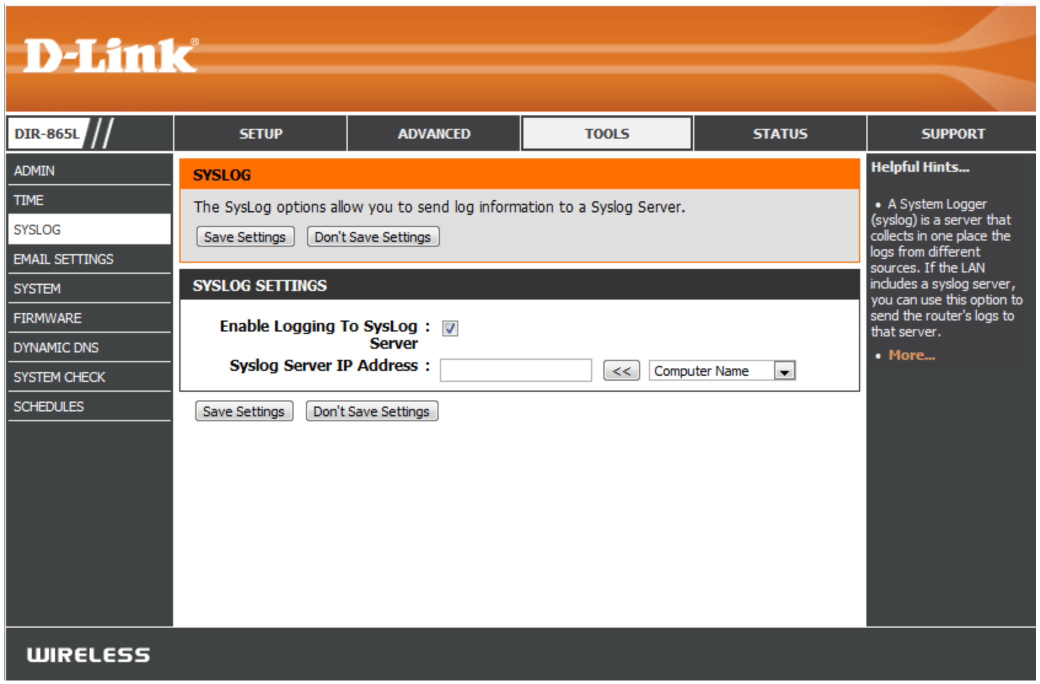
- Either enter the time manually by clicking the **Sync. Your Computers Time Settings** button, or use the **Automatic Time Configuration** option to have your router synchronize with a time server on the Internet
- **More...**

SysLog

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

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

SysLog Server IP Address: The address of the SysLog server that will be used to send the logs. You may also select your computer from the drop-down menu (only if receiving an IP address from the router via DHCP).



SYSLOG

The SysLog options allow you to send log information to a Syslog Server.

SYSLOG SETTINGS

Enable Logging To SysLog Server : ☑

Syslog Server IP Address : ______ << Computer Name

Helpful Hints...

- A System Logger (syslog) is a server that collects in one place the logs from different sources. If the LAN includes a syslog server, you can use this option to send the router's logs to that 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.

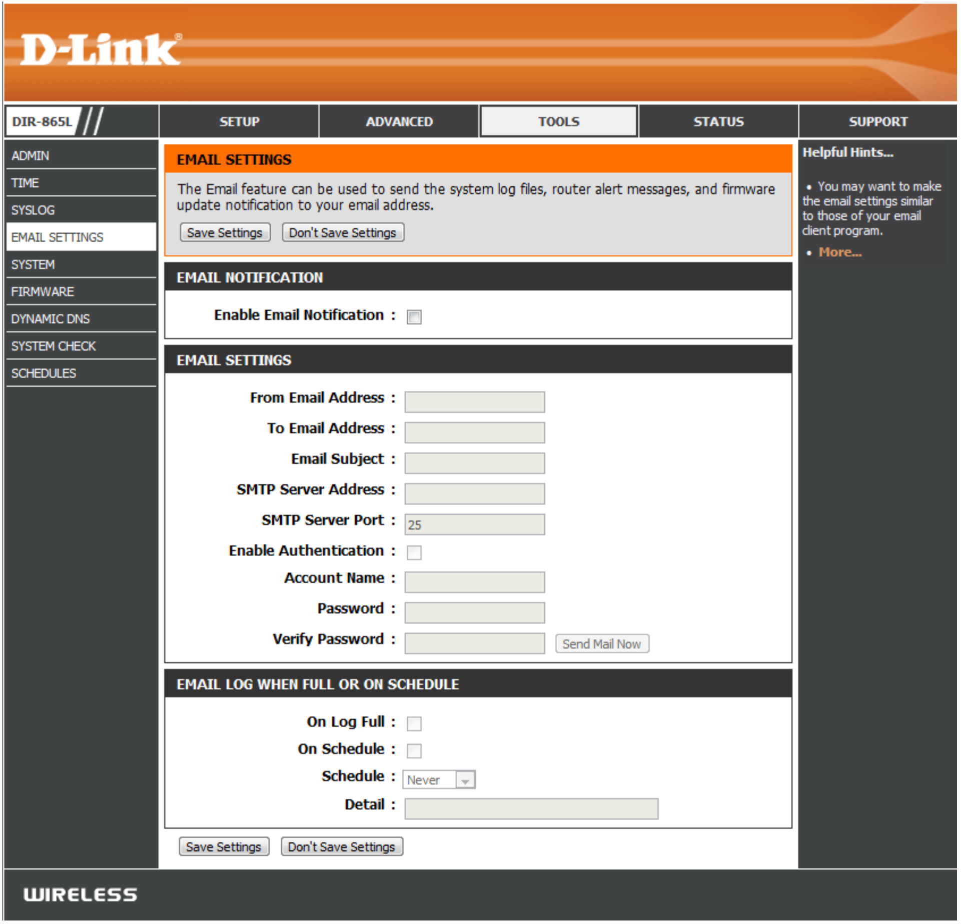
Account Name: Enter your account for sending email.

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**.



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.

Save Settings | Don't Save Settings

EMAIL NOTIFICATION

Enable Email Notification : □

EMAIL SETTINGS

From Email Address :
To Email Address :
Email Subject :
SMTP Server Address :
SMTP Server Port : 25
Enable Authentication : □
Account Name :
Password :
Verify Password : Send Mail Now

EMAIL LOG WHEN FULL OR ON SCHEDULE

On Log Full : □
On Schedule : □
Schedule : Never
Detail :

Save Settings | Don't Save Settings

Helpful Hints...

- You may want to make the email settings similar to those of your email client program.
- More...

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.

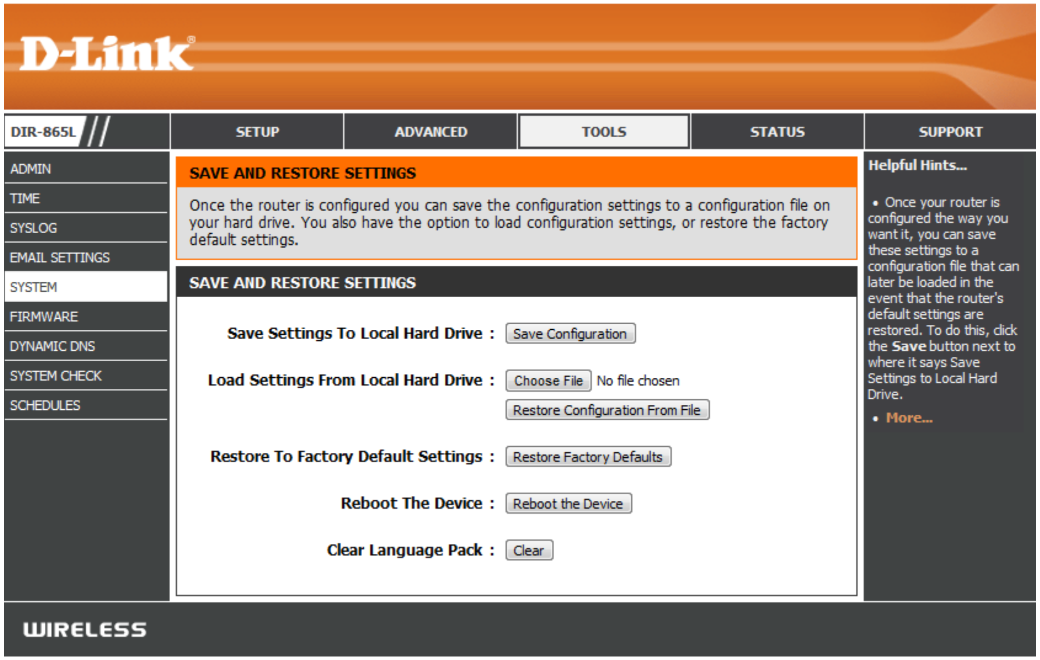
Save Settings to Local Hard Drive: Use this option to save the current router configuration settings to a file on the hard disk of the computer you are using. First, click the **Save** button. A file dialog will appear, allowing you to select a location and file name for the settings.

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.

Clear Language Pack: Click to remove any installed language packs.



Once the router is configured you can save the configuration settings to a configuration file on your hard drive. You also have the option to load configuration settings, or restore the factory default settings.

Save Settings To Local Hard Drive :

Load Settings From Local Hard Drive : No file chosen

Restore To Factory Default Settings :

Reboot The Device :

Clear Language Pack :

- Once your router is configured the way you want it, you can save these settings to a configuration file that can later be loaded in the event that the router's default settings are restored. To do this, click the **Save** button next to where it says Save Settings to Local Hard Drive.

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 **Browse** 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.

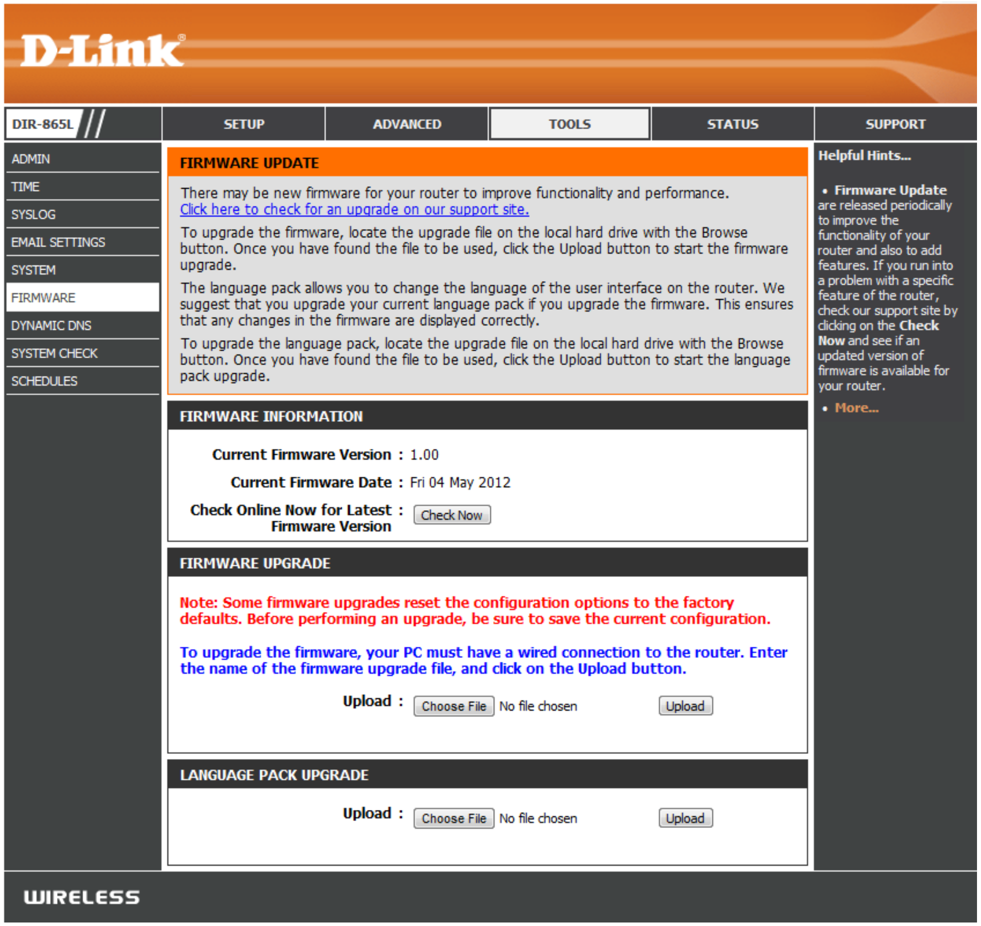
Browse: After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

Upload: Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the access point.

Language Pack

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

Browse: After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.



FIRMWARE UPDATE

There may be new firmware for your router to improve functionality and performance.
Click here to check for an upgrade on our support site.

To upgrade the firmware, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Upload button to start the firmware upgrade.

The language pack allows you to change the language of the user interface on the router. We suggest that you upgrade your current language pack if you upgrade the firmware. This ensures that any changes in the firmware are displayed correctly.

To upgrade the language pack, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Upload button to start the language pack upgrade.

FIRMWARE INFORMATION

Current Firmware Version : 1.00

Current Firmware Date : Fri 04 May 2012

Check Online Now for Latest Firmware Version : Check Now

FIRMWARE UPGRADE

Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration.

To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button.

Upload : Choose File No file chosen Upload

LANGUAGE PACK UPGRADE

Upload : Choose File No file chosen Upload

Helpful Hints...

- **Firmware Update** are released periodically to improve the functionality of your router and also to add features. If you run into a problem with a specific feature of the router, check our support site by clicking on the **Check Now** and see if an updated version of firmware is available for your router.
- More...

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.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter in your domain name to connect to your server no matter what your IP address is.

Enable Dynamic DNS: Dynamic Domain Name System 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.

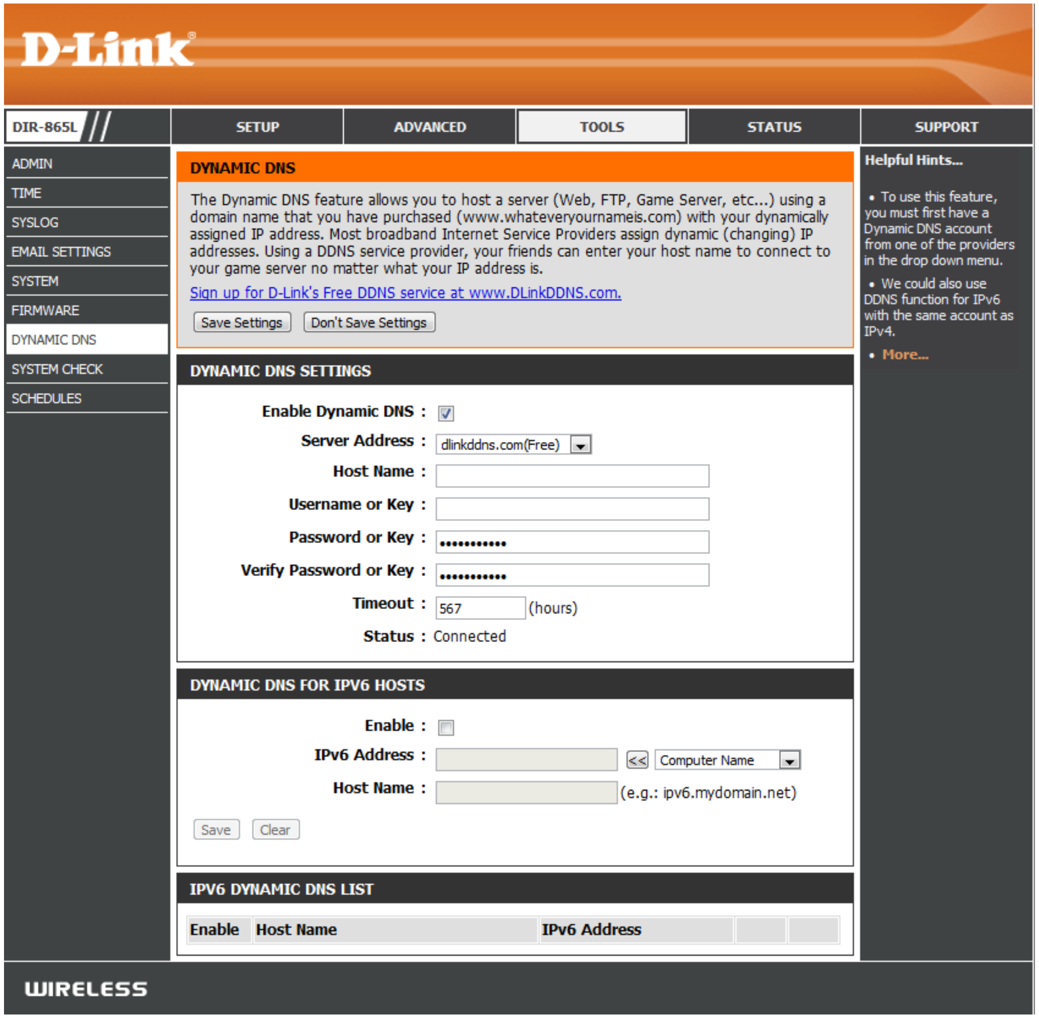
Host Name: Enter the Host Name that you registered with your DDNS service provider.

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.



DYNAMIC DNS

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

Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.

Save Settings | Don't Save Settings

DYNAMIC DNS SETTINGS

Enable Dynamic DNS : ☑
Server Address : dlinkddns.com(Free)
Host Name :
Username or Key :
Password or Key : •••••••••••
Verify Password or Key : •••••••••••
Timeout : 567 (hours)
Status : Connected

DYNAMIC DNS FOR IPV6 HOSTS

Enable : □
IPv6 Address : << Computer Name
Host Name : (e.g.: ipv6.mydomain.net)

Save | Clear

IPV6 DYNAMIC DNS LIST

Enable	Host Name	IPv6 Address		

Helpful Hints...

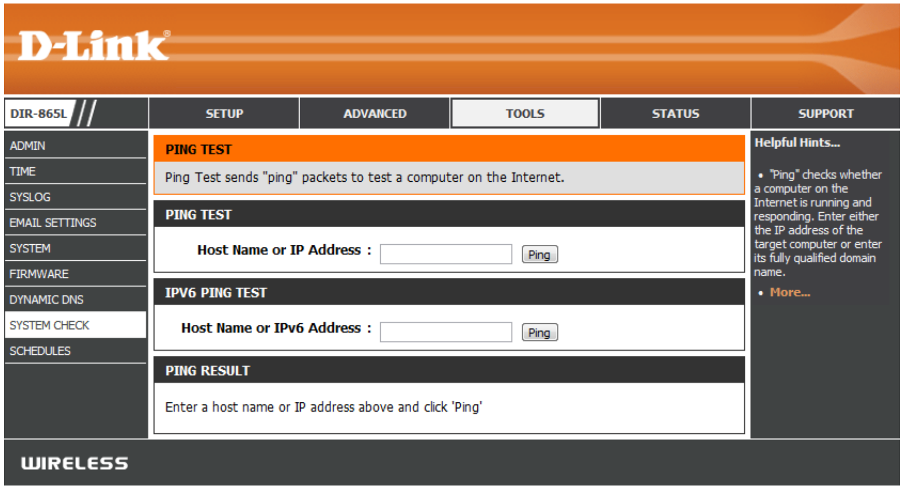
- To use this feature, you must first have a Dynamic DNS account from one of the providers in the drop down menu.
- We could also use DDNS function for IPv6 with the same account as IPv4.
- More...

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.



PING TEST

Ping Test sends "ping" packets to test a computer on the Internet.

PING TEST

Host Name or IP Address :

IPV6 PING TEST

Host Name or IPv6 Address :

PING RESULT

Enter a host name or IP address above and click 'Ping'

Helpful Hints...

- "Ping" checks whether a computer on the Internet is running and responding. Enter either the IP address of the target computer or enter its fully qualified domain name.
- More...

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.

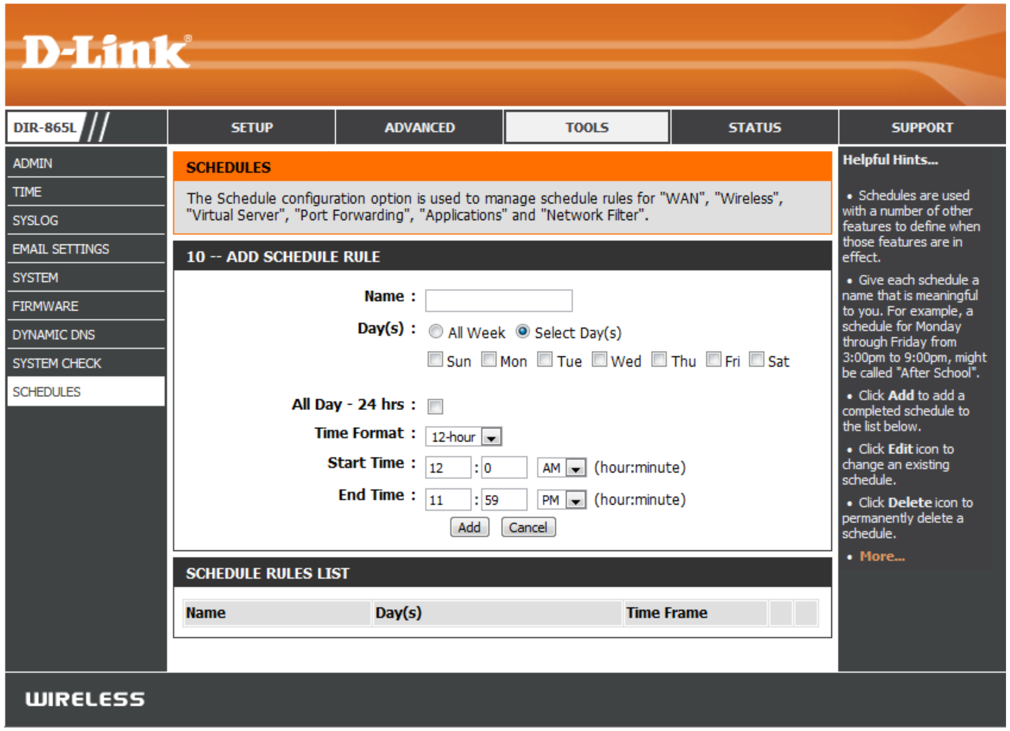
Name: Enter a name for your new schedule.

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

Time: Check **All Day - 24hrs** or enter a start and end time for your schedule.

Save: You must click **Save Settings** at the top for your schedules to go into effect.

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



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 : 12-hour

Start Time : 12 : 0 AM (hour:minute)

End Time : 11 : 59 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...**

Status

Device Info

This page displays the current information for the DIR-865L. 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.

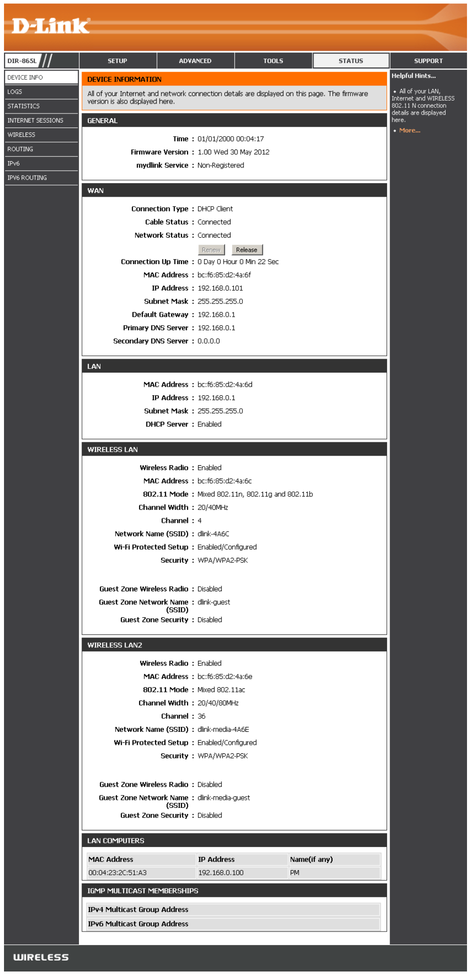
WAN: Displays the MAC address and the public IP settings.

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).



DEVICE INFORMATION

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

GENERAL

Time : 01/01/2000 00:04:17
Firmware Version : 1.00 Wed 30 May 2012
mydlink Service : Non-Registered

WAN

Connection Type : DHCP Client
Cable Status : Connected
Network Status : Connected
Connection Up Time : 0 Day 0 Hour 0 Min 22 Sec
MAC Address : bc:f6:85:d2:4a:6f
IP Address : 192.168.0.101
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.0.1
Primary DNS Server : 192.168.0.1
Secondary DNS Server : 0.0.0.0

LAN

MAC Address : bc:f6:85:d2:4a:6d
IP Address : 192.168.0.1
Subnet Mask : 255.255.255.0
DHCP Server : Enabled

WIRELESS LAN

Wireless Radio : Enabled
MAC Address : bc:f6:85:d2:4a:6c
802.11 Mode : Mixed 802.11n, 802.11g and 802.11b
Channel Width : 20/40MHz
Channel : 4
Network Name (SSID) : dlink-4A6C
Wi-Fi Protected Setup : Enabled/Configured
Security : WPA/WPA2-PSK

Guest Zone Wireless Radio : Disabled
Guest Zone Network Name (SSID) : dlink-guest
Guest Zone Security : Disabled

WIRELESS LAN2

Wireless Radio : Enabled
MAC Address : bc:f6:85:d2:4a:6e
802.11 Mode : Mixed 802.11ac
Channel Width : 20/40/80MHz
Channel : 36
Network Name (SSID) : dlink-media-4A6E
Wi-Fi Protected Setup : Enabled/Configured
Security : WPA/WPA2-PSK

Guest Zone Wireless Radio : Disabled
Guest Zone Network Name (SSID) : dlink-media-guest
Guest Zone Security : Disabled

LAN COMPUTERS

MAC Address	IP Address	Name(if any)
00:04:23:2C:51:A3	192.168.0.100	PM

IGMP MULTICAST MEMBERSHIPS

IPv4 Multicast Group Address

IPv6 Multicast Group Address

Helpful Hints...

- All of your LAN, Internet and WIRELESS 802.11 N connection details are displayed here.
- More...

Logs

The router automatically logs (records) events of possible interest in it's 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.

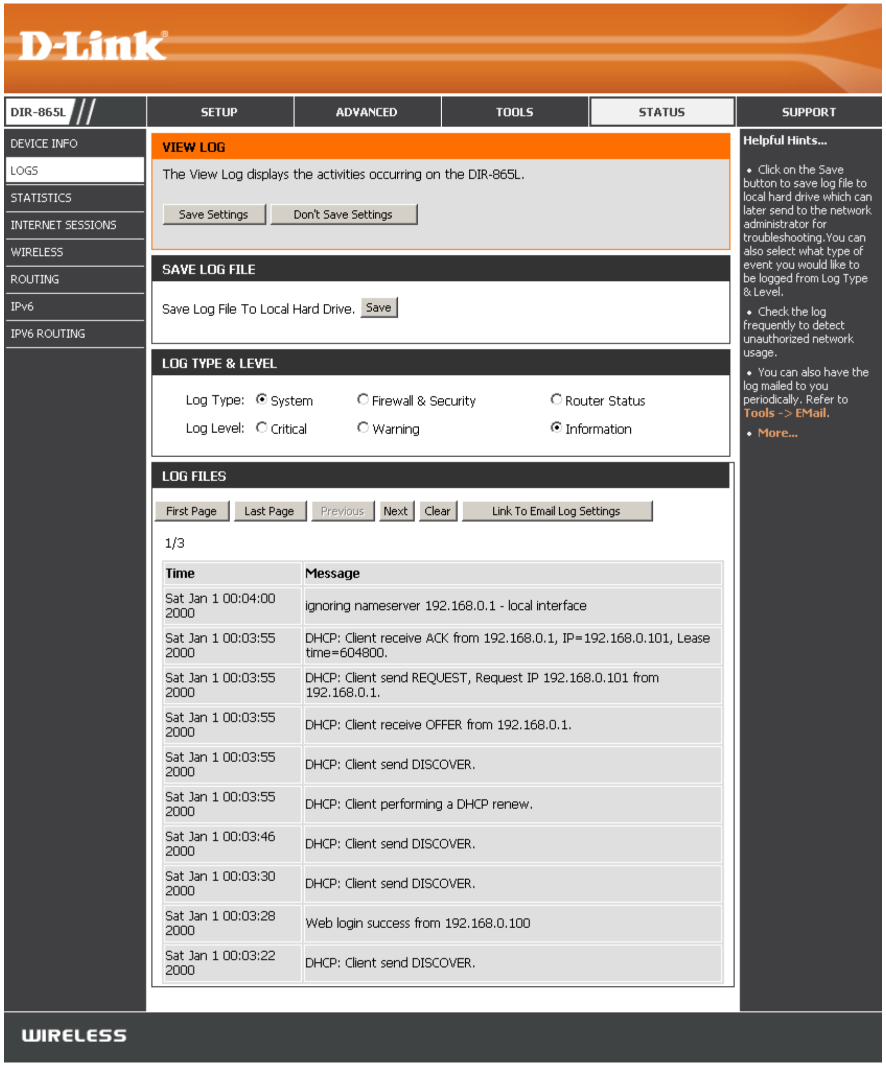
Previous: Click to go back one page.

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.



VIEW LOG

The View Log displays the activities occurring on the DIR-865L.

SAVE LOG FILE

Save Log File To Local Hard Drive.

LOG TYPE & LEVEL

Log Type: ● System ○ Firewall & Security ○ Router Status

Log Level: ○ Critical ○ Warning ● Information

LOG FILES

1/3

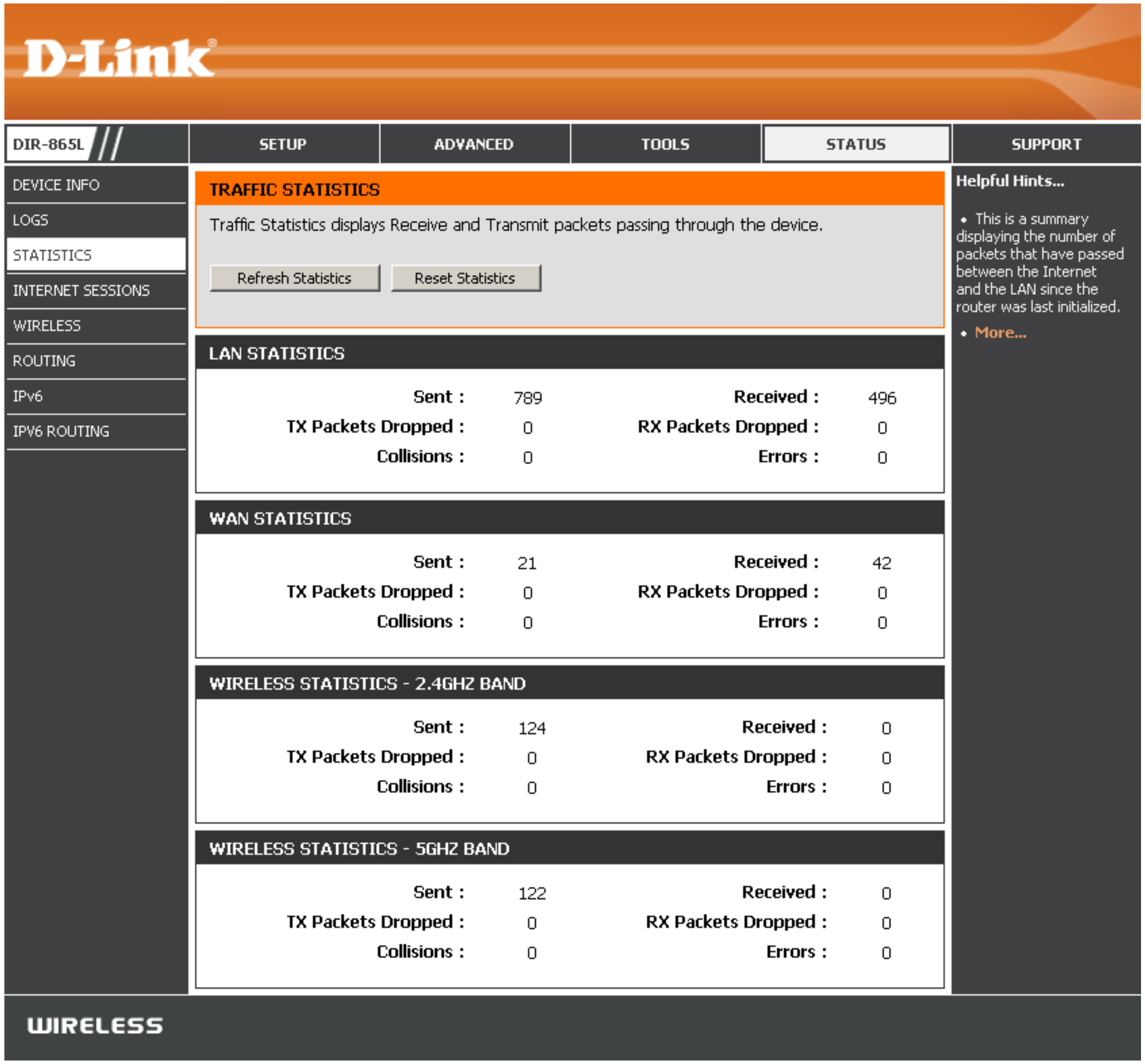
Time	Message
Sat Jan 1 00:04:00 2000	ignoring nameserver 192.168.0.1 - local interface
Sat Jan 1 00:03:55 2000	DHCP: Client receive ACK from 192.168.0.1, IP=192.168.0.101, Lease time=604800.
Sat Jan 1 00:03:55 2000	DHCP: Client send REQUEST, Request IP 192.168.0.101 from 192.168.0.1.
Sat Jan 1 00:03:55 2000	DHCP: Client receive OFFER from 192.168.0.1.
Sat Jan 1 00:03:55 2000	DHCP: Client send DISCOVER.
Sat Jan 1 00:03:55 2000	DHCP: Client performing a DHCP renew.
Sat Jan 1 00:03:46 2000	DHCP: Client send DISCOVER.
Sat Jan 1 00:03:30 2000	DHCP: Client send DISCOVER.
Sat Jan 1 00:03:28 2000	Web login success from 192.168.0.100
Sat Jan 1 00:03:22 2000	DHCP: Client send DISCOVER.

Helpful Hints...

- Click on the Save button to save log file to local hard drive which can later send to the network administrator for troubleshooting.You can also select what type of event you would like to be logged from Log Type & Level.
- Check the log frequently to detect unauthorized network usage.
- You can also have the log mailed to you periodically. Refer to **Tools -> EMail.**
- **More...**

Statistics

The screen below displays the **Traffic Statistics**. Here you can view the amount of packets that pass through the DIR-865L on both the WAN, LAN ports and the wireless segments. The traffic counter will reset if the device is rebooted.



TRAFFIC STATISTICS

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

LAN STATISTICS

Sent :	789	Received :	496
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

WAN STATISTICS

Sent :	21	Received :	42
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

WIRELESS STATISTICS - 2.4GHZ BAND

Sent :	124	Received :	0
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

WIRELESS STATISTICS - 5GHZ BAND

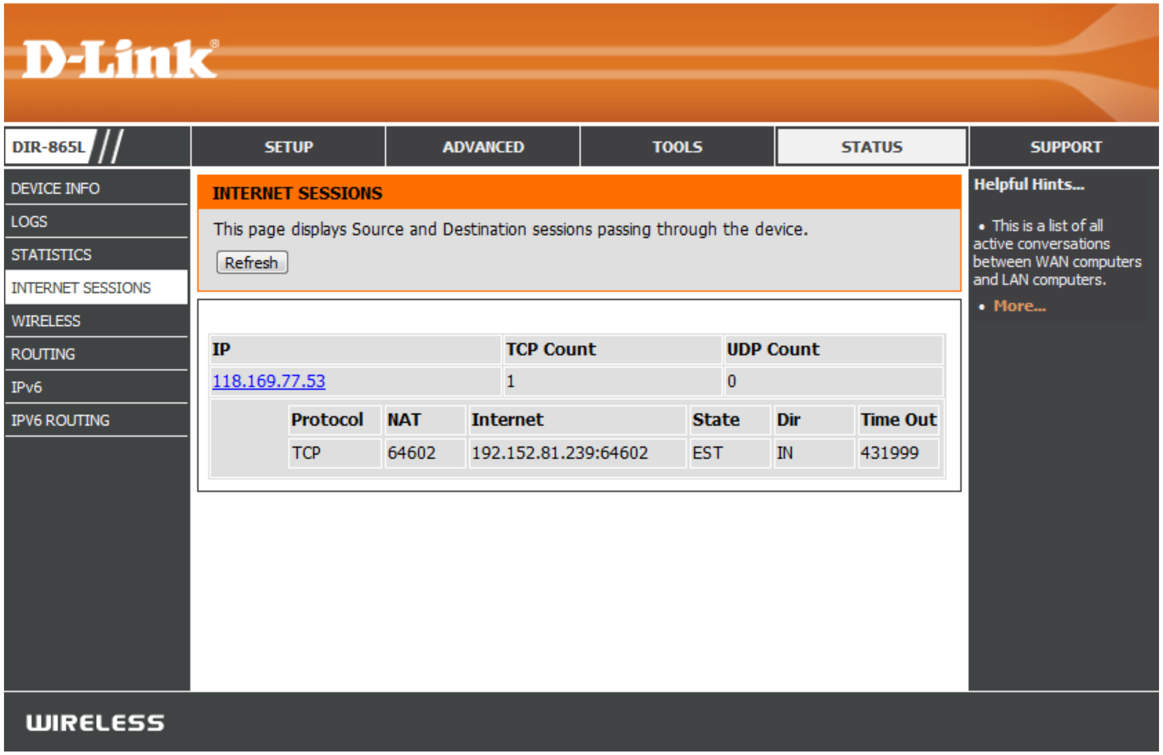
Sent :	122	Received :	0
TX Packets Dropped :	0	RX Packets Dropped :	0
Collisions :	0	Errors :	0

Helpful Hints...

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

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.



INTERNET SESSIONS

This page displays Source and Destination sessions passing through the device.

IP	TCP Count	UDP Count
118.169.77.53	1	0

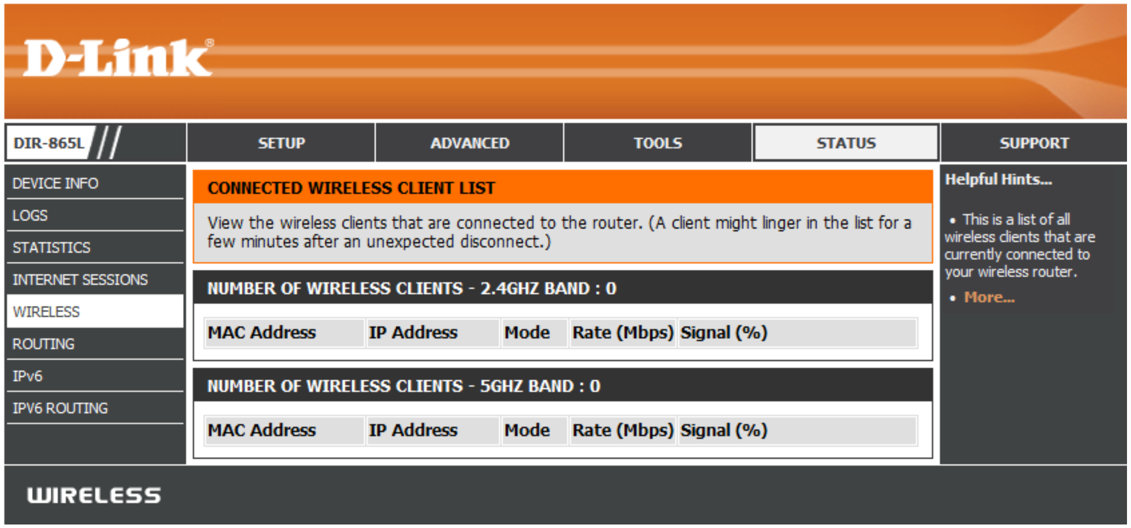
Protocol	NAT	Internet	State	Dir	Time Out
TCP	64602	192.152.81.239:64602	EST	IN	431999

Helpful Hints...

- This is a list of all active conversations between WAN computers and LAN computers.
- More...

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.



CONNECTED WIRELESS CLIENT LIST

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

NUMBER OF WIRELESS CLIENTS - 2.4GHZ BAND : 0

MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)

NUMBER OF WIRELESS CLIENTS - 5GHZ BAND : 0

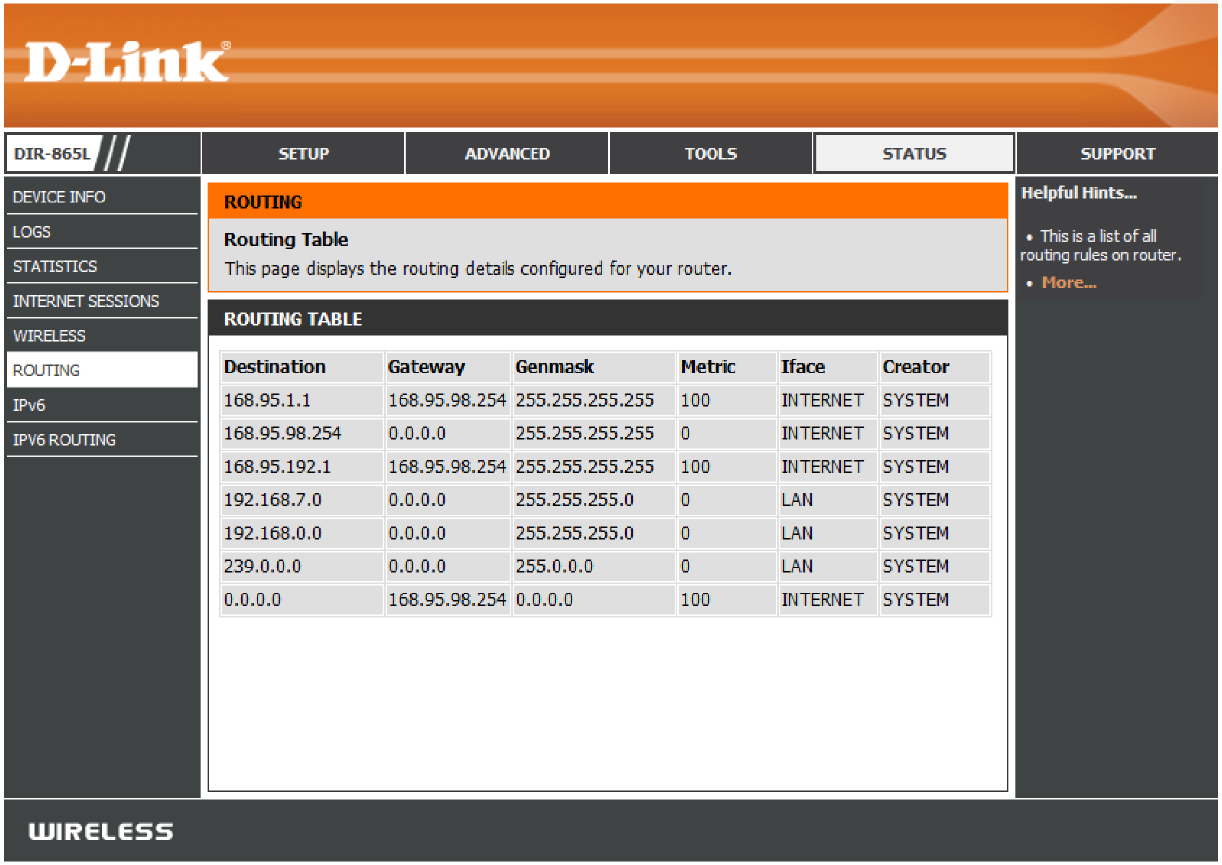
MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)

Helpful Hints...

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

Routing

This page will display your current routing table.



ROUTING

Routing Table

This page displays the routing details configured for your router.

ROUTING TABLE

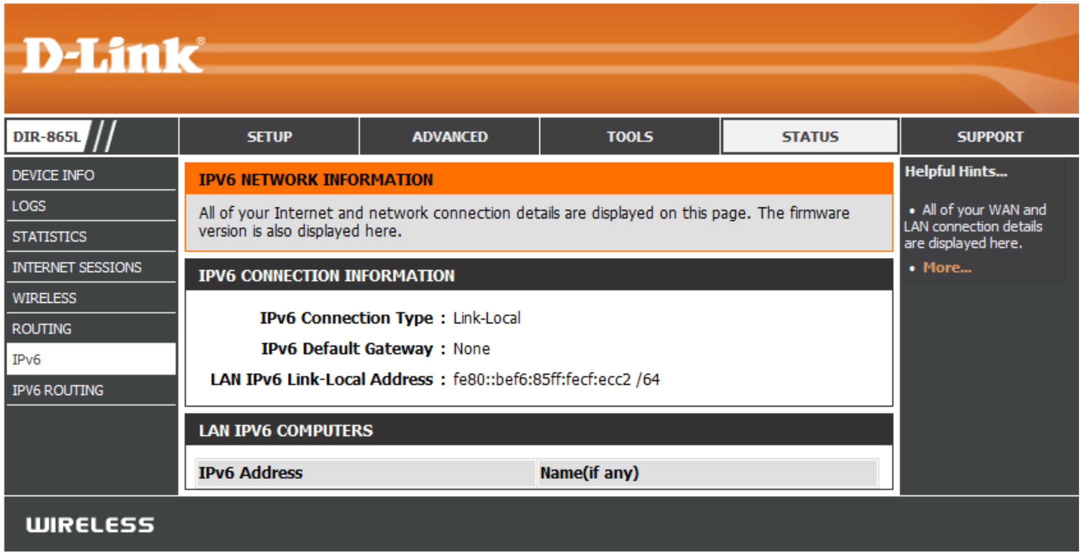
Destination	Gateway	Genmask	Metric	Iface	Creator
168.95.1.1	168.95.98.254	255.255.255.255	100	INTERNET	SYSTEM
168.95.98.254	0.0.0.0	255.255.255.255	0	INTERNET	SYSTEM
168.95.192.1	168.95.98.254	255.255.255.255	100	INTERNET	SYSTEM
192.168.7.0	0.0.0.0	255.255.255.0	0	LAN	SYSTEM
192.168.0.0	0.0.0.0	255.255.255.0	0	LAN	SYSTEM
239.0.0.0	0.0.0.0	255.0.0.0	0	LAN	SYSTEM
0.0.0.0	168.95.98.254	0.0.0.0	100	INTERNET	SYSTEM

Helpful Hints...

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

IPv6

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



IPV6 NETWORK INFORMATION

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

IPV6 CONNECTION INFORMATION

IPv6 Connection Type : Link-Local
IPv6 Default Gateway : None
LAN IPv6 Link-Local Address : fe80::bef6:85ff:fecf:ecc2 /64

LAN IPV6 COMPUTERS

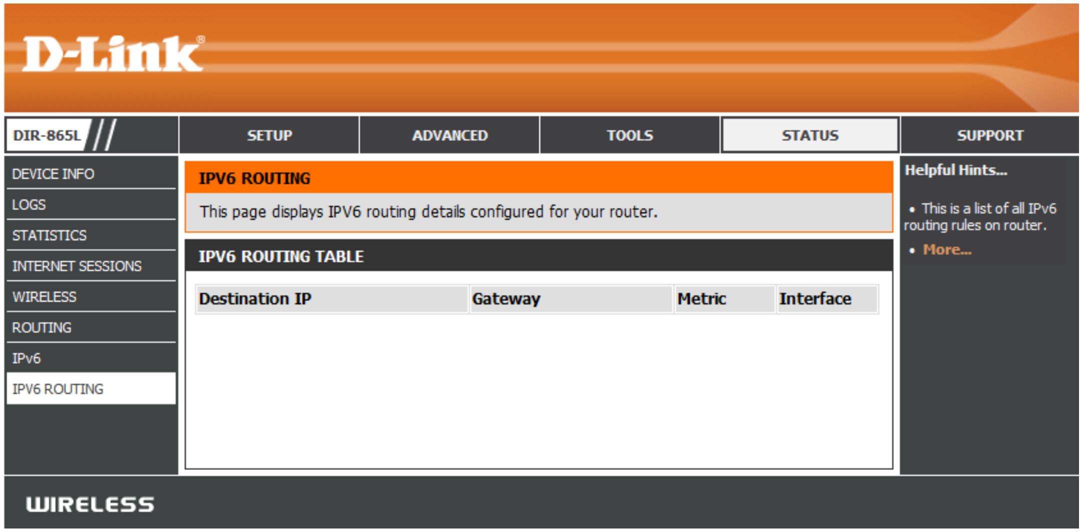
IPv6 Address	Name(if any)

Helpful Hints...

- All of your WAN and LAN connection details are displayed here.
- More...

IPV6 Routing

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



IPV6 ROUTING

This page displays IPV6 routing details configured for your router.

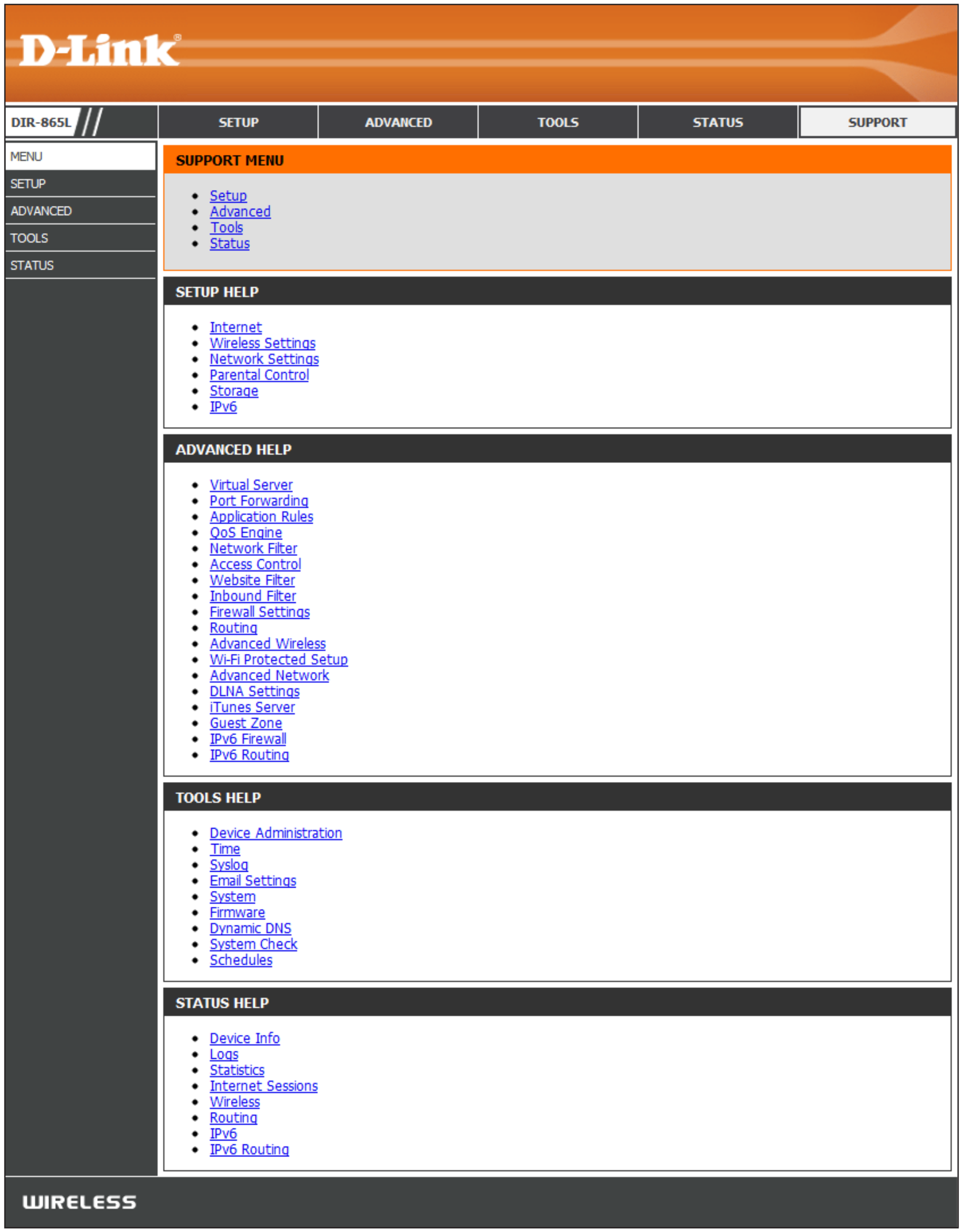
IPV6 ROUTING TABLE

Destination IP	Gateway	Metric	Interface

Helpful Hints...

- This is a list of all IPv6 routing rules on router.
- More...

Support



SUPPORT MENU

- Setup
- Advanced
- Tools
- Status

SETUP HELP

- Internet
- Wireless Settings
- Network Settings
- Parental Control
- Storage
- IPv6

ADVANCED HELP

- Virtual Server
- Port Forwarding
- Application Rules
- QoS Engine
- Network Filter
- Access Control
- Website Filter
- Inbound Filter
- Firewall Settings
- Routing
- Advanced Wireless
- Wi-Fi Protected Setup
- Advanced Network
- DLNA Settings
- iTunes Server
- Guest Zone
- IPv6 Firewall
- IPv6 Routing

TOOLS HELP

- Device Administration
- Time
- Syslog
- Email Settings
- System
- Firmware
- Dynamic DNS
- System Check
- Schedules

STATUS HELP

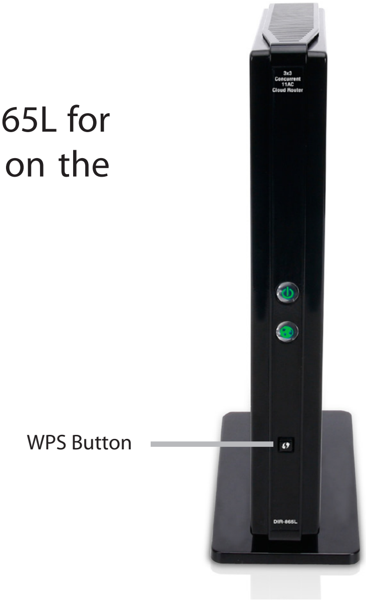
- Device Info
- Logs
- Statistics
- Internet Sessions
- Wireless
- Routing
- IPv6
- IPv6 Routing

Connect a Wireless Client to your Router

WPS Button

The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-865L router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DIR-865L 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).

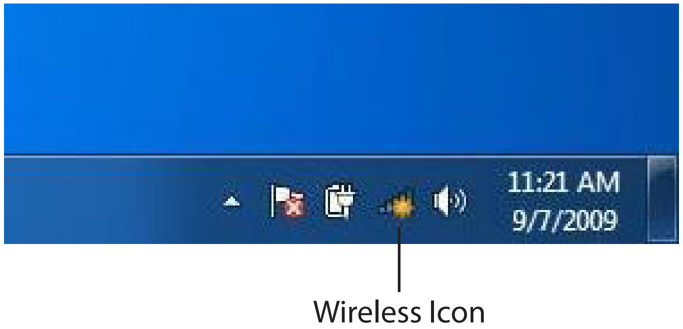
Step 3 - Allow up to 1 minute to configure. Once the Internet light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 7

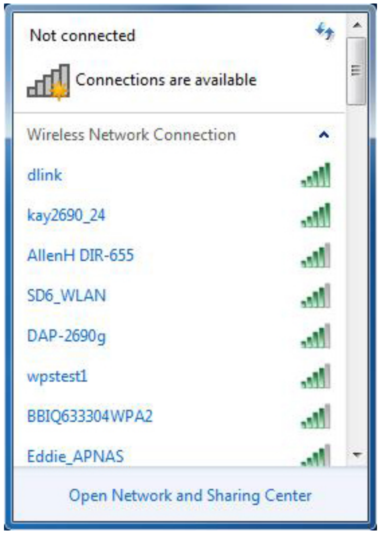
WPA/WPA2

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).

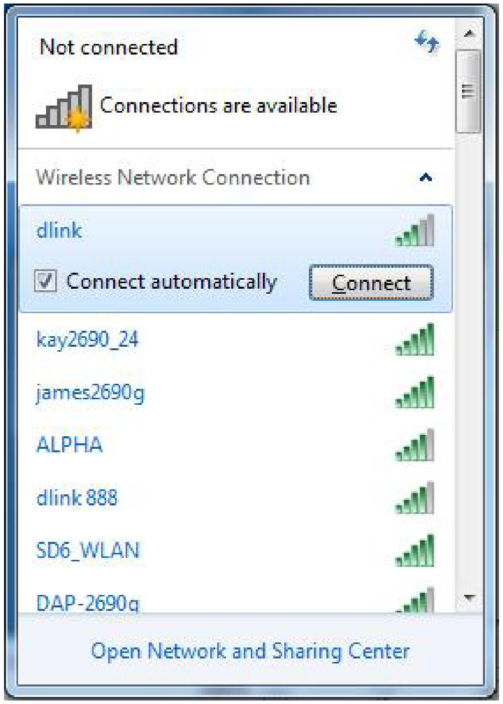


2. The utility will display any available wireless networks in your area.

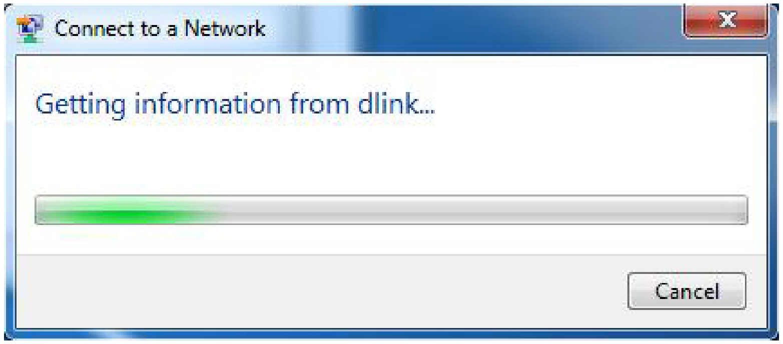


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

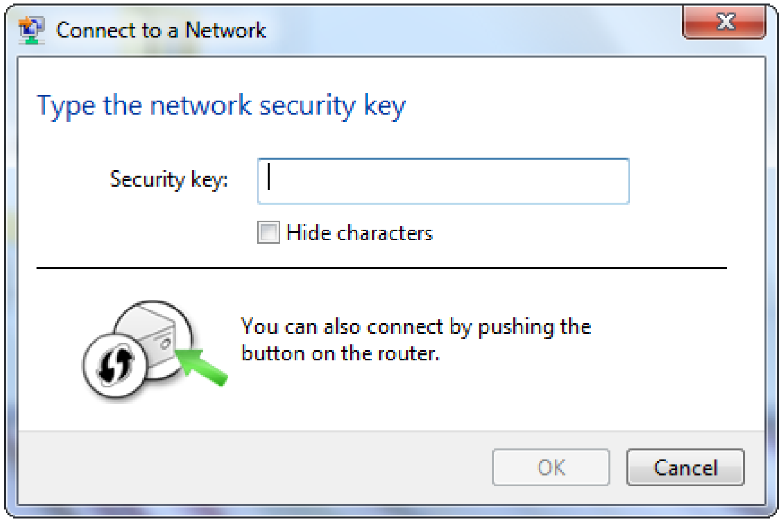
   If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.



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



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


Connect to a Network

Type the network security key

Security key:

□ Hide characters

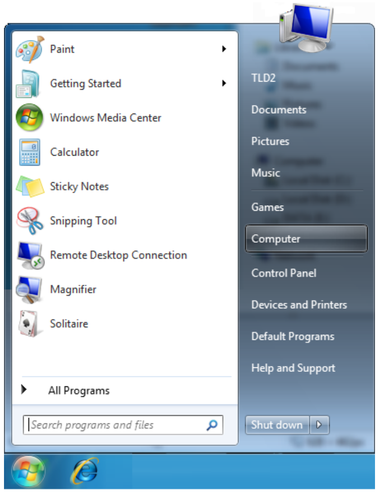
You can also connect by pushing the button on the router.

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

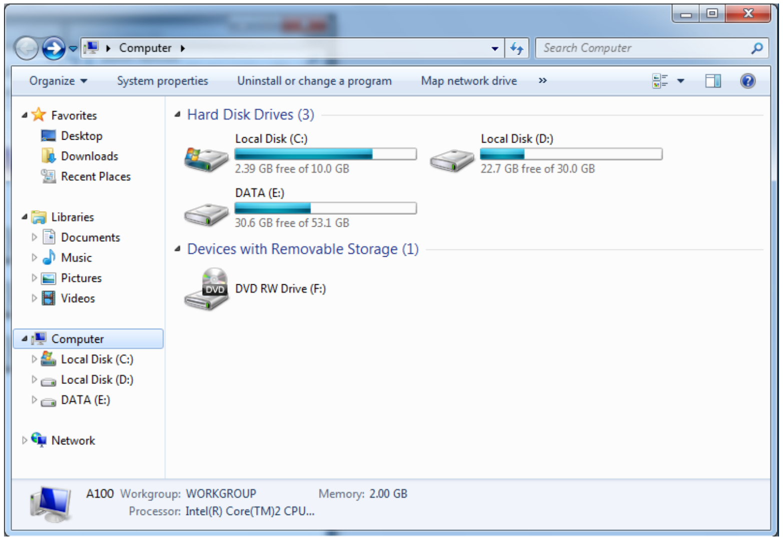
WPS

The WPS feature of the DIR-865L can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

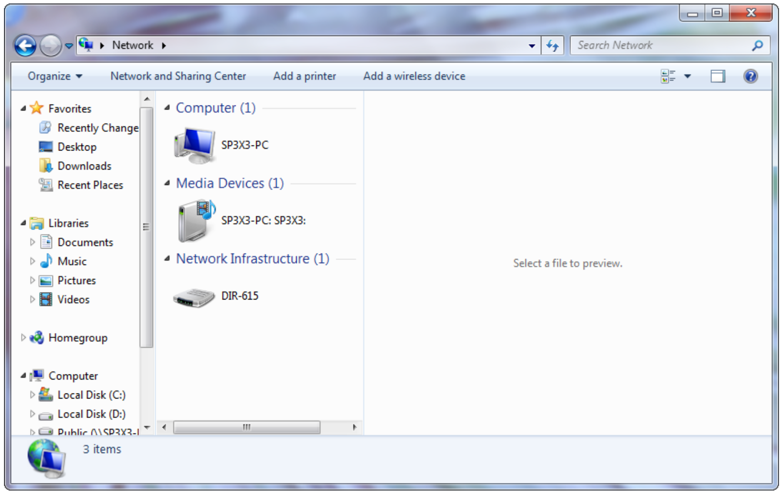
1. Click the **Start** button and select **Computer** from the Start menu.



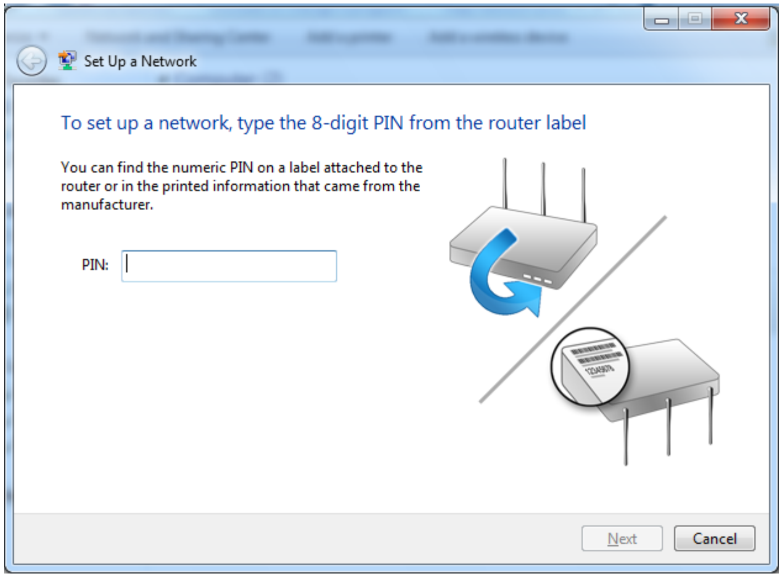
2. Click **Network** on the left side.



3. Double-click the DIR-865L.



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**.

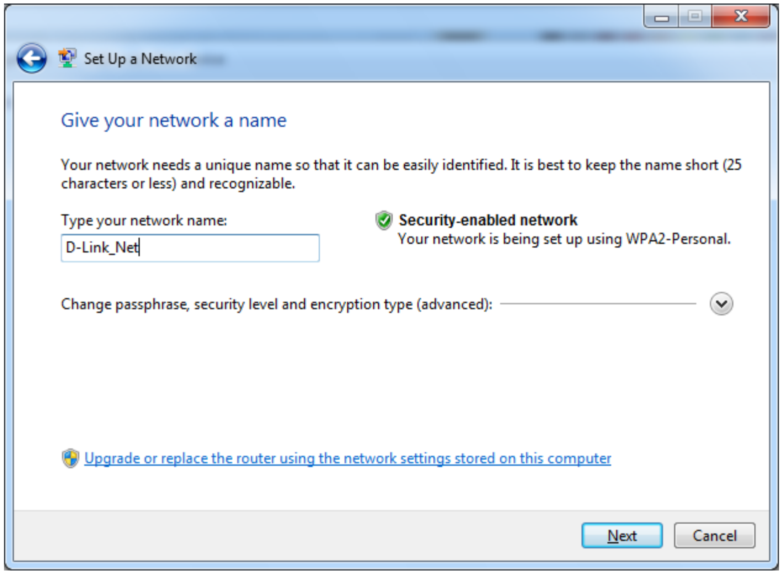


To set up a network, type the 8-digit PIN from the router label

You can find the numeric PIN on a label attached to the router or in the printed information that came from the manufacturer.

PIN:

5. Type a name to identify the network.



Give your network a name

Your network needs a unique name so that it can be easily identified. It is best to keep the name short (25 characters or less) and recognizable.

Type your network name: D-Link_Net

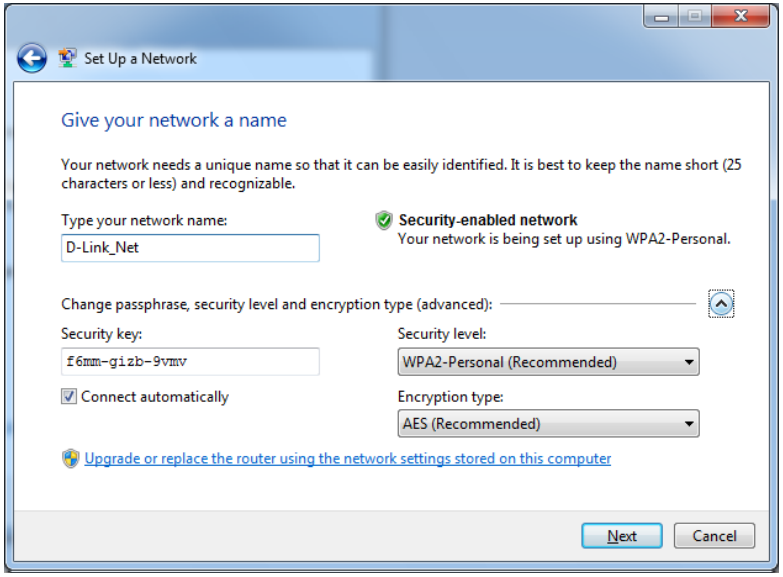
Security-enabled network
Your network is being set up using WPA2-Personal.

Change passphrase, security level and encryption type (advanced):

Upgrade or replace the router using the network settings stored on this computer

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

Click **Next** to continue.



Give your network a name

Your network needs a unique name so that it can be easily identified. It is best to keep the name short (25 characters or less) and recognizable.

Type your network name: D-Link_Net

Security-enabled network
Your network is being set up using WPA2-Personal.

Change passphrase, security level and encryption type (advanced):

Security key: f6mm-gizb-9vmv

Security level: WPA2-Personal (Recommended)

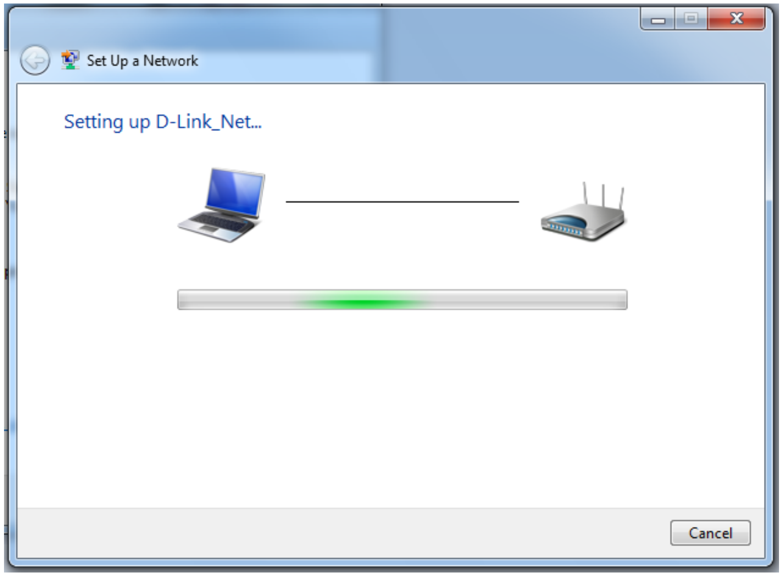
☑ Connect automatically

Encryption type: AES (Recommended)

Upgrade or replace the router using the network settings stored on this computer

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

   Wait for the configuration to complete.

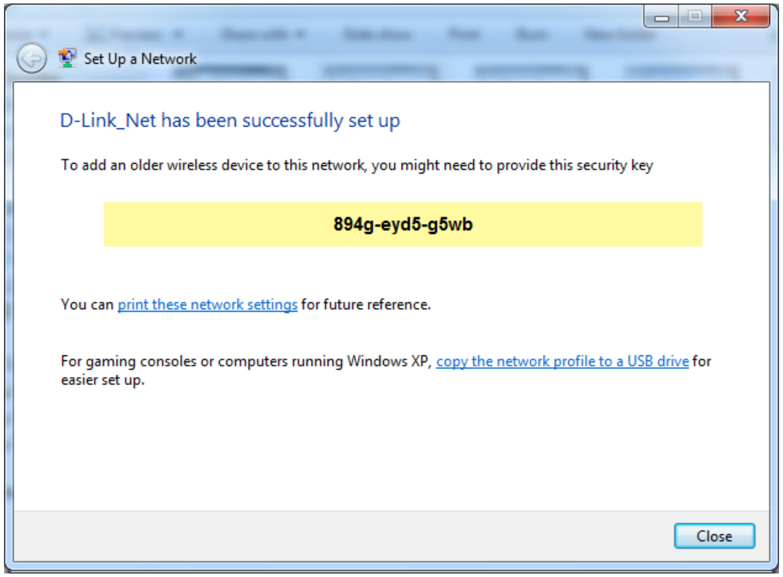


Setting up D-Link_Net...

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.



D-Link_Net has been successfully set up

To add an older wireless device to this network, you might need to provide this security key

894g-eyd5-g5wb

You can print these network settings for future reference.

For gaming consoles or computers running Windows XP, copy the network profile to a USB drive for easier set up.

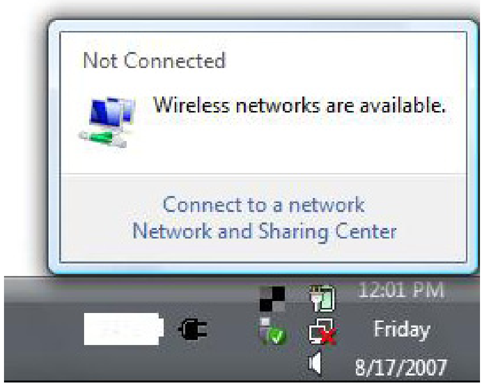
Windows Vista®

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**.

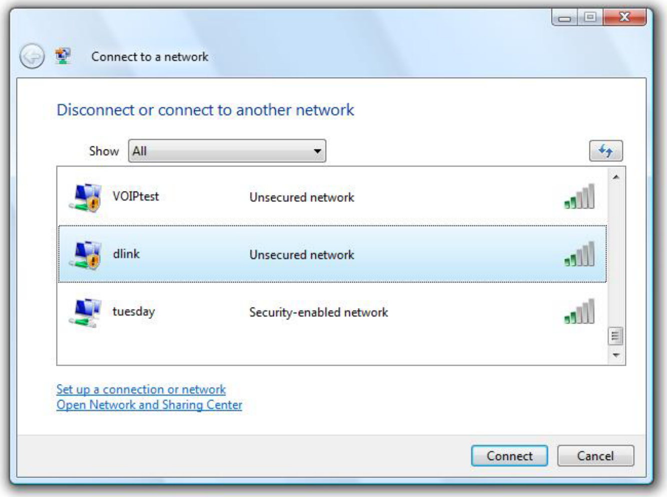


Not Connected

Wireless networks are available.

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.



Disconnect or connect to another network

Show: All

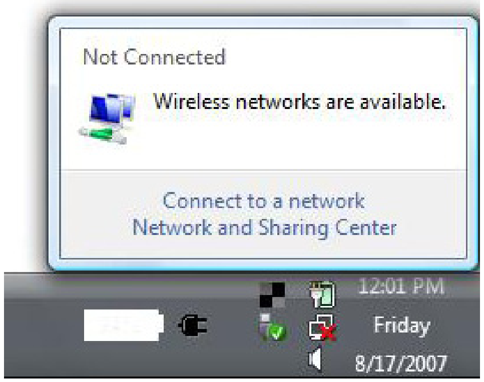
VOIPtest	Unsecured network
dlink	Unsecured network
tuesday	Security-enabled network

Set up a connection or network
Open Network and Sharing Center
Connect
Cancel

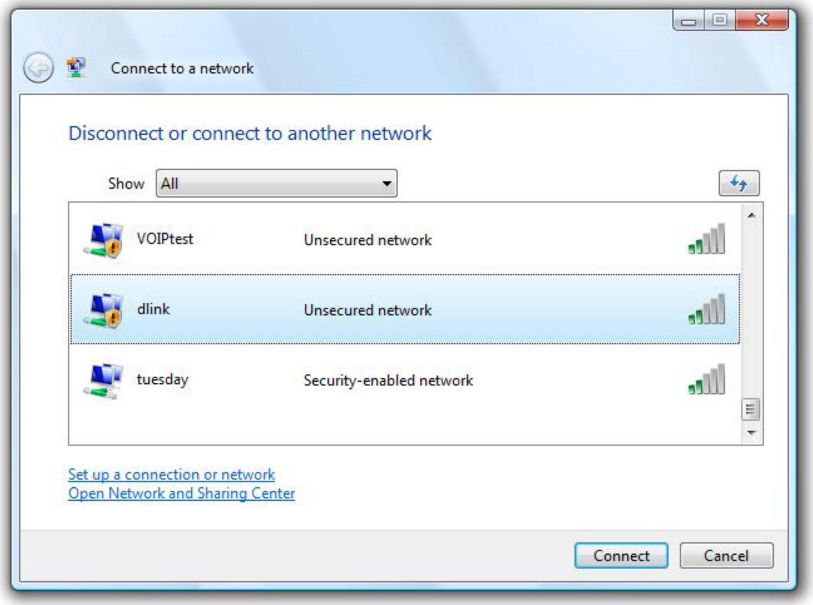
WPA/WPA2

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

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

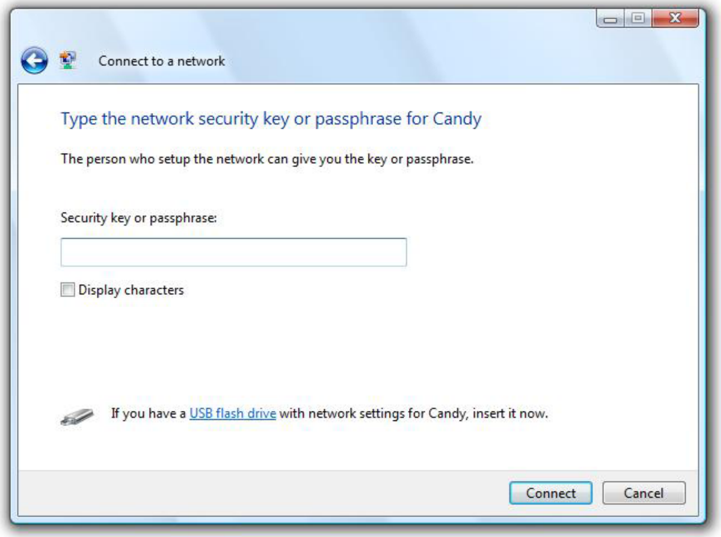


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.


Connect to a network
Disconnect or connect to another network
Show All
VOIPtest Unsecured network
dlink Unsecured network
tuesday Security-enabled network
Set up a connection or network
Open Network and Sharing Center
Connect
Cancel

3. Enter the same security key or passphrase that is on your router and click **Connect**.

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



Type the network security key or passphrase for Candy

The person who setup the network can give you the key or passphrase.

Security key or passphrase:

□ Display characters

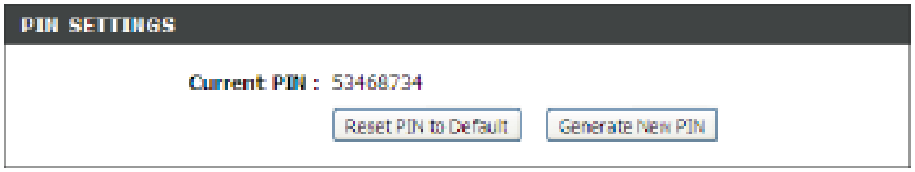
If you have a USB flash drive with network settings for Candy, insert it now.

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.



PIN SETTINGS

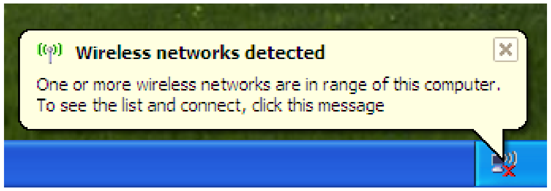
Current PIN : 53468734

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.

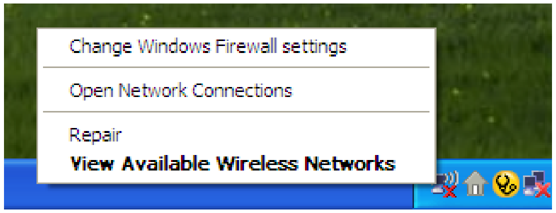


Wireless networks detected

One or more wireless networks are in range of this computer. To see the list and connect, click this message

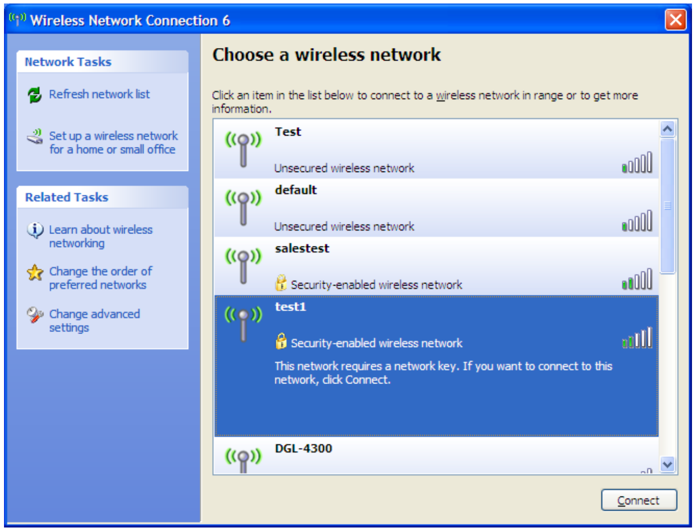
or

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


Change Windows Firewall settings
Open Network Connections
Repair
View Available Wireless Networks

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

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



Wireless Network Connection 6

Choose a wireless network

Click an item in the list below to connect to a wireless network in range or to get more information.

Test
Unsecured wireless network

default
Unsecured wireless network

salestest
Security-enabled wireless network

test1
Security-enabled wireless network
This network requires a network key. If you want to connect to this network, click Connect.

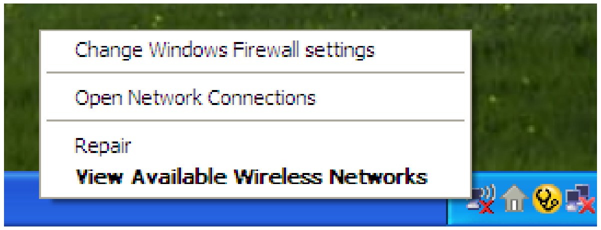
DGL-4300

Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Connect

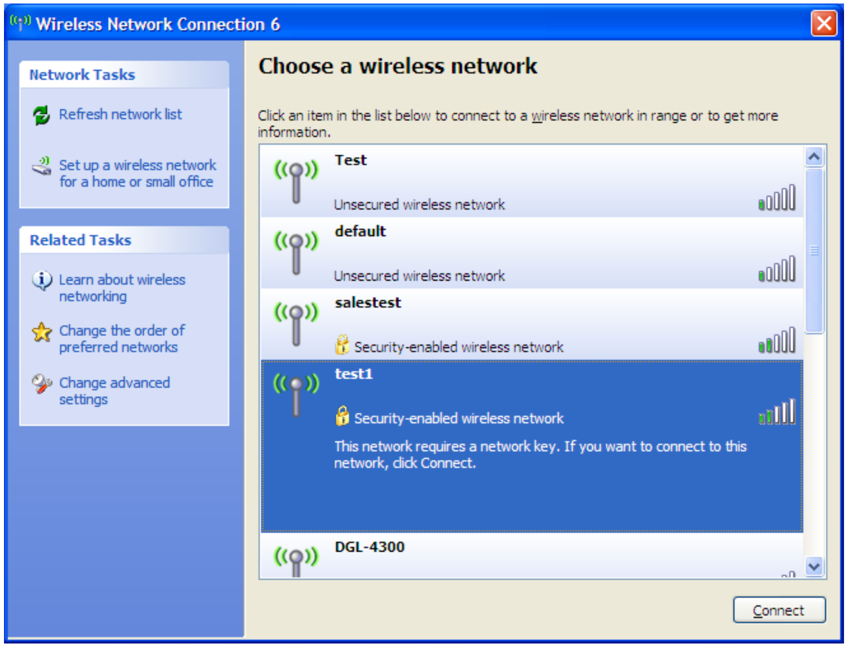
WPA/WPA2

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**.


Change Windows Firewall settings
Open Network Connections
Repair
View Available Wireless Networks

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


Wireless Network Connection 6
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Connect

Choose a wireless network

Click an item in the list below to connect to a wireless network in range or to get more information.

Test
Unsecured wireless network

default
Unsecured wireless network

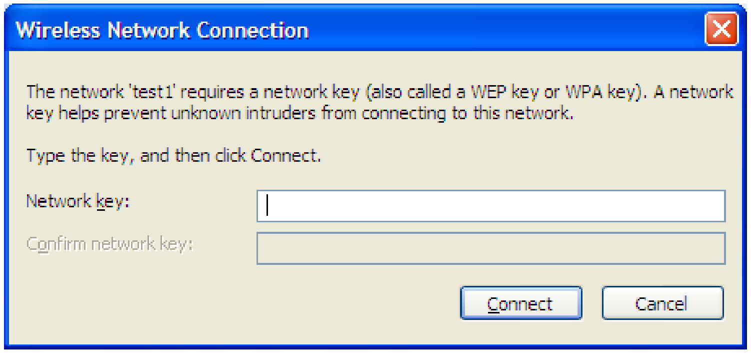
salestest
Security-enabled wireless network

test1
Security-enabled wireless network
This network requires a network key. If you want to connect to this network, click Connect.

DGL-4300

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

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



Wireless Network Connection

The network 'test1' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.

Type the key, and then click Connect.

Network key:

Confirm network key:

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-865L. 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?

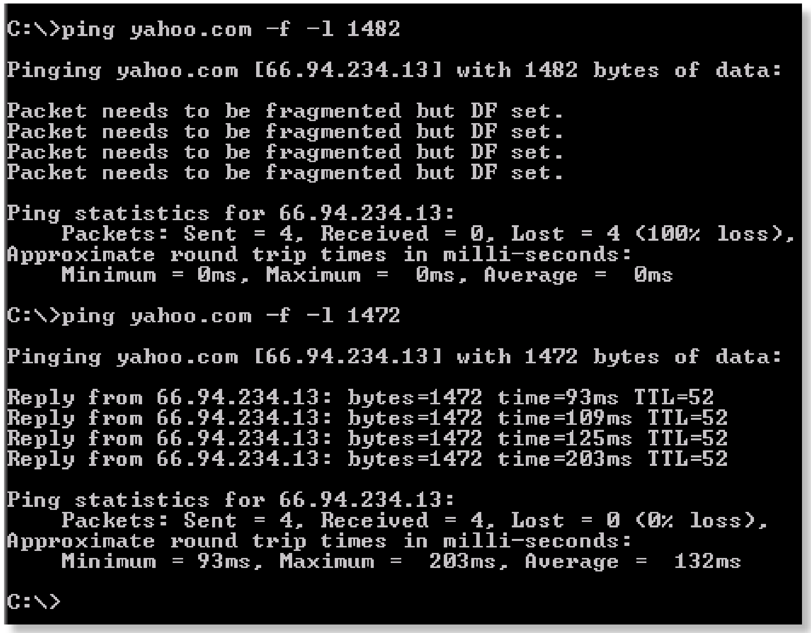
If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

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, lets say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with (1452+28=1480).

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

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

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

Wireless Basics

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

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

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

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

What is Wireless?

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

Why D-Link Wireless?

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

How does wireless work?

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

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home

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

Small Office and Home Office

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-Hoc** – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more DIR-865L 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

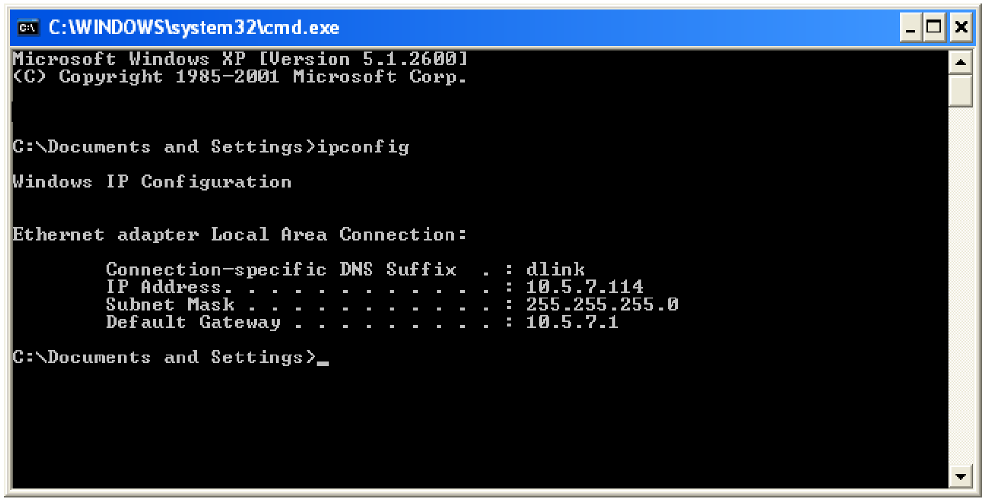
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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.



```
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

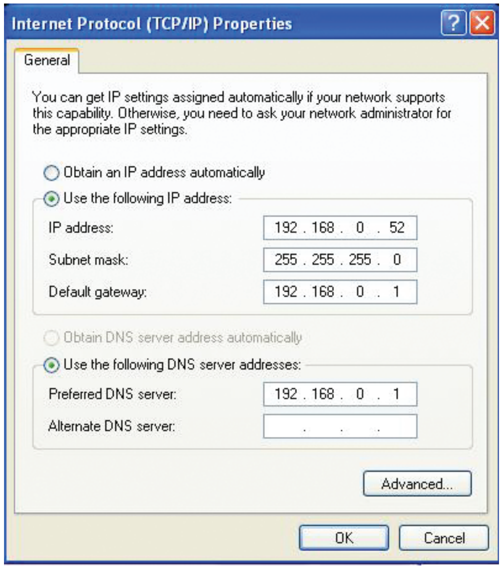
Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

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.



You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address:

IP address: 192 . 168 . 0 . 52
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 0 . 1

○ Obtain DNS server address automatically
● Use the following DNS server addresses:

Preferred DNS server: 192 . 168 . 0 . 1
Alternate DNS server: . . .

Step 5

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

Technical Specifications

Standards

- IEEE 802.11ac (draft)
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11n
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab

Physical Interface

- 4 Gigabit Ethernet Ports
- 1 Gigabit WAN Port
- USB 2.0
- 1 WPS Push Button
- Reset Button

Ethernet Interface

- 4 10/100/1000 Gigabit Ethernet Ports

Security

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

Advanced Firewall Features

- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- VPN Pass-through

LEDs

- Power/WPS
- Internet

Power

- DC 12V/3A

Operating Temperature

- 30º to 104º F (0º to 40º C)

Operating Humidity

- 10% to 95% non-condensing

Certifications

- FCC
- IC
- CSA internation
- Wi-Fi / WPS
- DLNA
- IPv6 Ready
- WIN 7

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

[2] Frequency Range varies depending on country's regulation

[3] The DIR-865L does not include 5.25-5.35GHz & 5.47-5.725GHz in some regions.

Features

- SharePort Plus
- SharePort Mobile
- Web File Access Support
- Mydlink Cloud Management Service
- QRS Mobile
- SAMBA Support
- Media Server support
- IPv6 support

Advanced Features

- VPN pass through
- Guest Zone Support
- UPnP™ Support
- Wi-Fi WMM Quality of Service

Dimensions

- 1.26” x 6.57”x 9.45” (32mm x 167mm x 240mm)
- With stand: 2.76” x 6.57 x 9.92” (70mm x 167mm x 252mm)

Weight

- 1.22 lb (550g)

Warranty

- 1-Year Limited Warranty

Contacting Technical Support

U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DIR-865L)
- Hardware Revision (located on the label on the bottom of the router (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the router).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:
(877) 453-5465

Internet Support:
http://support.dlink.com

For customers within Canada:

Phone Support:
(800) 361-5265

Internet Support:
http://support.dlink.ca

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Please direct all inquiries to:
Email: GPLCODE@DLink.com
Snail Mail:
Attn: GPLSOURCE REQUEST
D-Link Systems, Inc.
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15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

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17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below ("Hardware") will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below ("Warranty Period"), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty:

D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim (USA):

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.

- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.com/.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

Submitting A Claim (Canada):

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- Customers need to provide their receipt (proof of purchase) even if the product is registered. Without a receipt, no warranty service will be done. The registration is not considered a proof of purchase.

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.

- The customer must obtain a Case ID Number from D-Link Technical Support at 1-800-361-5265, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.ca/.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will be rejected by D-Link. Products shall be fully insured by the customer and shipped to D-Link Networks, Inc., 2525 Meadowvale Boulevard Mississauga, Ontario, L5N 5S2 Canada. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via Purolator Canada or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in Canada, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

- RMA phone number: 1-800-361-5265 Hours of Operation: Monday-Friday, 9:00AM – 9:00PM EST

What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:
Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability:

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law:

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

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CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement:

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

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

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

FCC Caution:

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

Operations in the 5.15-5.25GHz / 5.470 ~ 5.725GHz band are restricted to indoor usage only.

IMPORTANT NOTICE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

ICC Notice:

Operation is subject to the following two conditions:

1) This device may not cause interference and
2) This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT NOTE:
IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

(i) The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;
(ii) The maximum antenna gain (2dBi) permitted (for devices in the band 5725-5825 MHz) to comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate, as stated in section A9.2(3).

In addition, users should also be cautioned to take note that high-power radars are allocated as primary users (meaning they have priority) of the bands 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

(1) Ce périphérique ne doit pas causer d'interférence et.
(2) Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

Registration

Register your product online at registration.dlink.com

Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

Version 1.0
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