



# User Manual

## Covr Wi-Fi System

DKT-883

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# Preface

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

## Manual Revisions

Revision	Date	Description
1.00	January 9, 2017	Initial release

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## Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.

Network Standby: TBD watts

Switched Off: TBD watts

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# Package Contents

DIR-883

Quick Installation Card

DAP-1665

Wi-Fi Configuration Card

Ethernet Cable

DIR-883 Power Adapter

DAP-1665 Power Adapter

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

**Note:** Using a power supply with a different voltage rating than the ones included with the DIR-883 will cause damage and void the warranty for this product.

# System Requirements

<b>Network Requirements</b>	<ul style="list-style-type: none"><li>• An Ethernet-based cable or DSL modem</li><li>• IEEE 802.11 ac/n/g/b/a wireless clients</li><li>• 10/100/1000 Ethernet connection</li></ul>
<b>Web-based Configuration Utility Requirements</b>	<p><b>Computer with the following:</b></p> <ul style="list-style-type: none"><li>• Windows®, Macintosh, or Linux-based operating system</li><li>• An installed Ethernet adapter or Wireless Ethernet adapter</li></ul> <p><b>Browser Requirements:</b></p> <ul style="list-style-type: none"><li>• Internet Explorer 10 or higher</li><li>• Firefox 28 or higher</li><li>• Safari 6 or higher</li><li>• Chrome 28 or higher</li></ul> <p><b>Windows® Users:</b> Make sure you have the latest version of Java installed. Visit <a href="http://www.java.com">www.java.com</a> to download the latest version.</p>

# Introduction

The DKT-883 Covr Wi-Fi System is a revolutionary wireless networking solution comprised of the DIR-883 AC2600 Wi-Fi Router and DAP-1655 AC1300 Wi-Fi Range Extender. Covr builds a small-scale mesh-like wireless network which blankets your home or small office in high-speed wireless coverage, without dead spots or service interruptions. D-Link created the Covr Wi-Fi System to overcome the limitations of wireless technology and to satisfy the demand for Wi-Fi everywhere. Until now, most home networks have been dominated by a single device providing all Internet connectivity and wireless coverage. For larger homes and offices this is inadequate, leading to dead spots, poor reception, and slow speeds. The Covr Wi-Fi System eliminates these problems with multiple devices to share Internet and provide seamless wireless using technology never seen before in the consumer realm.

The Covr Wi-Fi System continually monitors your device's wireless signal strength to each Covr device, automatically connecting to the strongest signal available. Thanks to revolutionary technology, the Covr Wi-Fi System handles the transfer seamlessly, allowing you to walk from room to room without dropping phone calls or freezing streaming video. Plus, each Covr device is equipped with dual-band radios and intelligent band steering, automatically placing your device on the optimal wireless band depending on network traffic conditions. With Covr all this happens automatically, without bothering you to change networks or enter passwords.

The Covr DIR-883 AC2600 Wi-Fi Router shares your Internet connection over a blazing-fast Gigabit Wireless AC connection of up to 2600 Mbps (Up to 1766 Mbps 5 GHz Wireless AC and up to 800 Mbps 2.4 GHz Wireless N)<sup>1</sup> to each DAP-1655 AC1300 Wi-Fi Range Extender at up to 1300 Mbps (Up to 866 Mbps 5 GHz Wireless AC and up to 400 Mbps 2.4 GHz Wireless N)<sup>1</sup> using advanced AC beamforming technology to significantly outperform 802.11n and other 802.11ac devices. The DIR-883 is equipped with one Gigabit WAN/Internet port and four Gigabit LAN ports to provide speeds up to 10 times faster than standard 10/100 ports and the DAP-1655 has two Gigabit LAN ports allowing you to connect Ethernet devices or link to the DIR-883 as an access point.

The Covr Wi-Fi System is stylish and designed to fit a modern household. The DIR-883 features a slim and sleek design, with a minimal number of indicator LEDs to not draw attention. The DAP-1655 is small and unobtrusive, using internal antennas allowing it hide in plain sight while providing high-speed wireless connectivity. They connect to each other using wireless or wired Ethernet to provide approximately 280 square meters (3,000 square feet) of wireless coverage. The Covr Wi-Fi System creates the best networking experience to date. The DIR-883 prepares your home to become a Connected Home by bringing Wi-Fi to places your old signal can't reach. A stronger Wi-Fi signal means you can install more wireless surveillance cameras, baby monitors, sensors, and alarms in the places where you need them.

The DIR-883's Smart Connect Technology makes connecting to wireless networks easy by eliminating the confusion of multiple networks. Ever since the introduction of 5 GHz multi-band wireless technology, users have had to guess whether the 5 GHz or 2.4 GHz band network would provide them with better range and speed. Smart Connect simplifies this by only presenting a single wireless network for you to connect to. Behind the scenes, when a connection is initiated, the DIR-883's advanced algorithms determine the best band for your device to connect to, automatically distributing devices to the optimal band, thereby ensuring a faster, more reliable, and hassle-free experience for all of your users and devices.

## Introduction (continued)

This router is equipped with D-Link's Quick VPN technology. Using Quick VPN allows you to securely connect your computer or mobile device to places with free, untrusted Wi-Fi hotspots by encrypting and relaying your connection through your home Internet connection. This extra 'hop' reduces the chances of hackers stealing your information, such as logins, passwords, and credit card numbers. When traveling, Quick VPN lets you watch sports and use video streaming services without experiencing blackouts or filtering. You can surf the whole Internet unfiltered and unblocked, just as you would at home.

The DIR-883 supports the latest wireless security features to help prevent unauthorized access, be it from over a wireless network or the Internet. Support for WPA™ and WPA2™ standards ensure that you will be able to use the best possible encryption regardless of your client devices. In addition, this router is equipped with a dual-active firewall (SPI and NAT) to prevent potential attacks over the Internet.

The DIR-883 Covr Wi-Fi System provides incredible speeds, smart antenna technology, fast ports, and terrific security features. It also features an innovative design and easy installation options.

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



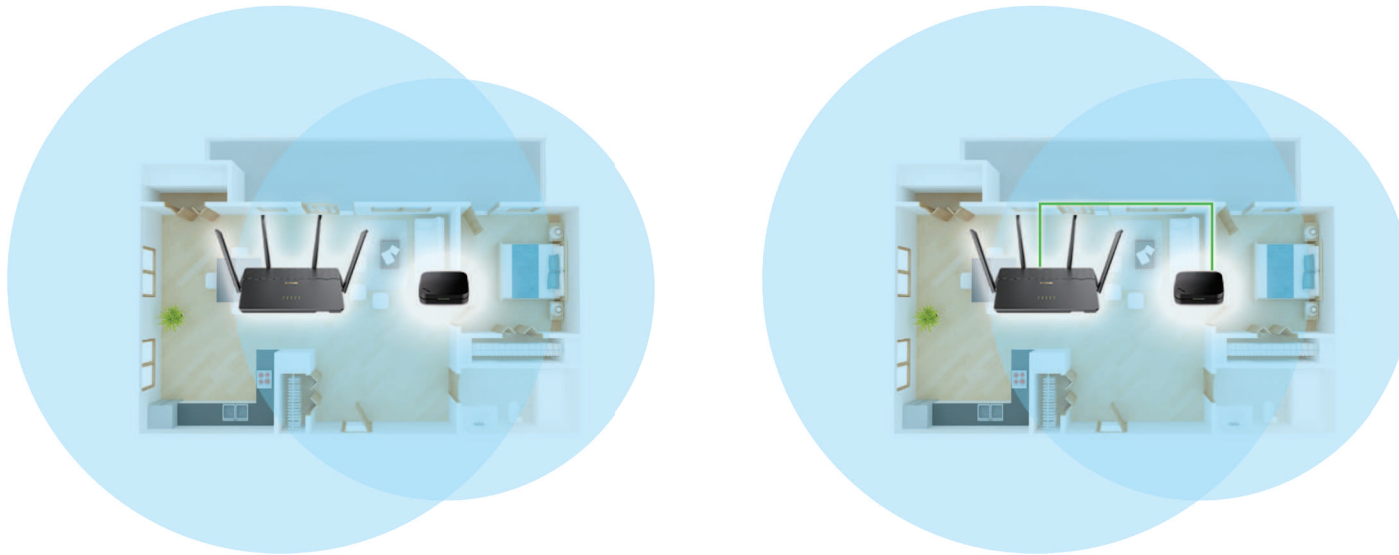
# Features

- **Covr Wi-Fi** - Creates a mesh-like seamless network comprised of multiple devices allowing you to roam throughout your home or office without experiencing network drops, poor connectivity, or reduced speeds.
- **Superior Wireless Networking** - The DIR-883 provides Gigabit wireless speeds of up to a combined 2600 Mbps (1766 Mbps 802.11ac 5 GHz, plus 800 Mbps 802.11n 2.4 GHz)<sup>1</sup>. The DAP-1655 provides Gigabit wireless speeds of up to a combined 1300 Mbps (866 Mbps 802.11ac 5 GHz, plus 400 Mbps 802.11n 2.4 GHz)<sup>1</sup>.
- **Extreme Wired LAN and WAN Networking** - With four 10/100/1000 Gigabit Ethernet LAN ports, and a 10/100/1000 Gigabit Ethernet WAN port, the DIR-883 has an enormous amount of bandwidth to take full advantage of the highest speed broadband connections available. The DAP-1655 also features two 10/100/1000 Gigabit Ethernet LAN ports for connecting wired devices or connecting as an access point to the DIR-883 as an access point.
- **Smart Connect** - Creates a 'single' wireless network for your devices to connect to. Behind the scenes, the DIR-883 automatically determines whether to connect a device to the 2.4 or 5 GHz band, thereby providing the best speed and range for each device and optimally distributing devices to each network.
- **IPv6 Support** - The DIR-883 fully supports IPv6 and includes support for a variety of IPv6 connection types including: SLAAC/DHCPv6, 6to4, 6rd, Static IPv6, IPv6 PPPoE, IPv6 in IPv4 tunneling, and local connectivity.
- **Advanced Firewall Features** - The web-based user interface displays a number of advanced network management features. Easily apply content filtering based on MAC address, URL, and/or domain name. Schedule these filters to be active on certain days or for a duration of hours or minutes.
- **Secure Multiple/Concurrent Sessions** - The DIR-883 can pass through VPN sessions. It supports multiple and concurrent IPsec and PPTP sessions, so users behind the DIR-883 can securely access corporate networks.
- **User-friendly Setup Wizard** - Through its easy-to-use web-based user interface, the DIR-883 lets you quickly configure and secure your router to your specific settings in minutes.

<sup>1</sup> Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g, 802.11n and 802.11ac 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.

# Covr Wi-Fi

The Covr Wi-Fi System expands the size of your wireless network.



# Hardware Overview

## DIR-883

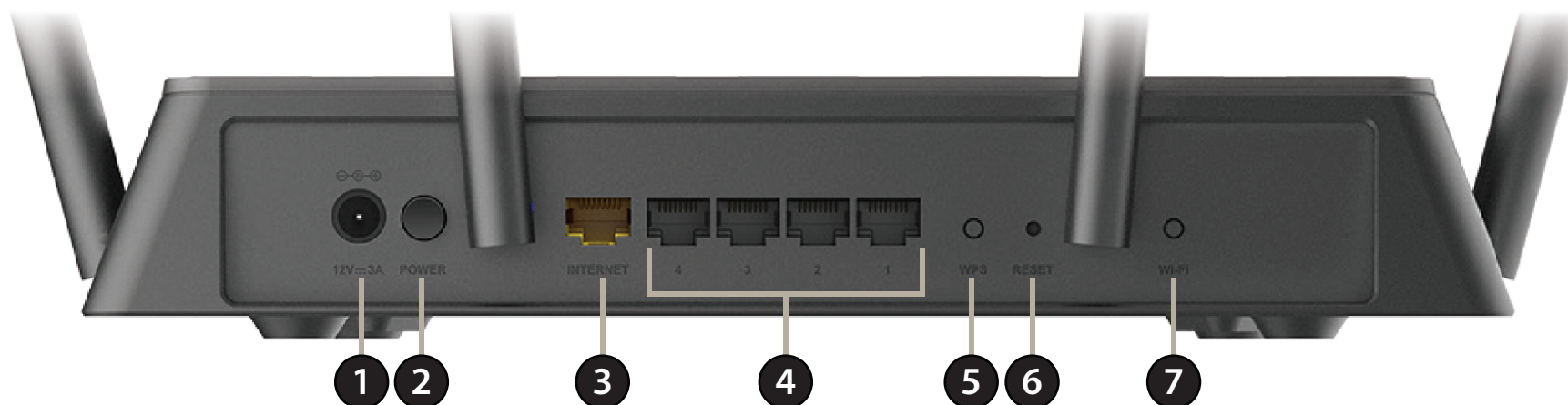
### LEDs



1	<b>Power LED</b>	A solid light indicates a proper connection to the power supply. The light will be a solid orange during boot up.
2	<b>Internet LED</b>	A solid light indicates connection on the Internet port. If the LED is orange, the router cannot connect to the Internet.
3	<b>Wireless (2.4 GHz) LED</b>	A solid light indicates that the 2.4 GHz wireless band is enabled.
4	<b>Wireless (5 GHz) LED</b>	A solid light indicates that the 5 GHz wireless band is enabled.
5	<b>USB</b>	A solid light indicates that a USB device is connected to the USB port.

# Hardware Overview

## Connections

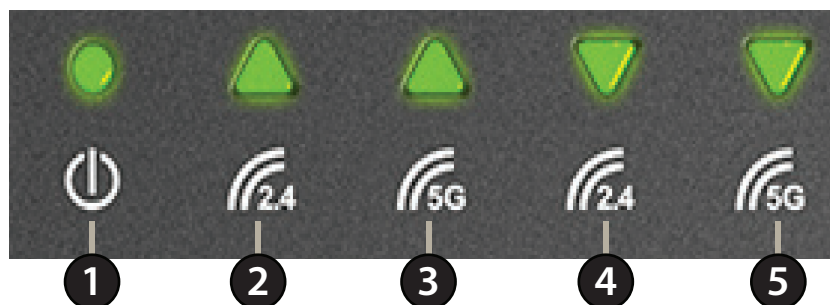


1	<b>Power Connector</b>	Connector for the supplied power adapter.
2	<b>Power Button</b>	Press the power button to power the device on and off.
3	<b>Gigabit Internet Port</b>	Using an Ethernet cable, connect your broadband modem to this port.
4	<b>Gigabit LAN Ports (1-4)</b>	Connect Ethernet devices such as computers, switches, storage (NAS) devices and game consoles.
5	<b>WPS Button</b>	Press to start the WPS process and automatically create a secure connection to a WPS client.
6	<b>Reset Button</b>	Insert a paperclip in the hole, wait for 10 seconds, and release to reset the router to default settings.
7	<b>Wireless On/Off Button</b>	Press this button turn off or turn on the wireless networks.

# Hardware Overview

## DAP-1665

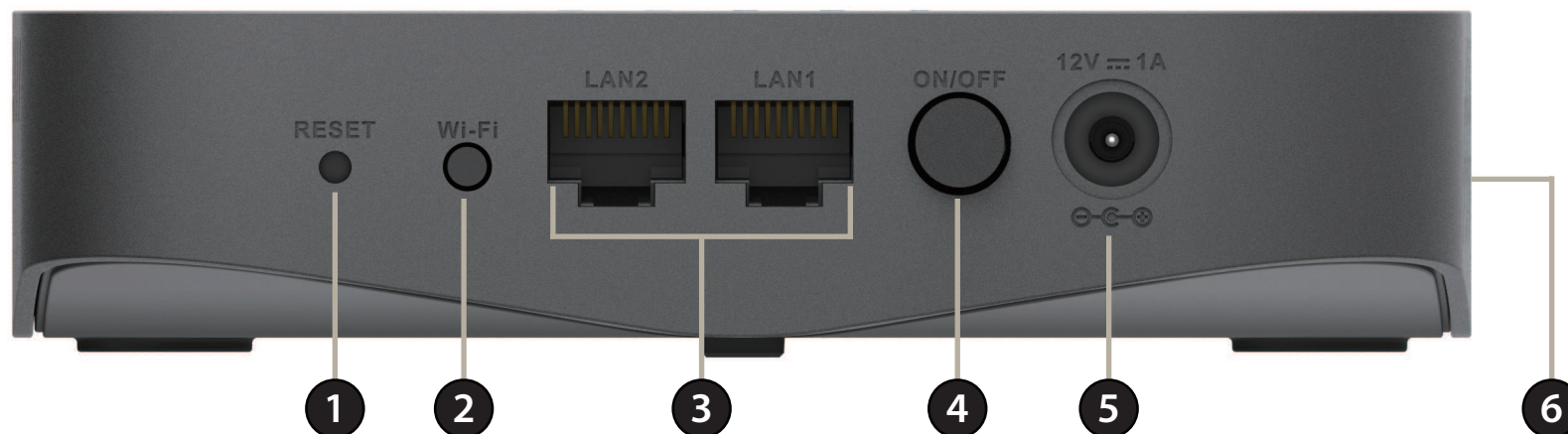
### LEDs



1	<b>Power LED</b>	A solid light indicates a proper connection to the power supply. The light will be a solid orange during boot up.
2	<b>Uplink 2.4 GHz</b>	A solid light indicates a 2.4 GHz connection to the uplink router.
3	<b>Uplink 5 GHz</b>	A solid light indicates a 5 GHz connection to the uplink router.
4	<b>Wireless (2.4 GHz) LED</b>	A solid light indicates that the 2.4 GHz wireless band is enabled.
5	<b>Wireless (5 GHz) LED</b>	A solid light indicates that the 5 GHz wireless band is enabled.

# Hardware Overview

## Connections



1	<b>Reset Button</b>	Insert a paperclip in the hole, wait for 10 seconds, and release to reset the router to default settings.
2	<b>Wireless On/Off Button</b>	Press this button turn off or turn on the wireless networks.
3	<b>Gigabit LAN Ports (1-2)</b>	Connect Ethernet devices such as computers, switches, storage (NAS) devices and game consoles or connect to your uplink router.
4	<b>Power Button</b>	Press the power button to power the device on and off.
5	<b>Power Connector</b>	Connector for the supplied power adapter.
6	<b>WPS Button (on side)</b>	Press to start the WPS process and automatically create a secure connection to a WPS client.

# Installation

This section will walk you through the installation of the Covr Wi-Fi System.

## Before you Begin

- Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, attic, or garage.
- Configure the router with the computer that was last connected directly to your Internet connection. Verify that it is connected to the Internet before connecting additional devices.
- If your ISP provided you with a modem/router combo, you will need to set it to “bridge” mode so the router can work properly. Please contact your Internet Service Provider (ISP) or refer to the user manual for your modem/router device.
- 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 connecting to a DSL modem, make sure to have your DSL service information provided by your Internet Service Provider handy. This information is likely to include your DSL account's username and password. Your ISP may also supply you with additional WAN configuration settings which might be necessary to establish a connection.
- If you are connecting a considerable amount of networking equipment, it may be a good idea to take the time to label each cable or take a picture of your existing setup before making any changes.
- 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 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 1 to 30 meters (3 to 90 feet). 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 0.5 meters (1.5 feet) thick, at a 45-degree angle appears to be almost 1 meter (3 feet) thick. At a 2-degree angle it looks over 14 meters (42 feet) 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 1 to 2 meters (3 to 6 feet) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.





## Hardware Setup (continued)

4. Use the included Ethernet cable to connect your modem to the port labeled **INTERNET** on the router.
  
  
  
  
  
  
  
  
  
  
5. Connect the supplied power adapters to the router and extender. Press the power buttons, and verify that the power LEDs are on.

**Note:** This unit is to be used with power supply model TBA.

## Hardware Setup (continued)

6. **If you are configuring the DIR-883 wirelessly from a PC**, connect to a Wi-Fi network printed on the included Wi-Fi configuration card. You can also find the Wi-Fi network names and passwords printed on the label attached to the bottom of your router.

**If you are configuring the DIR-883 from a PC with a wired Ethernet connection**, plug one end of an Ethernet cable into the port labeled 1 on the back of the router, and the other end into the Ethernet port on your computer.

7. From a web browser navigate to **[http://www.dlinkrouter.local./](http://www.dlinkrouter.local/)** and follow the onscreen instructions to complete. Proceed to **Completing Setup** on page 16.

# Completing Setup

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

- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time, refer to **Setup Wizard** on page **17**.
- **Manual Setup** - Log into the router and manually configure your router, refer to **Configuration** on page **21**.

# Setup Wizard

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

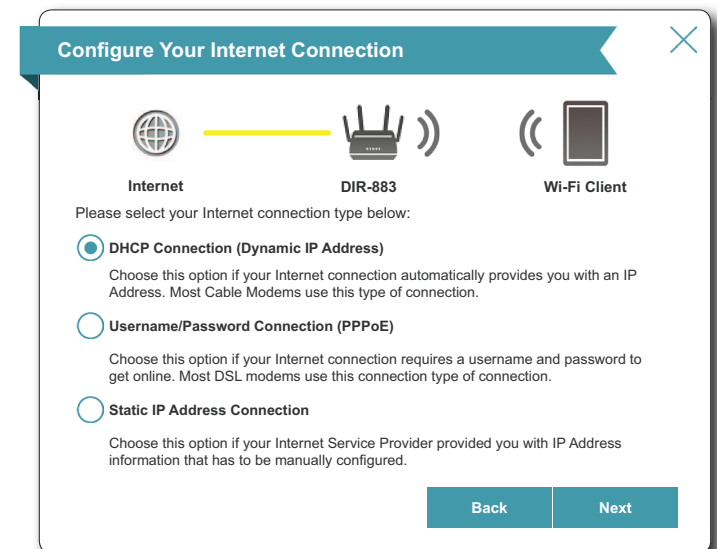
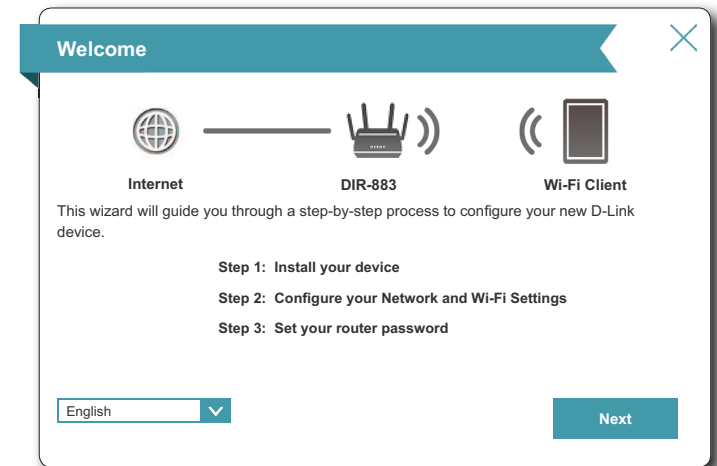
The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.

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

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

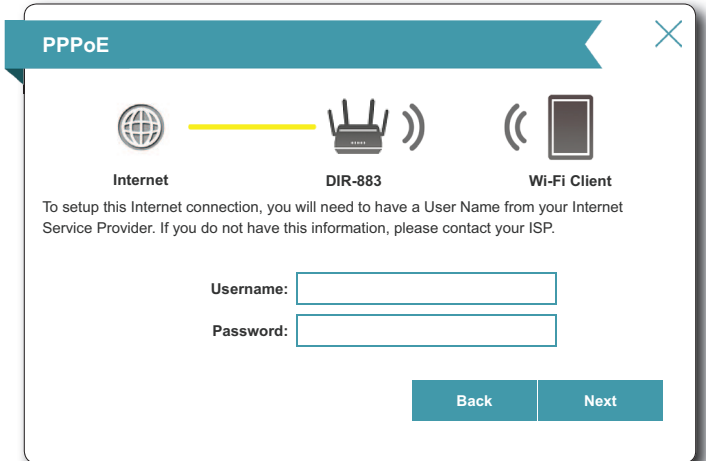
Select your Internet connection type (this information can be obtained from your Internet Service Provider) and click **Next** to continue.



## Setup Wizard (continued)

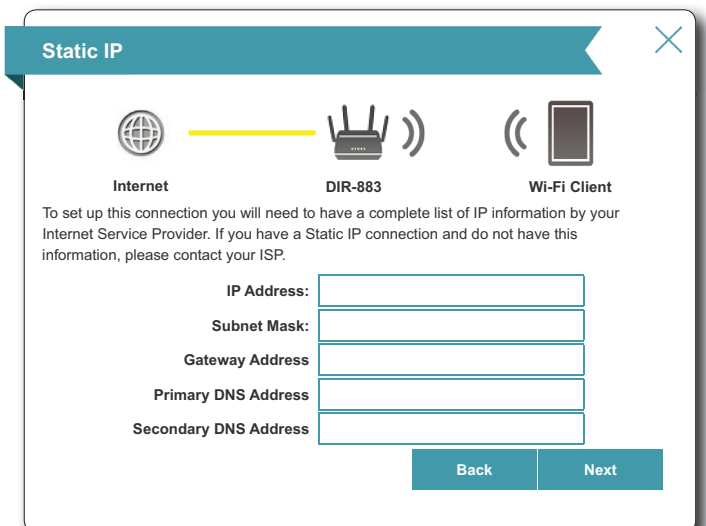
If the router detected or you selected **PPPoE**, enter your PPPoE username and password and click **Next** to continue.

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



The screenshot shows the 'PPPoE' configuration screen. At the top, there is a teal header with the text 'PPPoE' and a close button (X). Below the header, there is a diagram showing 'Internet' (globe icon) connected to 'DIR-883' (router icon) which is connected to 'Wi-Fi Client' (smartphone icon). A yellow line connects the Internet and DIR-883. Below the diagram, there is a text block: 'To setup this Internet connection, you will need to have a User Name from your Internet Service Provider. If you do not have this information, please contact your ISP.' Underneath, there are two input fields: 'Username:' and 'Password:'. At the bottom right, there are two buttons: 'Back' and 'Next'.

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



The screenshot shows the 'Static IP' configuration screen. At the top, there is a teal header with the text 'Static IP' and a close button (X). Below the header, there is a diagram showing 'Internet' (globe icon) connected to 'DIR-883' (router icon) which is connected to 'Wi-Fi Client' (smartphone icon). A yellow line connects the Internet and DIR-883. Below the diagram, there is a text block: 'To set up this connection you will need to have a complete list of IP information by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.' Underneath, there are five input fields: 'IP Address:', 'Subnet Mask:', 'Gateway Address', 'Primary DNS Address', and 'Secondary DNS Address'. At the bottom right, there are two buttons: 'Back' and 'Next'.

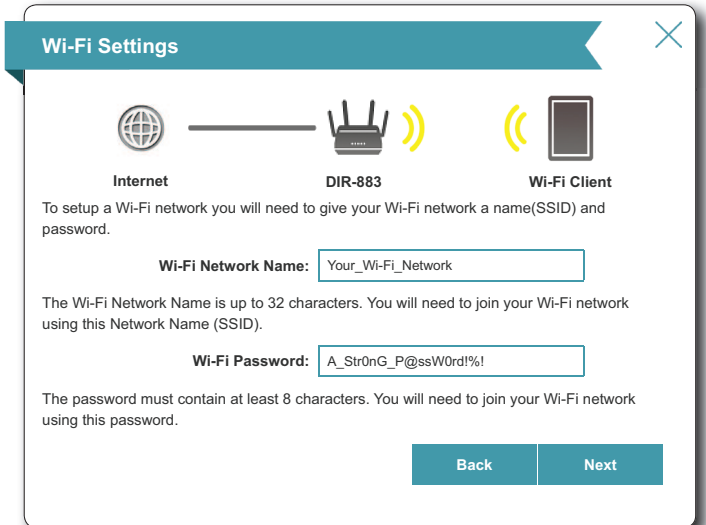
## Setup Wizard (continued)

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

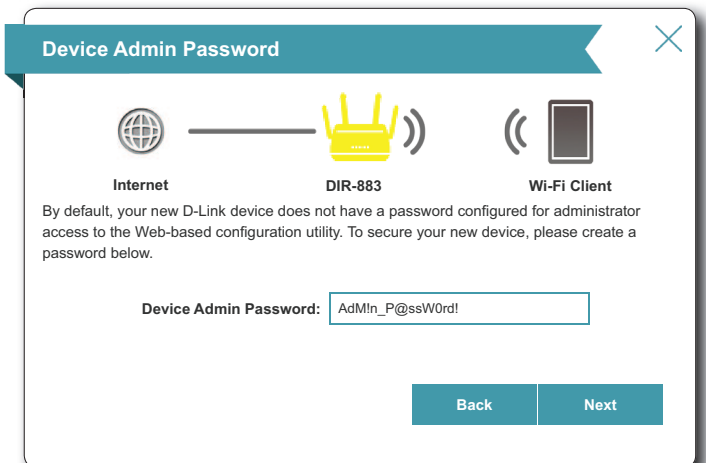
Click **Next** to continue.

**Note:** The DIR-883's Smart Connect feature presents a single wireless network. When connecting clients to an extension network, they will be automatically added to the best band, either 2.4 GHz or 5 GHz. To disable the Smart Connect feature and individually configure 2.4 GHz and 5 GHz networks, refer to **Wireless** on page **55**.

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



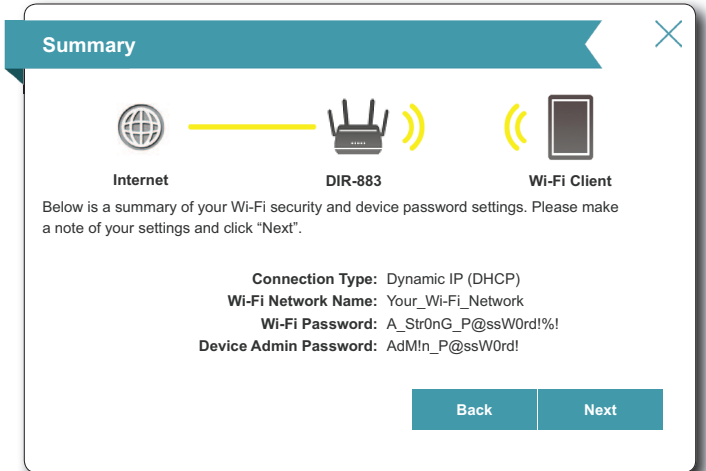
The screenshot shows the 'Wi-Fi Settings' screen. At the top, there is a teal header with the title 'Wi-Fi Settings' and a close button. Below the header is a network diagram showing 'Internet' connected to 'DIR-883' (a router icon), which is connected to 'Wi-Fi Client' (a smartphone icon). The main text explains that a Wi-Fi network name (SSID) and password are required. There are two input fields: 'Wi-Fi Network Name' with the placeholder 'Your\_Wi-Fi\_Network' and 'Wi-Fi Password' with the placeholder 'A\_Str0nG\_P@ssW0rd!%!'. Below the password field, a note states that the password must contain at least 8 characters. At the bottom right, there are 'Back' and 'Next' buttons.



The screenshot shows the 'Device Admin Password' screen. At the top, there is a teal header with the title 'Device Admin Password' and a close button. Below the header is a network diagram showing 'Internet' connected to 'DIR-883' (a router icon), which is connected to 'Wi-Fi Client' (a smartphone icon). The main text explains that by default, the device does not have a password configured for administrator access to the Web-based configuration utility, and a password must be created. There is one input field for 'Device Admin Password' with the placeholder 'AdMIn\_P@ssW0rd!'. At the bottom right, there are 'Back' and 'Next' buttons.

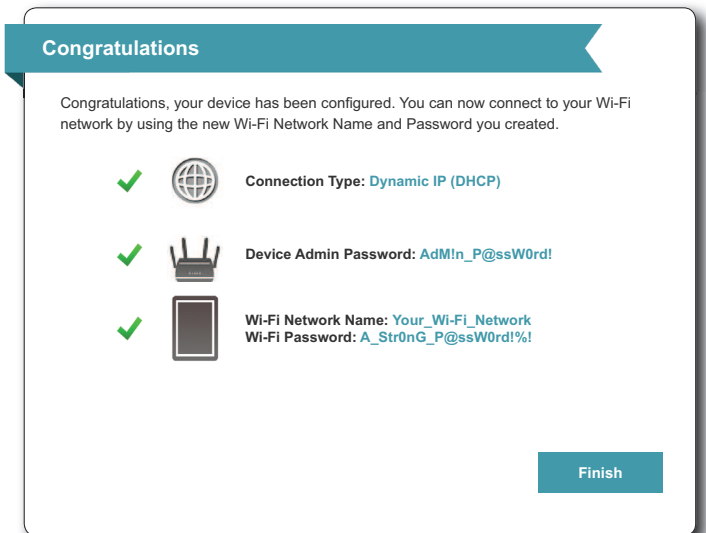
## Setup Wizard (continued)

You will be presented with a summary of your settings. Click **Next** to finalize the settings or **Back** to make changes.



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

Congratulations, your device has been successfully configured!





# Configuration

To access the configuration utility, open a web browser such as Internet Explorer and enter **http://dlinkrouter.local/** or you may also connect by typing the IP address of the router (by default this is **http://192.168.0.1**) in the address bar.

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

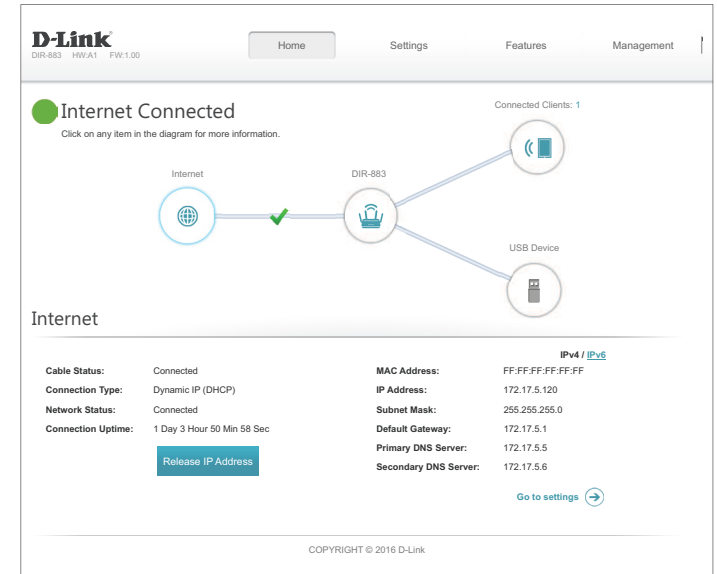
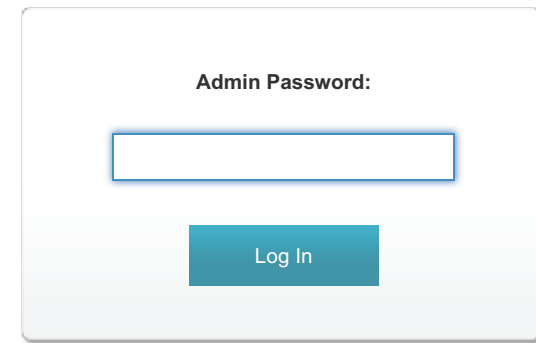
**Note:** If you cannot remember your password and cannot log in, press the reset button on the back of the device for longer than 10 seconds to restore the router to its default settings.

If you are having trouble logging in or experiencing trouble with the configuration utility, try clearing your browser cache or try using your web browsers 'private browser' or incognito mode.

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

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

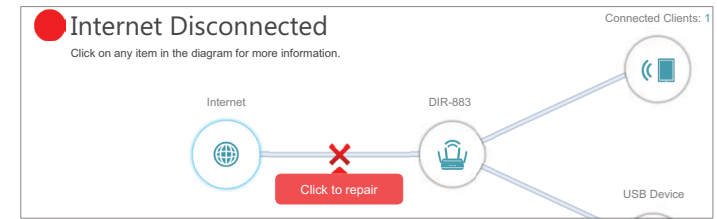
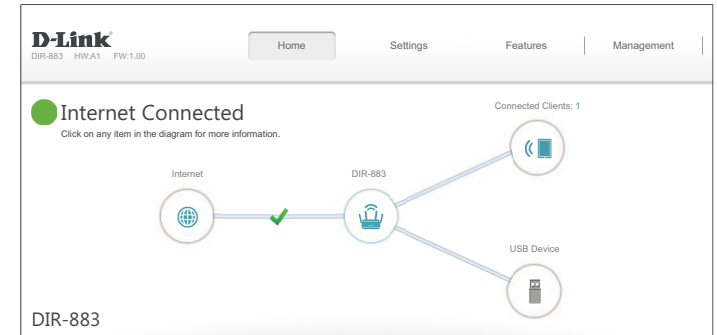
**Note:** The system will automatically log out after a period of inactivity.



# Home

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

The Home page displays the status of the router's Internet connection. If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to **Setup Wizard** on page 17 for more information.



# Internet

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

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

To reconfigure the Internet settings, refer to **Internet** on page 25.

The screenshot shows the D-Link DIR-883 Internet settings page. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. Below the navigation bar, the status is 'Internet Connected' with a green circle icon. A diagram shows the Internet connected to the DIR-883 router, which is then connected to a mobile phone icon representing a 'Connected Client' and a USB Device icon. The text 'Connected Clients: 1' is visible in the top right corner.

Below the diagram, there is a section titled 'Internet' with the following details:

Cable Status:	Connected	MAC Address:	FF:FF:FF:FF:FF:FF
Connection Type:	Dynamic IP (DHCP)	IP Address:	172.17.5.120
Network Status:	Connected	Subnet Mask:	255.255.255.0
Connection Uptime:	1 Day 3 Hour 50 Min 58 Sec	Default Gateway:	172.17.5.1
		Primary DNS Server:	172.17.5.5
		Secondary DNS Server:	172.17.5.6

At the bottom of the page, there is a 'Release IP Address' button and a 'Go to settings' link. The footer contains the text 'COPYRIGHT © 2016 D-Link'.

# DIR-883

Click on the **DIR-883** icon to view details about the router and its wireless settings.

Here you can see the router's current Wi-Fi network name and password, as well as the router's MAC address, IPv4 address, and IPv6 address.

To reconfigure the network settings, either click **Go to settings** on the lower left, or click **Settings** (at the top of the page) and then **Network** on the menu that appears. Refer to **Network** on page **59** for more information.

To reconfigure the wireless settings, either click **Go to settings**, on the lower right, or click **Settings** (at the top of the page) and then **Wireless** on the menu that appears. Refer to **Wireless** on page **55** for more information.

The screenshot displays the D-Link DIR-883 web interface. At the top, there are navigation tabs for Home, Settings, Features, and Management. Below the navigation, a green circle indicates "Internet Connected" with a note to click on any item in the diagram for more information. A network diagram shows the router (DIR-883) connected to the Internet, with a green checkmark on the connection line. To the right of the router, there are icons for "Connected Clients: 1" and "USB Device". Below the diagram, the "DIR-883" section provides network details:

IPv4 Network		Wi-Fi	
MAC Address:	FF:FF:FF:FF:FF:FF	Status:	Enabled
Router IP Address:	192.168.0.1	Wi-Fi Name (SSID):	dlink-Dir-883
Subnet Mask:	255.255.255.0	Password:	A_Str0nG_P@ssW0rd!%
IPv6 Network			
Link-Local Address:	FE80::FF00:FF00:FF00:FF00		
Router IPv6 Address:	2001:B021:23:10::1/64		
DHCP-PD:	Disabled		

At the bottom of the network details section, there are two "Go to settings" buttons with arrows, one on the left and one on the right. The footer of the page reads "COPYRIGHT © 2016 D-Link".

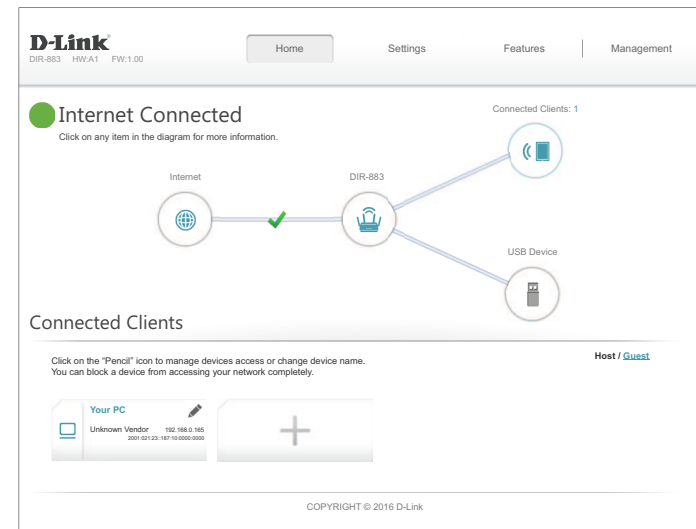
## Connected Clients

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

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

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

You may also add rules for currently disconnected or powered off devices.



**Name:** Enter a custom name for this client.

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

**MAC Address:** Displays the MAC address of the device.

**IP Address:** Displays the current IP address of this client.

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

**IP Address (Reserved):** Specify an IP address for the DIR-883's DHCP server to assign each time the device is detected.

**Parental Control:** Allow or block access to the router.

Click **Save** when you are done.

### Edit Rule ✕

Name:

Vendor: Unknown Vendor

MAC Address: ff:ff:ff:ff:ff:ff

IP Address: 192.168.0.165

Reserve IP:

IP Address (Reserved):

Parental Control:

Schedule:  ▼

# Settings Wizard

In the Settings menu on the bar on the top of the page, click **Wizard** to open the setup wizard. This is the same wizard that appears when you start the router for the first time. Refer to **Setup Wizard** on page 17 for details.

## Internet

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

**My Internet Connection Is:** Choose your Internet connection type from the drop-down menu. You will be presented with the appropriate options for your connection type.

For **Dynamic IP (DHCP)** refer to page 26.

For **Static IP** refer to page 27.

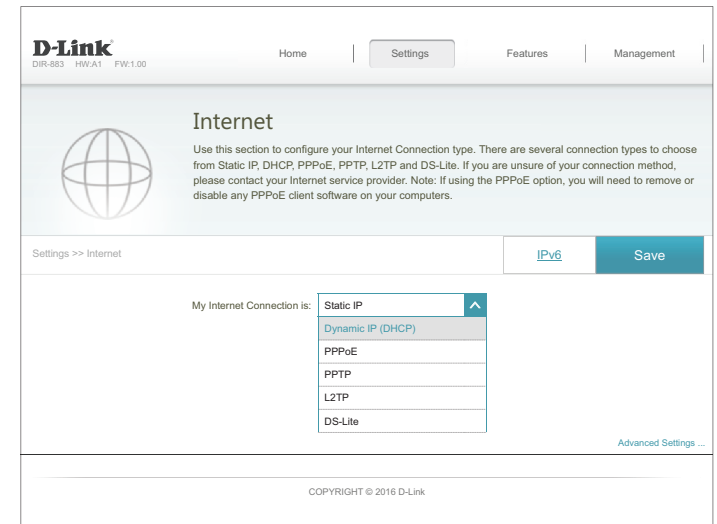
For **PPPoE** refer to page 28.

For **PPTP** refer to page 30.

For **L2TP** refer to page 32.

For **DS-Lite** refer to page 34.

To configure an IPv6 connection, click the **IPv6** link. Refer to page 37.



## Dynamic IP (DHCP)

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

**My Internet Connection Is:** **Dynamic IP (DHCP)**

### Advanced Settings

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

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

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

**MAC Address Clone:** The default MAC address is set to the Internet port's physical interface MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

**VLAN:** For more information on enabling the VLAN feature, refer to **VLAN Bridging** on page **36**.

Click **Save** when you are done.

The screenshot shows the D-Link web interface for the DIR-883 router. The page title is "Internet". Below the title, there is a globe icon and a paragraph of instructions: "Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, LZTP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." The breadcrumb "Settings >> Internet" is visible. A "Save" button is present. The "My Internet Connection is:" dropdown menu is set to "Dynamic IP (DHCP)". Below this, there are several input fields: "Host Name:" with the value "dlinkrouter", "Primary DNS Server:", "Secondary DNS Server:", "MTU:" with a dropdown set to "Auto", "Mac Address Clone:" with a dropdown set to "<< MAC Address", and "VLAN:" with a dropdown set to "Disabled". A copyright notice "COPYRIGHT © 2016 D-Link" is at the bottom.

## Static IP

Select **Static IP** if your IP information is provided by your Internet Service Provider (ISP).

### My Internet Connection Is: **Static IP**

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

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

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

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

### Advanced Settings

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

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

**MAC Address Clone:** The default MAC address is set to the Internet port's physical interface MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

**VLAN:** For more information on enabling the VLAN feature, refer to **VLAN Bridging** on page **36**.

Click **Save** when you are done.

The screenshot shows the D-Link web interface for the DIR-883 router. The page title is "Internet". Below the title, there is a globe icon and a paragraph of instructions: "Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, LZTP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." The "Settings >> Internet" breadcrumb is visible. There are "IPv6" and "Save" buttons. The "My Internet Connection is:" dropdown menu is set to "Static IP". Below this, there are input fields for "IP Address:", "Subnet Mask:", "Default Gateway:", and "Primary DNS Server:". There is also a "Secondary DNS Server:" field. The "MTU:" dropdown is set to "Auto". The "Mac Address Clone:" dropdown is set to "<< MAC Address". The "VLAN:" dropdown is set to "Disabled". At the bottom, there is a "COPYRIGHT © 2016 D-Link" notice.

## PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet.

**My Internet Connection Is:** **PPPoE**

**Username:** Enter the username provided by your ISP.

**Password:** Enter the password provided by your ISP.

**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.

### Advanced Settings

**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**.

### Dynamic IP

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

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

**MTU:** Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

The screenshot shows the 'Internet' configuration page in the D-Link web interface. The 'My Internet Connection is:' dropdown is set to 'PPPoE'. Below it are input fields for 'Username:' and 'Password:'. The 'Reconnect Mode:' dropdown is set to 'On demand', and the 'Maximum Idle Time:' is set to '5' minutes. A 'Save' button is visible in the top right corner. The page also includes a breadcrumb trail 'Settings >> Internet' and a 'IPv6' link.

The screenshot shows the 'Advanced Settings' page for Dynamic IP. The 'Address Mode:' dropdown is set to 'Dynamic IP'. Below it are input fields for 'Service Name:', 'Primary DNS Server:', and 'Secondary DNS Server:'. The 'MTU:' dropdown is set to 'Auto'. The 'Mac Address Clone:' dropdown is set to '<< MAC Address'. The 'VLAN:' dropdown is set to 'Disabled'. A 'Save' button is visible in the bottom right corner. The page also includes a breadcrumb trail 'Settings >> Internet' and a 'IPv6' link.



## PPPoE (continued)

**MAC Address Clone:** The default MAC address is set to the Internet port's physical interface MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

**VLAN:** For more information on enabling the VLAN feature, refer to **VLAN Bridging** on page 36.

Click **Save** when you are done.

### Static IP

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

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

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

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

**MAC Address Clone:** The default MAC address is set to the Internet port's physical interface MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

**VLAN:** For more information on enabling the VLAN feature, refer to **VLAN Bridging** on page 36.

Click **Save** when you are done.

The screenshot shows the PPPoE configuration page with the following settings: Address Mode is set to 'Dynamic IP' (dropdown menu), Service Name is an empty text field, Primary DNS Server is an empty text field, Secondary DNS Server is an empty text field, MTU is set to 'Auto' (dropdown menu), Mac Address Clone is an empty text field with a dropdown menu set to '<< MAC Address', and VLAN is set to 'Disabled' (checkbox). The footer contains the text 'COPYRIGHT © 2016 D-Link'.

The screenshot shows the PPPoE configuration page with the following settings: Address Mode is set to 'Static IP' (dropdown menu), IP Address is an empty text field, Service Name is an empty text field, Primary DNS Server is an empty text field, Secondary DNS Server is an empty text field, MTU is set to 'Auto' (dropdown menu), Mac Address Clone is an empty text field with a dropdown menu set to '<< MAC Address', and VLAN is set to 'Disabled' (checkbox). The footer contains the text 'COPYRIGHT © 2016 D-Link'.

## PPTP

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

### My Internet PPTP Connection Is:

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

**Username:** Enter the username provided by your ISP.

**Password:** Enter the password provided by your ISP.

**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.

### Advanced Settings

**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**.

The screenshot shows the D-Link web interface for configuring the Internet connection. The page title is "Internet". Below the title, there is a globe icon and a paragraph of instructions: "Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, LZTP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." Below this, there is a breadcrumb "Settings >> Internet" and two buttons: "IPv6" and "Save". The main configuration area contains the following fields:

- My Internet Connection is:** A dropdown menu with "PPTP" selected.
- PPTP Server IP Address:** A text input field with the placeholder "IP or Domain name".
- Username:** A text input field.
- Password:** A text input field.
- Reconnect Mode:** A dropdown menu with "On Demand" selected.
- Maximum Idle Time:** A text input field with "5" and "minutes" next to it.

At the bottom right of the configuration area, there is a link for "Advanced Settings ...". The footer of the page reads "COPYRIGHT © 2016 D-Link".

## PPTP (continued)

### Dynamic IP

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

**MTU:** Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

Address Mode:

Primary DNS Server:

Secondary DNS Server:

MTU:

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### Static IP

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

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

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

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

**MTU:** Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

Click **Save** when you are done.

Address Mode:

PPTP IP Address:

PPTP Subnet Mask:

PPTP Gateway IP Address:

Primary DNS Server:

Secondary DNS Server:

MTU:

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## L2TP

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

### My Internet Connection Is: **L2TP**

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

**Username:** Enter the username provided by your ISP.

**Password:** Enter the password provided by your ISP.

**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.

### Advanced Settings

**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**.

The screenshot shows the D-Link web interface for configuring the Internet connection. The page title is "Internet". Below the title, there is a globe icon and a paragraph of instructions: "Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." Below this, there is a breadcrumb "Settings >> Internet" and a "Save" button. The main form has the following fields: "My Internet Connection is:" with a dropdown menu set to "L2TP"; "L2TP Server IP Address:" with a text input field containing "IP or Domain name"; "Username:" with a text input field; "Password:" with a text input field; "Reconnect Mode:" with a dropdown menu set to "On Demand"; and "Maximum Idle Time:" with a text input field containing "5" and "minutes" next to it. There is also an "Advanced Settings ..." link at the bottom right of the form area. The footer of the page says "COPYRIGHT © 2016 D-Link".

## L2TP (continued)

### Dynamic IP

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

**MTU:** Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

Address Mode:

Primary DNS Server:

Secondary DNS Server:

MTU:

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### Static IP

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

**L2TP Subnet Mask:** Enter the subnet mask provided by your ISP.

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

**Primary DNS Server:** Enter the primary DNS server IP address assigned by your ISP.

**Secondary DNS Server:** Enter the secondary DNS server IP address assigned by your ISP.

**MTU:** Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

Address Mode:

L2TP IP Address:

L2TP Subnet Mask:

L2TP Gateway IP Address:

Primary DNS Server:

Secondary DNS Server:

MTU:

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Click **Save** when you are done.

## DS-Lite

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

### My Internet Connection Is: **DS-Lite**

### Advanced Settings

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

### DS-Lite DHCPv6

**B4 IPv6 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.

### Manual

**AFTR IPv6 Address:** Enter the AFTR IPv6 address used here.

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

**WAN IPv6 Address:** Once connected, the WAN IPv6 address is displayed here.

The screenshot shows the D-Link web interface for the Internet configuration page. The breadcrumb trail is 'Settings >> Internet'. The 'My Internet Connection is:' dropdown menu is set to 'DS-Lite'. The 'IPv6' tab is selected, and the 'Save' button is visible. The page title is 'Internet' and it includes a globe icon and a note about connection types.

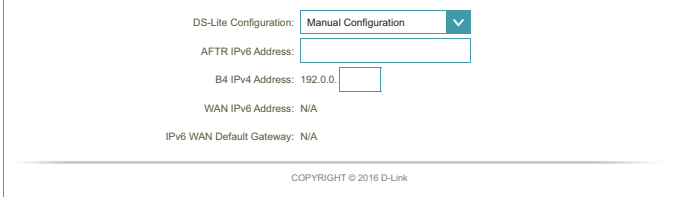
The screenshot shows the DS-Lite Configuration page. The 'DS-Lite Configuration:' dropdown menu is set to 'DS-Lite DHCPv6 Option'. The 'B4 IPv4 Address' field is set to '192.0.0.'. The 'WAN IPv6 Address' and 'IPv6 WAN Default Gateway' fields are both set to 'N/A'.

The screenshot shows the DS-Lite Configuration page. The 'DS-Lite Configuration:' dropdown menu is set to 'Manual Configuration'. The 'AFTR IPv6 Address' field is empty. The 'B4 IPv4 Address' field is set to '192.0.0.'. The 'WAN IPv6 Address' and 'IPv6 WAN Default Gateway' fields are both set to 'N/A'.

## DS-Lite (continued)

**IPv6 WAN Default Gateway:** Once connected, the IPv6 WAN default gateway address is displayed here.

Click **Save** when you are done.



The screenshot shows a configuration page for DS-Lite. At the top, there is a dropdown menu labeled "DS-Lite Configuration:" with "Manual Configuration" selected. Below this are several input fields: "AFTR IPv6 Address:" (empty), "B4 IPv4 Address: 192.0.0." (with a small empty box for the last octet), "WAN IPv6 Address: N/A", and "IPv6 WAN Default Gateway: N/A". At the bottom of the page, there is a copyright notice: "COPYRIGHT © 2016 D-Link".

## VLAN Bridging

The VLAN bridging feature allows advanced users to enable 802.1Q VLAN tagging on the WAN interface. If you have an Ultra Fast Broadband (UFB) fiber optic connection, your ISP may offer High Priority Committed Information Rate (CIR). This guarantees the bandwidth required for real time voice and video applications.

In order to utilize the CIR, you must know the proper 802.1Q VLAN tags that your ISP uses. To enable this functionality, define the VLAN IDs, apply the VLAN to the desired interface, and connect your devices. Additional 802.1p tag configuration options will be available via future firmware update.

### VLAN Bridge

**Internet VLAN ID:** Enter the VLAN ID for Internet traffic.

**IPTV VLAN ID:** Enter the VLAN ID for IPTV traffic.

**VoIP VLAN ID:** Enter the VLAN ID for VoIP traffic.

**WAN Connection:** Select the VLAN to apply to the corresponding interface.

VLAN Bridge	
Internet VLAN ID:	621 (2-4094)
IPTV VLAN ID:	823 (2-4094)
VoIP VLAN ID:	400 (2-4094)
Interface	WAN Connection
LAN Port1	Internet
LAN Port2	Internet
LAN Port3	Internet
LAN Port4	Internet
Wireless	Internet
Wireless Guest Zone	Internet



## IPv6

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

**My Internet Connection Is:** Choose your IPv6 connection type from the drop-down menu. You will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to see additional configuration options.

For **Auto Detection** refer to page **38**.

For **Static IPv6** refer to page **40**.

For **Auto Configuration (SLAAC/DHCPv6)** refer to page **42**.

For **PPPoE** refer to page **44**.

For **IPv6 in IPv4 Tunnel** refer to page **47**.

For **6 to 4** refer to page **50**.

For **6rd** refer to page **52**.

For **Local Connectivity Only** refer to page **54**.

The screenshot displays the IPv6 configuration interface. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'IPv6' with a sub-note: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below the heading is a breadcrumb trail: 'Settings >> Internet >> IPv6'. A 'Save' button is located in the top right corner. The 'My Internet Connection is:' dropdown menu is open, showing the following options: Auto Detection (selected), Static IPv6, Auto Configuration (SLAAC/DHCPv6), PPPoE, IPv6 in IPv4 Tunnel, 6 to 4, 6rd, and Local Connectivity Only. Underneath, the 'IPv6 DNS SETTINGS' section shows 'DNS Type:' set to 'Obtain a DNS server address automatically'. The 'LAN IPv6 ADDRESS SETTINGS' section shows 'LAN IPv6 Address:' and 'LAN IPv6 Link-Local Address: fe80::6e72:20ff:fe3e:3846'. A link for 'Advanced Settings ...' is visible at the bottom right of the settings area. The footer contains 'COPYRIGHT © 2016 D-Link'.

## Auto Detection

Select **Auto Detection** to automatically detect the IPv6 connection method used by your Internet Service Provider (ISP). If Auto Detection fails, you can manually select another IPv6 connection type.

### IPv6 DNS Settings

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

If **Use the following DNS address** is selected:

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

### LAN IPv6 Address Settings

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

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

D-Link  
DIR-883 HW:V1 FW:1.00

Home | Settings | Features | Management

## IPv6

All of your IPv6 Internet and network connection details are displayed on this page.

Settings >> Internet >> IPv6

My Internet Connection is: **Auto Detection**

**IPv6 DNS SETTINGS**

DNS Type: **Obtain a DNS server address automatically**

**IPv6 DNS SETTINGS**

DNS Type: **Use the following DNS address**

Primary DNS Server:

Secondary DNS Server:

**LAN IPv6 ADDRESS SETTINGS**

LAN IPv6 Address:

LAN IPv6 Link-Local Address: fe80::6e72:20ff:fe3e:3846

[Advanced Settings ...](#)

## Auto Detection (continued)

### Advanced Settings - Address Autoconfiguration Settings

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

**Enable Automatic DHCP-PD in LAN:** Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. **Note:** This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

**Router Advertisement Lifetime:** Enter the router address advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Address Range (Start): xxxx::00

IPv6 Address Range (End): xxxx::00

Router Advertisement Lifetime:  minutes

## Static IPv6

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

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

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

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

If **Use Link-Local Address** is disabled these additional parameters are available for configuration:

**IPv6 Address:** Enter the address supplied by your ISP.

**Subnet Prefix Length:** Enter the subnet prefix length supplied by your ISP.

### LAN IPv6 Address Settings

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

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

The screenshot shows the D-Link IPv6 configuration page. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'IPv6' with a sub-heading: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below this, there is a breadcrumb trail 'Settings >> Internet >> IPv6' and a 'Save' button. The configuration options are as follows:

- My Internet Connection is:** Static IPv6 (selected in a dropdown menu)
- Use Link-Local Address:** Enabled (checkbox)
- Default Gateway:** [Empty text box]
- Primary DNS Server:** [Empty text box]
- Secondary DNS Server:** [Empty text box]

Below the main settings, there is a section for 'Use Link-Local Address: Disabled' with the following fields:

- IPv6 Address:** [Empty text box]
- Subnet Prefix Length:** [Empty text box]
- Default Gateway:** [Empty text box]
- Primary DNS Server:** [Empty text box]
- Secondary DNS Server:** [Empty text box]

At the bottom, there is a section titled 'LAN IPv6 ADDRESS SETTINGS' with the following fields:

- LAN IPv6 Address:** [Empty text box] /64
- LAN IPv6 Link-Local Address:** Not Available

An 'Advanced Settings...' link is located at the bottom right of the LAN settings section.

## Static IPv6 (continued)

### Advanced Settings - Address Autoconfiguration Settings

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

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

**Router Advertisement Lifetime:** Enter the router address advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Address Range (Start): xxxx::00

IPv6 Address Range (End): xxxx::00

Router Advertisement Lifetime:  minutes

## Auto Configuration (SLAAC/DHCPv6)

Select **Auto Configuration** if your ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to adjust settings on your side before your router can connect to the IPv6 Internet.

### IPv6 DNS Settings

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

If **Use the following DNS address** is selected:

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

### LAN IPv6 Address Settings

**Enable DHCP-PD:** Enable or disable prefix delegation services.

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

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

D-Link DIR-883 HW:V1 FW:1.00 Home Settings Features Management

### IPv6

All of your IPv6 Internet and network connection details are displayed on this page.

Settings >> Internet >> IPv6 IPv6 Save

My Internet Connection is: Auto Configuration (SLAAC/DHCPv6)

IPv6 DNS SETTINGS

DNS Type: Obtain a DNS server address automatically

IPv6 DNS SETTINGS

DNS Type: Use the following DNS address

Primary DNS Server:

Secondary DNS Server:

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD: Enabled

LAN IPv6 Link-Local Address: Not Available

[Advanced Settings ...](#)

LAN IPv6 ADDRESS SETTINGS

Use Link-Local Address: Disabled

Enable DHCP-PD:  /64

LAN IPv6 Link-Local Address: Not Available

[Advanced Settings ...](#)

## Auto Configuration (SLAAC/DHCPv6) (continued)

### Advanced Settings - Address Autoconfiguration Settings

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

If DHCP-PD is available and enabled in LAN IPv6 Address Settings:

**Enable Automatic DHCP-PD in LAN:** Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. **Note:** This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

**Router Advertisement Lifetime:** Enter the router address advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: SLAAC+RDNSS

IP Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

IP Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): :00  3

IPv6 Address Range (End): :00  16

IP Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): xxxx :00

IPv6 Address Range (End): xxxx :00

Router Advertisement Lifetime:  minutes

## PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet.

**PPPoE Session:** Choose **Share with IPv4** to reuse your IPv4 PPPoE username and password, or **Create a new session**.

If you selected **Share with IPv4** configure the following options:

**Address Mode:** Select **Static IP** if your ISP assigned you an IP address. In most cases, select **Dynamic IP**.

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

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

If you selected **Create a new session**, configure the following options:

**Username:** Enter the username provided by your ISP.

**Password:** Enter the password provided by your ISP.

**Address Mode:** Select **Static IP** if your ISP assigned you an IP address. In most cases, select **Dynamic IP**.

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

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

**Reconnect Mode:** Select either **Always On** or **Manual**.

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

The screenshot displays the D-Link web interface for IPv6 configuration. At the top, there are navigation tabs for Home, Settings, Features, and Management. The main heading is 'IPv6' with a sub-heading: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below this, there is a breadcrumb trail: 'Settings >> Internet >> IPv6'. A 'Save' button is visible on the right. The 'My Internet Connection is:' dropdown is set to 'PPPoE'. There are two main configuration panels. The first panel, titled 'Share with IPv4', has 'PPPoE Session' set to 'Share with IPv4', 'Address Mode' set to 'Dynamic IP', and 'MTU' set to '1492 bytes'. The second panel, titled 'Create a new session', has 'PPPoE Session' set to 'Create a new session', 'Username' and 'Password' fields, 'Address Mode' set to 'Dynamic IP', 'Service Name' field, 'Reconnect Mode' set to 'Always On', and 'MTU' set to '1492 bytes'.



## PPPoE(continued)

### IPv6 DNS Settings

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

If **Use the following DNS address** is selected:

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

### LAN IPv6 Address Settings

**Enable DHCP-PD:** Enable or disable prefix delegation services. This option is only available if you selected **Dynamic IP** for address mode.

**LAN IPv6 Address:** If DHCP-PD is disabled or static address mode is selected, enter the LAN (local) IPv6 address for the router.

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

IPv6 DNS SETTINGS

DNS Type:  ▼

IPv6 DNS SETTINGS

DNS Type:  ▼

Primary DNS Server:

Secondary DNS Server:

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD:  Enabled

LAN IPv6 Link-Local Address: Not Available

[Advanced Settings ...](#)

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD:  Disabled

LAN IPv6 Address:  /64

LAN IPv6 Link-Local Address: Not Available

[Advanced Settings ...](#)

## PPPoE(continued)

### Advanced Settings - Address Autoconfiguration Settings

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

If **DHCP-PD** is available and enabled in LAN IPv6 Address Settings:

**Enable Automatic DHCP-PD in LAN:** Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. **Note:** This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

**Router Advertisement Lifetime:** Enter the router address advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

IPv6 Address Range (Start): xxxx::00

IPv6 Address Range (End): xxxx::00

Router Advertisement Lifetime:  minutes

## IPv6 in IPv4 Tunnel

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

**Remote IPv4 Address:** Enter the IPv4 remote address you will use.

**Remote IPv6 Address:** Enter the IPv6 remote address you will use.

**Local IPv4 Address:** Displays the current local IPv4 address.

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

**Subnet Prefix Length:** Enter the subnet prefix length supplied by your ISP.

### IPv6 DNS Settings

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

If **Use the following DNS address** is selected:

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

The screenshot shows the D-Link web interface for configuring IPv6 settings. The page title is "IPv6" and it includes a navigation menu with "Home", "Settings", "Features", and "Management". The main content area is titled "IPv6" and contains a sub-header "All of your IPv6 Internet and network connection details are displayed on this page." Below this, there is a breadcrumb trail "Settings >> Internet >> IPv6" and a "Save" button. The "My Internet Connection is:" dropdown is set to "IPv6 in IPv4 tunnel". Below this, there are input fields for "Remote IPv4 Address:", "Remote IPv6 Address:", "Local IPv4 Address:" (displaying "Not Available"), "Local IPv6 Address:", and "Subnet Prefix Length:". There are two sections for DNS settings: "IPv6 DNS SETTINGS" with a "DNS Type:" dropdown set to "Obtain a DNS server address automatically", and "IPv6 DNS SETTINGS" with a "DNS Type:" dropdown set to "Use the following DNS address", and input fields for "Primary DNS Server:" and "Secondary DNS Server:".

## IPv6 in IPv4 Tunnel (continued)

### LAN IPv6 Address Settings

**Enable DHCP-PD:** Enable or disable prefix delegation services.

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

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

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD:  Enabled

LAN IPv6 Link-Local Address: Not Available

Advanced Settings ...

LAN IPv6 ADDRESS SETTINGS

Enable DHCP-PD:  Disabled

LAN IPv6 Address:  /64

LAN IPv6 Link-Local Address: Not Available

Advanced Settings ...

### Advanced Settings - Address Autoconfiguration Settings

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

If DHCP-PD is available and enabled in LAN IPv6 Address Settings:

**Enable Automatic DHCP-PD in LAN:** Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. **Note:** This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type:  ▼

IPv6 Address Range (Start): xxxx :00

IPv6 Address Range (End): xxxx :00

Router Advertisement Lifetime:  minutes

**Router Advertisement Lifetime:** Enter the router address advertisement lifetime (in minutes).

## IPv6 in IPv4 Tunnel (continued)

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Enable Automatic DHCP-PD in LAN:  Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): xxxx::00

IPv6 Address Range (End): xxxx::00

Router Advertisement Lifetime:  minutes

## 6to4

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

**6to4 Address:** Displays the 6 to 4 address.

**6to4 Relay:** Enter the 6 to 4 relay supplied by your ISP.

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

### LAN IPv6 Address Settings

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

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

The screenshot shows the D-Link IPv6 configuration interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. Below this, the 'IPv6' section is displayed with a sub-header 'All of your IPv6 Internet and network connection details are displayed on this page.' and a globe icon. The main configuration area includes a breadcrumb trail 'Settings >> Internet >> IPv6' and a 'Save' button. The 'My Internet Connection is:' dropdown is set to '6to4'. Below this, the '6to4 Address' is 'Not Available', the '6to4 Relay' is '192.88.99.1', and both 'Primary DNS Server' and 'Secondary DNS Server' fields are empty. The 'LAN IPv6 ADDRESS SETTINGS' section shows the 'LAN IPv6 Address' as 'FFFF:FFFF:FFFF: [ ] ::1/64' and the 'LAN IPv6 Link-Local Address' as 'Not Available'. An 'Advanced Settings ...' link is located at the bottom right.

## 6to4 (continued)

### Advanced Settings - Address Autoconfiguration Settings

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

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

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

**Router Advertisement Lifetime:** Enter the router address advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Address Range (Start): xxxx::00

IPv6 Address Range (End): xxxx::00

Router Advertisement Lifetime:  minutes

## 6rd

If your ISP uses the 6rd protocol for IPv6 connectivity, configure it using these options.

**Assign IPv6 Prefix:** Currently unsupported.

**Primary DNS Server:** Enter the primary DNS server address.

**Secondary DNS Server:** Enter the secondary DNS server address.

### 6rd Manual Configuration

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

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

If you selected **Manual configuration**, configure the following options:

**6rd IPv6 Prefix:** Enter the 6rd IPv6 prefix and mask length supplied by your ISP.

**WAN IPv4 Address** Displays the router's IPv4 address.

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

### LAN IPv6 Address Settings

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

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



## 6rd (continued)

## Advanced Settings - Address Autoconfiguration Settings

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

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

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

**IPv6 Address Range (Start):** Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

**IPv6 Address Range (End):** Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

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

Click **Save** when you are done.

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Advertisement Lifetime:  minutes

ADDRESS AUTOCONFIGURATION SETTINGS

Enable Automatic IPv6 Address Assignment:  Enabled

Autoconfiguration Type:  ▼

IPv6 Address Range (Start): xxxx::00

IPv6 Address Range (End): xxxx::00

Router Advertisement Lifetime:  minutes

## Local Connectivity Only

**Local Connectivity Only** allows you to set up a local IPv6 connection that does not connect to the Internet.

### Advanced Settings

#### IPv6 ULA Settings

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

If you selected **Enable ULA** and **Disabled Default ULA Prefix:**

**ULA Prefix:** Enter your own ULA prefix.

#### Current IPv6 ULA Settings

**Current ULA Prefix:** Displays the current ULA prefix.

**LAN IPv6 ULA:** Displays the LAN's IPv6 ULA.

Click **Save** when you are done.

# Wireless

From this page you can configure your wireless network settings.

## Smart Connect

**Smart Connect:** When Smart Connect is enabled, the router automatically assigns devices to the ideal wireless network to improve performance.

**Wi-Fi Name (SSID):** Create a name for your wireless network using up to 32 characters.

**Password:** Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the network.

## Advanced Settings

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

**Transmission Power:** Select the desired wireless transmission power.

**Schedule:** Use the drop-down menu to select a schedule to apply. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **76** for more information.

## Wi-Fi Protected Setup

The easiest way to connect your wireless devices to the router is with Wi-Fi Protected Setup (WPS). Using WPS-PIN disabled by default due to security vulnerabilities.

**WPS-PBC Status:** Enable or disable WPS-PBC functionality.

**WPS-PIN Status:** Enable or disable WPS-PIN functionality.

Refer to the next page if you wish to disable Smart Connect or click **Save** when you are done.

The screenshot displays the D-Link router's configuration interface for wireless settings. At the top, the D-Link logo and model information (DIR-883 HW:V1 FW:1.00) are visible, along with navigation tabs for Home, Settings, Features, and Management. The main heading is 'Wireless', with a sub-instruction: 'Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.' Below this, there are buttons for 'Guest Zone' and 'Save'. The 'Smart Connect' section includes a toggle for 'Smart Connect' (set to 'Enabled'), a text input for 'Wi-Fi Name (SSID)' (containing 'Your\_Wi-Fi\_Network'), and a password input (containing 'A\_Str0nG\_P@ssW0rd!%'). An 'Advanced Settings...' link is present. The 'Security Mode' section features three dropdown menus: 'Security Mode' (set to 'WPA/WPA2-Personal'), 'Transmission Power' (set to 'High'), and 'Schedule' (set to 'Always Enable'). The 'Wi-Fi Protected Setup' section at the bottom shows 'WPS-PBC Status' as 'Enabled' and 'WPS-PIN Status' as 'Locked'.

# Wireless - Smart Connect Disabled

If Smart Connect is **Disabled** the following options are available:

## 2.4GHz / Primary 5GHz / Secondary 5GHz

**Status:** Enable or disable the 2.4 GHz and 5 GHz wireless networks.

**Wi-Fi Name (SSID):** Create a name for your wireless network using up to 32 characters.

**Password:** Create a password to use for wireless security.

## Advanced Settings

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

**802.11 Mode (2.4 GHz):** Select the desired wireless networking standards to use. The available options for the 2.4 GHz wireless network are **Mixed 802.11b/g/n**, **Mixed 802.11g/n**, **802.11n only**.

**802.11 Mode (5 GHz):** Select the desired wireless networking standards to use. The available options for the 5 GHz wireless network are **Mixed 802.11a/n/ac**, **Mixed 802.11n/ac**, **802.11ac only**, **Mixed 802.11a/n**, **Mixed 802.11n only**, or **802.11a only**.

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

**Transmission Power:** Select the desired wireless transmission power.

**Channel Width (2.4 GHz):** Select **Auto 20/40** if you are using both 802.11n and non-802.11n devices, or select **20 MHz** if you are not using any 802.11n devices.

**Channel Width (5 GHz):** Select **Auto 20/40/80** if you are using 802.11ac, 802.11n, and 802.11a devices, select **Auto 20/40** if you are using 802.11n and 802.11a devices, or select **20 MHz** if you are only using 802.11a devices.

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### Wireless

Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.

Settings >> Wireless [Guest Zone](#) [Save](#)

**Smart Connect**

Smart Connect:

2.4GHz

Status:

Wi-Fi Name (SSID):

Password:

[Advanced Settings ...](#)

Security Mode:

802.11 Mode:

Wi-Fi Channel:

Transmission Power:

Channel Width:

HT20/40 Coexistence:

Visibility Status:

[Schedule:](#)

Primary 5GHz

Status:

Wi-Fi Name (SSID):

Password:

[Advanced Settings ...](#)

Security Mode:

802.11 Mode:

Wi-Fi Channel:

Transmission Power:

Channel Width:

Visibility Status:

[Schedule:](#)

**HT20/40 Coexistence: (2.4 GHz):** Enable or disable HT20/40 Coexistence.

**Visibility Status:** The default setting is **Visible**. Select **Invisible** if you do not want to broadcast the SSID of your wireless network.

**Schedule:** Use the drop-down menu to select a schedule to apply. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **76** for more information.

## Wi-Fi Protected Setup

The easiest way to connect your wireless devices to the router is with Wi-Fi Protected Setup (WPS). Using WPS-PIN disabled by default due to security vulnerabilities.

**WPS-PBC Status:** Enable or disable WPS-PBC functionality.

**WPS-PIN Status:** Enable or disable WPS-PIN functionality.

Click **Save** when you are done.

**Secondary 5GHz**

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings ...](#)

---

Security Mode:

802.11 Mode:

Wi-Fi Channel:

Transmission Power:

Channel Width:

Visibility Status:

Schedule:

**Wi-Fi Protected Setup**

WPS-PBC Status:  Enabled

WPS-PIN Status:  Locked

## 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. In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link.

If **Smart Connect** is enabled the following options will be available:

### Smart Connect

**Status:** Enable or disable the Guest wireless network.

**Wi-Fi Name (SSID):** Create a name for your wireless network using up to 32 characters.

**Password:** Create a password to use for wireless security.

If **Smart Connect** is disabled the following options will be available:

### 2.4GHz / Primary 5GHz / Secondary 5GHz

**Status:** Enable or disable the 2.4 GHz and 5 GHz wireless networks.

**Wi-Fi Name (SSID):** Create a name for your wireless network using up to 32 characters.

**Password:** Create a password to use for wireless security.

### Home Network Access

**Internet Access Only:** Enabling this option will confine connectivity to the Internet, disallowing guests from accessing other local network devices.

Click **Save** when you are done.

The screenshot displays the D-Link Guest Zone configuration interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Guest Zone', followed by a brief description: 'This page lets you enable and configure a Wi-Fi Guest Zone. Users connected to a Guest Zone cannot communicate or detect devices on your home network unless Internet Access Only is disabled under Home Network Access.' Below this, there is a breadcrumb trail 'Settings >> Wireless >> Guest Zone' and a 'Wi-Fi' button. The configuration is divided into several sections:

- Smart Connect:** Status is 'Enabled'. Wi-Fi Name (SSID) is 'dlink-guest'. Password is 'A\_Str0nG\_P@ssW0rd!%'.
- 2.4GHz:** Status is 'Enabled'. Wi-Fi Name (SSID) is 'dlink-guest'. Password is 'A\_Str0nG\_P@ssW0rd!%'.
- Primary 5GHz:** Status is 'Enabled'. Wi-Fi Name (SSID) is 'dlink-guest'. Password is 'A\_Str0nG\_P@ssW0rd!%'.
- Secondary 5GHz:** Status is 'Enabled'. Wi-Fi Name (SSID) is 'dlink-guest'. Password is 'A\_Str0nG\_P@ssW0rd!%'.
- Home Network Access:** Internet Access Only is 'Enabled'.

# Network

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

## Network Settings

**LAN IP Address:** Enter the IP address of the router. The default IP address is **192.168.0.1**. If you change the IP address, once you click **Save**, you will need to enter the new IP address in your browser to get back into the configuration utility.

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

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

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

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

**D-Link**  
DIR-883 HW:V1 FW:1.00

Home | Settings | Features | Management

## Network

Use this section to configure the network settings for your device. You can enter a name for your device in the management link field, and use the link to access web UI in a web browser. Recommend to change the management link if there are more than one D-Link devices within the network.

Settings >> Network Save

**Network Settings**

LAN IP Address:

Subnet Mask:

Management Link:

Local Domain Name:

Enable DNS Relay:  Enabled Advanced Settings ...

**DHCP Server**

Status:  Enabled

DHCP IP Address Range:  to

DHCP Lease Time:  minutes

Always Broadcast:  Enabled  
(compatibility for some DHCP Clients)

**Advanced Settings**

WAN Port Speed:

UPnP:  Enabled

IPv4 Multicast Streams:  Enabled

IPv6 Multicast Streams:  Enabled

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# Network (continued)

## Advanced Settings - DHCP Server

**Status:** Enable or disable the DHCP server.

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

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

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

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

## Advanced Settings

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

**UPnP:** Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software, and peripherals.

**IPv4 Multicast Stream:** Enable to allow IPv4 multicast traffic to pass through the router from the Internet.

**IPv6 Multicast Stream:** Enable to allow IPv6 multicast traffic to pass through the router from the Internet.

Click **Save** when you are done.

The screenshot shows the D-Link web interface for a DIR-883 router. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Network'. Below it, there is a brief instruction: 'Use this section to configure the network settings for your device. You can enter a name for your device in the management link field, and use the link to access web UI in a web browser. Recommend to change the management link if there are more than one D-Link devices within the network.' A 'Save' button is visible in the top right corner of the settings area.

The 'Network Settings' section includes the following fields:

- LAN IP Address: 192.168.0.1
- Subnet Mask: 255.255.255.0
- Management Link: http://dlinkrouter.local/
- Local Domain Name: (empty field)
- Enable DNS Relay:  Enabled

The 'DHCP Server' section includes the following settings:

- Status:  Enabled
- DHCP IP Address Range: 192.168.0.100 to 192.168.0.199
- DHCP Lease Time: 10080 minutes
- Always Broadcast:  Enabled (compatibility for some DHCP Clients)

The 'Advanced Settings' section includes the following options:

- WAN Port Speed: Auto (dropdown menu)
- UPnP:  Enabled
- IPv4 Streams:  Enabled
- IPv6 Multicast Streams:  Enabled

At the bottom of the page, there is a copyright notice: 'COPYRIGHT © 2016 D-Link'.



# Features

## QoS Engine

This device features an advanced, yet easy-to-use Intelligent Quality of Service (iQoS) Engine. QoS allows you to prioritize Internet traffic to ensure a better web browsing experience in situations where bandwidth is limited or large numbers of devices are in use. The QoS Engine allows you to prioritize Internet traffic by selecting to either **Manage by Application** or **Manage by Device**. The drag and drop interface allows you to arrange which traffic is given higher priority.

When using **Manage by Application**, you can prioritize traffic across all of your devices. For example, you can give streaming media a higher priority than file downloads.

When using **Manage by Devices**, you can create a device hierarchy to give a higher priority to specific devices. For example, you can give a desktop computer a more responsive Internet experience than a tablet or mobile device.

**Management type:** Select either **Manage by Application**, **Manage by Devices**, or **Off**.

**Uplink Speed (Mbps):** This number indicates the maximum upload speed for determining the QoS rules. You may manually input or adjust this number.

**Downlink Speed (Mbps):** This number indicates the maximum download speed for determining the QoS rules. You may manually input or adjust this number.

**Detect Bandwidth:** Click this button to automatically test your Internet connection speed. After the test is complete, the Uplink Speed and Downlink Speed values populate automatically. Alternatively, you may manually set these numbers based on information provided by your ISP.

The following pages provide more detail and usage scenarios to help you improve your Internet experience.

The screenshot shows the D-Link DIR-883 QoS Engine configuration interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'QoS Engine' with a sub-note: 'Connect clients can be assign Internet access priority. Click and drag client cards into open slots.' Below this, there is a breadcrumb trail 'Advanced >> QoS Engine' and a 'Save' button. The 'Management type' dropdown is currently set to 'Off', with options for 'Off', 'Manage by Application', and 'Manage by Devices'. Under the 'Bandwidth' section, 'Uplink Speed (Mbps)' is set to 20 and 'Downlink Speed (Mbps)' is set to 60. A 'Detect Bandwidth' button is located below these fields. The footer of the page reads 'COPYRIGHT © 2016 D-Link'.

## Manage by Application

**Manage by Application** lets you prioritize specific kinds of traffic across all connected devices to optimize your Internet experience. Under Applications, there are six types of traffic cards: Streaming Media, Online Chat & Mail, Games, Web & Social Network, File Transfer & P2P, and Others. If some are off-screen, you can use the arrow icons on either side of the page to scroll through the cards.

**One** application can be assigned **Highest** priority.

**Two** applications can be assigned **High** priority.

**Three** applications can be assigned **Medium** priority.

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

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

For example, if you are experiencing poor quality VoIP phone calls or video chat due to excessive downloads, you can use the configuration displayed to the right to prioritize your calls and chats over other application types.

Be sure to keep your router firmware updated as new application traffic definitions are included.

Click **Save** when you are done.

The screenshot displays the D-Link QoS Engine configuration interface. At the top, the navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'QoS Engine' with a sub-note: 'Connect clients can be assign Internet access priority. Click and drag client cards into open slots.' Below this, the 'Management type' is set to 'Manage by Application'. The 'Bandwidth' section shows 'Uplink Speed (Mbps)' at 20 and 'Downlink Speed (Mbps)' at 60, with a 'Detect Bandwidth' button. The 'Applications' section features a scrollable list of application cards: 'File Transfer & P2P', 'Others', 'Online Chat & Mail' (dragged to the 'Highest' priority slot), 'Streaming Media' (dragged to the 'High' priority slot), 'Games' (dragged to the 'High' priority slot), and 'Web & Social Network' (dragged to the 'Medium' priority slot). A 'Save' button is located in the top right corner of the configuration area.

## Manage by Devices

**Manage by Devices** lets you to prioritize Internet access on your network by device to ensure an optimum Internet experience. Under **Connected Clients** you can see cards which represent each device connected to your router. The arrow icons allow you to see any devices which may be off screen. Refer to **Connected Clients** on page 24 for information on renaming devices.

**One** device can be assigned **Highest** priority.

**Two** devices can be assigned **High** priority.

**Six** devices can be assigned **Medium** priority.

If no devices are explicitly assigned a priority, all devices are all treated with equal priority. If only some devices are assigned priorities, all unassigned devices are treated with the lowest priority.

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

In the example to the right **Your PC** is assigned highest priority, **Your Home Theater PC** and **Your Mobile Phone** are assigned high priority, **Your Server** is assigned medium priority, and the **Excessive Downloader**'s traffic is assigned to the lowest priority queue. In this scenario, the router allocates bandwidth to your **Your PC** first, then **Your Home Theater PC** and **Your Mobile Phone**, and then **Your Server**. Any remaining bandwidth is given to the **Excessive Downloader**.

**Manage by Devices** utilizes the unique MAC address of each device to enforce QoS rules.

Click **Save** when you are done.

The screenshot displays the D-Link DIR-883 QoS Engine configuration interface. At the top, there are navigation tabs for Home, Settings, Features, and Management. The main heading is 'QoS Engine' with a sub-instruction: 'Connect clients can be assign Internet access priority. Click and drag client cards into open slots.' Below this, there's a 'Save' button and a breadcrumb 'Advanced >> QoS Engine'. The 'Management type' is set to 'Manage by Devices'. The 'Bandwidth' section shows 'Uplink Speed (Mbps)' at 20 and 'Downlink Speed (Mbps)' at 60, with a 'Detect Bandwidth' button. The 'Connected Clients' section shows a list of devices: 'Excessive Downloader' (192.168.0.175) in the lowest priority queue, 'Your PC' (D-LINK, 192.168.0.165) in the 'Highest' queue, 'Your Home Theater PC' (Vendor, 192.168.0.155) and 'Your Mobile Phone' (Vendor, 192.168.0.155) in the 'High' queue, and 'Your Server' (Vendor, 192.168.0.155) in the 'Medium' queue. A note says 'Drag the app cards above to the Priority boxes below'. The footer includes 'COPYRIGHT © 2016 D-Link'.

# Firewall Settings

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

**Enable DMZ:** Enable or disable the Demilitarized Zone (DMZ). Enabling DMZ is not recommended.

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

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

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

**IPv6 Simple Security:** Enable or disable IPv6 simple security.

**IPv6 Ingress Filtering:** Enable or disable IPv6 ingress filtering.

**D-Link**  
DIR-883 HWA1 FW:1.00

Home | Settings | **Features** | Management

## Firewall Settings

Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.

Features >> Firewall Settings >> Advanced

[IPv4 Rules](#) | [IPv6 Rules](#) | [Save](#)

Enable DMZ: **Enabled**

DMZ IP Address:  << Computer Name

Enable SPI IPv4: **Disabled**

Enable Anti-spoof Checking: **Disabled**

IPv6 Simple Security: **Disabled**

IPv6 Ingress Filtering: **Disabled**

[Advanced Settings ...](#)

### Application Level Gateway (ALG) Configuration

PPTP: **Enabled**

IPSec (VPN): **Enabled**

RTSP: **Enabled**

SIP: **Enabled**

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# Firewall Settings (continued)

## Advanced Settings - Application Level Gateway (ALG) Configuration

**PPTP:** Allows multiple machines on the LAN to connect to their corporate network using the Point-to-Point Tunneling protocol (PPTP) based VPNs.

**IPSec (VPN):** Allows VPN clients to connect to their corporate IPSec-based network. Some VPN clients support traversal of IPSec through NAT. This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.

**RTSP:** Allows applications that use Real Time Streaming Protocol (RTSP) to receive streaming media from the Internet.

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

Click **Save** when you are done.

The screenshot displays the D-Link Firewall Settings page. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Firewall Settings', with a sub-heading: 'Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.' Below this, there are tabs for 'IPv4 Rules' and 'IPv6 Rules', and a 'Save' button. The 'Advanced' settings section includes:
 

- Enable DMZ:  Enabled
- DMZ IP Address:  << Computer Name
- Enable SPI IPv4:  Disabled
- Enable Anti-spoof Checking:  Disabled
- IPv6 Simple Security:  Disabled
- IPv6 Ingress Filtering:  Disabled

 A link for 'Advanced Settings ...' is visible. The 'Application Level Gateway (ALG) Configuration' section shows:
 

- PPTP:  Enabled
- IPSec (VPN):  Enabled
- RTSP:  Enabled
- SIP:  Enabled

 The footer contains 'COPYRIGHT © 2016 D-Link'.

## IPv4/IPv6 Rules

The IPv4/IPv6 Rules page contains advanced options that let you set rules to restrict IP traffic across your network or from your network to the Internet. To configure IPv4 rules, click **IPv4 Rules** from the Firewall Settings page. To configure IPv6 rules, click **IPv6 Rules** from the Firewall Settings page. To return to the main Firewall Settings page, click **Advanced**.

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

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

### Create New Rule

**Name:** Enter a name for the rule.

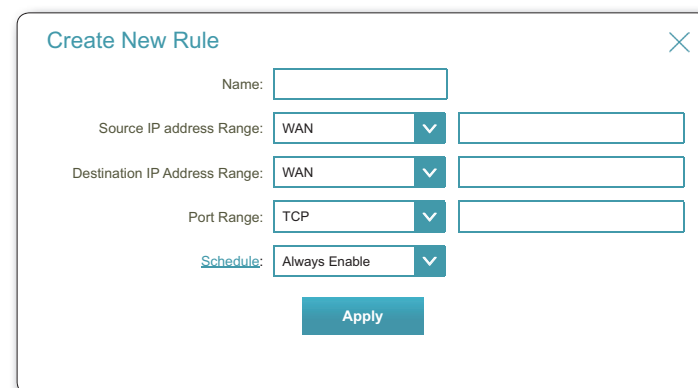
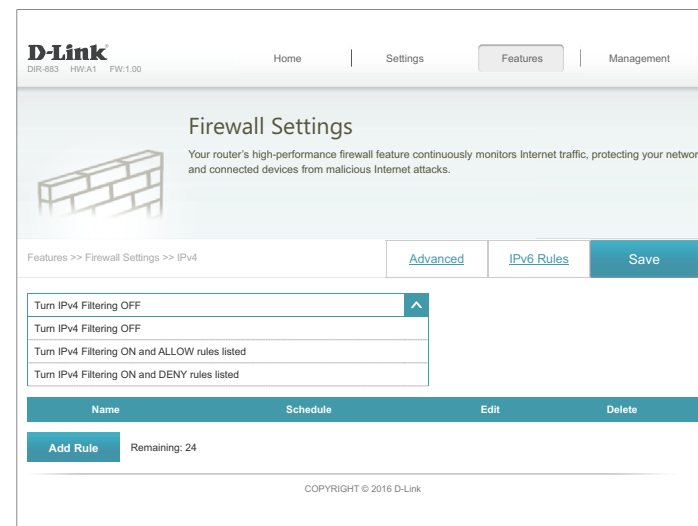
**Source IP Address Range:** Enter the source IP address range that the rule will apply to, and using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

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

**Port Range:** Select the protocol of the traffic to allow or deny (**Any**, **TCP**, or **UDP**) and then enter the range of ports that the rule will apply to.

**Schedule:** Use the drop-down menu to select a schedule to apply. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **76** for more information.

Click **Save** when you are done.



# Port Forwarding

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

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

## Create New Rule

**Name:** Enter a name for the rule.

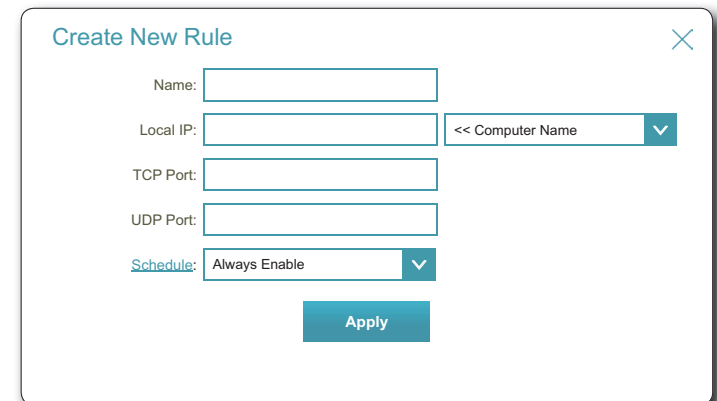
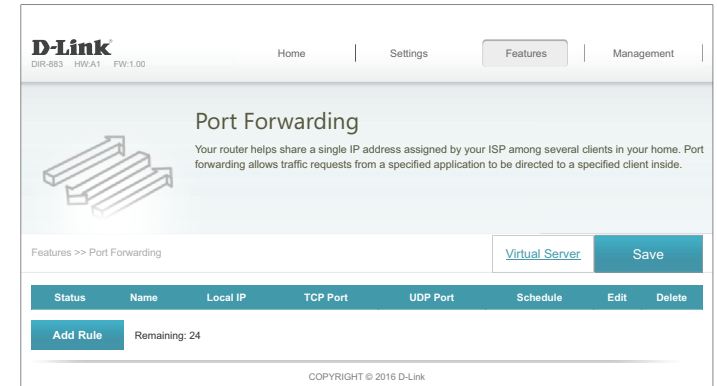
**Local IP:** Enter the IP address of the device on your local network which you wish to forward traffic to. Alternatively, select the device from the drop-down menu.

**TCP Port:** Enter the TCP ports to forward. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).

**UDP Port:** Enter the UDP ports to forward. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).

**Schedule:** Use the drop-down menu to select a schedule to apply. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **76** for more information.

Click **Save** when you are done.



## Virtual Server

In some cases you may have two applications running on different devices which require the same public port. Virtual server allows you to remap a different external port to each device. To configure the virtual server, from the Port Forwarding page click **Virtual Server**. To return to the main Port Forwarding page, click **Port Forwarding**.

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

### Create New User

**Name:** Enter a name for the rule. Alternatively, select the protocol/Application from the drop-down menu.

**Local IP:** Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.

**Protocol:** Select the protocol of the traffic to allow or deny (**TCP**, **UDP**, **Both**, or **Other**).

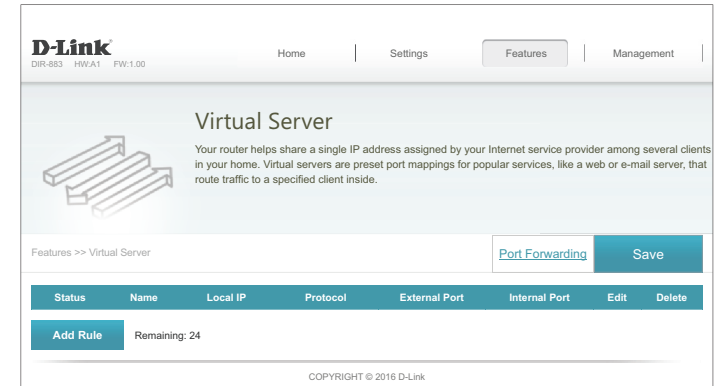
**Protocol Number:** If you entered **Other** above, enter the protocol number.

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

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

**Schedule:** Use the drop-down menu to select a schedule to apply. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **76** for more information.

Click **Save** when you are done.





# Website Filter

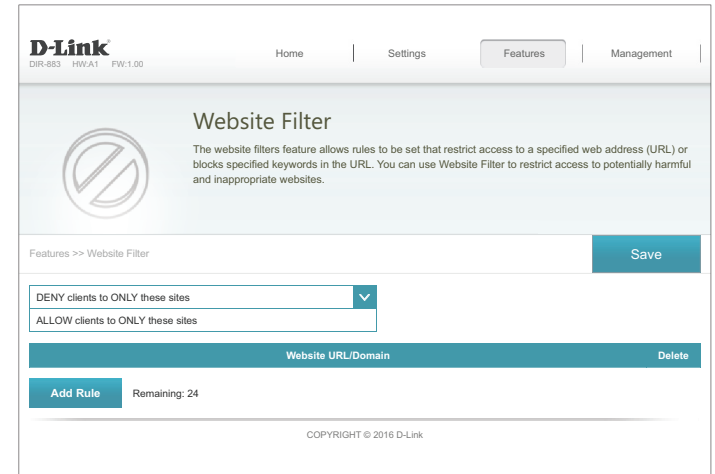
The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

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

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

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

Click **Save** when you are done.



# Static Routes

## IPv4

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

In the Features menu on the bar on the top of the page, click **Static Routes**. To configure IPv6 rules, click **IPv6** and refer to **IPv6** on page **71**. To return to the main IPv4 static routes page, click **IPv4**.

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

### Create New Rule

**Name:** Enter a name for the rule.

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

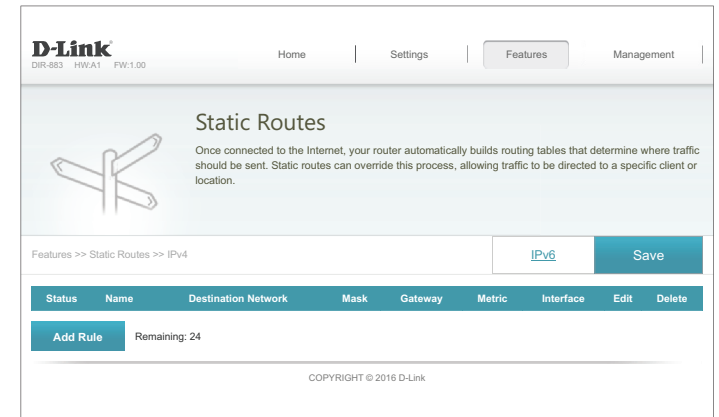
**Mask:** Enter the netmask of the route.

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

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

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

Click **Save** when you are done.



### Create New Route

Name:

Destination Network:

Mask:

Gateway:

Metric:

Interface:

**Apply**

## IPv6

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

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

### Create New Rule

**Name:** Enter a name for the rule.

**DestNetwork:** This is the IP address of the router used to reach the specified destination.

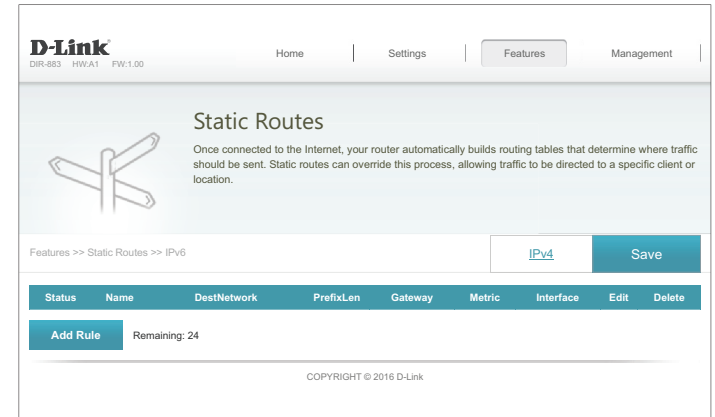
**PrefixLen:** Enter the IPv6 address prefix length of the packets that will take this route.

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

**Metric:** Enter the metric value for this rule here.

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

Click **Save** when you are done.



### Create New Route ✕

Name:

DestNetwork:

PrefixLen:

Gateway:

Metric:

Interface:  ▼

# Dynamic DNS

Most Internet Service Providers (ISPs) assign dynamic (changing) IP addresses. Using a Dynamic Domain Name Server (DDNS) service provider, people can enter your domain name in their web browser to connect to your server no matter what your IP address is. Owners of D-Link routers can use the dlinkdns service. In the Features menu on the bar on the top of the page, click **Dynamic DNS**.

**Enable Dynamic DNS:** Enabling dynamic DNS reveals further configuration options.

If you **Enabled Dynamic DNS**, the following options are available:

**Status:** Displays the current DDNS connection status.

**Server Address:** Enter the address of your DDNS server, or select one from the drop-down menu.

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

**User Name:** Enter your DDNS username.

**Password:** Enter your DDNS password.

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

Click **Save** when you are done.

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to **IPv6 Host** on page **73**.

The screenshot displays the D-Link router's web interface for configuring Dynamic DNS. At the top, the navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The 'Dynamic DNS' section is active, showing a status of 'Enabled'. Below this, the 'Server Address' is set to 'dyndns.com' from a dropdown menu. There are input fields for 'Host Name', 'User Name', and 'Password', and a 'Time Out' field set to '24' hours. A table at the bottom lists existing records with columns for 'Status', 'Host Name', 'IPv6 Address', 'Edit', and 'Delete'. An 'Add Record' button is present, and the page indicates 'Remaining: 10' records. The footer shows 'COPYRIGHT © 2016 D-Link'.

## IPv6 Host

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

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

**D-Link**  
DIR-883 HWA1 FW:1.00

Home | Settings | **Features** | Management

### Dynamic DNS

Dynamic Domain Name Service allows your router to associate an easy-to-remember domain name such as [YourDomainName].com with the regularly changing IP address assigned by your Internet Service provider. This feature is helpful when running a virtual server.

Features >> Dynamic DNS Save

Enable Dynamic DNS: **Enabled**

Status: Disconnected

Server Address:   dyndns.com

Host Name:

User Name:

Password:

Time Out:  hours

Status	Host Name	IPv6 Address	Edit	Delete
<input checked="" type="checkbox"/>	Test	2001::		

Add Record Remaining: 9

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### Create New Record

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

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

Click **Save** when you are done.

### Create New Record

Host Name:

IPv6 Address:  << Computer Name

Apply

# Quick VPN

This page will help you configure the Quick VPN feature of your router. For more information refer to **Quick VPN** on page **83**. Before proceeding, ensure that your Internet connection is working properly. We recommend configuring Dynamic DNS before proceeding with Quick VPN setup. If your router is assigned an IP address from your ISP using DHCP, it may frequently change, requiring clients credentials to be set up again and a simple DDNS address will be easier than an IP address.

Configure the following options:

**L2TP over IPsec:** Enable or disable the Quick VPN server.

If you enable **Quick VPN**, the following options are available:

**Username:** Enter a username between 1 and 15 characters

**Password:** Enter a password between 1 and 15 characters.

**PSK:** Enter a passkey between 6 and 64 characters.

**Save Configuration To Local Hard Drive:** **For Apple iOS devices and OS X:** From a computer browser click this button to export a profile to simplify setup. E-mail this file as an attachment to your Apple mobile device or open the file in OS X.

**Authentication Protocol:** Choose the authentication protocol type: **MSCHAPv2**, **PAP**, or **CHAP**. **MSCHAPv2** is the default.

**MPPE:** Select the encryption cipher strength: **none**, **RC4-40**, or **RC4-128**. **RC4-128** is the default.

Click **Save** when you are done.

**D-Link**  
DIR-883 HWA1 FW:1.00

Home | Settings | **Features** | Management

## Quick VPN

Quickly and easily create a profile for secure remote access to a Local Area Network (LAN). This profile can be used to configure other devices to connect to your LAN via a secure VPN tunnel.

Features >> Quick VPN Save

**General**

L2TP over IPsec:  Enabled

Username:

Password:

PSK:

Save Configuration To Local Hard Drive:

[Advanced Settings ...](#)

**Advanced**

Authentication Protocol:

MPPE:

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# Management Time & Schedule Time

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

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

## Time Configuration

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

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

**Daylight Saving:** Enable or disable daylight saving time.

## Automatic Time Configuration

**Update Time Using an NTP Server:** Enable or disable to allow an NTP server on the Internet to synchronize the time and date with your router. If you enable this option, select an NTP server from the drop-down menu. To configure the router's time and date manually, disable this option and use the drop-down menus that appear to input the time and date.

Click **Save** when you are done.

To configure and manage your schedules, click **Schedule** and refer to **Schedule** on page **76**.

**D-Link**  
DIR-883 HW:V1 FW:1.00

Home | Settings | Features | Management

### Time

Your router's internal clock is used for data logging and schedules for features. The date and time can be synchronized with a public time server on the Internet, or set manually.

Management >> System Time Schedule Save

**Time Configuration**

Time Zone: (GMT-05:00) Eastern Time (US & Canada) ▼

Time: 2016/08/07 07:34:06 PM

Enable Daylight Saving: Disabled

**Automatic Time Configuration**

Update Time Using an NTP Server: Enabled

NTP Server: D-Link NTP Server | D-Link NTP Server ▼

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**Automatic Time Configuration**

Update Time Using an NTP Server: Disabled

**Manual Time Configuration**

Date: 2016 ▼ 08 ▼ 10 ▼ (Year/Month/Day)

Time: 10 ▼ 28 ▼ (Hour/Minute)

## Schedule

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

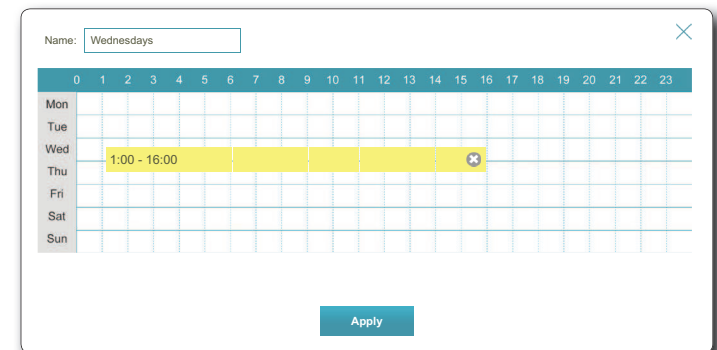
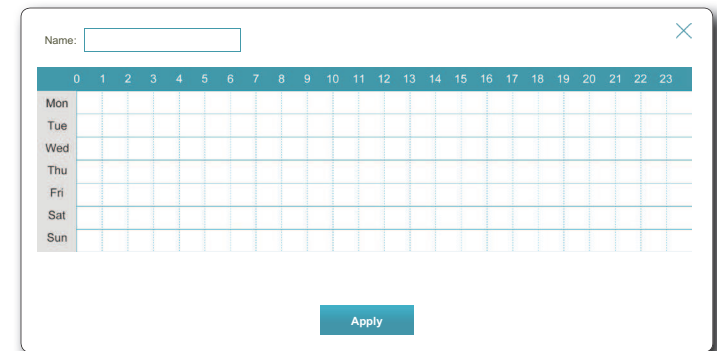
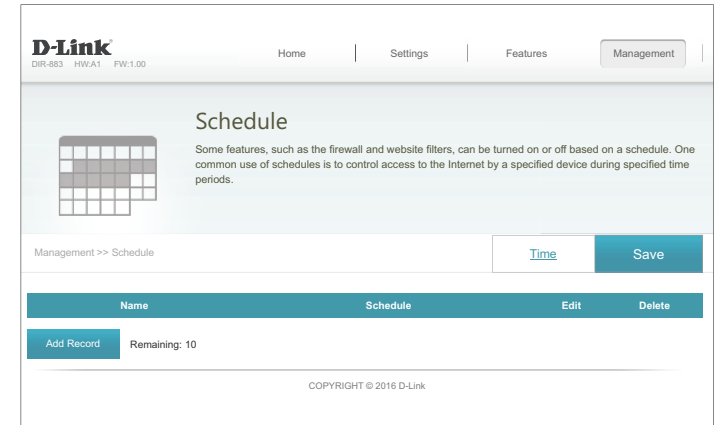
If you wish to create a new rule, click the **Add Rules** button. If you wish to edit a rule, click on the corresponding pencil icon in the Edit column. If you wish to remove a rule, click on the corresponding trash can icon in the Delete column. Click **Save** when you are done. If you edit or create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

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

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

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

Click **Save** when you are done.





# System Log

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

## Log Settings

**System Log:** Click the **Check System Log** button to download a text file containing the system log.

## SysLog Settings

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

If Logging to the Syslog Server is **Enabled**:

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

## Email Settings

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

If Email notification is **Enabled**:

**From E-mail Address:** Enter the email address your SysLog messages will be sent from.

**To E-mail Address:** Enter the email address your SysLog messages will be sent to.

**SMTP Server Address:** Enter your SMTP server address.

The screenshot displays the D-Link System Log configuration interface. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'System Log', with a sub-heading 'On-board diagnostics run continually in the background to monitor the health of your router. The results are recorded in the system log if it is enabled. This info can be used to diagnose common problems or help Customer Support resolve issues more quickly.' Below this, there's a 'Check System Log' button. The 'SysLog Settings' section has 'System Log' set to 'Check System Log'. Under 'SysLog Settings', 'Enable Logging to Syslog Server' is checked (Enabled). The 'SysLog Server IP Address' field is empty, and the dropdown menu is set to '<< Computer Name'. The 'E-mail Settings' section has 'Enable E-mail Notification' checked (Enabled). The 'From E-mail Address', 'To E-mail Address', and 'SMTP Server Address' fields are empty. 'SMTP Server Port' is set to 25. 'Enabled Authentication' is checked (Enabled). The 'Account Name' and 'Password' fields are empty. The 'E-mail Log When Full or On Schedule' section has 'Send When Log Full' and 'Send on Schedule' both checked (Enabled). The 'Schedule' dropdown is set to 'Always Enable'. The footer contains 'COPYRIGHT © 2016 D-Link'.

## System Log (continued)

**SMTP Server Port:** Enter your SMTP server port.

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

**Account Name:** Enter your SMTP account name.

**Password:** Enter your SMTP account's password.

### E-mail Log When Full or On Schedule

**Send On Full:** If enabled, this option will set the router to send the log when it is full.

**Send On Schedule:** If is enabled, this option will set the router to send according to a set schedule.

**Schedule:** If you enable **Send On Schedule**, use the drop-down menu to select a schedule to apply. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **76** for more information.

Click **Save** when you are done.

**D-Link**  
DIR-883 HWA1 FW:1.00

Home | Settings | Features | Management

### System Log

On-board diagnostics run continually in the background to monitor the health of your router. The results are recorded in the system log if it is enabled. This info can be used to diagnose common problems or help Customer Support resolve issues more quickly.

Management >> System Log Save

**SysLog Settings**

System Log: Check System Log

---

**SysLog Settings**

Enable Logging to Syslog Server: Enabled

SysLog Server IP Address:  << Computer Name ▼

---

**E-mail Settings**

Enable E-mail Notification: Enabled

From E-mail Address:

To E-mail Address:

SMTP Server Address:

SMTP Server Port:

Enabled Authentication: Enabled

Account Name:

Password:

---

**E-mail Log When Full or On Schedule**

Send When Log Full: Enabled

Send on Schedule: Enabled

Schedule: Always Enable ▼

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# Admin

This page will allow you to change the administrator (Admin) password and enable remote management. In the Management menu on the bar on the top of the page, click **Admin**. To load, save, reset settings, or reboot the router, click **System** and refer to **System** on page 80.

## Admin Password

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

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

## Advanced Settings - Administration

**Enable HTTPS Server:** Check to enable HTTPS to connect to the router securely. Instead of using **http://dlinkrouter.local./**, you must use **https://dlinkrouter.local./** to connect to your router.

**Enable Remote Management:** Remote management allows the DIR-883 to be configured from the Internet by a web browser. A password is still required to access the web management interface.

**Remote Admin Port:** Enter the port number you wish to use to access the DIR-883's web configuration utility. Example: **http://x.x.x.x:8080** where x.x.x.x is the Internet IP address of the DIR-883 and 8080 is the port used for the web management interface.

**Note:** If you enabled **HTTPS Server** and wish to access the router remotely and securely, you must enter **https://** at the beginning of the address.

Click **Save** when you are done.

The screenshot shows the D-Link DIR-883 Admin interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management' (selected). Below the navigation bar, the page title is 'Admin'. A key icon is shown next to the title. A message states: 'The admin account can change all router settings. To keep your router secure, you should give the admin account a strong password.' Below this, there are two buttons: 'System' and 'Save'. The 'Admin Password' section contains a 'Password:' field with a masked password '\*\*\*\*\*' and an 'Enable Graphical Authentication (CAPTCHA)' checkbox that is currently 'Disabled'. There is a link for 'Advanced Settings ...'. The 'Administration' section contains three settings: 'Enable HTTPS Server' (checked/Enabled), 'Enable Remote Management' (checked/Enabled), and 'Remote Admin Port' (8081) with a 'Use HTTPS' checkbox (checked/Enabled). At the bottom, there is a copyright notice: 'COPYRIGHT © 2016 D-Link'.

# System

This page allows you to save the DIR-883's current configuration, load a previously saved configuration, reset the router to its factory default settings, or reboot the DIR-883.

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

## System

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

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

**Restore To Factory Default Settings:** This option allows you to 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 Settings To Local Hard Drive** button above.

## Auto Reboot Configuration

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

**Auto Reboot:** You may set the DIR-883 to automatically reboot at a set time. The options are **Never**, **Daily**, **Weekly**. You may set the hour using a 24 hour format, the minute, and the day you wish to have the DIR-883 automatically reboot.

Click **Save** when you are done.

# Upgrade

This page allows you to upgrade the DIR-883's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from <http://support.dlink.com>.

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

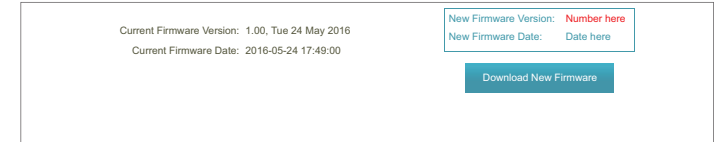
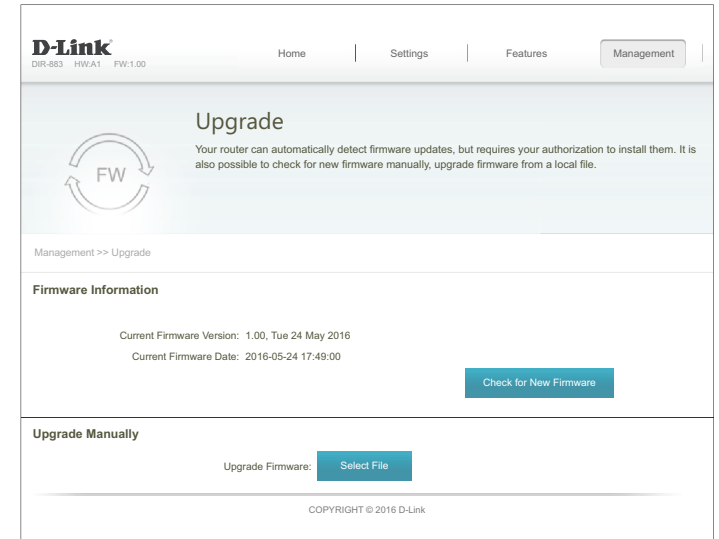
## Firmware

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

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

## Upgrade Manually

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



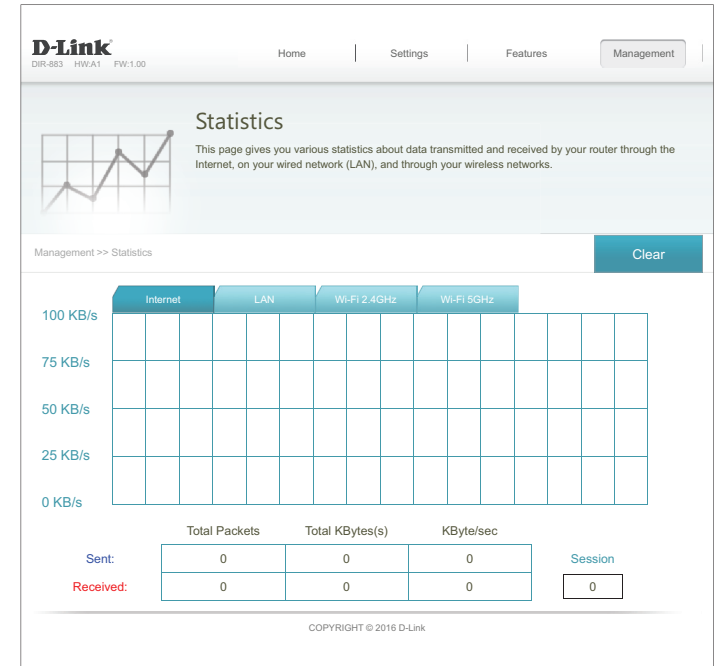
# Statistics

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

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

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

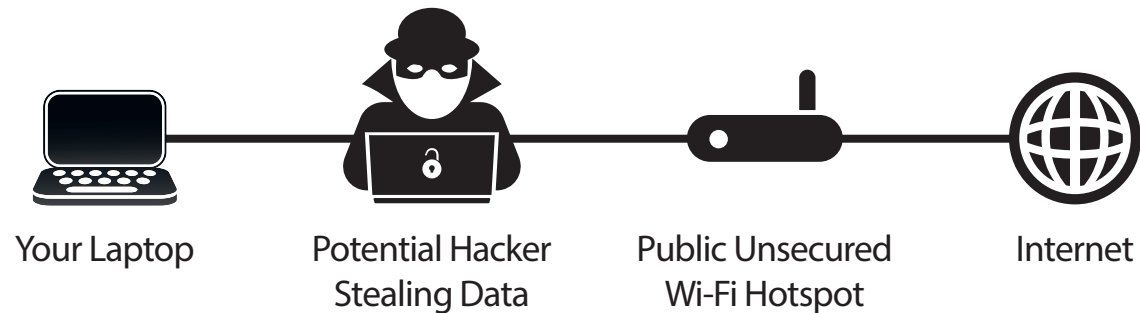
The traffic counter will reset if the device is rebooted.



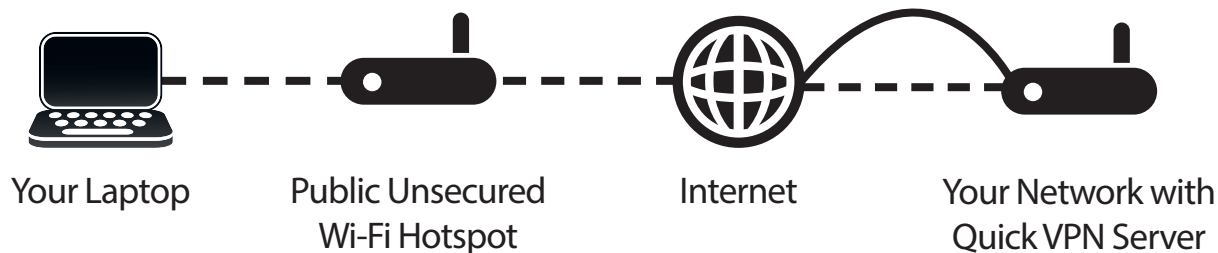
# Quick VPN

This router is equipped with D-Link's Quick VPN technology. Virtual Private Networking (VPN) creates a connection between devices across the Internet. Using Quick VPN allows you to securely connect your computer or mobile device to places with free, untrusted Wi-Fi hotspots in places like coffee shops and hotels by encrypting and relaying it through your home Internet connection. This extra 'hop' reduces the chances of hackers stealing your information, such as logins, passwords, and credit card numbers. When traveling, Quick VPN lets you watch sports and use video streaming services without experiencing blackouts or filtering. You can surf the whole Internet unfiltered and unblocked, just as you would at home.

## Without Quick VPN



## With Quick VPN



————— Unencrypted Data  
- - - - - Encrypted Data

# Important Information

The following instructions explain and help you to configure your D-Link Quick VPN enabled router and devices to create a Virtual Private Network (VPN). This feature is provided for advanced users who wish to connect remotely and use their router's Internet connection to add a layer of security while using untrusted networks. Configure the Quick VPN Server on your router first and then set up client devices to connect through your router's WAN connection.

- Quick VPN only provides an added layer of security against specific types of snooping attacks and does not guarantee complete data integrity or protection. Only traffic in the tunnel between your router and device will be encrypted, WAN traffic will leave your D-Link Quick VPN enabled router unencrypted.
- Keep your Quick VPN Username, Password, and Passkey safe. Keep your Quick VPN Username, Password, and Passkey safe. It is recommended that you change these credentials periodically.
- A device connected via Quick VPN tunnel may experience lower data throughput and higher latency due to a number of factors including: Internet conditions, local and remote network Wi-Fi and WAN bandwidth limitations, and increased latency. This may negatively impact real time voice and video communication.
- Quick VPN supports up to five concurrent VPN client sessions using the same login and password are supported. Quick VPN uses L2TP/IPsec with MSCHAPv2, PAP, or CHAP authentication.
- Your device may warn you that your information may be intercepted, since you control the Quick VPN server, you may ignore this.
- UDP Ports 500, 4500, 1701 and IP Port 50 must be open in order for Quick VPN to work.
- L2TP/IPsec VPN usage may be restricted in some countries and on some networks. If you have trouble using Quick VPN on some networks, but not others and are not violating network access rules, try contacting your ISP or network administrator.
- Devices connected via Quick VPN are assigned addresses on a separate subnet (ex. 192.168.1.x). Some network resources may be unavailable when connecting via Quick VPN.
- If your Internet connection uses DHCP, it is strongly recommended that you first set up Dynamic DNS (DDNS), such as D-Link DDNS, to eliminate the need to reconfigure client devices in the event your ISP assigns you a new WAN IP address.



# Quick VPN Server Setup Instructions

Configure the following options:

**L2TP over IPsec:** Enable or disable the Quick VPN server.

If you enable **Quick VPN**, the following options are available:

**Username:** . Enter a username between 1 and 15 characters

**Password:** Enter a password between 1 and 15 characters.

**PSK:** Enter a passkey between 6 and 64 characters.

**Save Configuration To Local Hard Drive:** **For Apple iOS devices and OS X:** From a computer browser click this button to export a profile to simplify setup. E-mail this file as an attachment to your Apple mobile device or open the file in OS X.

**Authentication Protocol:** Choose the authentication protocol type: **MSCHAPv2**, **PAP**, or **CHAP**. **MSCHAPv2** is the default.

**MPPE:** Select the encryption cipher strength: **none**, **RC4-40**, or **RC4-128**. **RC4-128** is the default.

Click **Save** when you are done.

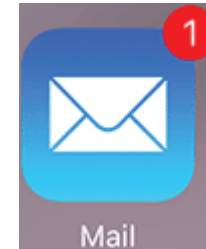
Click **Save** and proceed to client setup pages.

The screenshot shows the D-Link Quick VPN configuration interface. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Quick VPN' with a sub-description: 'Quickly and easily create a profile for secure remote access to a Local Area Network (LAN). This profile can be used to configure other devices to connect to your LAN via a secure VPN tunnel.' Below this is a 'Save' button. The 'General' section includes a toggle for 'L2TP over IPsec' (set to 'Enabled'), and input fields for 'Username' (VPN\_Username), 'Password' (A\_Str0nG\_P@ssW0rd!%), and 'PSK' (A\_Str0nG\_P@ssK3y!%). There is also a 'Save Configuration To Local Hard Drive' button. The 'Advanced' section shows dropdown menus for 'Username' (MSCHAPv2) and 'MPPE' (RC4-128). A copyright notice 'COPYRIGHT © 2016 D-Link' is at the bottom.

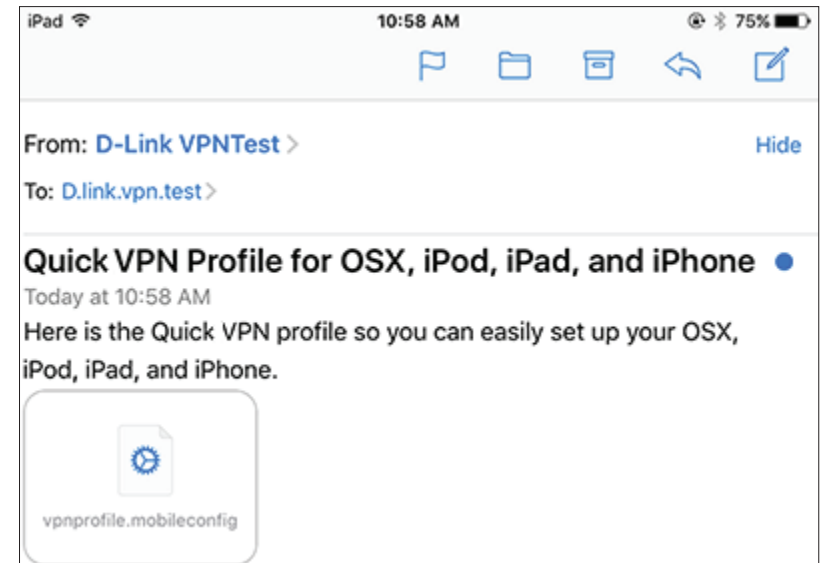
# iOS Devices VPN Setup Instructions

This section provides Quick VPN setup instructions for iOS devices using the **Export Profile** function. Refer to **Quick VPN Server Setup Instructions** on page 85 for more information.

Open the e-mail containing your Quick VPN profile.

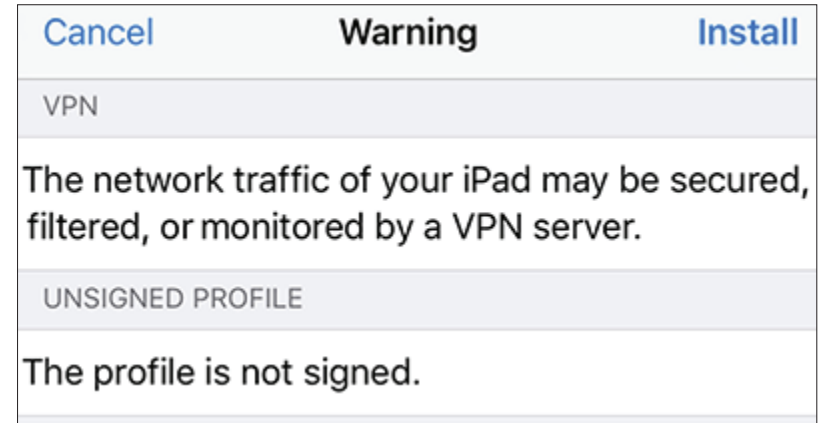


Open the attachment.

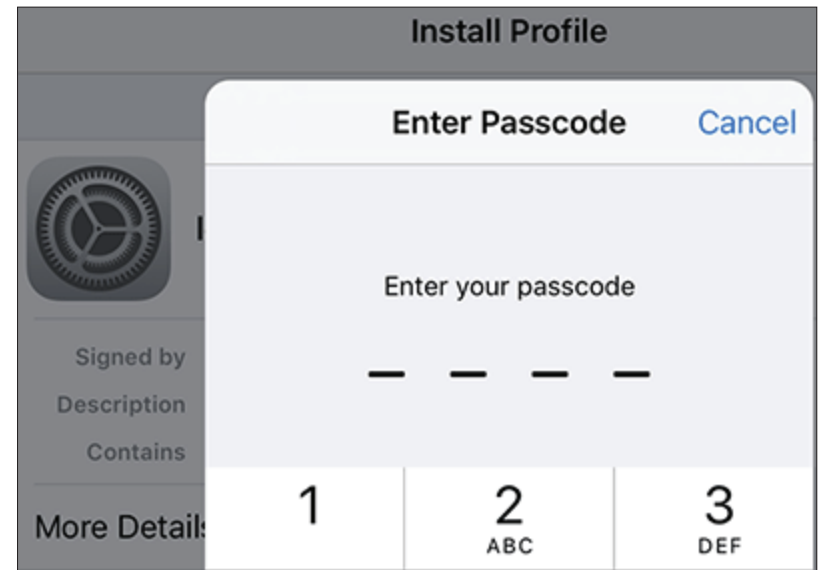


## VPN Setup Instructions (Continued)

The Install Profile dialog will appear, tap **Install** in the upper right hand corner of your screen.

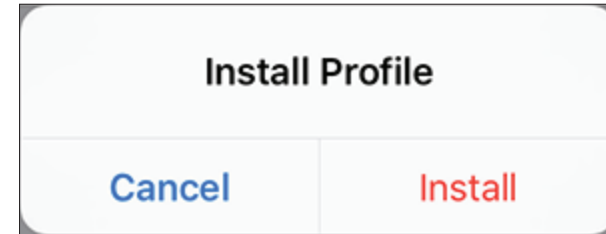


Enter your device's passcode when prompted.

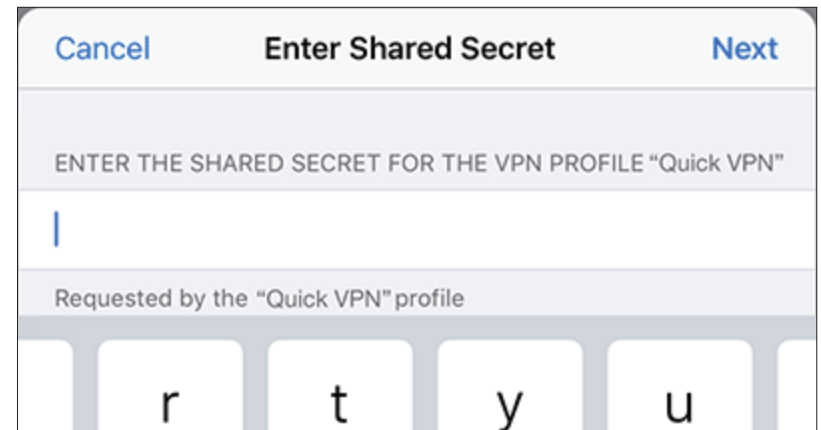


## VPN Setup Instructions (Continued)

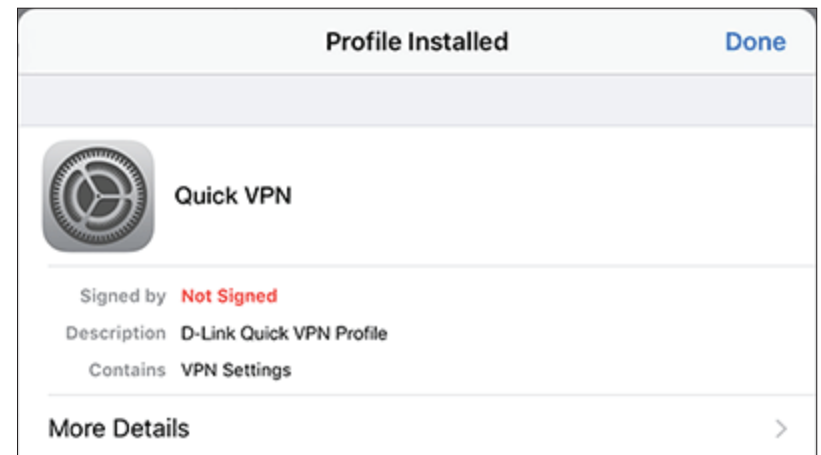
Acknowledge the disclaimer by tapping **Install** in the upper right hand corner. Tap the red **Install** button.



Enter the Shared Secret (**PSK**) from the Quick VPN configuration page. Tap **Done**.

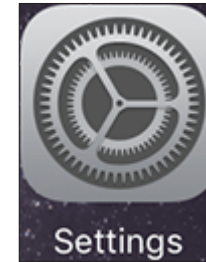


Your iOS device is now configured to connect to your Quick VPN server.

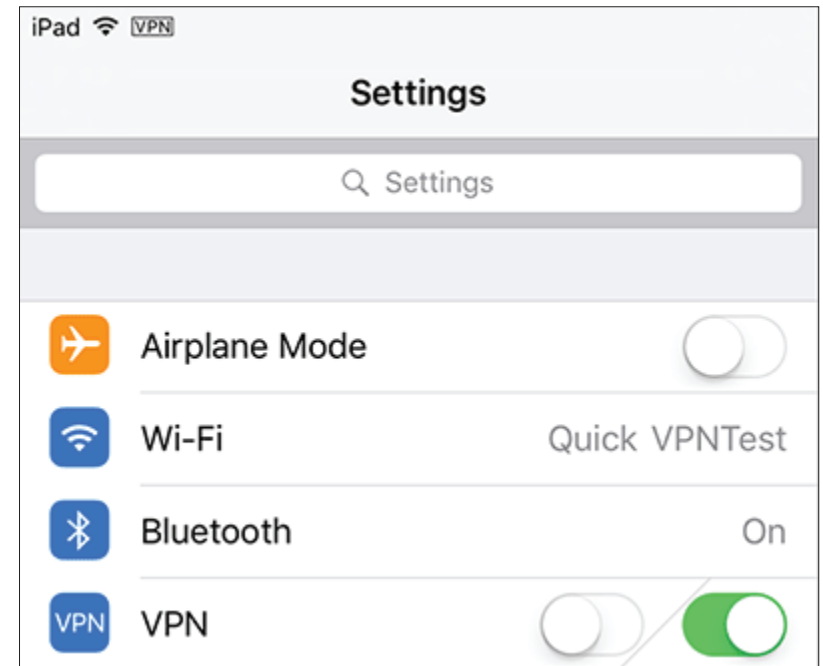


## Connect or Disconnect

To connect or disconnect from to your Quick VPN server, open **Settings** and tap the button next to **VPN**.



The VPN icon will appear in the notification area at the top of your screen indicating that your device is currently connected to the Quick VPN server.



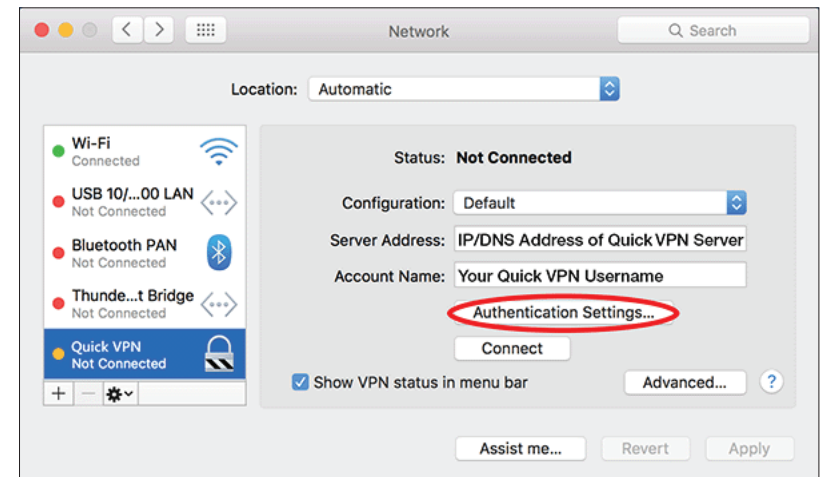
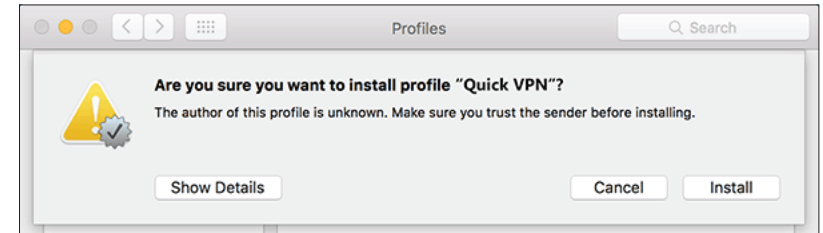
# Mac OS X VPN Setup Instructions

This section provides Quick VPN setup instructions for OS X using the **Export** Profile function. Refer to Quick VPN Server Setup Instructions on page 85 for more information.

Open the exported profile. The Install Profile dialog will appear; click **Continue** and **Install**.

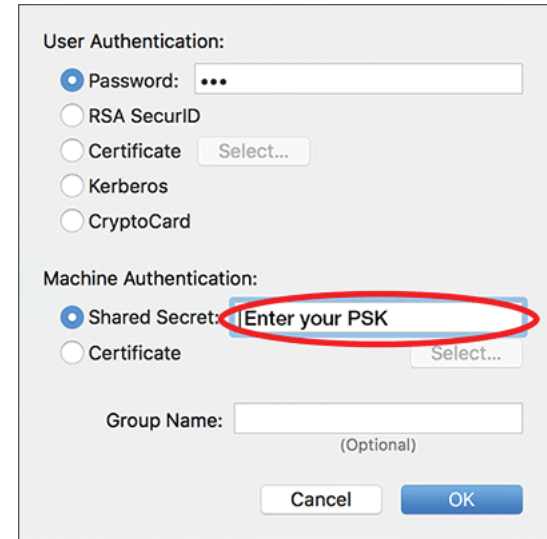
Enter your user account password when prompted. Close the **Profiles** dialog.

Go to  > **System Preferences...** > **Network** and select the Quick VPN connection and click **Authentication Settings**.



## VPN Setup Instructions (Continued)


Enter your **Passkey** in the **Shared Secret** text box and click **OK, Apply**, then **OK**.



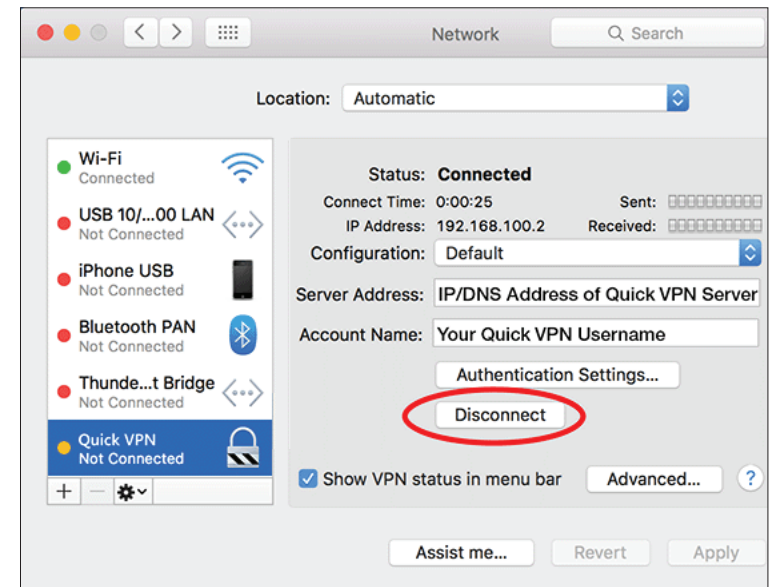
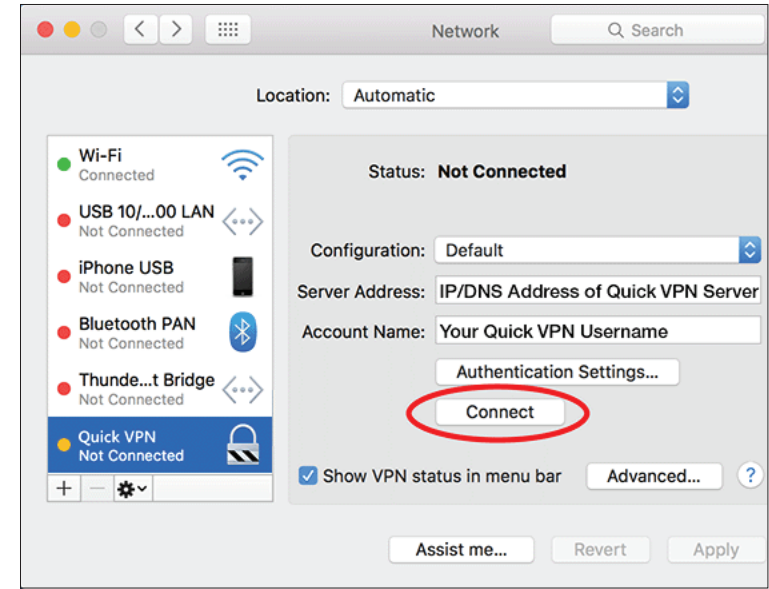
The screenshot shows a configuration window for VPN authentication. It is divided into two sections: 'User Authentication' and 'Machine Authentication'. Under 'User Authentication', there are five radio button options: 'Password' (selected), 'RSA SecurID', 'Certificate' (with a 'Select...' button), 'Kerberos', and 'CryptoCard'. Under 'Machine Authentication', there are two radio button options: 'Shared Secret' (selected) and 'Certificate' (with a 'Select...' button). The text 'Enter your PSK' is entered into the text box next to the 'Shared Secret' radio button, and this text box is circled in red. Below these sections is a 'Group Name' text box with '(Optional)' written below it. At the bottom right, there are two buttons: 'Cancel' and 'OK'.

Your Mac is now configured to connect to your Quick VPN server.

## Connect or Disconnect

To connect to or disconnect from your Quick VPN server, go to  > **System Preferences...** > **Network**.

Select the Quick VPN connection and click on the **Connect** or **Disconnect** button.

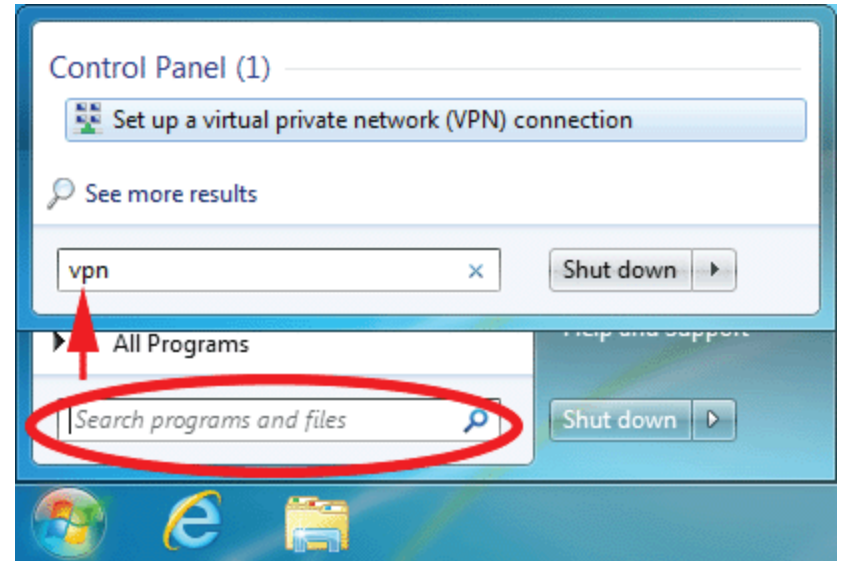




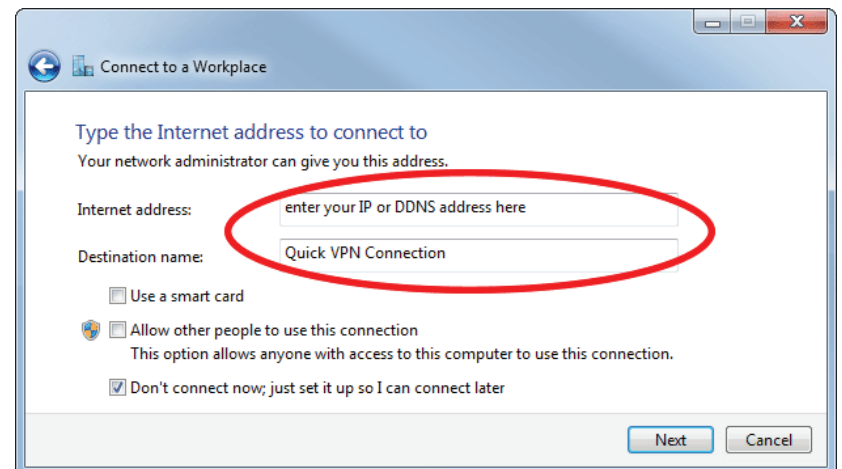
# Windows 7 VPN Setup Instructions

Click the **Start** button and type **vpn** into the **Search programs and files** box.

Select **Set up a virtual private network (VPN) connection**.

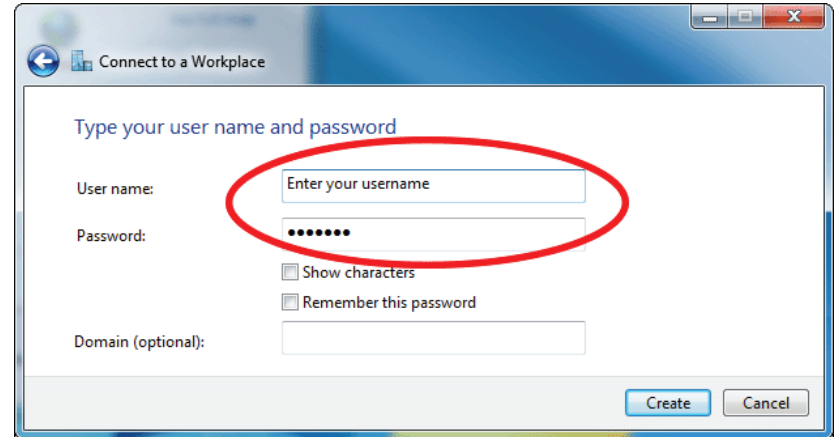


Enter the **IP/DDNS address** of your Quick VPN server in the **Internet address** box, create a name for your connection in the **Destination Name**, check **Don't Connect now; just set it up so I can connect later**, and click **Next**.



## VPN Setup Instructions (Continued)

Enter your **Username**. If you would like windows to save your password, enter your **Password** and check **Remember this password**. Click **Create** to continue.



Connect to a Workplace

Type your user name and password

User name:

Password:

Show characters

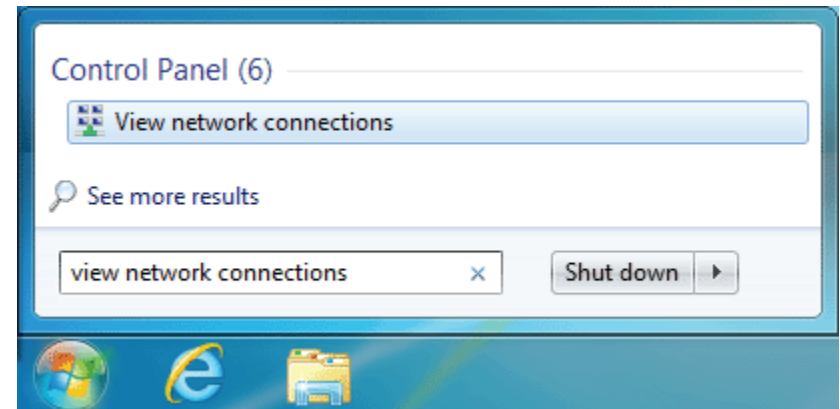
Remember this password

Domain (optional):

Create Cancel

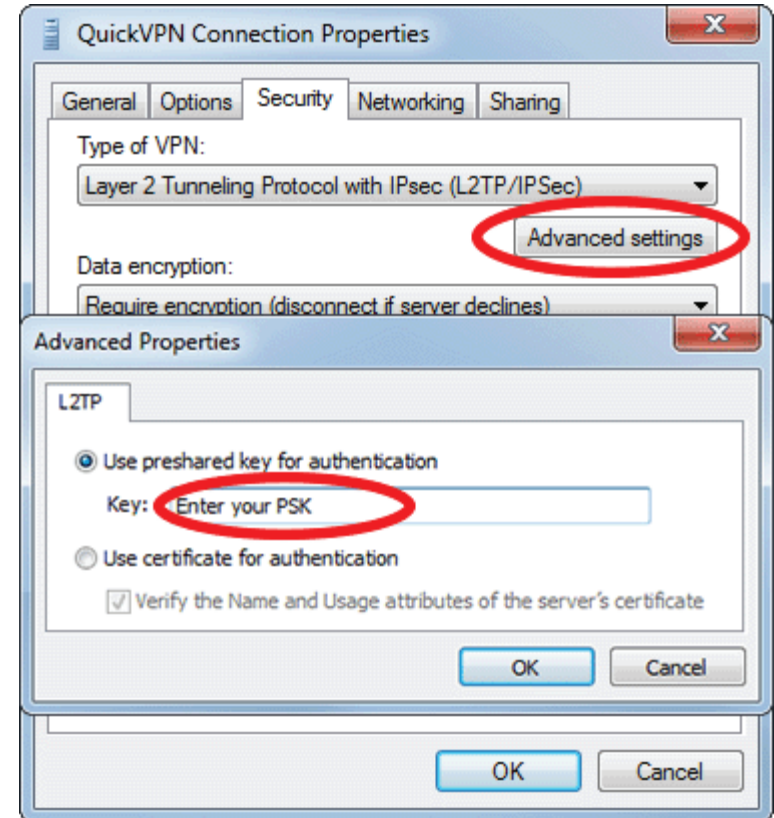
Do not click **Connect Now**.

Click **Close**. Click the **Start** button and type **view network connections** into the **Search programs and files** text box. Select **View network connections**.



## VPN Setup Instructions (Continued)

Click **Advanced settings**. Enter your **Passkey** in the **Key** text box under **Use preshared key for authentication**. Click **OK** to close **Advanced Properties** and click **OK** to close **Quick VPN Connection Properties**.



Your Windows 7 system is now configured to connect to your Quick VPN server.

## Connect or Disconnect

To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar and from the **Dial Up and VPN** section click on your Quick VPN connection and click on the **Connect** or **Disconnect** button.

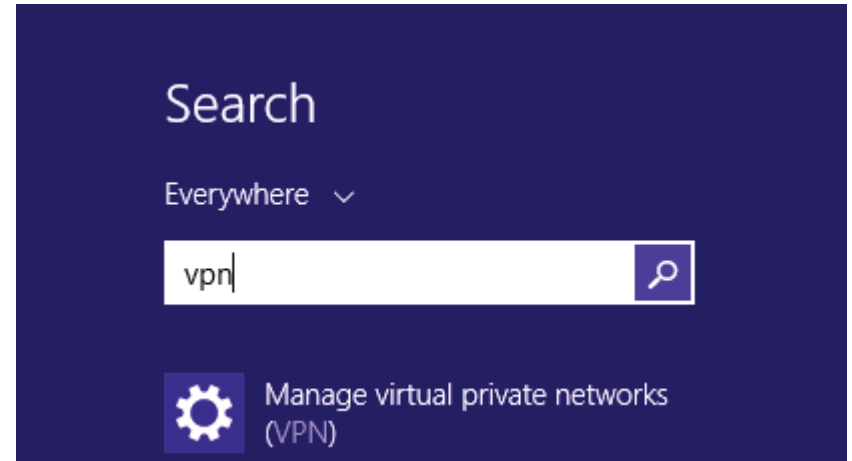


# Windows 8.1/8 VPN Setup Instructions

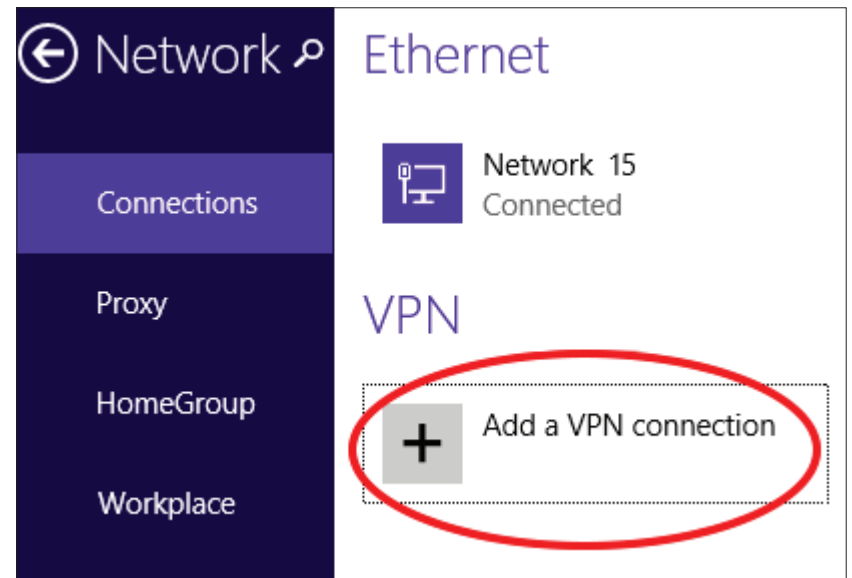
This section provides Quick VPN setup instructions for Windows 8.1/8

Click the **Start** button and type **vpn**.

Select **Manage virtual private networks**.



From the Network Settings page, click **Add a VPN Connection**.



## Add a VPN Connection

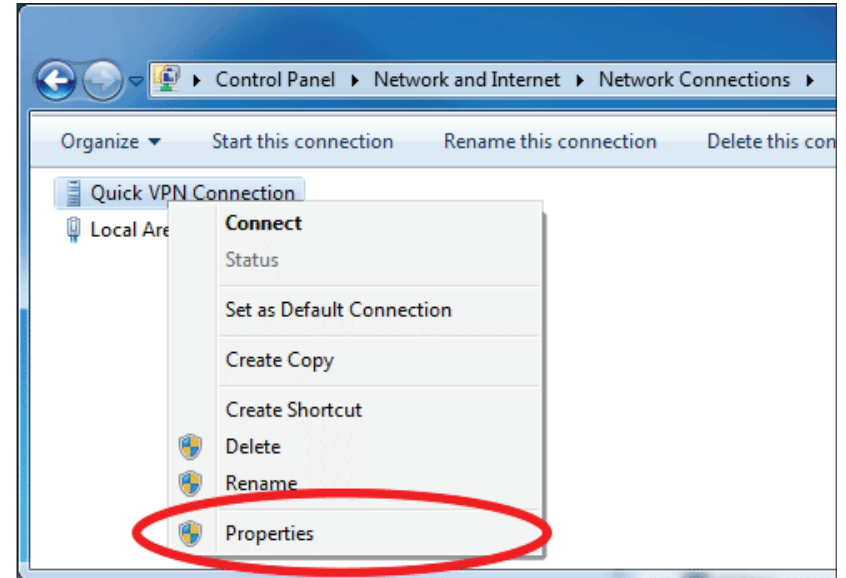
- 1 Select **Microsoft** from **VPN Provider**.
- 2 Create a name for your VPN connection.
- 3 Enter your **IP/DDNS address** of your Quick VPN server.
- 4 Select **User name and password** from **Type of sign-in info**.
- 5 If you would like windows to remember your sign-in information, enter your **User name, Password**, and select **Remember my sign-in info**
- 6 Choose **Save**.

The screenshot shows the 'Add a VPN connection' dialog box with the following fields and options:

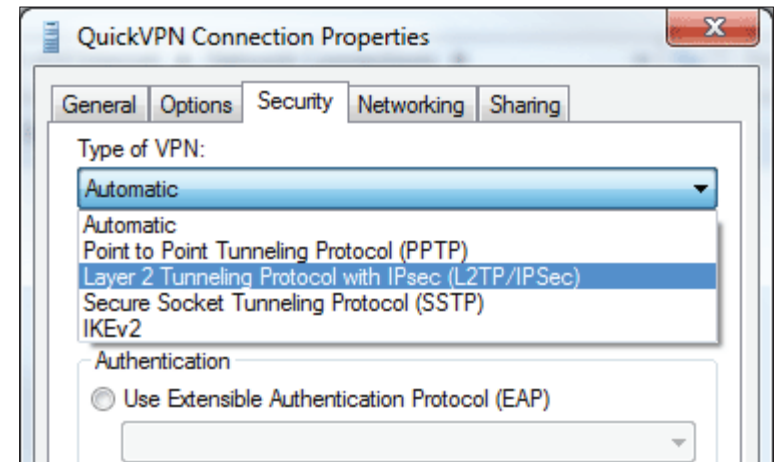
- 1** VPN provider: Microsoft (dropdown menu)
- 2** Connection name: Quick VPN (text input)
- 3** Server name or address: IP/DDNS Address of Quick VPN Server (text input)
- 4** Type of sign-in info: User name and password (dropdown menu)
- 5** User name (optional): Username (text input)
- 5** Password (optional): [masked with dots] (password input with eye icon)
- Remember my sign-in info (checkbox)
- 6** Save (button) and Cancel (button)

## VPN Setup Instructions (Continued)

Right-click on the Quick VPN Connection you just created and left-click on **Properties**.



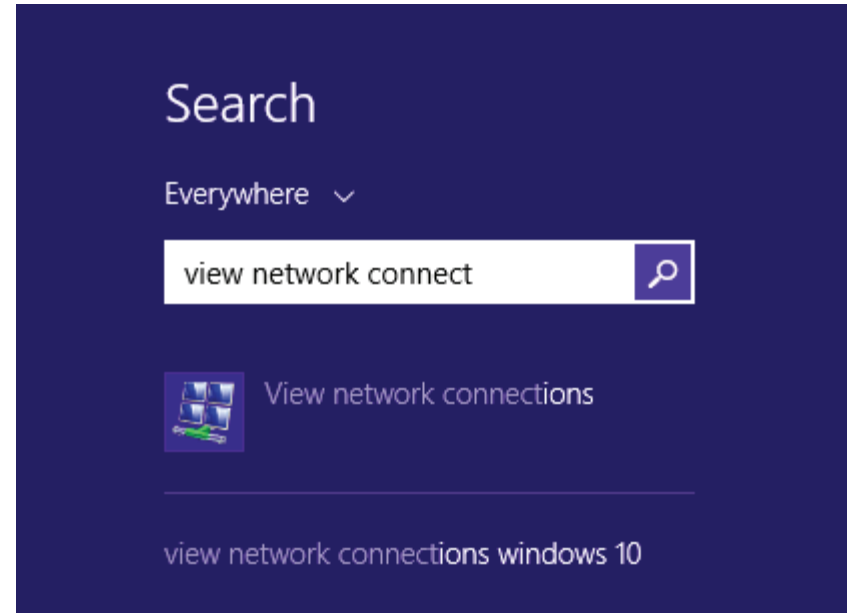
Select the **Security** tab. For the **Type of VPN**, select **Layer 2 Tunneling with IPsec (L2TP/IPSec)**.



## VPN Setup Instructions (Continued)

Click the **Start** button and type **view network connections**.

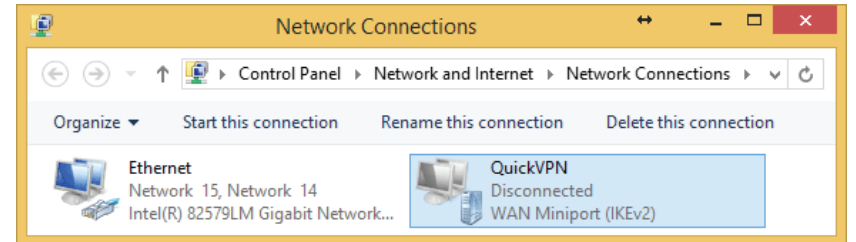
Select **View network connections**.



Right-click your **Quick VPN Connection** and left-click **Properties**.

Select the **Security** tab.

For the **Type of VPN**, select **Layer 2 Tunneling with IPsec (L2TP/IPSec)**.

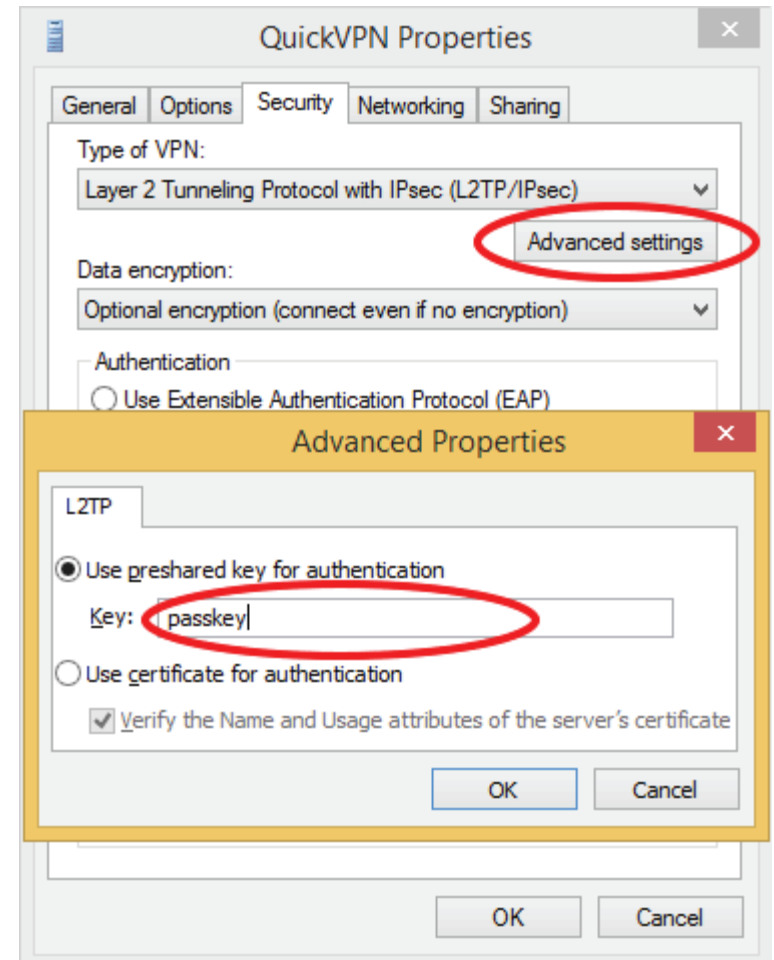




## VPN Setup Instructions (Continued)

Click **Advanced settings**. Enter your **Passkey** in the **Key** text box under **Use preshared key for authentication**.

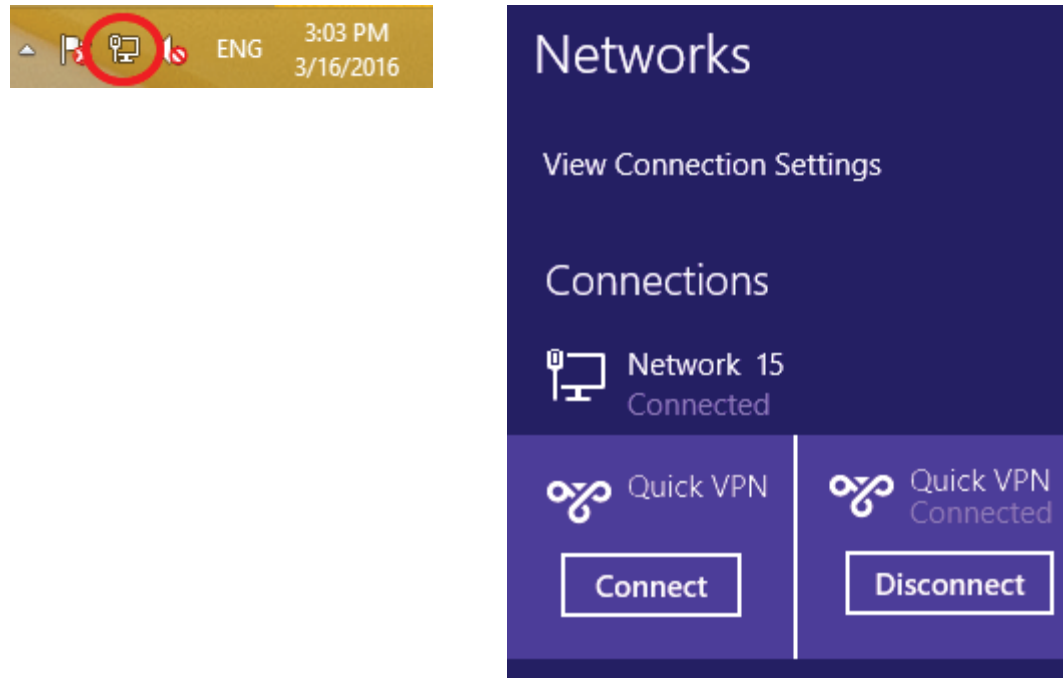
Click **OK** to close **Advanced Properties** and click **OK** to close **Quick VPN Properties**.



Your Windows 8.1/8 system is now configured to connect to your QuickVPN server.

## Connect or Disconnect

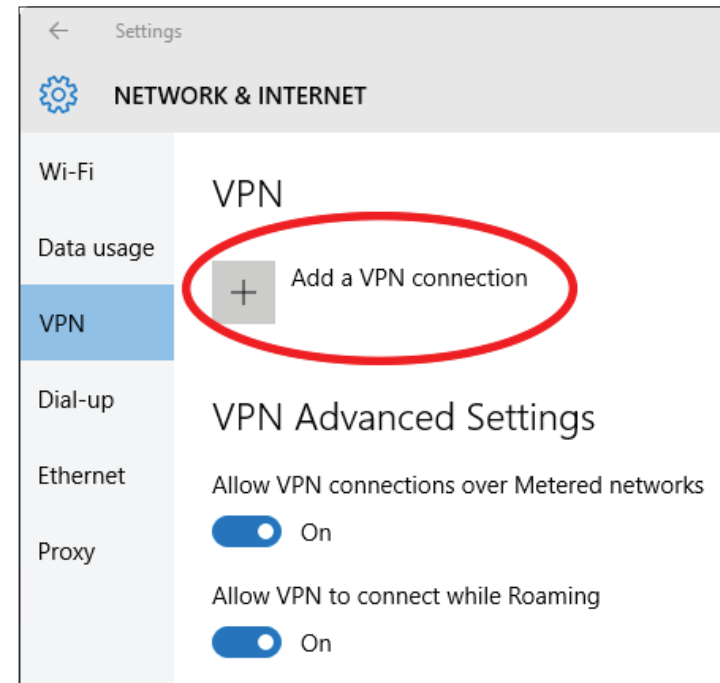
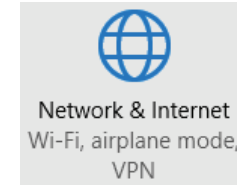
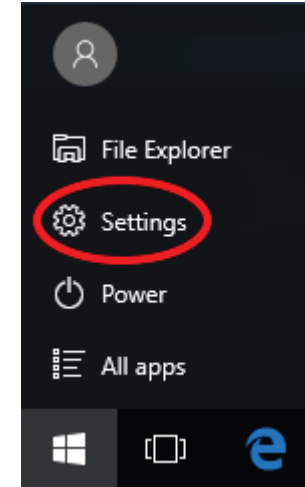
To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar. Click on your Quick VPN connection and click on the **Connect** or **Disconnect** button.



# Windows 10 VPN Setup Instructions

This section provides Quick VPN setup instructions for Windows 10.

Click **Start > Settings > Network & Internet > Network and Sharing Center > VPN > Add a VPN Connection.**



## Add a VPN Connection

- 1 Select **Windows (built-in)** from the **VPN Provider** drop down menu.
- 2 Create a name for your VPN connection.
- 3 Enter your **IP/DDNS address** of your Quick VPN server.
- 4 Select **L2TP/IPSec with pre-shared key** from **VPN type**.
- 5 Enter the **Passkey**.
- 6 Select **User name and password** from **Type of sign-in info**.

If you would like windows to remember your sign-in information, enter your **User name, Password**, and select **Remember my sign-in info**

- 7 Choose **Save**.

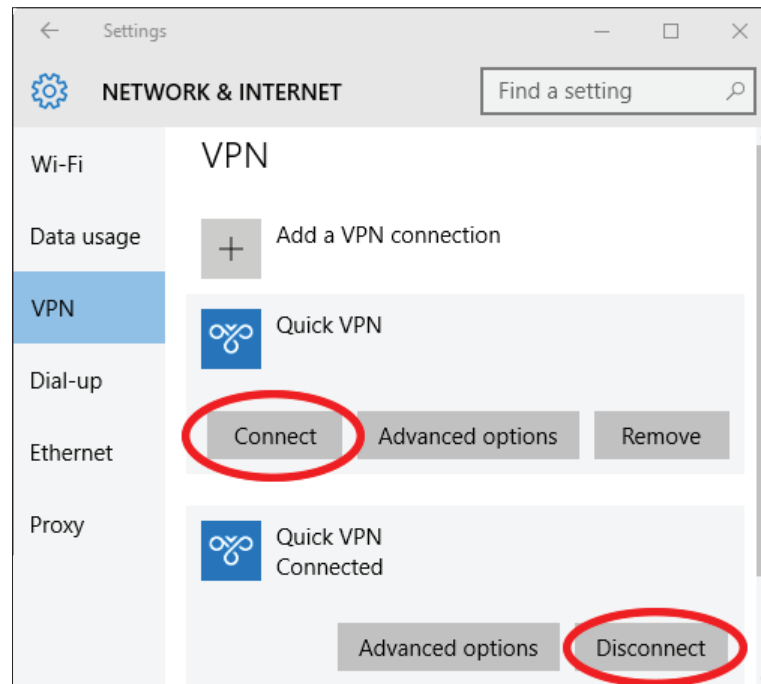
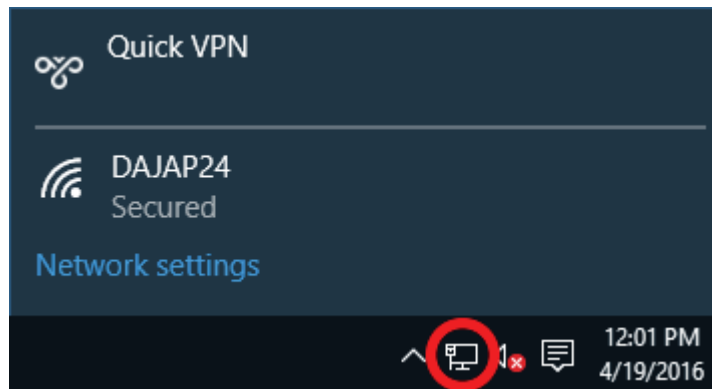
Your Windows 10 system is now configured to connect to your Quick VPN server.

The screenshot shows the 'Add a VPN connection' dialog box in Windows. It has a blue background and white text. The fields are as follows:

- VPN provider:** A dropdown menu with 'Windows (built-in)' selected. Callout 1 points to this dropdown.
- Connection name:** A text box containing 'Quick VPN'. Callout 2 points to this text box.
- Server name or address:** A text box containing 'IP/DDNS Address of Quick VPN Server'. Callout 3 points to this text box.
- VPN type:** A dropdown menu with 'L2TP/IPsec with pre-shared key' selected. Callout 4 points to this dropdown.
- Pre-shared key:** A text box containing 'Passkey'. Callout 5 points to this text box.
- Type of sign-in info:** A dropdown menu with 'User name and password' selected. Callout 6 points to this dropdown.
- User name (optional):** A text box containing 'Username'.
- Password (optional):** A text box with masked characters (dots).
- Remember my sign-in info:** A checked checkbox.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right. Callout 7 points to the 'Save' button.

## Connect or Disconnect

To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar and click on your Quick VPN connection. The **Network & Internet** Settings page will open. Click on the **Connect** or **Disconnect** button.

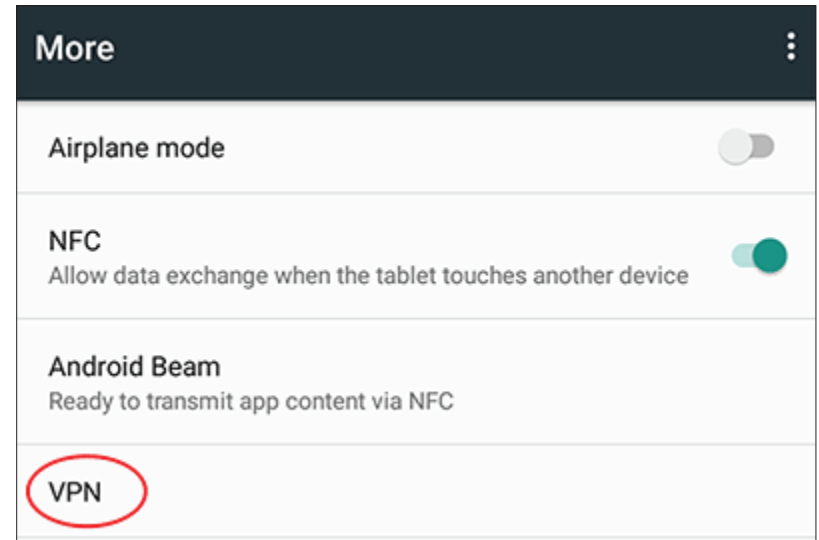
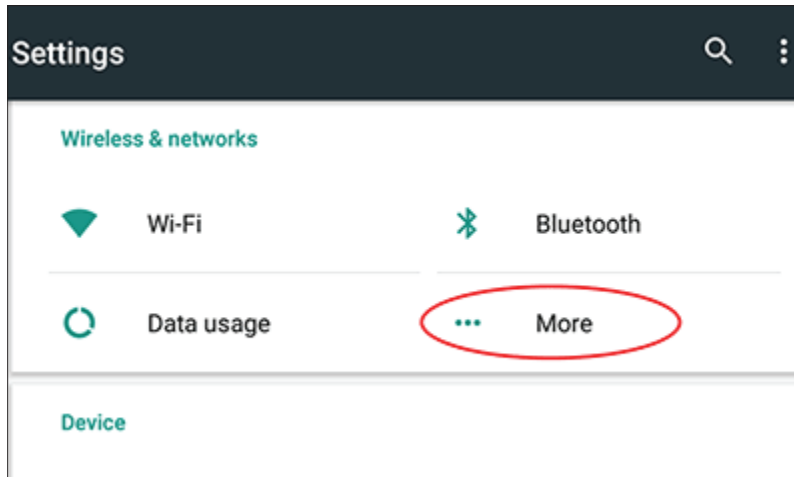


# Android

## VPN Setup Instructions

This section provides Quick VPN setup instructions for Android devices. Your device's screens may vary.

Go to **Settings** > **More** from the **Wireless & networks** > **VPN** > +



## Edit VPN Profile

- 1 Enter a name for your VPN connection.
- 2 Select **L2TP/IPSec PSK** for **Type**.
- 3 Enter the **IP/DDNS address** of your Quick VPN server.
- 4 Enter your **Passkey** in **IPSec pre-shared key** field.
- 5 Choose **Save**.

Your Android device is now configured to connect to your Quick VPN server.

**VPN**

### Edit VPN profile

Name

1 Quick VPN

Type

2 L2TP/IPSec PSK

Server address

3 Quick VPN IP/DDNS address

L2TP secret

(not used)

IPSec identifier

(not used)

IPSec pre-shared key

4 .....

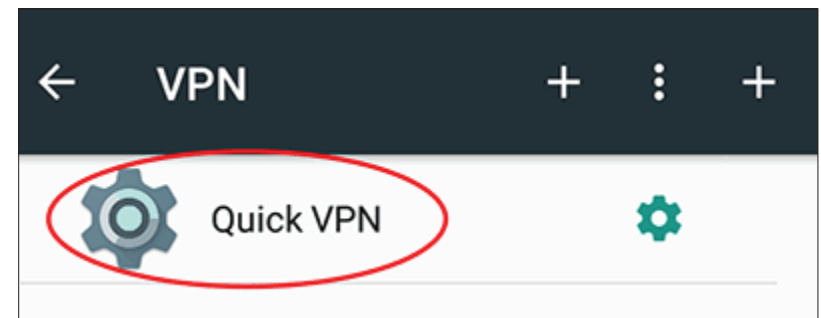
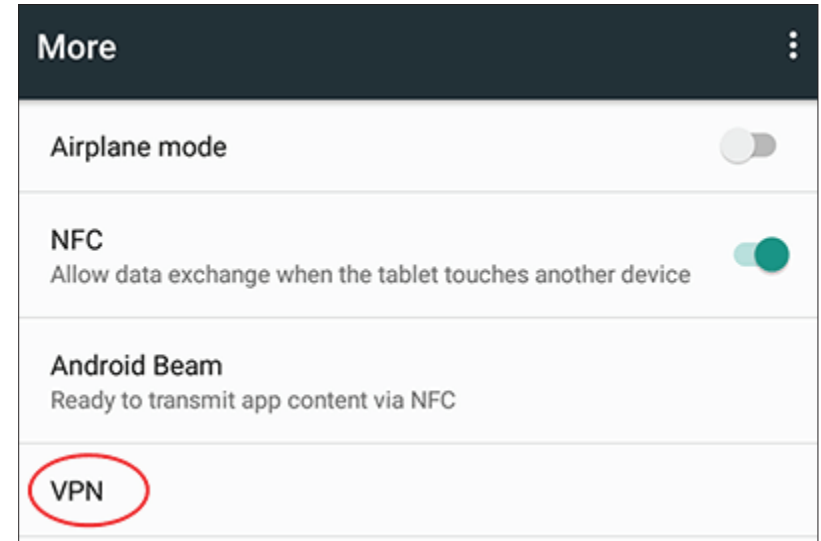
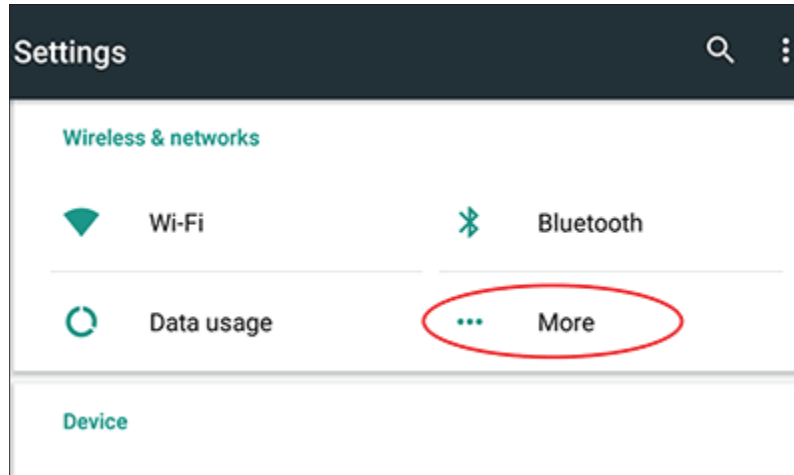
Show advanced options

5

CANCEL SAVE

## Connect or Disconnect

To connect to or disconnect from your Quick VPN server, go to **Settings** > **More** from the **Wireless & networks** > **VPN** and select the **Quick VPN** connection you created.





## Connect or Disconnect (Continued)

To connect, enter your **Username** and **Password** and select **CONNECT**.

**Connect to Quick VPN**

Username  
Your Quick VPN Username

---

Password  
.....

---

Save account information

**CANCEL**   **CONNECT**

To disconnect, select **DISCONNECT**.

**VPN is connected**

Session: **Quick VPN**  
Duration: **00:00:09**  
Sent: **97 bytes / 5 packets**  
Received: **64 bytes / 4 packets**

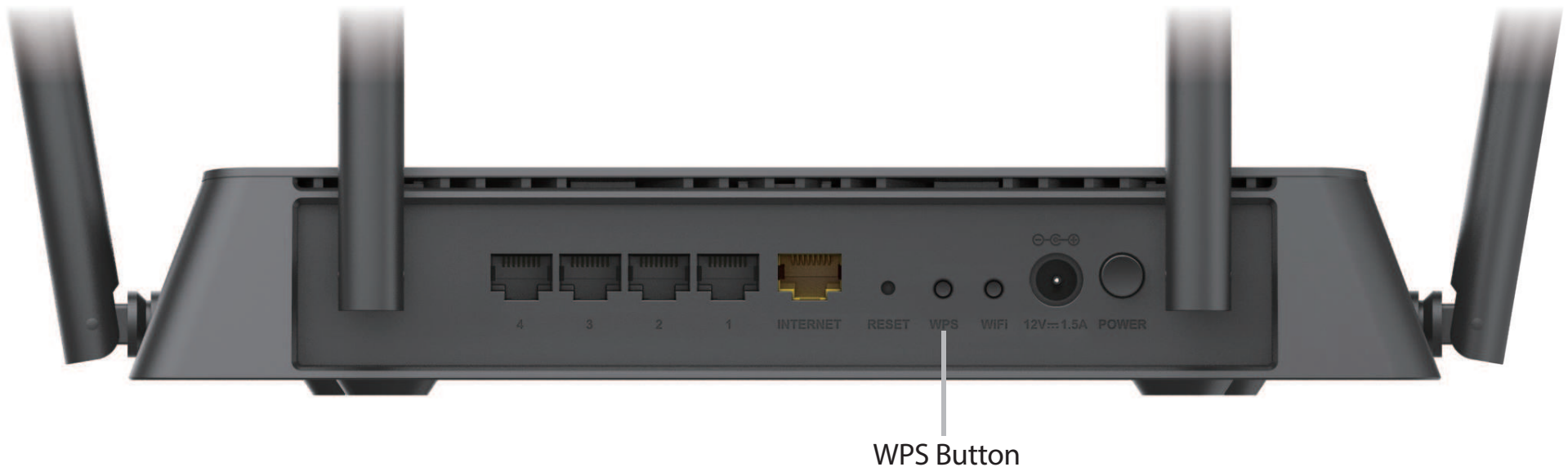
**DISCONNECT** **CANCEL**

# Connecting a Wireless Client to your Router

## WPS Button

The easiest and most secure way to connect your wireless devices to the router is with 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-883 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-883 for about 1 second. The LED on the front will start to blink.



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

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

# Windows® 10

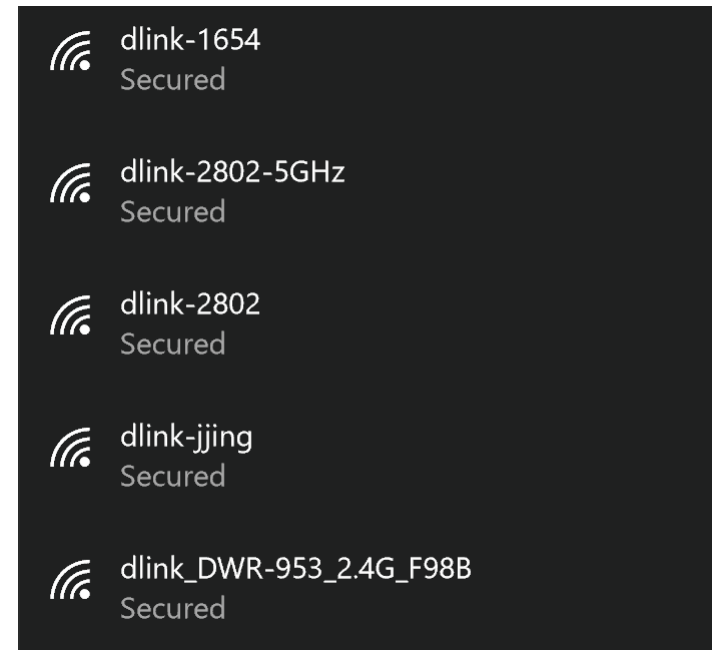
When connecting to the DIR-883 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise refer to the product label for the default Wi-Fi network SSID and password, or enter the Wi-Fi credentials set during the product configuration.

To join an existing network, locate the wireless network icon in the taskbar, next to the time display, and click on it.



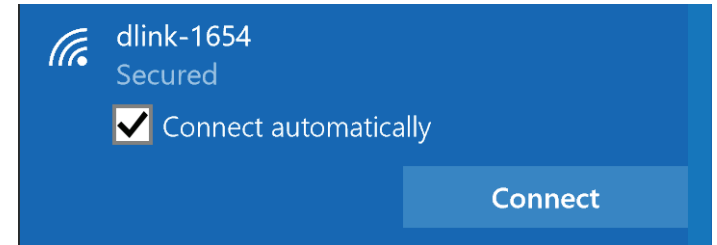
Wireless Icon

Clicking on this icon will display a list of wireless networks which are within range of your computer. Select the desired network by clicking on the SSID.



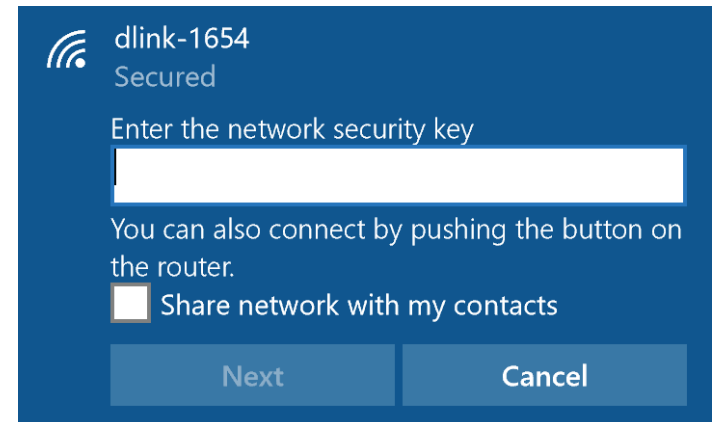
To connect to the SSID, click **Connect**.

To automatically connect to the router when your device detects the SSID, click the **Connect Automatically** check box.



You will then be prompted to enter the Wi-Fi password (network security key) for the wireless network. Enter the password into the box and click **Next** to connect to the network. Your computer will now automatically connect to this wireless network when it is detected.

You can also use Wi-Fi Protected Setup (WPS) to connect to the router. Press the WPS button on your D-Link device and you will be automatically connected.

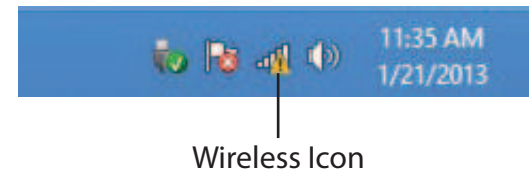


# Windows® 8

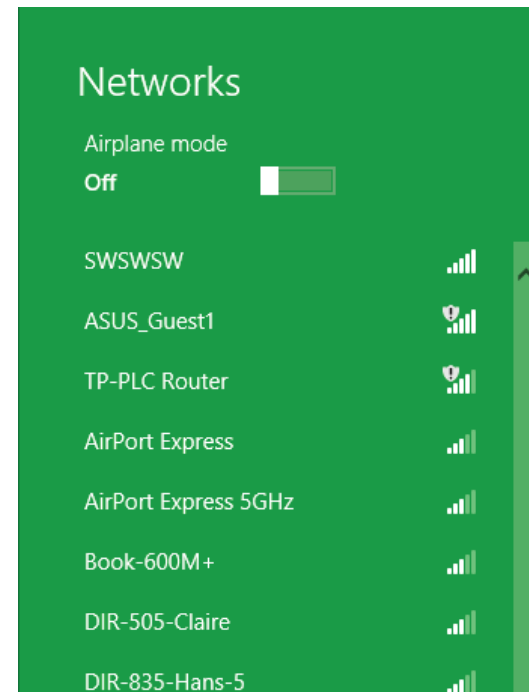
## WPA/WPA2

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

To join an existing network, locate the wireless network icon in the taskbar next to the time display.

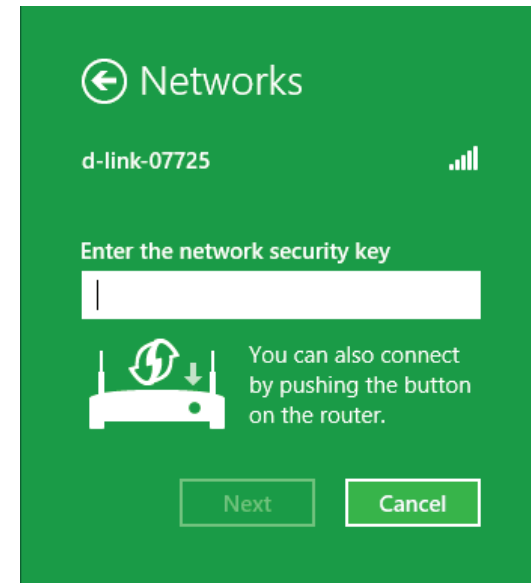


Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.

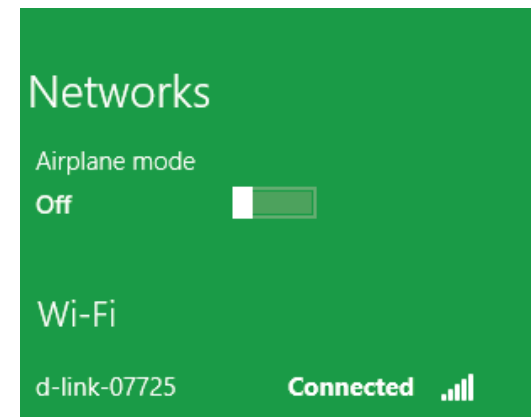


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

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



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

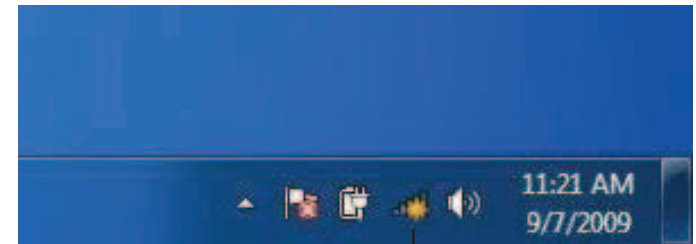


# Windows® 7

## WPA/WPA2

It is recommended that you 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.

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



Wireless Icon

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

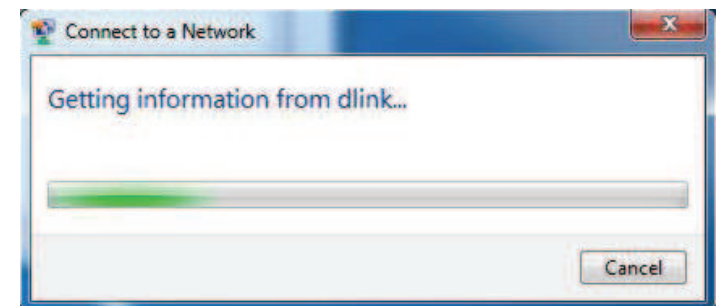


Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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



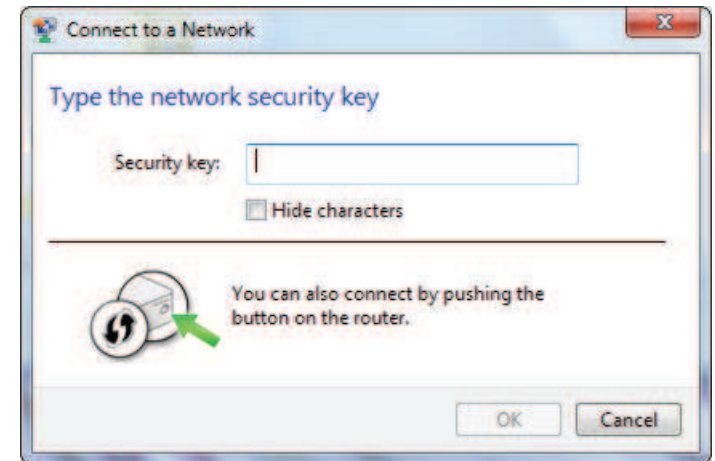
The following window appears while your computer tries to connect to the router.





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

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



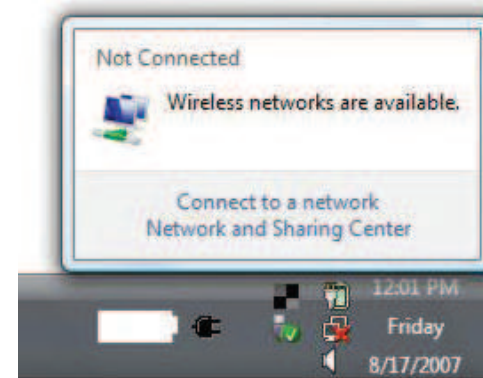
# Windows Vista®

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

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

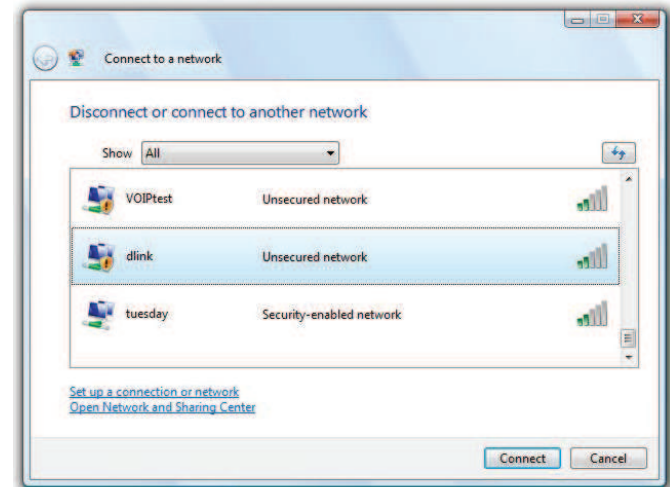
or

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



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

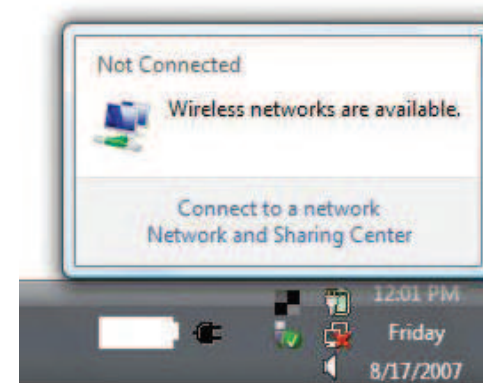
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



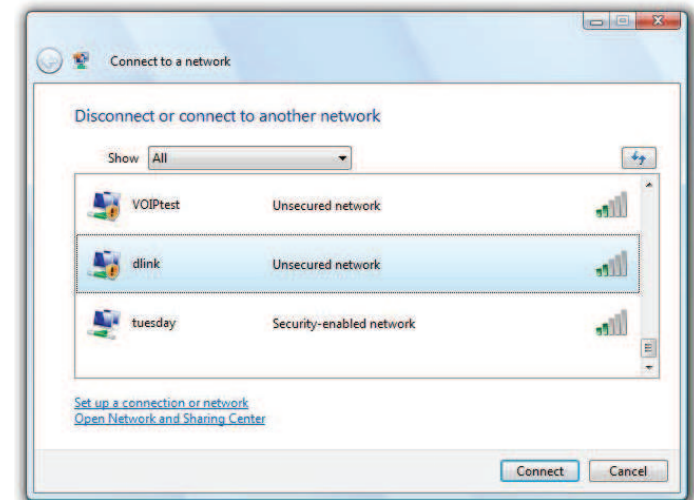
## WPA/WPA2

It is recommended that you 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.

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**.

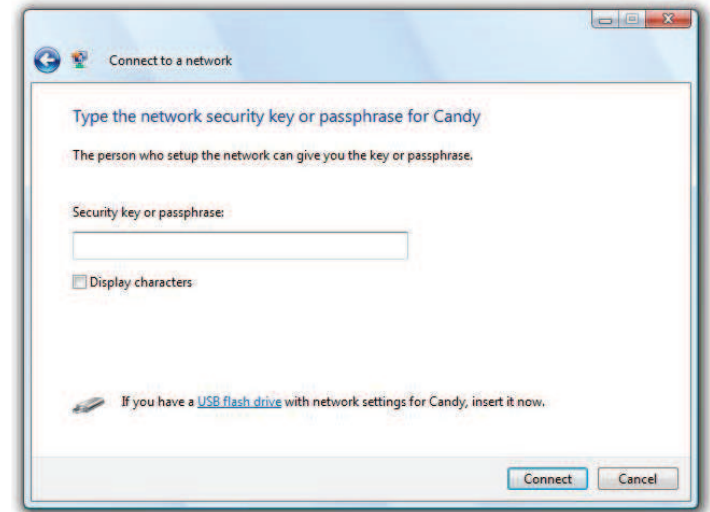


Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



Enter the same security key or passphrase (Wi-Fi password) that is on your router and click **Connect**.

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



# Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-883. 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 these examples.

## 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® 10 or higher
  - Mozilla Firefox 28 or higher
  - Google™ Chrome 28 or higher
  - Apple Safari 6 or 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 ZoneAlarm, BlackICE, 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.

### **What can I do if I forgot my password?**

If you forgot your password, you must reset your router. 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, leave the password box empty.

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

### **Wireless Local Area Network (WLAN)**

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, university 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. This 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 Uses/Benefits**

- 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 Uses/Benefits**

- 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 USB adapter with your laptop, you can access the hotspot to connect to the Internet from remote locations like: airports, hotels, coffee shops, libraries, restaurants, and convention centers.

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

## **Tips**

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

### **Centralize your router or access point**

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

### **Eliminate Interference**

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

### **Security**

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to the 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-883 wireless network USB 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 USB adapters. All the adapters must be in Ad-hoc mode to communicate.

# Networking Basics

## Check your IP address

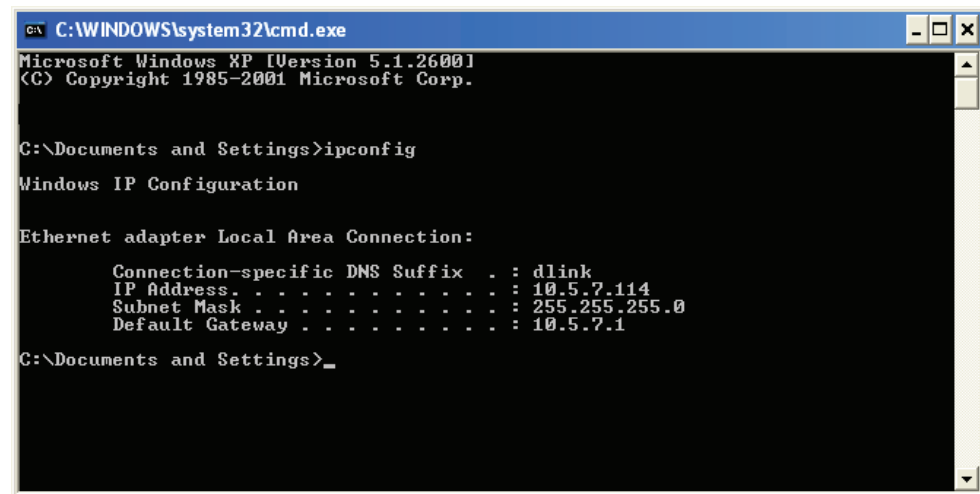
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

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

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

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



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address . . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

## Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

### Step 1

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

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

Windows® XP -Click on **Start > Control Panel > Network Connections**.

Windows® 2000 - From the desktop, right-click **My Network Places > Properties**.

### Step 2

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

### Step 3

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

### Step 4

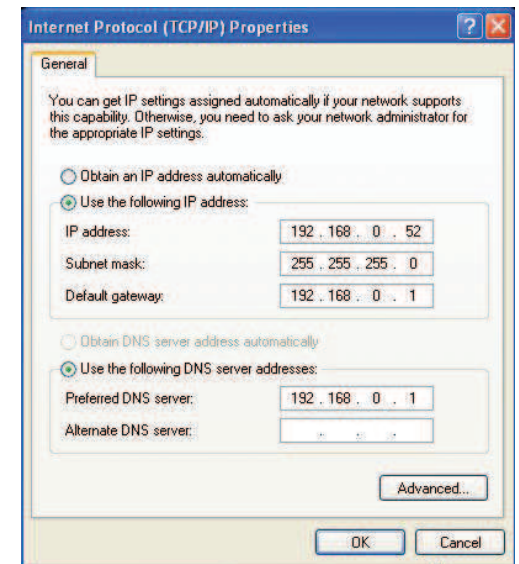
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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

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

### Step 5

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



## Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-883 offers the following types of security:

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

### What is WPA?

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

The 2 major improvements over WEP:

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

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

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



# Technical Specifications

## DIR-883

### Device Interfaces

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

### Antenna Types

- Four external antennas

### Standards

- IEEE 802.11ac<sup>1,2,3</sup>
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

### Security

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

### Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 3 A

### Temperature

- 0 to 40 °C (32 to 104 °F) Operating
- -20 to 65 °C (-4 to 149 °F) Storage

### Humidity

- 10% to 90% maximum (non-condensing) Operating
- 5% to 95% maximum (non-condensing) Storage

### Certifications

- FCC
- CE
- IC
- CSA
- Wi-Fi Certified

### Dimensions

- L = 258.8 mm (10.2 inches)
- W = 183.4 mm (7.2 inches)
- H = 44.9 mm (1.8 inches)

### Weight

- TBA

1 Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g, 802.11n, and 802.11ac 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-883 does not include 5.25-5.35 GHz & 5.47-5.725 GHz in some regions.

# Technical Specifications

## DAP-1655

### Device Interfaces

- 802.11 ac/n/g/b/a wireless LAN
- Two 10/100/1000 Gigabit LAN ports

### Antenna Types

- Two internal antennas

### Standards

- IEEE 802.11ac<sup>1,2,3</sup>
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

### Security

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

### Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 1 A

### Temperature

- 0 to 40 °C (32 to 104 °F) Operating
- -20 to 65 °C (-4 to 149 °F) Storage

1 Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g, 802.11n, and 802.11ac 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-883 does not include 5.25-5.35 GHz & 5.47-5.725 GHz in some regions.

### Humidity

- 10% to 90% maximum (non-condensing) Operating
- 5% to 95% maximum (non-condensing) Storage

### Certifications

- FCC
- CE
- IC
- CSA
- Wi-Fi Certified

### Dimensions

- L = 134 mm (5.28 inches)
- W = 134 mm (5.28 inches)
- H = 32.6 mm (1.28 inches)

### Weight

- TBA



	<b>Frequency Band(s)</b> <b>Frequenzband</b> <b>Fréquence bande(s)</b> <b>Bandas de Frecuencia</b> <b>Frequenza/e</b> <b>Frequentie(s)</b>	<b>Max. Output Power (EIRP)</b> <b>Max. Output Power</b> <b>Consommation d'énergie max.</b> <b>Potencia máxima de Salida</b> <b>Potenza max. Output</b> <b>Max. Output Power</b>
5 G	5.15 – 5.25 GHz	200 mW
	5.25 – 5.35 GHz	200 mW
	5.47 – 5.725 GHz	1 W
2.4 G	2.4 – 2.4835 GHz	100 mW

## European Community Declaration of Conformity:

Česky [Czech]	Tímto D-Link Corporation prohlašuje, že tento produkt, jeho příslušenství a software jsou v souladu se směrnicí 2014/53/EU. Celý text ES prohlášení o shodě vydaného EU a o firmwaru produktu lze stáhnout na stránkách k produktu <a href="http://www.dlink.com">www.dlink.com</a> .
Dansk [Danish]	D-Link Corporation erklærer herved, at dette produkt, tilbehør og software er i overensstemmelse med direktiv 2014/53/EU. Den fulde tekst i EU-overensstemmelseserklæringen og produktfirmware kan wnloades fra produktsiden hos <a href="http://www.dlink.com">www.dlink.com</a> .
Deutsch [German]	Hiermit erklärt die D-Link Corporation, dass dieses Produkt, das Zubehör und die Software der Richtlinie 2014/53/EU entsprechen. Der vollständige Text der Konformitätserklärung der Europäischen Gemeinschaft sowie die Firmware zum Produkt stehen Ihnen zum Herunterladen von der Produktseite im Internet auf <a href="http://www.dlink.com">www.dlink.com</a> zur Verfügung.
Eesti [Estonian]	Käesolevaga kinnitab D-Link Corporation, et see toode, tarvikud ja tarkvara on kooskõlas direktiiviga 2014/53/EL. Euroopa Liidu vastavusdeklaratsiooni täistekst ja toote püsivara on allalaadimiseks saadaval tootelehel <a href="http://www.dlink.com">www.dlink.com</a> .
English	Hereby, D-Link Corporation, declares that this product, accessories, and software are in compliance with directive 2014/53/EU. The full text of the EU Declaration of Conformity and product firmware are available for download from the product page at <a href="http://www.dlink.com">www.dlink.com</a>
Español [Spanish]	Por la presente, D-Link Corporation declara que este producto, accesorios y software cumplen con las directivas 2014/53/UE. El texto completo de la declaración de conformidad de la UE y el firmware del producto están disponibles y se pueden descargar desde la página del producto en <a href="http://www.dlink.com">www.dlink.com</a> .
Ελληνική [Greek]	Με την παρούσα, η D-Link Corporation δηλώνει ότι αυτό το προϊόν, τα αξεσουάρ και το λογισμικό συμμορφώνονται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ και το υλικολογισμικό του προϊόντος είναι διαθέσιμα για λήψη από τη σελίδα του προϊόντος στην τοποθεσία <a href="http://www.dlink.com">www.dlink.com</a> .
Français [French]	Par les présentes, D-Link Corporation déclare que ce produit, ces accessoires et ce logiciel sont conformes aux directives 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE et le microprogramme du produit sont disponibles au téléchargement sur la page des produits à <a href="http://www.dlink.com">www.dlink.com</a> .
Italiano [Italian]	Con la presente, D-Link Corporation dichiara che questo prodotto, i relativi accessori e il software sono conformi alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE e il firmware del prodotto sono disponibili per il download dalla pagina del prodotto su <a href="http://www.dlink.com">www.dlink.com</a> .

Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē <a href="http://www.dlink.com">www.dlink.com</a> .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekstą ir gaminio programinę aparatinę įrangą galima atsisiųsti iš gaminio puslapio adresu <a href="http://www.dlink.com">www.dlink.com</a> .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op <a href="http://www.dlink.com">www.dlink.com</a> .
Malti [Maltese]	Bil-preżenti, D-Link Corporation tiddikjara li dan il-prodott, l-aċċessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tniżżel it-test sħiħ tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq <a href="http://www.dlink.com">www.dlink.com</a> .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékai és szoftvere megfelelnek a 2014/53/EU sz. rendeletnek. Az EU Megfelelőségi nyilatkozat teljes szövege és a termék firmware a termék oldaláról tölthető le a <a href="http://www.dlink.com">www.dlink.com</a> címen.
Polski [Polish]	D-Link Corporation niniejszym oświadcza, że ten produkt, akcesoria oraz oprogramowanie są zgodne z dyrektywami 2014/53/EU. Pełen tekst deklaracji zgodności UE oraz oprogramowanie sprzętowe do produktu można pobrać na stronie produktu w witrynie <a href="http://www.dlink.com">www.dlink.com</a> .
Português [Portuguese]	Desta forma, a D-Link Corporation declara que este produto, os acessórios e o software estão em conformidade com a diretiva 2014/53/UE. O texto completo da declaração de conformidade da UE e do firmware
Slovensko[Slovenian]	Podjetje D-Link Corporation s tem izjavlja, da so ta izdelek, dodatna oprema in programnska oprema skladni z direktivami 2014/53/EU. Celotno besedilo izjave o skladnosti EU in vdelana programska oprema sta na voljo za prenos na strani izdelka na <a href="http://www.dlink.com">www.dlink.com</a> .
Slovensky [Slovak]	Spoločnosť D-Link týmto vyhlasuje, že tento produkt, príslušenstvo a softvér sú v súlade so smernicou 214/53/EÚ. Úplné znenie vyhlásenia EÚ o zhode a firmvéri produktu sú k dispozícii na prevzatie zo stránky produktu <a href="http://www.dlink.com">www.dlink.com</a> .
Suomi [Finnish]	D-Link Corporation täten vakuuttaa, että tämä tuote, lisävarusteet ja ohjelmisto ovat direktiivin 2014/53/EU vaatimusten mukaisia. Täydellinen EU-vaatimustenmukaisuusvakuutus samoin kuin tuotteen laiteohjelmisto ovat ladattavissa osoitteesta <a href="http://www.dlink.com">www.dlink.com</a> .

Svenska [Swedish]	D-Link Corporation försäkrar härmed att denna produkt, tillbehör och programvara överensstämmer med direktiv 2014/53/EU. Hela texten med EU-försäkran om överensstämmelse och produkt-firmware kan hämtas från produktsidan på <a href="http://www.dlink.com">www.dlink.com</a> .
Íslenska [Icelandic]	Hér með lýsir D-Link Corporation því yfir að þessi vara, fylgihlutir og hugbúnaður eru í samræmi við tilskipun 2014/53/EB. Sækja má ESB-samræmisýfirlýsinguna í heild sinni og fastbúnað vörunnar af vefsíðu vörunnar á <a href="http://www.dlink.com">www.dlink.com</a> .
Norsk [Norwegian]	Herved erklærer D-Link Corporation at dette produktet, tilbehøret og programvaren er i samsvar med direktivet 2014/53/EU. Den fullstendige teksten i EU-erklæring om samsvar og produktets fastvare er tilgjengelig for nedlasting fra produktsiden på <a href="http://www.dlink.com">www.dlink.com</a> .

**Warning Statement:**

The power outlet should be near the device and easily accessible.

### **NOTICE OF WIRELESS RADIO LAN USAGE IN THE EUROPEAN COMMUNITY (FOR WIRELESS PRODUCT ONLY):**

- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries. This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and CY.

#### **Usage Notes:**

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

### **HINWEIS ZUR VERWENDUNG VON DRAHTLOS-NETZWERK (WLAN) IN DER EUROPÄISCHEN GEMEINSCHAFT ( NUR FÜR EIN DRAHTLOSES PRODUKT )**

- Der Betrieb dieses Geräts in der Europäischen Gemeinschaft bei Nutzung von Kanälen im 5,15-5,35 GHz Frequenzband ist ausschließlich auf Innenräume beschränkt, um das Interferenzpotential zu reduzieren.
- Bei diesem Gerät handelt es sich um ein zum Einsatz in allen EU-Mitgliedsstaaten und in EFTA-Ländern - ausgenommen Frankreich. Der Betrieb dieses Geräts ist in den folgenden Ländern erlaubt: AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebrauchshinweise:**

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- Access Points unterstützen die Funktionen DFS (Dynamic Frequency Selection) und TPC (Transmit Power Control) wie erforderlich bei Betrieb auf 5 GHz innerhalb der EU.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach, ob Ihr Gerät eine 2,4 GHz und / oder 5 GHz Verbindung nutzt.

## **AVIS CONCERNANT L'UTILISATION DE LA RADIO SANS FIL LAN DANS LA COMMUNAUTÉ EUROPÉENNE (UNIQUEMENT POUR LES PRODUITS SANS FIL)**

- Cet appareil est limité à un usage intérieur lorsqu'il est utilisé dans la Communauté européenne sur les canaux de la bande de 5,15 à 5,35 GHz afin de réduire les risques d'interférences.
- Cet appareil est un système de transmission à large bande (émetteur-récepteur) de 2,4 GHz, destiné à être utilisé dans tous les États-membres de l'UE et les pays de l'AELE. Cet équipement peut être utilisé dans les pays suivants : AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notes d'utilisation:**

- Pour rester en conformité avec la réglementation nationale européenne en matière d'utilisation du spectre, des limites de fréquence et de canal seront appliquées aux produits selon le pays où l'équipement sera déployé.
- Cet appareil ne peut pas utiliser le mode Ad-hoc lorsqu'il fonctionne dans la bande de 5 GHz. Le mode Adhoc fournit une communication directe pair à pair entre deux périphériques clients sans point d'accès.
- Les points d'accès prendront en charge les fonctionnalités DFS (Dynamic Frequency Selection) et TPC (Transmit Power Control) au besoin lors du fonctionnement dans la bande de 5 GHz au sein de l'UE.
- Merci de vous référer au guide d'utilisation ou de la fiche technique afin de vérifier si votre produit utilise 2.4 GHz et/ou 5 GHz sans fil.

## **AVISO DE USO DE LA LAN DE RADIO INALÁMBRICA EN LA COMUNIDAD EUROPEA (SOLO PARA EL PRODUCTO INALÁMBRICO)**

- El uso de este dispositivo está restringido a interiores cuando funciona en la Comunidad Europea utilizando canales en la banda de 5,15-5,35 GHz, para reducir la posibilidad de interferencias.
- Este dispositivo es un sistema de transmisión (transceptor) de banda ancha de 2,4 GHz, pensado para su uso en todos los estados miembros de la UE y en los países de la AELC. Este equipo se puede utilizar en AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

### **Notas de uso:**

- Para seguir cumpliendo las normas europeas de uso del espectro nacional, se aplicarán limitaciones de frecuencia y canal en los productos en función del país en el que se pondrá en funcionamiento el equipo.
- Este dispositivo tiene restringido el funcionamiento en modo Ad-hoc mientras funcione a 5 Ghz. El modo Ad-hoc es la comunicación directa de igual a igual entre dos dispositivos cliente sin un punto de acceso.
- Los puntos de acceso admitirán la funcionalidad DFS (Selección de frecuencia dinámica) y TPC (Control de la potencia de transmisión) si es necesario cuando funcionan a 5 Ghz dentro de la UE.
- Por favor compruebe el manual o la ficha de producto para comprobar si el producto utiliza las bandas inalámbricas de 2.4 GHz y/o la de 5 GHz.



### **AVVISO PER L'USO DI LAN RADIO WIRELESS NELLA COMUNITÀ EUROPEA (SOLO PER PRODOTTI WIRELESS)**

- Nella Comunità europea, l'uso di questo dispositivo è limitato esclusivamente agli ambienti interni sui canali compresi nella banda da 5,15 a 5,35 GHz al fine di ridurre potenziali interferenze. Questo dispositivo è un sistema di trasmissione a banda larga a 2,4 GHz (ricetrasmittente), destinato all'uso in tutti gli stati membri dell'Unione europea e nei paesi EFTA.
- Questo dispositivo può essere utilizzato in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Note per l'uso**

- Al fine di mantenere la conformità alle normative nazionali europee per l'uso dello spettro di frequenze, saranno applicate limitazioni sulle frequenze e sui canali per il prodotto in conformità alle normative del paese in cui il dispositivo viene utilizzato.
- Questo dispositivo non può essere attivato in modalità Ad-hoc durante il funzionamento a 5 GHz. La modalità Ad-hoc è una comunicazione diretta peer-to-peer fra due dispositivi client senza un punto di accesso.
- I punti di accesso supportano le funzionalità DFS (Dynamic Frequency Selection) e TPC (Transmit Power Control) richieste per operare a 5 GHz nell'Unione europea.
- Ti invitiamo a fare riferimento al manuale del prodotto o alla scheda tecnica per verificare se il tuo prodotto utilizza le frequenze 2,4 GHz e/o 5 GHz.

### **KENNISGEVING VAN DRAADLOOS RADIO LAN-GEbruik IN DE EUROPESE GEMEENSCHAP (ALLEEN VOOR DRAADLOOS PRODUCT)**

- Dit toestel is beperkt tot gebruik binnenshuis wanneer het wordt gebruikt in de Europese Gemeenschap gebruik makend van kanalen in de 5.15-5.35 GHz band om de kans op interferentie te beperken.
- Dit toestel is een 2.4 GHz breedband transmissiesysteem (transceiver) dat bedoeld is voor gebruik in alle EU lidstaten en EFTA landen. Deze uitrusting mag gebruikt worden in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

#### **Gebruiksaanwijzingen:**

- Om de gebruiksvoorschriften van het Europese Nationale spectrum na te leven, zullen frequentie- en kanaalbeperkingen worden toegepast op de producten volgens het land waar de uitrusting gebruikt zal worden.
- Dit toestel kan niet functioneren in Ad-hoc mode wanneer het gebruikt wordt in 5 GHz. Ad-hoc mode is directe peer-to-peer communicatie tussen twee klantenapparaten zonder een toegangspunt.
- Toegangspunten ondersteunen DFS (Dynamic Frequency Selection) en TPC (Transmit Power Control) functionaliteit zoals vereist bij gebruik in 5 GHz binnen de EU.
- Raadpleeg de handleiding of de datasheet om te controleren of uw product gebruik maakt van 2.4 GHz en/of 5 GHz.

## **SAFETY INSTRUCTIONS**

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

## **SICHERHEITSVORSCHRIFTEN**

Die folgenden allgemeinen Sicherheitsvorschriften dienen als Hilfe zur Gewährleistung Ihrer eigenen Sicherheit und zum Schutz Ihres Produkts. Weitere Details finden Sie in den Benutzeranleitungen zum Produkt.

- Statische Elektrizität kann elektronischen Komponenten schaden. Um Schäden durch statische Aufladung zu vermeiden, leiten Sie elektrostatische Ladungen von Ihrem Körper ab, (z. B. durch Berühren eines geerdeten blanken Metallteils), bevor Sie das Produkt berühren.
- Unterlassen Sie jeden Versuch, das Produkt zu warten, und versuchen Sie nicht, es in seine Bestandteile zu zerlegen. Für einige Produkte mit austauschbaren Akkus lesen Sie bitte das Benutzerhandbuch und befolgen Sie die dort beschriebenen Anleitungen.
- Vermeiden Sie, dass Speisen oder Flüssigkeiten auf Ihr Produkt gelangen, und stecken Sie keine Gegenstände in die Gehäuseschlitze oder -öffnungen Ihres Produkts.
- Verwenden Sie dieses Produkt nicht in unmittelbarer Nähe von Wasser und nicht in Bereichen mit hoher Luftfeuchtigkeit oder Kondensation, es sei denn, es ist speziell zur Nutzung in Außenbereichen vorgesehen und eingestuft.
- Halten Sie das Produkt von Heizkörpern und anderen Quellen fern, die Wärme erzeugen.
- Trennen Sie das Produkt immer von der Stromzufuhr, bevor Sie es reinigen und verwenden Sie dazu ausschließlich ein trockenes fusselfreies Tuch.

## **CONSIGNES DE SÉCURITÉ**

Les consignes générales de sécurité ci-après sont fournies afin d'assurer votre sécurité personnelle et de protéger le produit d'éventuels dommages. Veuillez consulter les consignes d'utilisation du produit pour plus de détails.

- L'électricité statique peut endommager les composants électroniques. Déchargez l'électricité statique de votre corps (en touchant un objet en métal relié à la terre par exemple) avant de toucher le produit.
- N'essayez pas d'intervenir sur le produit et ne le démontez jamais. Pour certains produits contenant une batterie remplaçable par l'utilisateur, veuillez lire et suivre les consignes contenues dans le manuel d'utilisation.
- Ne renversez pas d'aliments ou de liquide sur le produit et n'insérez jamais d'objets dans les orifices.
- N'utilisez pas ce produit à proximité d'un point d'eau, de zones très humides ou de condensation sauf si le produit a été spécifiquement conçu pour une application extérieure.
- Éloignez le produit des radiateurs et autres sources de chaleur.
- Débranchez toujours le produit de l'alimentation avant de le nettoyer et utilisez uniquement un chiffon sec non pelucheux.

## **INSTRUCCIONES DE SEGURIDAD**

Las siguientes directrices de seguridad general se facilitan para ayudarle a garantizar su propia seguridad personal y para proteger el producto frente a posibles daños. No olvide consultar las instrucciones del usuario del producto para obtener más información.

- La electricidad estática puede resultar nociva para los componentes electrónicos. Descargue la electricidad estática de su cuerpo (p. ej., tocando algún metal sin revestimiento conectado a tierra) antes de tocar el producto.
- No intente realizar el mantenimiento del producto ni lo desmonte nunca. Para algunos productos con batería reemplazable por el usuario, lea y siga las instrucciones del manual de usuario.
- No derrame comida o líquidos sobre el producto y nunca deje que caigan objetos en las aberturas del mismo.
- No utilice este producto cerca del agua, en zonas con humedad o condensación elevadas a menos que el producto esté clasificado específicamente para aplicación en exteriores.
- Mantenga el producto alejado de los radiadores y de otras fuentes de calor.
- Desenchufe siempre el producto de la alimentación de red antes de limpiarlo y utilice solo un paño seco sin pelusa.

## **ISTRUZIONI PER LA SICUREZZA**

Le seguenti linee guida sulla sicurezza sono fornite per contribuire a garantire la sicurezza personale degli utenti e a proteggere il prodotto da potenziali danni. Per maggiori dettagli, consultare le istruzioni per l'utente del prodotto.

- L'elettricità statica può essere pericolosa per i componenti elettronici. Scaricare l'elettricità statica dal corpo (ad esempio toccando una parte metallica collegata a terra) prima di toccare il prodotto.
- Non cercare di riparare il prodotto e non smontarlo mai. Per alcuni prodotti dotati di batteria sostituibile dall'utente, leggere e seguire le istruzioni riportate nel manuale dell'utente.
- Non versare cibi o liquidi sul prodotto e non spingere mai alcun oggetto nelle aperture del prodotto.
- Non usare questo prodotto vicino all'acqua, in aree con elevato grado di umidità o soggette a condensa a meno che il prodotto non sia specificatamente approvato per uso in ambienti esterni.
- Tenere il prodotto lontano da caloriferi e altre fonti di calore.
- Scollegare sempre il prodotto dalla presa elettrica prima di pulirlo e usare solo un panno asciutto che non lasci filacce.

## **VEILIGHEIDSINFORMATIE**

De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- Statische elektriciteit kan schadelijk zijn voor elektronische componenten. Ontlaad de statische elektriciteit van uw lichaam (d.w.z. het aanraken van geaard bloot metaal) voordat u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten met door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geclassificeerd is voor gebruik buitenshuis.
- Houd het product uit de buurt van radiators en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluisvrije doek.

## Disposing of and Recycling Your Product

### ENGLISH

EN



This symbol on the product or packaging means that according to local laws and regulations this product should not be disposed of in household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

### D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit [www.dlinkgreen.com](http://www.dlinkgreen.com).

### DEUTSCH

DE



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

### D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf diese Weise helfen Sie, Energie zu sparen und CO2-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter [www.dlinkgreen.com](http://www.dlinkgreen.com).

**FRANÇAIS****FR**

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

**D-Link et l'environnement**

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO2.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ESPAÑOL****ES**

Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

**D-Link y el medio ambiente**

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.

D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO2.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ITALIANO****IT**

La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

**D-Link e l'ambiente**

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollegarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo [www.dlinkgreen.com](http://www.dlinkgreen.com).

**NEDERLANDS****NL**

Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen. Door het product en de verpakking op deze manier te recyclen helpt u het milieu en de gezondheid van de mens te beschermen.

**D-Link en het milieu**

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO<sub>2</sub>-emissies.

Breng een bezoek aan [www.dlinkgreen.com](http://www.dlinkgreen.com) voor meer informatie over onze milieuverantwoorde producten en verpakkingen.

**POLSKI****PL**

Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze. Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

**D-Link i środowisko**

D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO<sub>2</sub>.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową [www.dlinkgreen.com](http://www.dlinkgreen.com).

**ČESKY****CZ**

Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odneste jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteřá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

**D-Link a životní prostředí**

Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály.

Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO<sub>2</sub>.

Více informací o našich ekologických výrobcích a obalech najdete na adrese [www.dlinkgreen.com](http://www.dlinkgreen.com).



**MAGYAR****HU**

Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

**A D-Link és a környezet**

A D-Linknél megértjük és elköteleztük magunkat a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyag-tartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy mindig kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a [www.dlinkgreen.com](http://www.dlinkgreen.com) weboldalon tudhat meg.

**NORSK****NO**

Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

**D-Link og miljøet**

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet. For å minimalisere denne innvirkningen designer og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO2-utslipp.

For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til [www.dlinkgreen.com](http://www.dlinkgreen.com).

**DANSK****DK**

Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

**D-Link og miljøet**

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designer og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO<sub>2</sub>-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SUOMI****FI**

Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti tätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteeseen. Kierrättämällä käytetyn tuotteen ja sen pakkauksen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

**D-Link ja ympäristö**

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakkauksissa.

Suosittellemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammutat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat säästämään energiaa ja vähentämään hiilidioksiidipäästöjä.

Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakkauksistamme osoitteesta [www.dlinkgreen.com](http://www.dlinkgreen.com).

**SVENSKA****SE**

Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda människors hälsa.

**D-Link och miljön**

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar [www.dlinkgreen.com](http://www.dlinkgreen.com).

**PORTUGUÊS****PT**

Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

**A D-Link e o ambiente**

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO<sub>2</sub>.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite [www.dlinkgreen.com](http://www.dlinkgreen.com).

**15.19:**

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 UNDESIRE OPERATION.

**15.21:**

The user manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

**15.105(b):**

NOTE: 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 or more 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.

**RF Exposure Statement.**

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.