



User Manual

AC1900 MU-MIMO Wi-Fi Gigabit Router

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
1.02	2020/02/17	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: 4.85 watts

Switched Off: 0.06 watts

Table of Contents

Product Overview.....	1	Wireless	52
Package Contents.....	1	Guest Zone	55
System Requirements	2	Network.....	56
Introduction	3	Features.....	58
Features.....	5	QoS Engine.....	58
Hardware Overview	6	Firewall Settings	59
LED Indicators	6	IPv4/IPv6 Rules	61
Back Panel	7	Port Forwarding	62
		Virtual Server.....	63
Installation	8	Website Filter.....	64
Before you Begin.....	8	Static Routes.....	65
Wireless Installation Considerations.....	9	IPv6	66
Hardware Setup	10	Dynamic DNS	67
Completing Setup	13	IPv6 Host	68
D-Link Wi-Fi App	14	Quick VPN	69
Setup Wizard	16	Management.....	71
		Time & Schedule	71
Configuration.....	21	Time	71
Home	22	Schedule	72
Internet.....	22	System Log.....	73
DIR-878.....	23	System Admin	75
Connected Clients	24	System	76
Settings	25	User.....	77
Wizard	25	Upgrade	79
Internet.....	25		
IPv6	35		
VLAN.....	50		

Statistics	80	Wireless Modes.....	132
Quick VPN.....	81	Networking Basics.....	133
Important Information	82	Check your IP address.....	133
Quick VPN Server Setup Instructions	83	Statically Assign an IP address	134
iOS Devices	85	Wireless Security	135
Mac OS X.....	89	What is WPA?	135
Windows 7.....	92	Technical Specifications	136
Windows 8.1/8	96	Wall Mounting	137
Windows 10	102	Regulatory Statements	138
Android	105		
Connect a Wireless Client to your Router	109		
WPS Button.....	109		
Windows® 10	110		
Windows® 8.....	112		
WPA/WPA2	112		
Windows® 7.....	114		
WPA/WPA2	114		
WPS.....	117		
Windows Vista®	121		
WPA/WPA2	122		
Troubleshooting	124		
Wireless Basics	128		
What is Wireless?.....	129		
Tips.....	131		

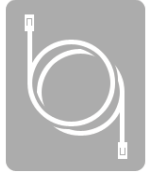
Package Contents



DIR-878



Quick Installation Card



Ethernet Cable



Power Adapter

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

Note: Using a power supply with a different voltage rating than the one included with the DIR-878 will cause damage and void the warranty for this product.

System Requirements

<p>Network Requirements</p>	<ul style="list-style-type: none"> • An Ethernet-based cable or DSL modem • IEEE 802.11 ac/n/g/b/a wireless clients • 10/100/1000 Ethernet
<p>Web-based Configuration Utility Requirements</p>	<p>Computer with the following:</p> <ul style="list-style-type: none"> • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none"> • Internet Explorer 10 or higher • Firefox 28 or higher • Safari 6 or higher • Chrome 28 or higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>
<p>Wi-Fi App Requirements</p>	<ul style="list-style-type: none"> • iPhone®/iPad®, Android™, or Windows smartphone or tablet. (Please refer to the mobile app's store page to check whether your device is compatible)

Introduction

The D-Link DIR-878 AC1900 MU-MIMO Wi-Fi Gigabit Router shares your Internet connection over a blazing-fast Gigabit Wireless AC connection of up to 1900 Mbps (Up to 1300 Mbps 5 GHz Wireless AC and up to 600 Mbps 2.4 GHz Wireless N)¹, using advanced AC beamforming technology to significantly outperform 802.11n and other 802.11ac devices. Equipped with one Gigabit WAN/Internet port and four Gigabit LAN ports to provide wired speeds of up to 10 times faster than standard 10/100 ports, the DIR-878 creates the best networking experience to date.

Featuring four antennas and a 3 x 3 Multiple In Multiple Out (MIMO) antenna configuration, the DIR-878 offers better data rates, fewer dead-spots, more coverage, and higher reliability. Operating exclusively in the 5 GHz band, the DIR-878's 802.11ac wireless connections avoid the crowded 2.4 GHz band, allowing you faster speeds while still maintaining backwards compatibility with older 802.11n/g/b devices. The DIR-878 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-878'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-878'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.

This router is equipped with D-Link's Quick VPN technology. Using Quick VPN allows you to 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.

Introduction (continued)

The DIR-878 supports the latest wireless encryption features to better protect against 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 better protect against potential attacks over the Internet.

The DIR-878 AC1900 MU-MIMO Wi-Fi Gigabit Router provides incredible speeds, smart antenna technology, fast ports, cloud 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.

Features

- **Superior Wireless Networking** - The DIR-878 provides Gigabit wireless speeds of up to a combined 1900 Mbps (1300 Mbps 802.11ac 5 GHz, plus 600 Mbps 802.11n 2.4 GHz)¹. This capability rivals wired connections, allowing users to participate in real-time activities online, such as HD video communication, online gaming, and use mobile devices from anywhere in your home while still offering full 802.11n/g/b backward compatibility.
- **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-878 has an enormous amount of bandwidth to take full advantage of the highest speed broadband connections available.
IPv6 Support - The DIR-878 fully supports IPv6 and includes support for a variety of IPv6 connection types including: SLAAC/DHCPv6, 6rd, Static IPv6, IPv6 PPPoE, and local connectivity.
- **Smart Connect** - Creates a 'single' wireless network for your devices to connect to. Behind the scenes, the DIR-878 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.
- **Advanced Firewall Features** - The web-based user interface displays a number of advanced network management features. Easily apply content filtering based on the URL and/or domain name. Schedule these filters to be active on certain days or for a duration of hours or minutes.
- **Multiple/Concurrent Sessions** - The DIR-878 can pass through VPN sessions. It supports multiple and concurrent IPsec and PPTP sessions, so users behind the DIR-878 can access corporate networks through encrypted channels.
- **User-friendly Setup Wizard** - Through its easy-to-use web-based user interface or D-Link Wi-Fi App, the DIR-878 lets you quickly configure your router to your specific settings in minutes.

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.

Hardware Overview

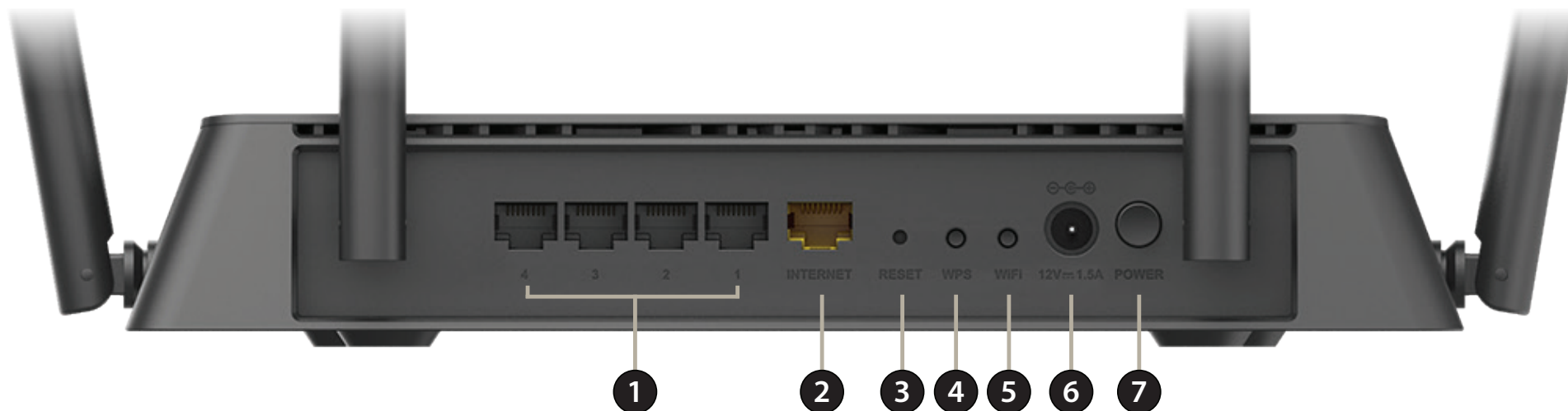
LED Indicators



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

Hardware Overview

Back Panel



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

Installation

This section will walk you through the installation of the DIR-878.

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 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 Internet Service Provider (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.

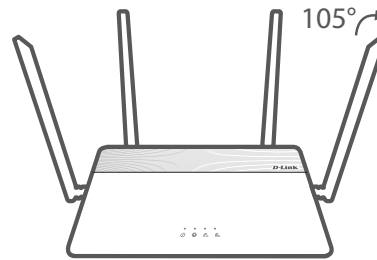
Wireless Installation Considerations

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 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4 GHz cordless phones, 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

1. The DIR-878 is designed to give you the fastest, most stable network connection possible. In order to maximize performance, fully extend the antennas into a 105 degree angle to provide optimal wireless coverage. Keep the router in an open area for better wireless coverage.



2. Position your DIR-878 near your Internet-connected modem. Place it in an open area for better wireless coverage.



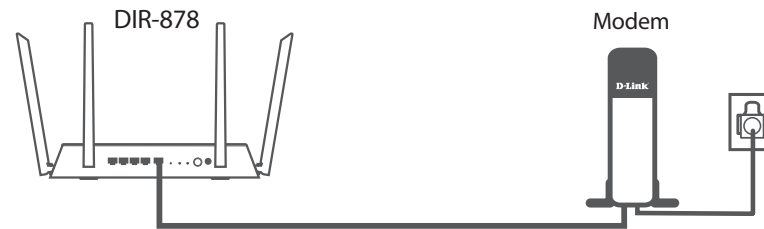
3. Turn off and unplug the power and Ethernet cable to your cable or DSL broadband modem. This is required. In some cases, you may need to turn it off for up to five minutes.



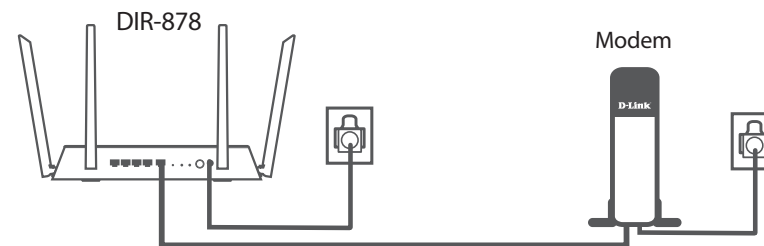
4. Use the included Ethernet cable to connect your modem to the yellow port labeled **INTERNET** on the router.



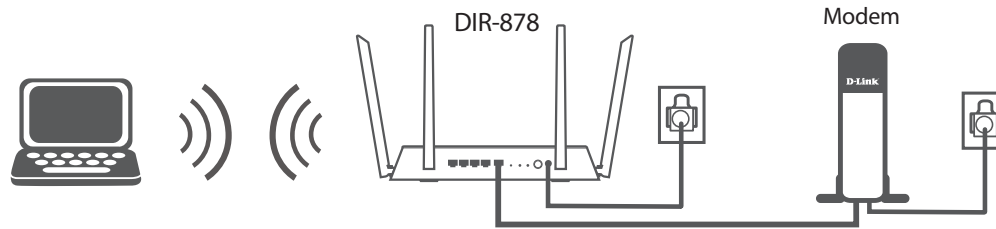
5. Turn on or plug your modem back in and wait approximately one minute before proceeding onward.



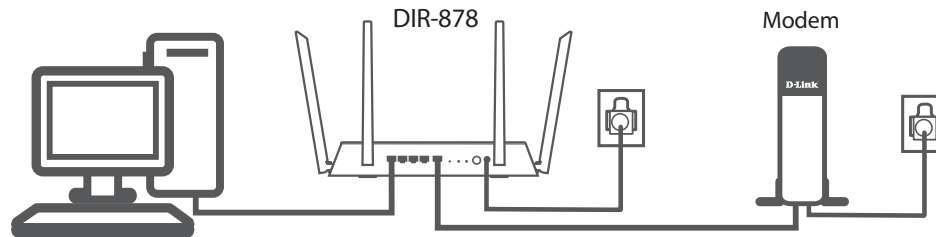
6. Connect the supplied power adapter to the router and a power outlet, press the power button, and wait approximately one minute until the LED indicator on the front of the device changes from orange to solid white.



7. If you are configuring the DIR-878 wirelessly from a PC, connect to the Wi-Fi network printed on the label attached to the bottom of your router.



- If you are configuring the DIR-878 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.



8. If you are connecting to a broadband service that uses a dynamic connection (not PPPoE), you may be online already. Try opening a web browser and connecting to a website. If the website does not load, proceed to **Completing Setup** on page **13**.

Completing Setup

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

- **D-Link Wi-Fi App** - Use your Android device, iPhone, or iPad to configure your router.
Refer to **D-Link Wi-Fi App** on page **14**.
- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time.
Refer to **Setup Wizard** on page **16**.
- **Manual Setup** - Log in to the router and manually configure your router.
Refer to **Configuration on page 21**.

D-Link Wi-Fi App

The D-Link Wi-Fi App allows you to install and configure your DIR-878 AC1900 MU-MIMO Wi-Fi Gigabit Router from your mobile device.

Note: *The screenshots may be different depending on your mobile device's OS version. The following steps show the iOS interface of the D-Link Wi-Fi app. If you are using an Android™ device, the appearance may be different from that of the screenshots, but the process is the same.*

Step 1

Search for the free **D-Link Wi-Fi App** on the Apple App Store or Google Play and install. You can also scan the QR code on the right, which will take you to the respective D-Link Wi-Fi app store page directly.



Step 2

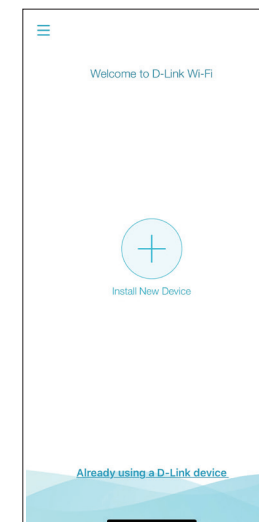
Launch the D-Link Wi-Fi App from the Home screen of your device.



D-Link Wi-Fi

Step 3

Click on the **Install New Device** button at the middle of the screen (or click on the Menu button on the top left corner of the app to do the same).



D-Link Wi-Fi App (continued)

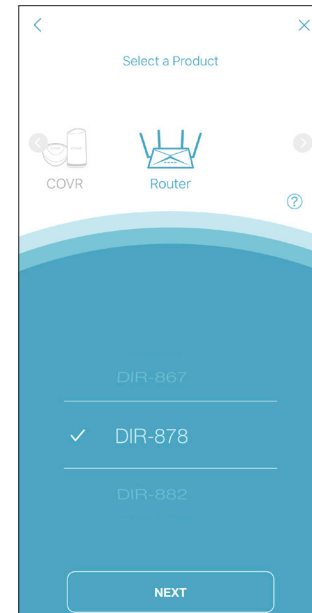
Step 4

Click **Yes** if you have the setup QR code with you to scan the QR code and proceed to step 6. If not, click **No** and proceed to step 5.



Step 5

Slide the product options to **Router** and select **DIR-878** from the list of available devices. Click **Next** to continue.



Step 6

You will now be guided through a step-by-step process for setting up your device. Simply follow the on-screen instructions to complete the installation and DIR-878 configuration process.

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**).

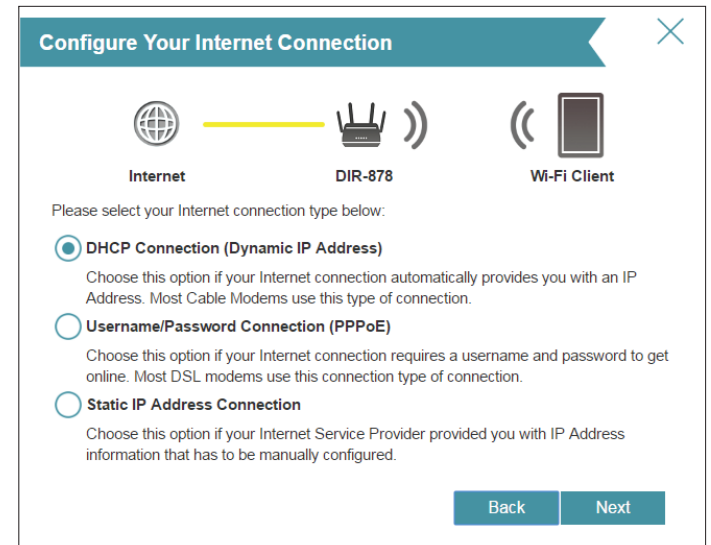
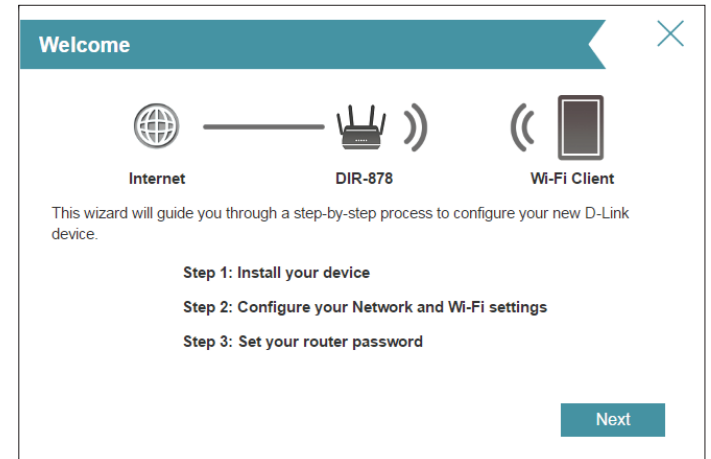
The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

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.

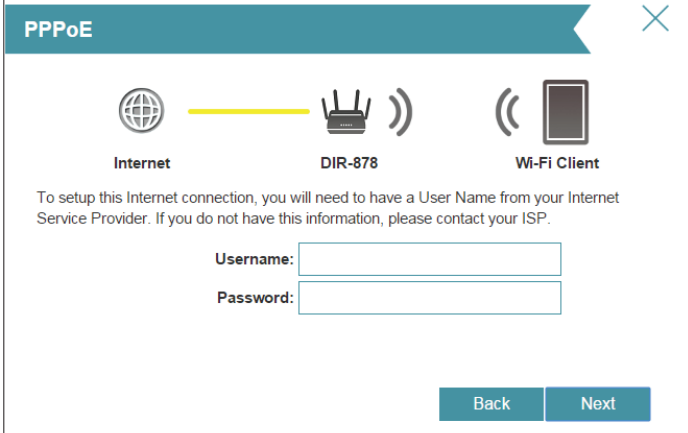
Select your Internet connection type (this information can be obtained from your Internet Service Provider) and click **Next** to continue.



Setup Wizard (continued)

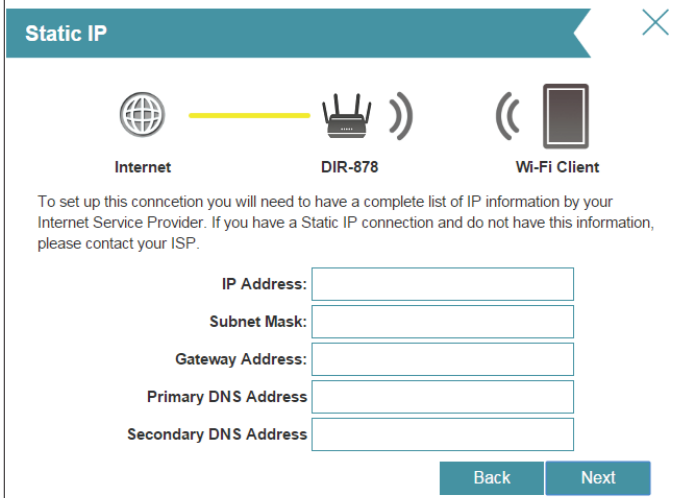
If the router detected or you selected **PPPoE**, enter your PPPoE username and password and click **Next** to continue.

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 are three icons: a globe labeled "Internet", a router labeled "DIR-878", and a smartphone labeled "Wi-Fi Client". A yellow line connects the Internet and DIR-878 icons. Below the icons, there is a paragraph of text: "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." Below this text 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 are three icons: a globe labeled "Internet", a router labeled "DIR-878", and a smartphone labeled "Wi-Fi Client". A yellow line connects the Internet and DIR-878 icons. Below the icons, there is a paragraph of text: "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." Below this text 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".

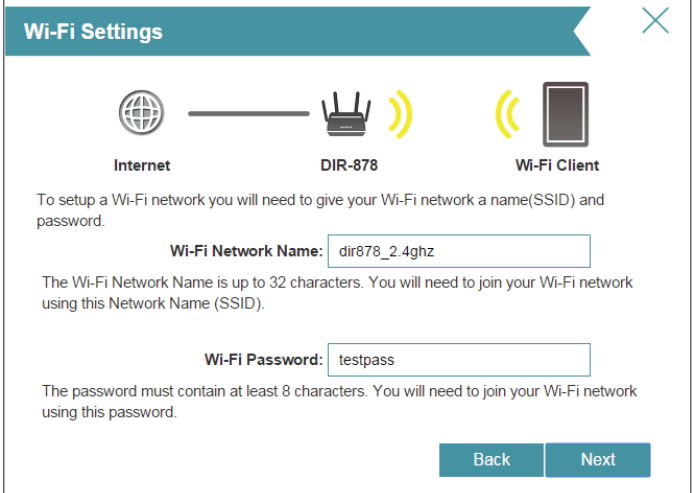
Setup Wizard (continued)

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-878'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 5GHz networks, refer to **Wireless** on page **52**.

In order to better protect 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.



Wi-Fi Settings

Internet — DIR-878 — Wi-Fi Client

To setup a Wi-Fi network you will need to give your Wi-Fi network a name (SSID) and password.

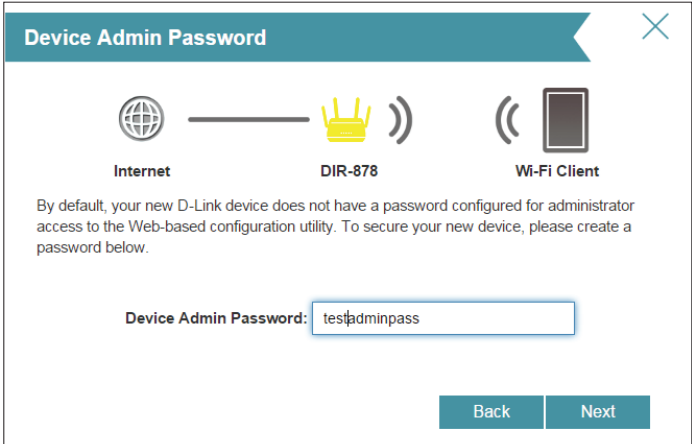
Wi-Fi Network Name:

The Wi-Fi Network Name is up to 32 characters. You will need to join your Wi-Fi network using this Network Name (SSID).

Wi-Fi Password:

The password must contain at least 8 characters. You will need to join your Wi-Fi network using this password.

Back Next



Device Admin Password

Internet — DIR-878 — Wi-Fi Client

By default, your new D-Link device does not have a password configured for administrator access to the Web-based configuration utility. To secure your new device, please create a password below.

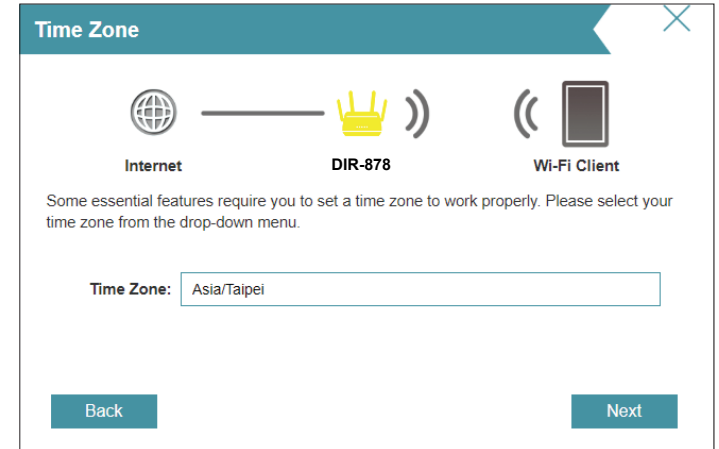
Device Admin Password:

Back Next

Setup Wizard (continued)

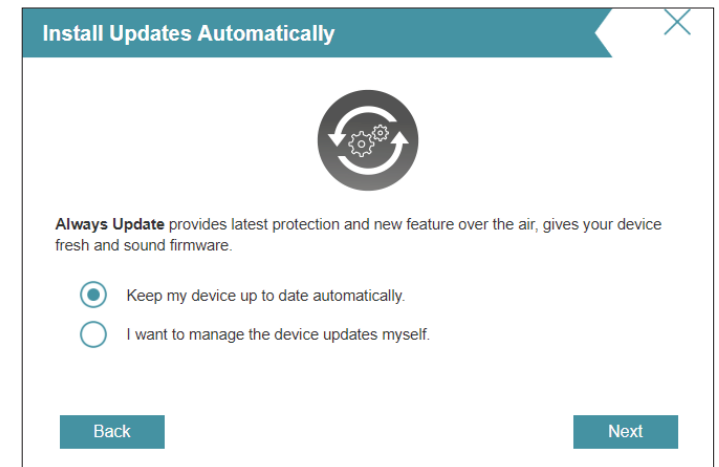
Select your time zone from the drop-down menu.

Click **Next** to continue.



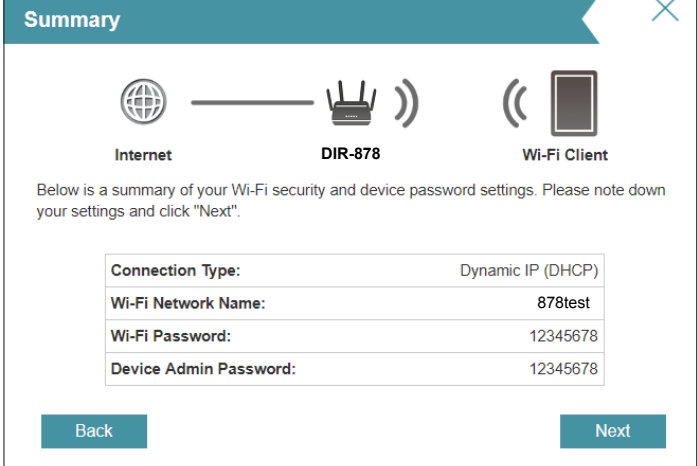
Keeping your DIR-878 firmware up to date provides you with the latest features over the air. Choose whether to keep your device up to date automatically or to manage the device updates by yourself.

Click **Next** to continue.



Setup Wizard (continued)

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

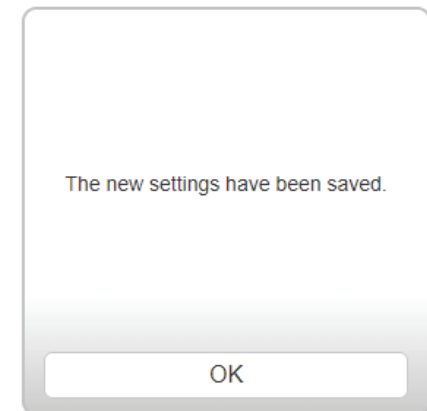


The Summary screen displays a network diagram with three components: Internet (globe icon), DIR-878 (router icon), and Wi-Fi Client (smartphone icon). Below the diagram, a table summarizes the Wi-Fi security and device password settings. The table has two columns: the setting name and its value. At the bottom of the screen, there are two buttons: 'Back' on the left and 'Next' on the right.

Connection Type:	Dynamic IP (DHCP)
Wi-Fi Network Name:	878test
Wi-Fi Password:	12345678
Device Admin Password:	12345678

Click **OK** to close the Setup Wizard.

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.

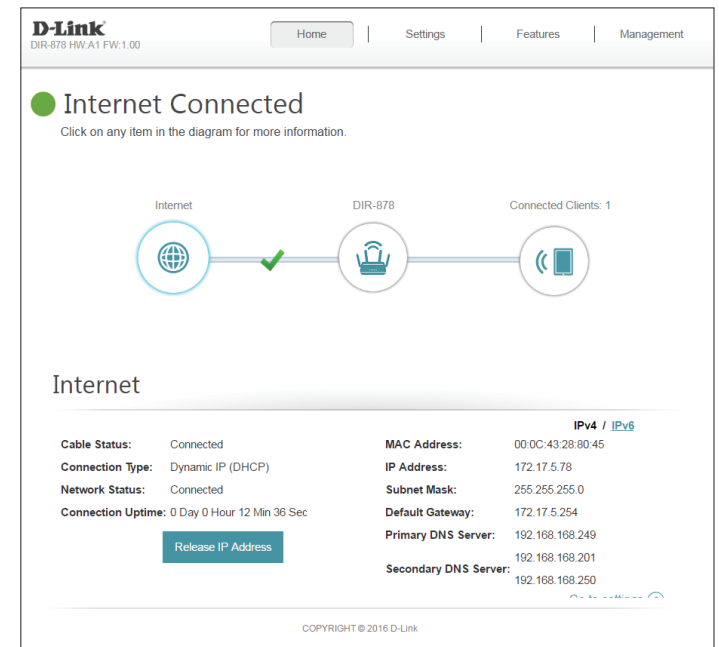
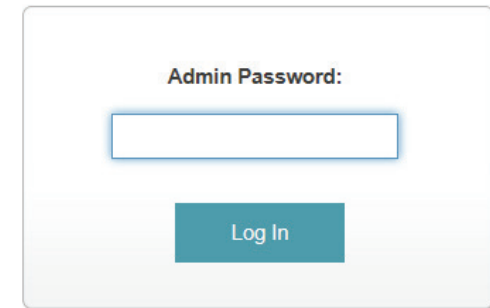
Note: If you cannot remember your password and cannot log in, press the reset/wps button on the back of the device for longer than 10 seconds to restore the router to its default settings.

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

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

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

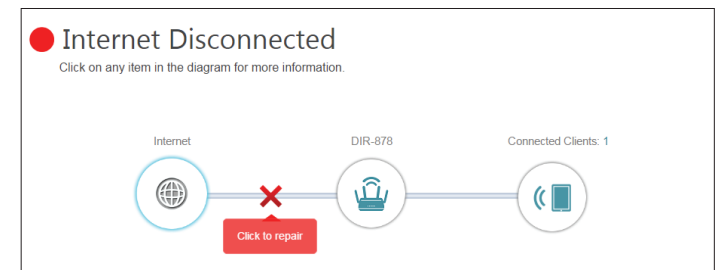
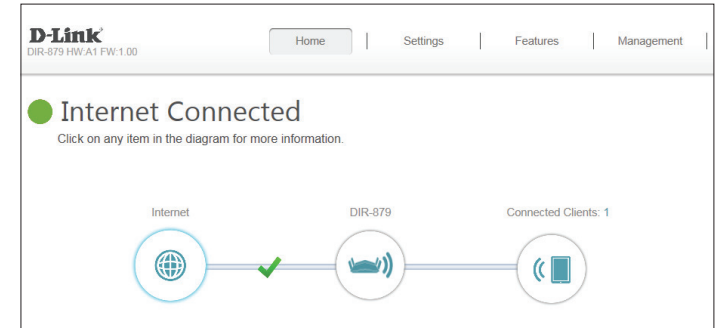
If the mode switch is set to **Router** these are the pages you will see.



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 whether or not the router is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to **Setup Wizard** on page **16** for more information.

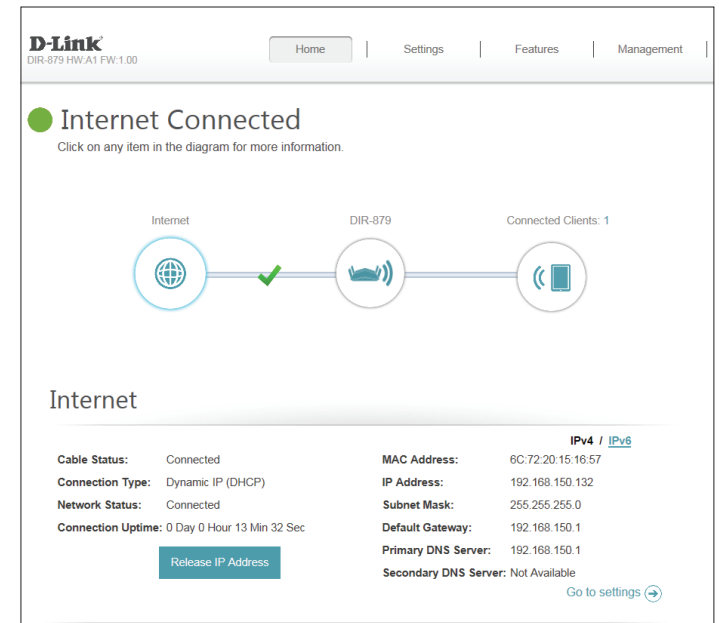


Internet

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**.



DIR-878

Click on the **DIR-878** 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 **56** 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 **52** for more information.

The screenshot displays the D-Link DIR-878 web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management' tabs. Below the navigation bar, a green circle indicates 'Internet Connected' with a subtext 'Click on any item in the diagram for more information.' A network diagram shows 'Internet' connected to 'DIR-878' (with a green checkmark) and 'Connected Clients: 1'. Below the diagram, the 'DIR-878' section provides network details:

IPv4 Network		Wi-Fi 2.4GHz	
MAC Address:	00:0C:43:28:80:42	Status:	Disabled
Router IP Address:	192.168.0.1	Wi-Fi Name (SSID):	Not Available
Subnet Mask:	255.255.255.0	Password:	Not Available

IPv6 Network		Wi-Fi 5GHz	
Link-Local Address:	FE80::20C:43FF:FE28:8042	Status:	Disabled
Assigned Prefix:	/64		

At the bottom right of the settings section, there is a 'Go to settings' link with a right-pointing arrow. 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.

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-878's DHCP server to assign.

Parental Control: Allow or Block access to the router.

Click **Save** when you are done.

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 **16** 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. Click **Advanced Settings...** to expand the list and see all of the options.

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

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

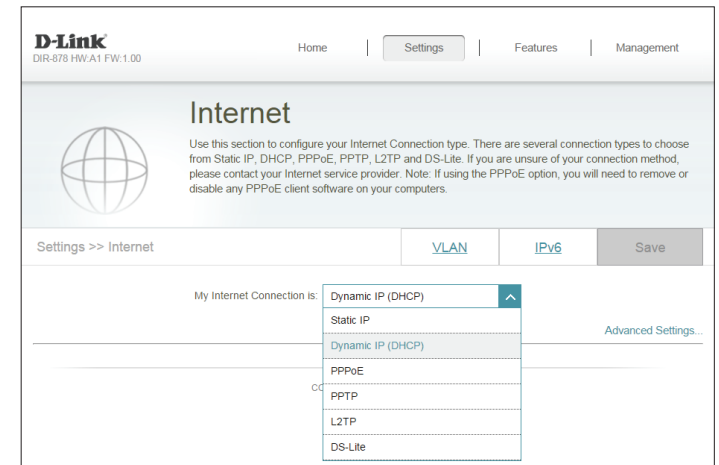
For **PPPoE** refer to page **28**.

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 **35**.



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.

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.

Click **Save** when you are done.

The screenshot shows the D-Link web interface for configuring the Internet connection. The page title is "Internet" and it includes a navigation bar with "Home", "Settings", "Features", and "Management". A globe icon is next to the title. Below the title, there is a note: "Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP 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 are tabs for "Settings >> Internet", "VLAN", "IPv6", and "Save". The "My Internet Connection is:" dropdown menu is set to "Dynamic IP (DHCP)". There is a link for "Advanced Settings...". The form fields are: Host Name: "D-Link"; Primary DNS Server: "168.168.250"; Secondary DNS Server: (empty); MTU: "Manual" (dropdown) with "1492" (text input); MAC Address Clone: "00:0C:43:28:80:45" (text input) and "<< MAC Address" (dropdown menu). At the bottom, it says "COPYRIGHT © 2016 D-Link".

Static IP

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

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

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

Default 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.

Click **Save** when you are done.

The screenshot shows the D-Link DIR-878 web interface. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Internet'. Below the heading, 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.'

The configuration area has a breadcrumb 'Settings >> Internet' and tabs for 'VLAN', 'IPv6', and 'Save'. A dropdown menu for 'My Internet Connection is:' is set to 'Static IP'. Below this are input fields for 'IP Address:', 'Subnet Mask:', 'Default Gateway:', and 'Primary DNS Server:'. An 'Advanced Settings...' link is visible at the bottom right of this section.

The 'Advanced Settings' section includes a 'Secondary DNS Server:' input field, an 'MTU:' dropdown menu set to 'Auto', and a 'MAC Address Clone:' input field with the value '00:0C:43:28:80:45' and a dropdown menu set to '<< MAC Address'.

PPPoE

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

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, select **Always on** as the reconnect mode.

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 page title is 'Internet' and it includes a sub-header 'Settings >> Internet'. There are tabs for 'VLAN' and 'IPv6', and a 'Save' button. The main content area is titled 'My Internet Connection is:' and has a dropdown menu set to 'PPPoE'. Below this are input fields for 'Username:', 'Password:', and 'Reconnect Mode:' (set to 'On demand'). There is also a 'Maximum Idle Time:' field set to '5 minutes'. A link for 'Advanced Settings...' is visible at the bottom right.

The screenshot shows the 'Dynamic IP' configuration section of the D-Link web interface. It includes a dropdown menu for 'Address Mode:' set to 'Dynamic IP'. Below this are input fields for 'Service Name:', 'Primary DNS Server:', and 'Secondary DNS Server:'. There is also an 'MTU:' dropdown menu set to 'Auto' and a 'MAC Address Clone:' field with a value of '00:0C:43:28:80:45' and a dropdown menu for '<< MAC Address'.

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.

The screenshot shows the configuration interface for Dynamic IP mode. The 'Address Mode' is set to 'Dynamic IP'. The 'Service Name' field is empty. The 'Primary DNS Server' and 'Secondary DNS Server' fields are also empty. The 'MTU' is set to 'Auto'. The 'MAC Address Clone' field contains the value '00:0C:43:28:80:45', and a dropdown menu next to it is set to '<< MAC Address'.

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.

The screenshot shows the configuration interface for Static IP mode. The 'Address Mode' is set to 'Static IP'. The 'IP Address' field is empty. The 'Service Name', 'Primary DNS Server', and 'Secondary DNS Server' fields are also empty. The 'MTU' is set to 'Auto'. The 'MAC Address Clone' field contains the value '00:0C:43:28:80:45', and a dropdown menu next to it is set to '<< MAC Address'.

Click **Save** when you are done.

PPTP

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

PPTP Server IP 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, select **Always on** as the reconnect mode.

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

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 DIR-878 web interface. The 'My Internet Connection is' dropdown is set to 'PPTP'. Below it, there are input fields for 'PPTP Server: IP or Domain name', 'Username:', and 'Password:'. The 'Reconnect Mode' dropdown is set to 'On demand', and the 'Maximum Idle Time' is set to '5 minutes'. There are tabs for 'VLAN' and 'IPv6', and a 'Save' button. A link for 'Advanced Settings...' is visible at the bottom right.

This screenshot shows the 'Dynamic IP' configuration options. The 'Address Mode' dropdown is set to 'Dynamic IP'. Below it are input fields for 'Primary DNS Server:' and 'Secondary DNS Server:'. The 'MTU' dropdown is set to 'Auto'.

PPTP (continued)

Static IP

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

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

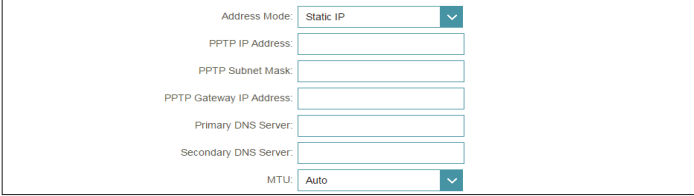
PPTP Gateway IP Address: Enter the gateway IP address provided by your ISP.

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.

Click **Save** when you are done.



The screenshot shows a configuration form for PPTP. It includes a dropdown menu for 'Address Mode' set to 'Static IP', and input fields for 'PPTP IP Address', 'PPTP Subnet Mask', 'PPTP Gateway IP Address', 'Primary DNS Server', and 'Secondary DNS Server'. At the bottom, there is an 'MTU' dropdown menu set to 'Auto'.

L2TP

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

L2TP Server: 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, select **Always on** as the reconnect mode.

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

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. At the top, there is a globe icon and the title 'Internet'. Below the title is a note: 'Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP 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 note are tabs for 'Settings >> Internet', 'VLAN', 'IPv6', and a 'Save' button. The 'My Internet Connection is:' dropdown is set to 'L2TP'. Below this are fields for 'L2TP Server: IP or Domain name', 'Username:', and 'Password:'. The 'Reconnect Mode:' dropdown is set to 'On demand', and the 'Maximum Idle Time:' is set to '5 minutes'. A link for 'Advanced Settings...' is at the bottom right.

The screenshot shows the 'Advanced Settings' section for Dynamic IP. It includes a dropdown for 'Address Mode:' set to 'Dynamic IP', input fields for 'Primary DNS Server:' and 'Secondary DNS Server:', and a dropdown for 'MTU:' set to 'Auto'.

L2TP (continued)

Static IP

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

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

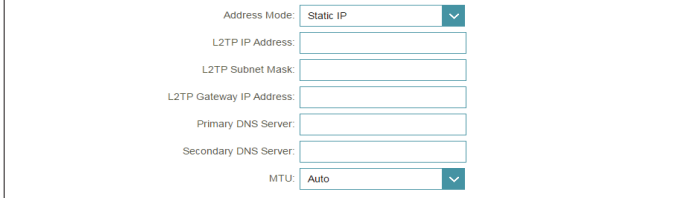
L2TP Gateway IP Address: Enter the gateway IP address provided by your ISP.

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.

Click **Save** when you are done.



The screenshot shows a configuration window with the following fields and values:

- Address Mode: Static IP (dropdown menu)
- L2TP IP Address: (empty text box)
- L2TP Subnet Mask: (empty text box)
- L2TP Gateway IP Address: (empty text box)
- Primary DNS Server: (empty text box)
- Secondary DNS Server: (empty text box)
- MTU: Auto (dropdown menu)

DS-Lite

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

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

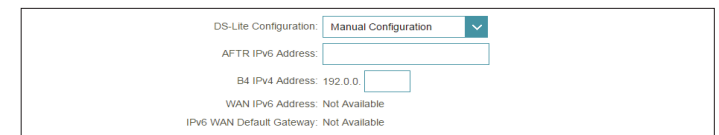
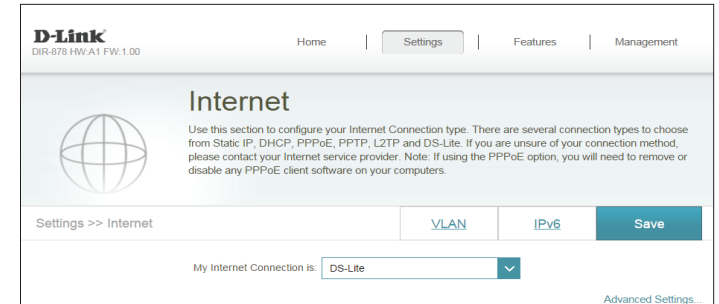
AFTR IPv6 Address: Enter the AFTR IPv6 address used here.

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

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

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

Click **Save** when you are done.



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 expand the list and see all of the options.

For **Auto Detection** refer to page **36**.

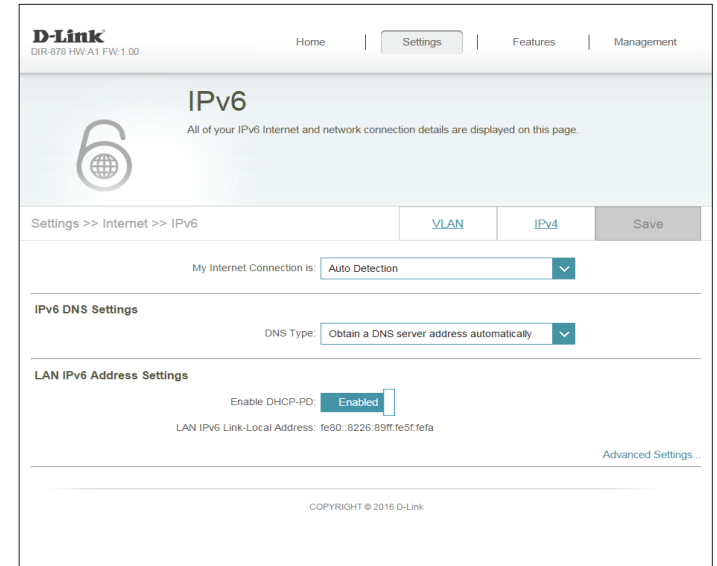
For **Static IPv6** refer to page **38**.

For **Auto Configuration (SLAAC/DHCPv6)** refer to page **40**.

For **PPPoE** refer to page **43**.

For **6rd** refer to page **47**.

For **Local Connectivity Only** refer to page **49**.



Auto Detection

Select **Auto Detection** to automatically detect the IPv6 connection method used by your Internet Service Provider (ISP). If Auto Detection fails, you 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: If you selected **Use the following DNS address** above, enter the primary DNS server address.

Secondary DNS Server: If you selected **Use the following DNS address** above, enter the secondary DNS server address.

LAN IPv6 Address Settings

Enable DHCP-PD: Enable or disable DHCP Prefix Delegation.

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

If **Enable DHCP-PD** is disabled, these additional parameters are available for configuration:

LAN IPv6 Address: Enter a valid LAN IPv6 address.

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

D-Link
DIR-878 HW:A1 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

VLAN IPv4 Save

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

Enable DHCP-PD: Enabled

LAN IPv6 Link-Local Address: fe80::8226:89ff:fe8f:fe8a

[Advanced Settings](#)

LAN IPv6 Address Settings

Enable DHCP-PD: Disabled

LAN IPv6 Address: ::/64

LAN IPv6 Link-Local Address: fe80::8226:89ff:fe8f:fe8a

[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 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.

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: 60 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: 60 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): ffff: 00 1

IPv6 Address Range (End): ffff: 00 99

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 interface. At the top, there are navigation links for Home, Settings, Features, and Management. The main heading is 'IPv6' with a sub-message: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below this, there are tabs for 'VLAN', 'IPv4', and 'Save'. The 'My Internet Connection is:' dropdown is set to 'Static IPv6'. The 'Use Link-Local Address:' toggle is set to 'Enabled'. The 'IPv6 Address:' field contains 'fe80::8226:89ff:fe5f:fe5f'. The 'Subnet Prefix Length:' field is set to '64'. The 'Default Gateway:', 'Primary DNS Server:', and 'Secondary DNS Server:' fields are empty.

This screenshot shows the same configuration page but with 'Use Link-Local Address:' set to 'Disabled'. The 'IPv6 Address:' field now has a red border and a red error message below it: 'Please enter a valid IPv6 address. (e.g. 2001::1)'. The other fields remain the same as in the previous screenshot.

This screenshot shows the 'LAN IPv6 Address Settings' section. It contains two input fields: 'LAN IPv6 Address:' followed by a text box and '/64', and 'LAN IPv6 Link-Local Address:' followed by a text box containing 'fe80::8226:89ff:fe5f:fe5f'. A link for 'Advanced Settings...' is located at the bottom right of the 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 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: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff: 00

IPv6 Address Range (End): ffff: 00

IPv6 Address Lifetime: 10080 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 Link-Local Address: Displays the router's LAN link-local address.

If **Enable DHCP-PD** is disabled, these additional parameters are available for configuration:

LAN IPv6 Address: Enter a valid LAN IPv6 address.

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

The screenshot shows the D-Link IPv6 settings page. At the top, there are navigation links for Home, Settings, Features, and Management. The main heading is 'IPv6' with a subtext: 'All of your IPv6 Internet and network connection details are displayed on this page.' Below this, there are tabs for 'VLAN' and 'IPv4', and a 'Save' button. A breadcrumb trail reads 'Settings >> Internet >> IPv6'. The 'My Internet Connection is:' dropdown menu is set to 'Auto Configuration (SLAAC/DHCPv6)'.

This screenshot shows the 'IPv6 DNS Settings' section. The 'DNS Type:' dropdown menu is set to 'Obtain a DNS server address automatically'.

This screenshot shows the 'IPv6 DNS Settings' section with 'DNS Type:' set to 'Use the following DNS address'. Below this, there are two input fields: 'Primary DNS Server:' and 'Secondary DNS Server:'.

This screenshot shows the 'LAN IPv6 Address Settings' section. The 'Enable DHCP-PD:' toggle is set to 'Enabled'. Below it, the 'LAN IPv6 Link-Local Address:' is displayed as 'fe80::8226:89ff:fe5f:fe5a'.

This screenshot shows the 'LAN IPv6 Address Settings' section with 'Enable DHCP-PD:' set to 'Disabled'. Below this, there are two additional configuration fields: 'LAN IPv6 Address:' (with a '/64' suffix) and 'LAN IPv6 Link-Local Address:' (displayed as 'fe80::8226:89ff:fe5f:fe5a').

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 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 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.

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): ffff: 00

IPv6 Address Range (End): ffff: 00

Auto Configuration (SLAAC/DHCPv6) (continued)

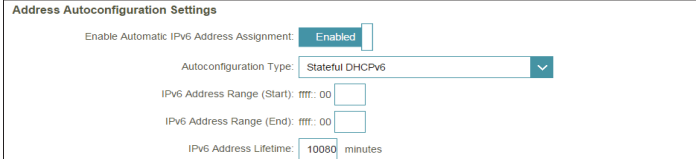
If DHCP-PD is disabled in LAN IPv6 Address Settings:

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.



The screenshot shows the 'Address Autoconfiguration Settings' window. It contains the following fields and controls:

- 'Enable Automatic IPv6 Address Assignment': A toggle switch set to 'Enabled'.
- 'Autoconfiguration Type': A dropdown menu set to 'Stateful DHCPv6'.
- 'IPv6 Address Range (Start) ffff: 00': An empty text input field.
- 'IPv6 Address Range (End) ffff: 00': An empty text input field.
- 'IPv6 Address Lifetime: 10080 minutes': A text input field containing the value '10080'.

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 re-use your IPv4 PPPoE username and password, or **Create a new session**.

MTU

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

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

If you selected **Static IP** as the Address Mode and **Share with IPv4** as the PPPoE Session:

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

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

If you selected **Create a new session** as the PPPoE Session:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Address Mode: Select either **Dynamic IP** or **Static IP**.

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

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

PPPoE (continued)

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

If you selected **Static IP** as the Address Mode and **Create a new session** as the PPPoE Session:

IP Address Enter the IP address provided by your ISP

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.

Address Mode: ▼
 IP Address:
 Service Name:
 Reconnect Mode: ▼
 MTU: bytes

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.

IPv6 DNS Settings
 DNS Type: ▼

IPv6 DNS Settings
 DNS Type: ▼
 Primary DNS Server:
 Secondary DNS Server:

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 Settings
 Enable DHCP-PD:
 LAN IPv6 Link-Local Address: fe80::b226:89ff:fe5f:fe6a
[Advanced Settings...](#)

PPPoE (continued)

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

If **Enable DHCP-PD** is disabled these additional parameters are available for configuration:

LAN IPv6 Address: If DHCP-PD 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.

Advanced Settings - Address Autoconfiguration Settings

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

If **DHCP-PD** is 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 advertisement lifetime (in minutes).

PPPoE (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.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Enable Automatic DHCP-PD in LAN: Enabled

Autoconfiguration Type: ▼

IPv6 Address Range (Start): ffff: 00 1

IPv6 Address Range (End): ffff: 00 99

If **DHCP-PD** is disabled in LAN IPv6 Address Settings:

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.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: ▼

IPv6 Address Range (Start): ffff: 00

IPv6 Address Range (End): ffff: 00

IPv6 Address Lifetime: minutes

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

Click **Save** when you are done.

6rd

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

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**

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**.

Router Advertisement Lifetime: Enter the router 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: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff: 00

IPv6 Address Range (End): ffff: 00

IPv6 Address Lifetime: 10800 minutes

Local Connectivity Only

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

Advanced Settings

IPv6 ULA Settings

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

Use Default ULA Prefix: Enable this option to use the default ULA prefix.

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.

The screenshot shows the D-Link IPv6 settings page. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. Below this, the page title is 'IPv6' with a sub-header 'All of your IPv6 Internet and network connection details are displayed on this page.' There is a 'Settings >> Internet >> IPv6' breadcrumb trail. A dropdown menu for 'My Internet Connection is:' is set to 'Local Connectivity Only'. There are 'VLAN', 'IPv4', and 'Save' buttons. An 'Advanced Settings' link is at the bottom right.

This section shows the 'IPv6 ULA Settings' with two toggle switches: 'Enable ULA' is set to 'Enabled' and 'Use Default ULA Prefix' is also set to 'Enabled'.

This section shows the 'IPv6 ULA Settings' with 'Enable ULA' set to 'Enabled' and 'Use Default ULA Prefix' set to 'Disabled'. The 'ULA Prefix' field contains '/64'.

This section shows the 'Current IPv6 ULA Settings' with the following information: 'Current ULA Prefix: Not Available' and 'LAN IPv6 ULA: Not Available'.

VLAN

VLAN allows for services such as Triple-Play, and divides a network into segments that can only be accessed by other devices in the same VLAN.

In the Settings menu on the bar on the top of the page, click **Internet**, then click the **VLAN** link.

Triple-Play

Status: Click to enable or disable the Triple-Play VLAN feature.

Priority ID: Enable or disable traffic priority ID for the Internet, IPTV, and VOIP VLANs. Higher priority ID traffic takes precedence over traffic with a low priority ID tag.

If **Status** is enabled:

Internet VLAN ID Enter the VLAN ID for your Internet connection as provided by your ISP.

IPTV VLAN ID Enter the VLAN ID for your digital cable as provided by your ISP.

VOIP VLAN ID: Enter the VLAN ID for your Voice over IP network as provided by your ISP.

If **Priority ID** is enabled:

Priority ID: Select a priority ID from the drop-down menu to assign to the corresponding VLAN.

D-Link
DIR-878 HW-A1 FW:1.00

Home | Settings | Features | Management

Internet

A Triple-Play (VLAN) is a switched network that is logically segmented by function, project team, or application, without regard to the physical location of the users. You can configure which hardware port will be assigned to a VLAN, and all packets from a network device in a VLAN will only be forwarded to other devices in the same VLAN.

Settings >> Internet >> VLAN

IPv6 | IPv4 | Save

Triple-Play

Status: Enabled

Priority ID: Enabled

Internet VLAN ID:

IPTV VLAN ID:

VOIP VLAN ID:

Priority ID: 0

Priority ID: 0

Priority ID: 0

Interface Traffic Type Setting

LAN Port 1: Internet

LAN Port 2: Internet

LAN Port 3: Internet

Interface Traffic Type Setting

LAN 1-4, Wireless, Guest Zone: From the drop-down menu, you can select the type of data (Internet, digital cable, or Voice over IP) coming from the WAN connection to each interface on the DIR-878.

Click **Save** when you are done.

Interface Traffic Type Setting	
LAN Port1	Internet
LAN Port2	Internet
LAN Port3	Internet
LAN Port4	Internet
Wireless	Internet
Wireless Guest Zone	Internet

Wireless

From this page you can configure your wireless network settings.

Smart Connect

Smart Connect: Enable or disable the Smart Connect Feature. When enabled, only a few configuration options are available to simplify configuration.

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

Password: Create a WiFi password. Wireless clients will need to enter this password to successfully connect to the network.

Advanced Settings

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

Transmission Power: Select the desired wireless transmission power.

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **72** 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.

D-Link
DIR-878 HW:A1 FW:1.00

Home | Settings | Features | Management

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
Status: Enabled

Wireless
Status: Enabled
Wi-Fi Name (SSID):
Password:

[Advanced Settings...](#)

Security Mode: ▼

Transmission Power: ▼

Schedule: ▼

Wi-Fi Protected Setup

WPS-PBC Status: Enabled

WPS-PIN Status: Enabled

Wireless - Smart Connect Disabled

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

2.4GHz / 5GHz

Status: Enable or disable the 2.4 GHz / 5 GHz wireless network.

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

Password: Create a WiFi password.

Advanced Settings

Security Mode: Choose **None** 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.

The screenshot displays the 'Smart Connect' configuration page. At the top, the 'Smart Connect' status is set to 'Disabled'. Below this, there are two sections: '2.4GHz' and '5GHz'. Each section has a 'Status' dropdown (set to 'Enabled' for 2.4GHz and 'Disabled' for 5GHz), a 'Wi-Fi Name (SSID)' text field, and a 'Password' text field. An 'Advanced Settings...' link is present to the right of each section. The '2.4GHz' section includes dropdowns for 'Security Mode' (None), '802.11 Mode' (Mixed 802.11b/g/n), 'Wi-Fi Channel' (6), 'Transmission Power' (High), 'Channel Width' (Auto 20/40 MHz), 'HT20/40 Coexistence' (Disabled), 'Visibility Status' (Visible), and 'Schedule' (Always Enable). The '5GHz' section includes dropdowns for 'Security Mode' (None), '802.11 Mode' (Mixed 802.11a/n/ac), 'Wi-Fi Channel' (Auto), 'Transmission Power' (High), 'Channel Width' (Auto 20/40/80 MHz), 'Visibility Status' (Visible), and 'Schedule' (Always Enable).

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 the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **72** for more information.

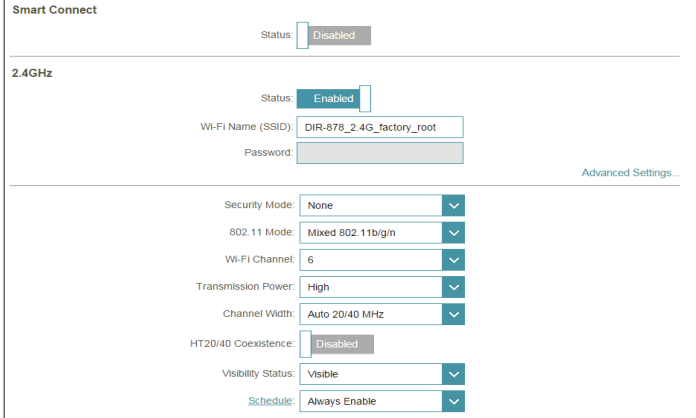
Wi-Fi Protected Setup

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.



Smart Connect

Status: Disabled

2.4GHz

Status: Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

Security Mode:

802.11 Mode:

Wi-Fi Channel:

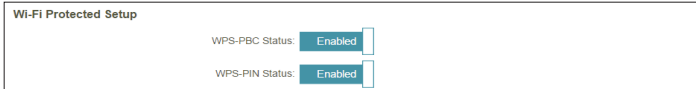
Transmission Power:

Channel Width:

HT20/40 Coexistence: Disabled

Visibility Status:

Schedule:



Wi-Fi Protected Setup

WPS-PBC Status: Enabled

WPS-PIN Status: Enabled

Guest Zone

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

In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link. The **Guest Zone** is disabled by default.

Note: If **Smart Connect** is enabled, then the 2.4 GHz and 5 GHz wireless bands can not be separately adjusted.

2.4 GHz / 5 GHz

Status: Enable or disable the 2.4 GHz / 5 GHz wireless network.

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

Password: Create a WiFi password.

Home Network Access

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

Click **Save** when you are done.

Settings>>Wireless>>Guest Zone Wi-Fi Save

Wireless

Status: Disabled

Wi-Fi Name (SSID):

Password:

Schedule:

Guest Zone

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.

Settings>>Wireless>>Guest Zone Wi-Fi Save

2.4GHz

Status: Enabled

Wi-Fi Name (SSID):

Password:

Schedule:

5GHz

Status: Enabled

Wi-Fi Name (SSID):

Password:

Schedule:

Home Network Access

Internet Access Only: 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.

The screenshot shows the D-Link web interface for network configuration. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' menu is active. Below the navigation bar, the page title is 'Network'. A sub-header reads: '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. We recommend you change the management link if there are more than one D-Link devices within the network.' Below this, there is a 'Save' button. The main section is titled 'Network Settings' and contains 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 (checkbox checked)

 At the bottom right of the form area, there is a link for 'Advanced Settings...'.

Network (continued)

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. This is enabled by default.

IPv6 Multicast Stream: Enable to allow IPv6 multicast traffic to pass through the router from the Internet. This is enabled by default.

Click **Save** when you are done.

DHCP Server

Status: Enabled

DHCP IP Address Range: 192.168.0.100 to 192.168.0.199

DHCP Lease Time: 10080 minutes

Always Broadcast: Disabled
(compatibility for some DHCP Clients)

Advanced Settings

WAN Port Speed:

UPnP: Disabled

IPv4 Multicast Streams: Disabled

IPv6 Multicast Streams: Disabled

Advanced Settings

WAN Port Speed:

UPnP: Enabled

IPv4 Multicast Streams: Enabled

IPv6 Multicast Streams: Enabled

Features

QoS Engine

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

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

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

A maximum of **one** device can be assigned **Highest** priority.

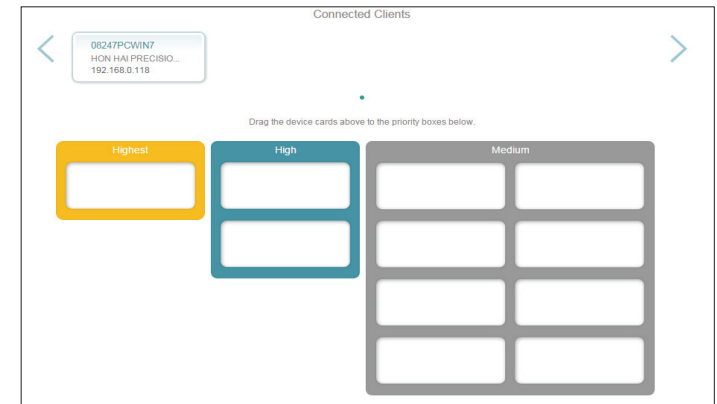
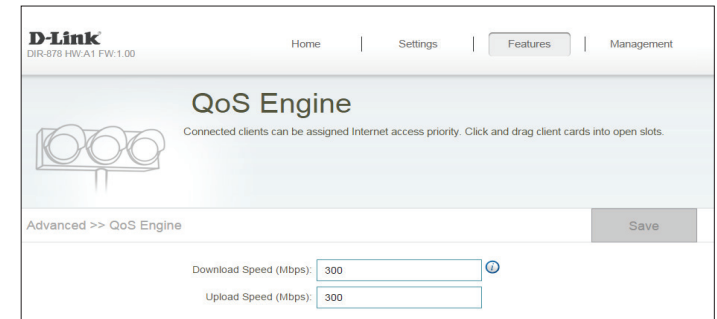
A maximum of **two** devices can be assigned **High** priority.

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

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

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

Click **Save** when you are done.



Firewall Settings

The router's firewall better 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 Demilitarized Zone (DMZ). This completely exposes the client to threats over the Internet, and is not recommended in ordinary situations.

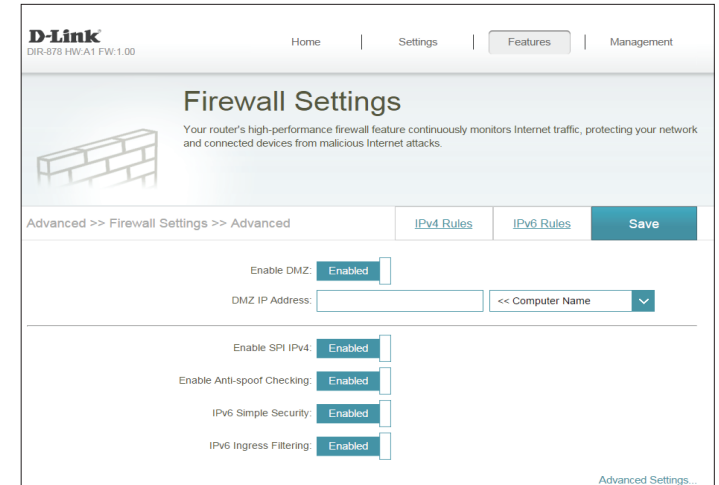
DMZ IP Address: If you enabled DMZ, enter the IP address of the client you wish to expose, or use the drop-down menu to quickly select it.

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

Enable Anti-Spoof Checking: Enable this feature to better 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.



Firewall Settings (continued)

Advanced Settings - Application Level Gateway (ALG) Configuration

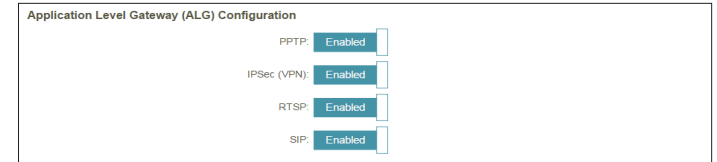
PPTP: Allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.

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

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

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

Click **Save** when you are done.



IPv4/IPv6 Rules

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

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

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

Name: Enter a name for the rule.

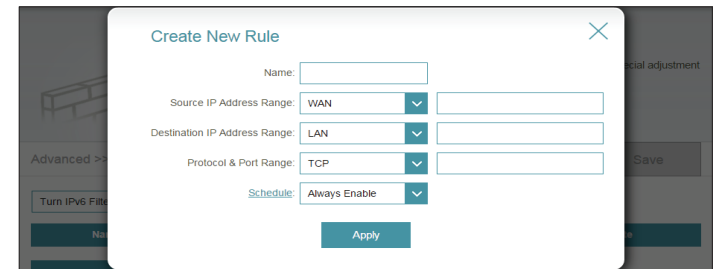
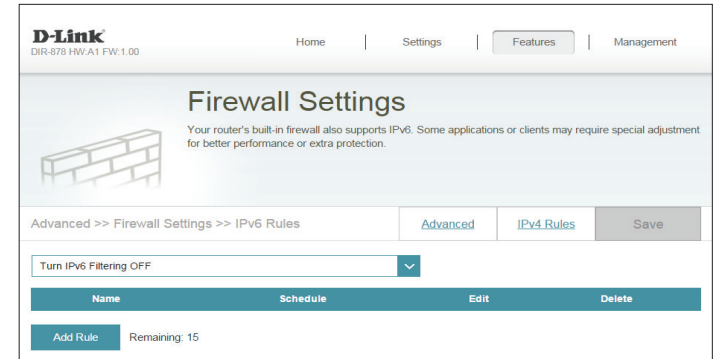
Source IP Address Range: Enter the source IP address range that the rule will apply to, and using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

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.

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

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to Refer to **Schedule** on page **72** for more information.

Click **Save** when you are done.



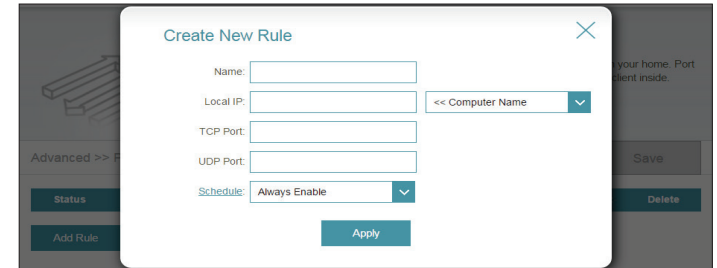
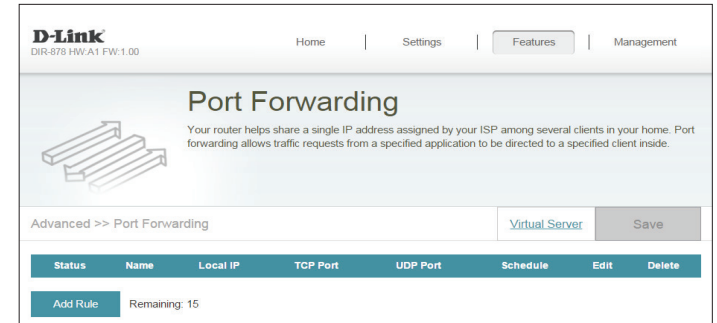
Port Forwarding

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 Rule** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

- Name:** Enter a name for the rule.
- Local IP:** Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- TCP Port:** Enter the TCP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- UDP Port:** Enter the UDP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- Schedule:** Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **72** for more information.

Click **Save** when you are done.



Virtual Server

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

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

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

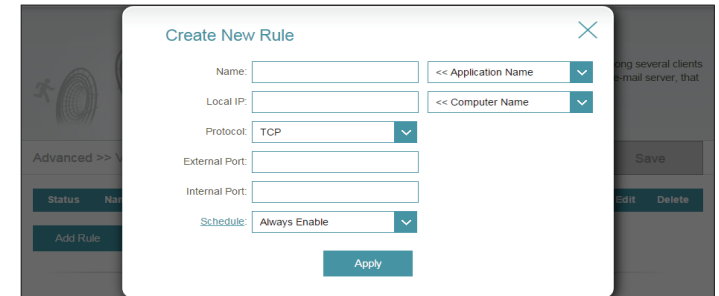
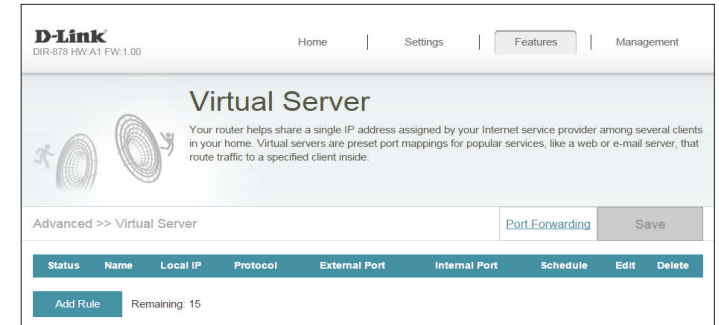
Protocol Number: If you entered **Other** above, enter the protocol number.

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 the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **72** for more information.

Click **Save** when you are done.



Website Filter

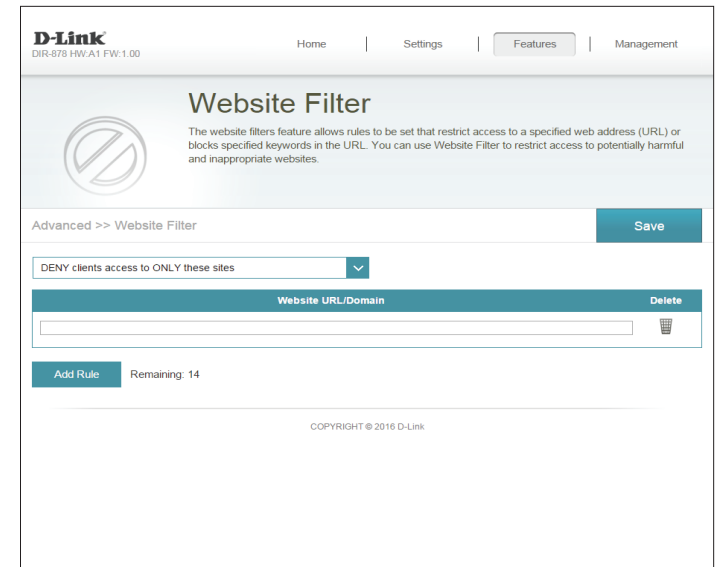
The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked). Note only HTTP websites will be block. HTTPS sites being encrypted cannot be blocked by the router.

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

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

Click **Save** when you are done.



Static Routes

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 **66**. To return to the main IPv4 static routes page, click **IPv4**.

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

Name: Enter a name for the rule.

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

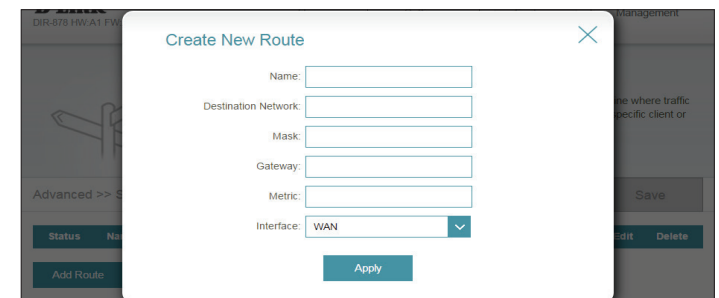
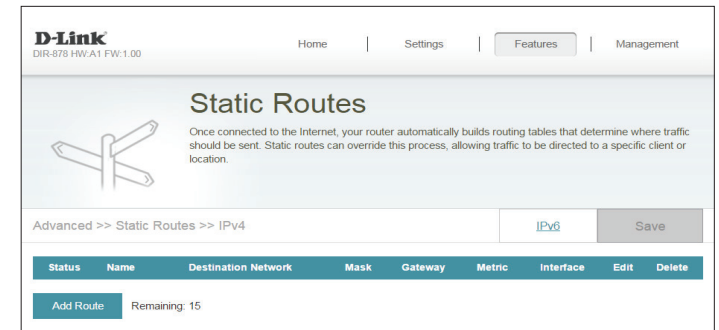
Mask: Enter the subnet mask of the route.

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 of 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.



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:

Name: Enter a name for the rule.

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

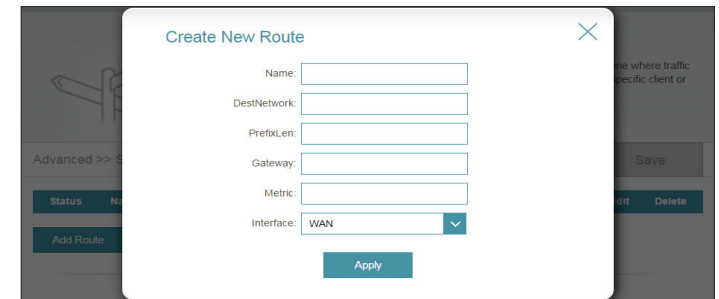
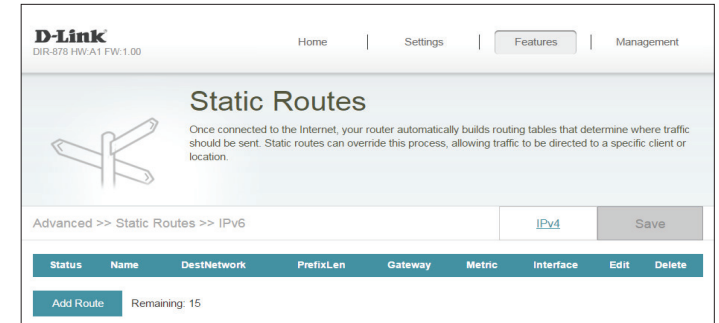
PrefixLen: Enter the IPv6 address prefix length of the packets that will take this route.

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.



Dynamic DNS

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

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

Enable Dynamic DNS: Enable or disable dynamic DNS. Enabling this feature will reveal further configuration options.

Status: Displays the current dynamic DNS connection status.

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

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

User Name: Enter your dynamic DNS username.

Password: Enter your dynamic DNS password.

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

Click **Save** when you are done.

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to **IPv6 Host** on page **68**.

The screenshot shows the D-Link Dynamic DNS configuration interface. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Dynamic DNS'. Below it, a brief description explains the service. The configuration area includes a 'Save' button in the top right. The 'Enable Dynamic DNS' checkbox is checked. The status is 'Disconnected'. The 'Server Address' is set to 'dlinkdns.com'. The 'Host Name', 'User Name', and 'Password' fields are empty. The 'Time Out' is set to 24 hours. Below the form is a table with columns for Status, Host Name, IPv6 Address, Edit, and Delete. An 'Add Record' button is visible at the bottom left of the table area, with 'Remaining: 10' next to it.

IPv6 Host

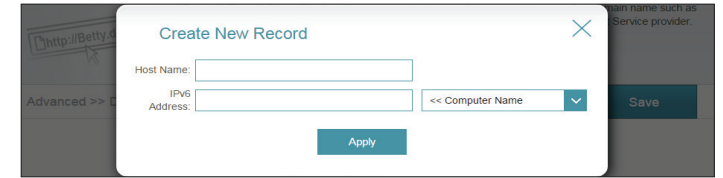
The IPv6 host settings are found at the bottom of the Dynamic DNS page.

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:

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.



The screenshot shows a 'Create New Record' dialog box with the following fields and controls:

- Host Name:** A text input field.
- IPv6 Address:** A text input field.
- Server Device:** A drop-down menu currently showing '<< Computer Name'.
- Buttons:** 'Apply' and 'Save' buttons.

Quick VPN

This page will help you configure the Quick VPN feature of your router. For more information refer to **Quick VPN** on page **81**. 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.

In the Features menu on the bar on the top of the page, click **Quick VPN**.

Configure the following options:

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

If **Quick VPN** is enabled, the following options are available:

Username: Enter a username between 1 and 20 characters.

Password Enter a username between 1 and 20 characters.

PSK Enter a passkey between 6 and 64 characters.

D-Link
DIR-878 HW:V1 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

User Save

General

L2TP over IPsec: Enabled

Username:

Password:

PSK:

[Advanced Settings](#)

Quick VPN (continued)

Advanced Settings - Address Autoconfiguration Settings

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.

Advanced

Authentication Protocol: MSCHAPv2

MPPE: RC4-40

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 and the Network Time Protocol (NTP) server.

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.

Automatic Time Configuration

Using an NTP Server: Select from the drop-down menu to either use the D-Link NTP Server to synchronize the time and date for your router, or choose Manual to set the NTP server's IP address.

Click **Save** when you are done.

The screenshot shows the 'Time' configuration page. At the top, there is a clock icon and a title 'Time'. Below the title is a descriptive paragraph: 'Your device's internal clock is used for time sensitive applications, such as firmware online checking, data logging and schedules for features. The date and time can be synchronized with a public time server through the Internet, or it can be configured manually here.' Below this is a navigation bar with 'Management>>Time' and buttons for 'Schedule' and 'Save'. The main content area is divided into two sections: 'Time Configuration' and 'Automatic Time Configuration'. In the 'Time Configuration' section, there is a 'Time Zone' dropdown menu set to 'Asia/Taipei' and a 'Time' field displaying '2018/10/02 10:20:33 AM'. In the 'Automatic Time Configuration' section, there is an 'NTP Server' dropdown menu set to 'D-Link NTP Server'.

This screenshot shows the 'Automatic Time Configuration' section of the router's management interface. It features an 'NTP Server' dropdown menu currently set to 'D-Link NTP Server'. The dropdown menu is open, showing three options: 'D-Link NTP Server', 'D-Link NTP Server', and 'Manual'. Below the dropdown menu, there is a copyright notice: 'COPYRIGHT © 2016 D-Link'.

This screenshot shows the 'Automatic Time Configuration' section of the router's management interface. The 'NTP Server' dropdown menu is now set to 'Manual'. Below the dropdown menu, there is a text input field for the NTP server's IP address, which is currently empty and has a red border. Below the input field, there is a red error message: 'Please enter an IP address.' Below the input field, there is a copyright notice: 'COPYRIGHT © 2016 D-Link'.

To configure and manage your schedules, click **Schedule** and refer to **Schedule** on page **72**.

Schedule

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

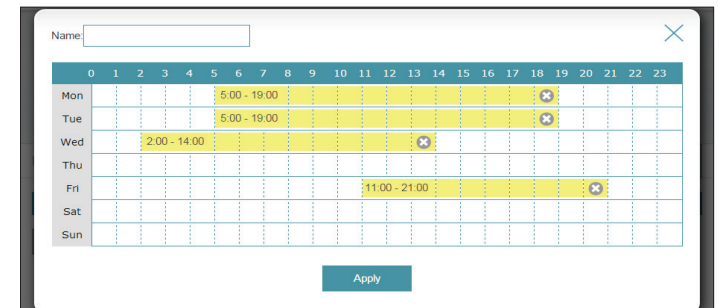
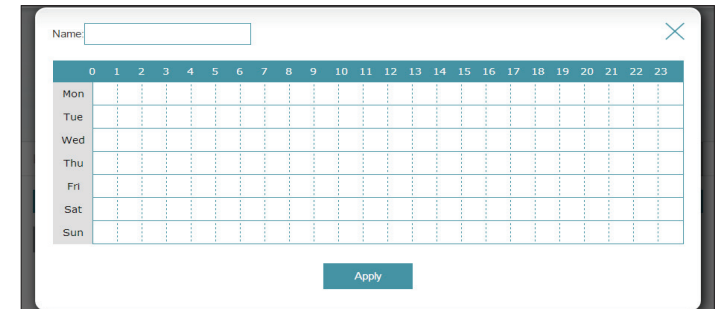
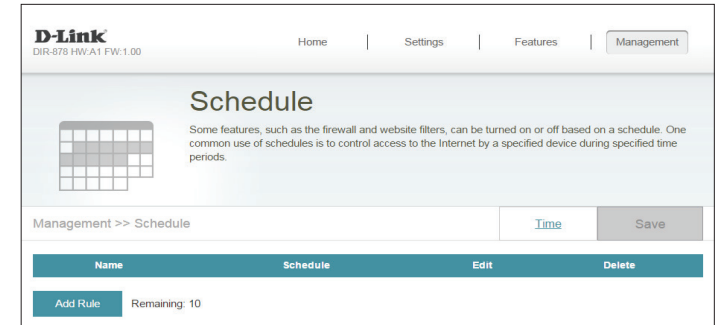
If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following screen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

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 starting hour and drag to the ending hour. You can add multiple days to the schedule, but only one period per day.

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

Click **Save** when you are done.



System Log

The router keeps 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 extender, select it from the drop-down menu to automatically populate the field.

Email Settings

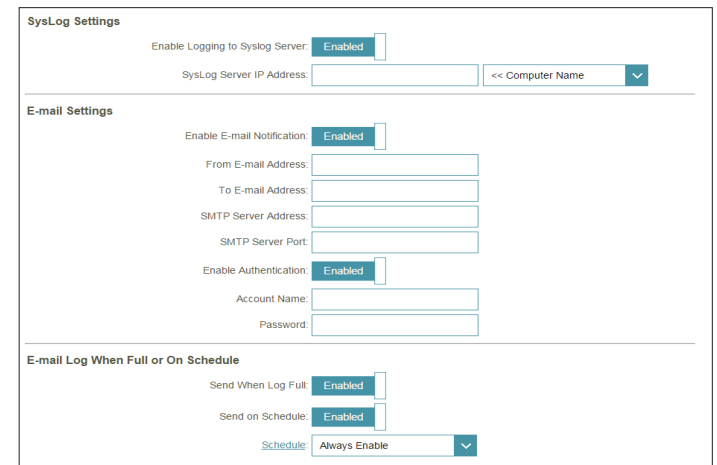
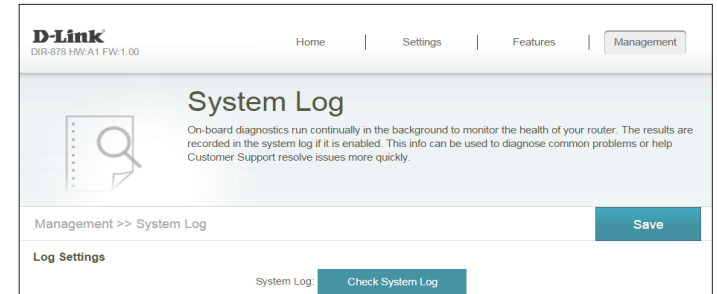
Enable E-mail Notification: Enable this option if you want the logs to be automatically sent to an email address.

If E-mail 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.



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 When Log Full: If enabled, this option will set the router to send the log when it is full.

Send on Schedule: If 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 **72** for more information.

Click **Save** when you are done.

The screenshot shows the configuration interface for System Log settings. It is divided into three main sections:

- SysLog Settings:**
 - Enable Logging to Syslog Server: Enabled
 - SysLog Server IP Address: << Computer Name (dropdown)
- E-mail Settings:**
 - Enable E-mail Notification: Enabled
 - From E-mail Address:
 - To E-mail Address:
 - SMTP Server Address:
 - SMTP Server Port:
 - Enable 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 (dropdown)

System 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 **System Admin**. To load, save, reset settings, or reboot the router, click **System** and refer to **Schedule** on page **72**.

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.

Advanced Settings - Administration

Enable Remote Management: Remote management allows the DIR-878 to be configured from the Internet by a web browser. A password is still required to access the web management interface.

Remote Admin Port: The port number used to access the DIR-878 is used in the URL. Example: **https://x.x.x.x:8081** where x.x.x.x is the Internet IP address of the DIR-878 and 8081 is the port used for the web management interface.

LED Control: Turn on or off to configure the LED status lights.

Click **Save** when you are done.

The screenshot shows the 'Admin' configuration page. At the top, there is a key icon and the text: 'Admin. 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 is a breadcrumb 'Management->Admin' and two buttons: 'System' and 'Save'. The 'Admin Password' section contains a 'Password:' label and a text input field with masked characters. To the right of the input field is a link for 'Advanced Settings...'. The 'Administration' section has two items: 'Enable Remote Management' with a 'Disabled' toggle switch, and 'Remote Admin Port' with a text input field containing '8081'. The 'LED Control' section has a 'Status LED:' label and a toggle switch set to 'On'.

System

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

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

System

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

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

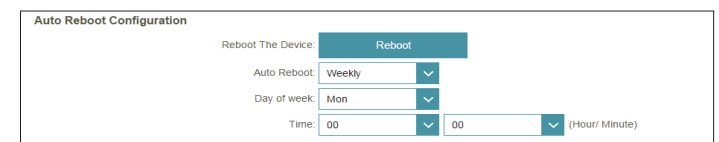
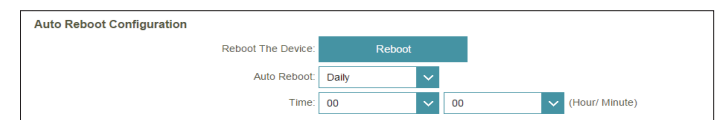
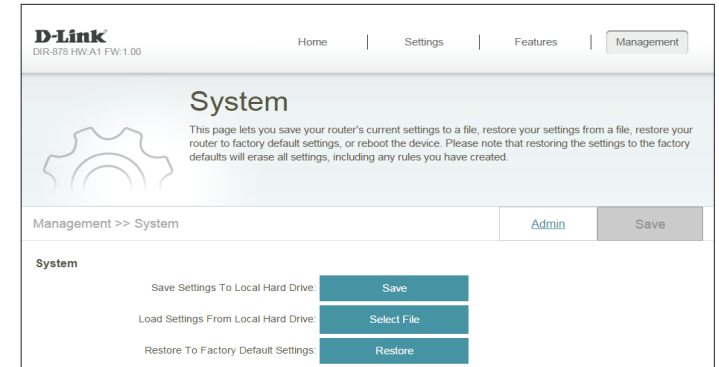
Restore To Factory Default Settings: This option will restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the **Save 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-878 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-878 automatically reboot.

Click **Save** when you are done.



User

The User section is used to create, manage, and delete user accounts with user-defined access to certain router services.

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

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

User Name: Enter a username for the new user account.

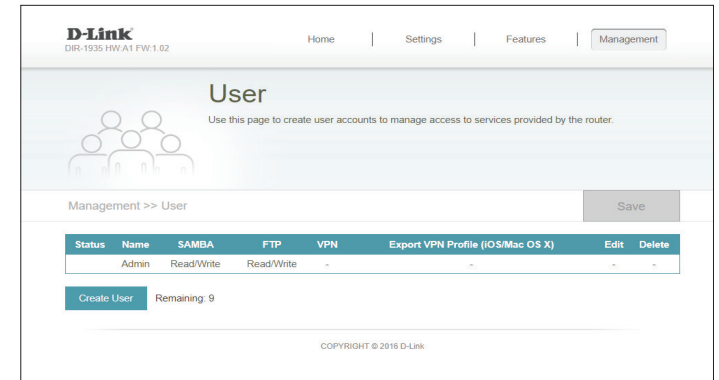
Password: Enter a password for the new user account.

SAMBA

Status: Enable or disable the Windows file sharing function for this user, allowing connected clients access to media files over the network.

Permission: If **SAMBA** is enabled, choose to assign either **Read Only** or **Read/Write** permission.

Folder: Click **Browse** to select the folder you want to share.



User (continued)

FTP

Status: Enable or disable FTP server access for this user.

Permission: If **FTP** is enabled, choose to assign either **Read Only** or **Read/Write** permission.

Folder: Click **Browse** to select the folder you want to share.

VPN

Status: Enable or disable Virtual Private Network (VPN) functionality for this user.

Click **Save** when you are done.

The screenshot shows a 'Create New User' dialog box with the following fields and options:

- User Name:** Text input field.
- Password:** Text input field.
- SAMBA:**
 - Status: Enabled (toggle)
 - Permission: Read Only (dropdown)
 - Folder: root (text input) with a Browse button.
- FTP:**
 - Status: Enabled (toggle)
 - Permission: Read Only (dropdown)
 - Folder: root (text input) with a Browse button.
- VPN:**
 - Status: Enabled (toggle)

An OK button is located at the bottom center of the dialog.

Upgrade

This page will allow you to upgrade the router's firmware, either automatically or manually. To manually upgrade the firmware, 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 Information

Current Firmware Version/Date: The current firmware's version and date will be 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, it will prompt you to install it.

Automatic Firmware Upgrade

Automatic Upgrade: If enabled, the router will automatically check for and upgrade to the newest firmware.

Choose Upgrade Time: You may set the DIR-878 to automatically upgrade its firmware at a set time by enabling the function. Set the hour and minute to automatically upgrade by using the drop-down menus.

Upgrade Manually

Upgrade Firmware: If you wish to upgrade 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.

The screenshot shows the 'Upgrade' configuration page. At the top, there's a 'Management > Upgrade' breadcrumb and a 'Save' button. The main content is divided into three sections: 'Firmware', 'Automatic Firmware Upgrade', and 'Upgrade Manually'. The 'Firmware' section displays the current version as 1.02 and includes a 'Check for New Firmware' button. The 'Automatic Firmware Upgrade' section has a toggle for 'Automatic Upgrade' set to 'Enabled', with a descriptive note about daily updates at 3:30-4:00 AM. Below this, there's a 'Choose Upgrade Time' section with a 'Disabled' toggle and two dropdown menus for 'Upgrade Time' set to '3 AM' and '30'. The 'Upgrade Manually' section features an 'Upgrade Firmware' button with a 'Select File' button next to it.

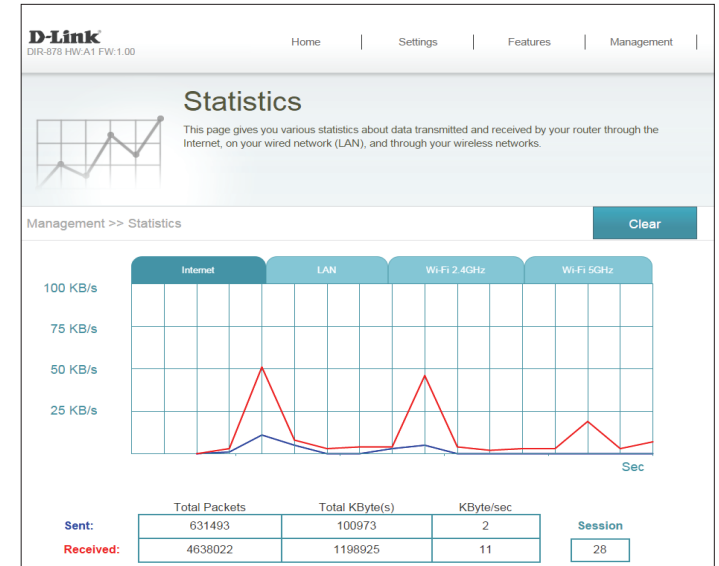
Statistics

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

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

You can view the **Internet**, **LAN**, **Wi-Fi 2.4 GHz**, or **Wi-Fi 5 GHz** 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**.

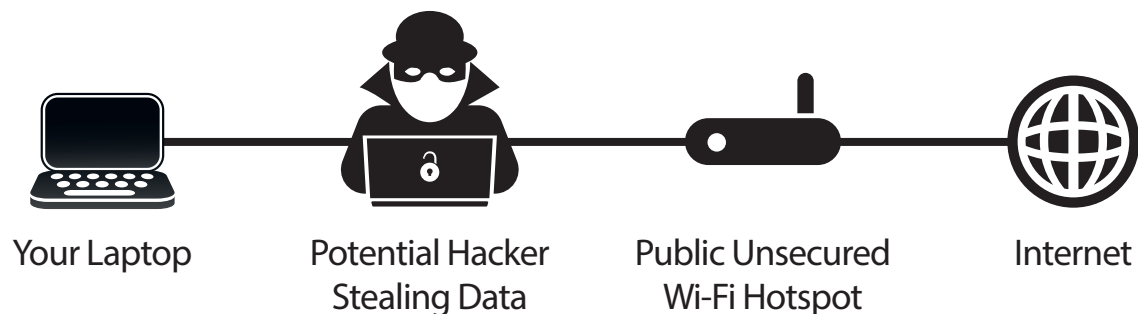
The traffic counter will reset if the device is rebooted.



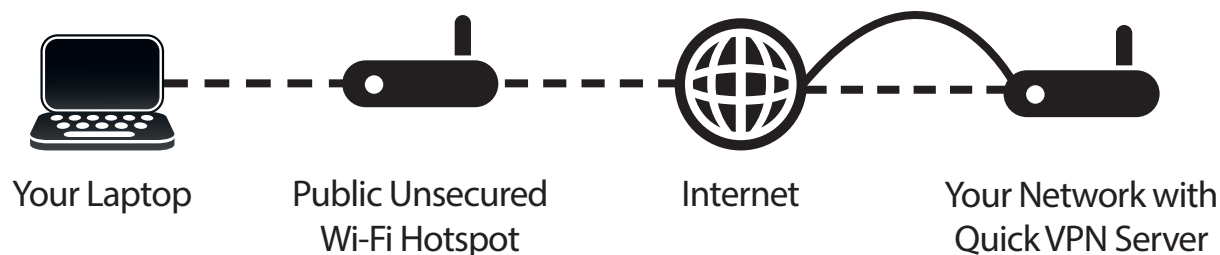
Quick VPN

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 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

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.

In the Features menu on the bar on the top of the page, click **Quick VPN** to 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 20 characters.

Password: Enter a password between 1 and 20 characters.

PSK: Enter a passkey between 6 and 64 characters.

VPN Profile for iOS Device and Mac OS X: Click export to save the VPN profile settings file for iOS devices or Mac OS X.

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

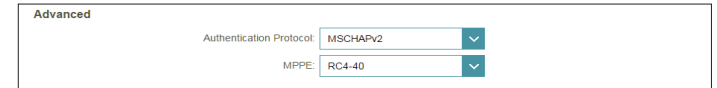
MPPE: Select the encryption cipher strength: **None**, **RC4-40**, or **RC4-128**. **None** is the default.

Quick VPN Setup Instructions (continued)

Advanced Settings - Address Autoconfiguration Settings

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**. **None** is the default.



The screenshot shows a form titled "Advanced" with two dropdown menus. The first dropdown is labeled "Authentication Protocol" and is set to "MSCHAPv2". The second dropdown is labeled "MPPE" and is set to "RC4-40".

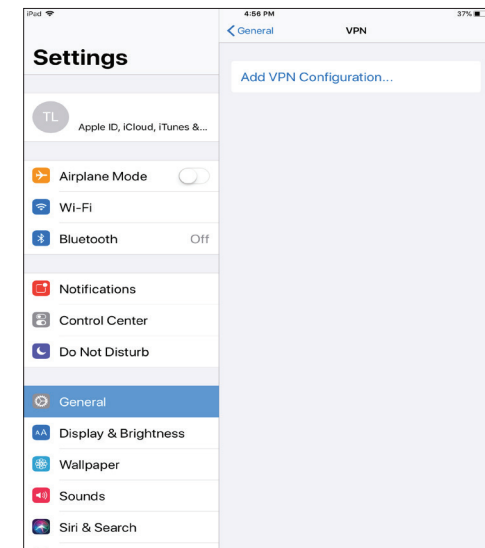
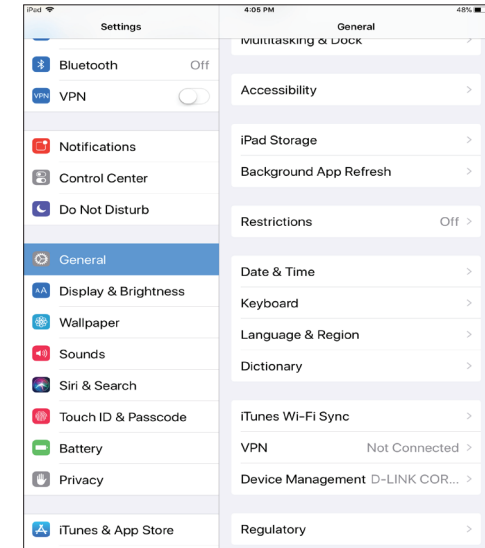
Click **Save** and proceed to client setup pages.

iOS Devices

VPN Setup Instructions

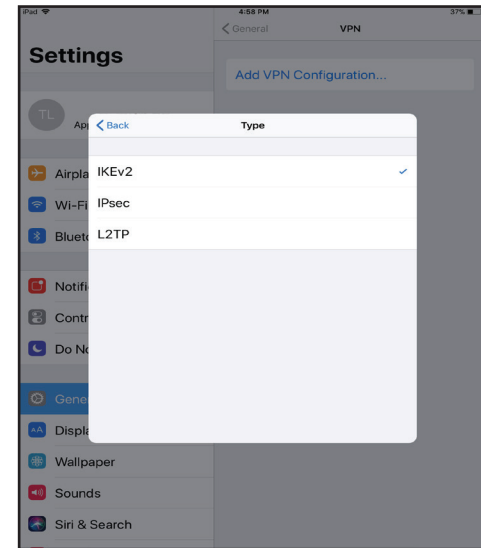
This section provides Quick VPN setup instructions for iOS devices. Refer to **Quick VPN Server Setup Instructions** on page **83** for more information on setting up the router for Quick VPN.

1. Touch Settings on your iPhone or iPad. Scroll to and tap General. Scroll to and tap VPN.
2. Click on Add VPN Configuration... You should see a pop up window asking you to fill out the details of your VPN connection.



VPN Setup Instructions (Continued)

3. Tap Type and choose IPsec. Click Back when done.



4. Fill in Description, Server, Account, Password, and Secret. (Refer to **Quick VPN Server Setup Instructions** on page **83**).

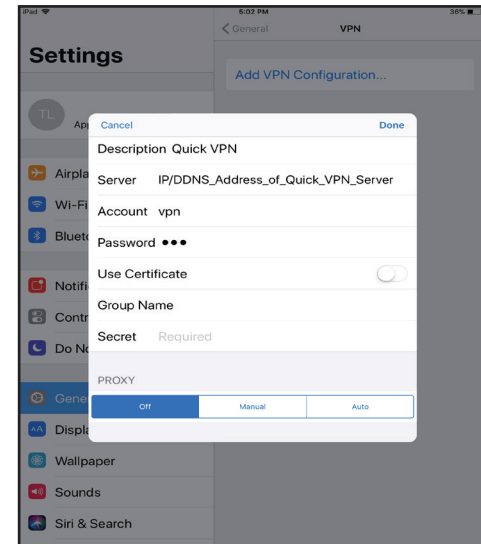
Description: For reference purposes only, used to differentiate between multiple VPN connections.

Server: Enter the **IP/DDNS address** of your Quick VPN server.

Account: Enter the Username used to authenticate login to VPN server

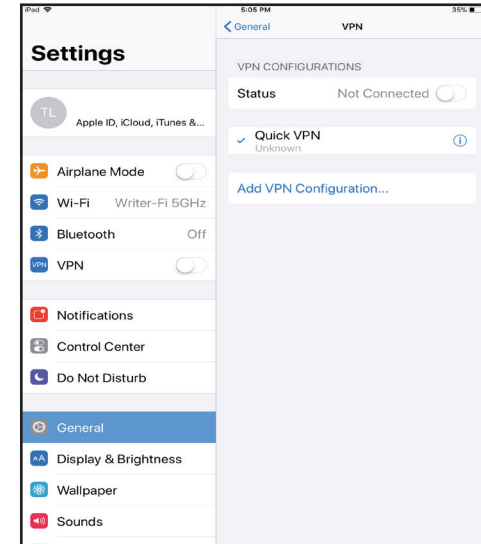
Password: Enter Password used to authenticate login to VPN server

Secret: Enter your **Passkey (PSK)**.



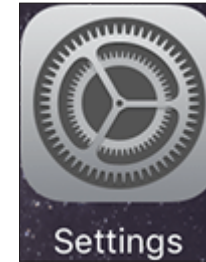
VPN Setup Instructions (Continued)

5. Click Done to save and return to the main VPN Configurations page. Your iOS device is now configured to connect to your Quick VPN server.

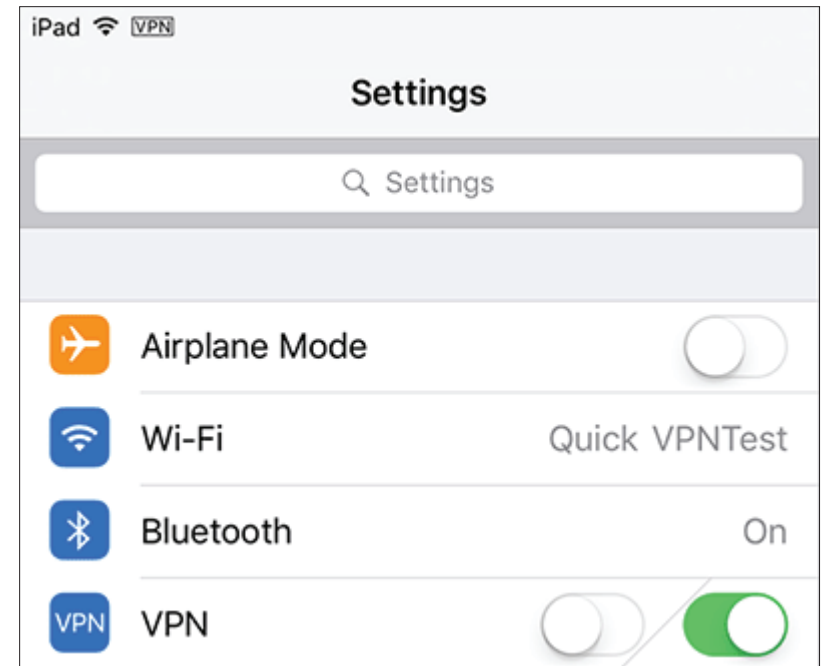


Connect or Disconnect

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

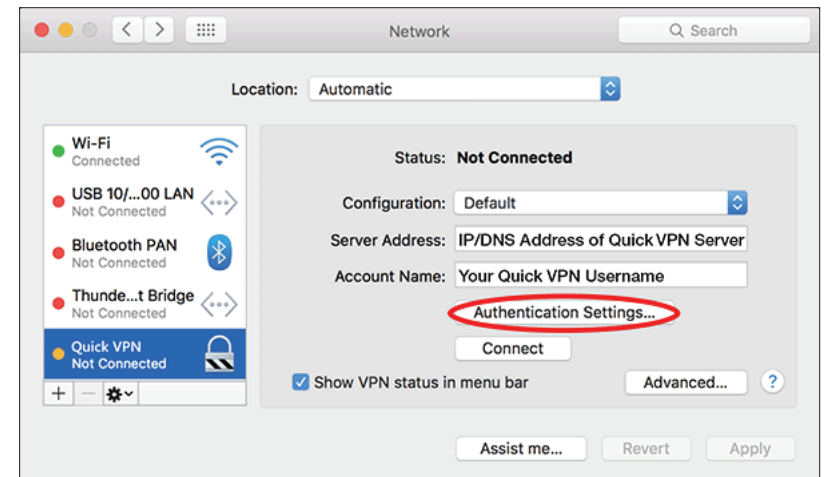
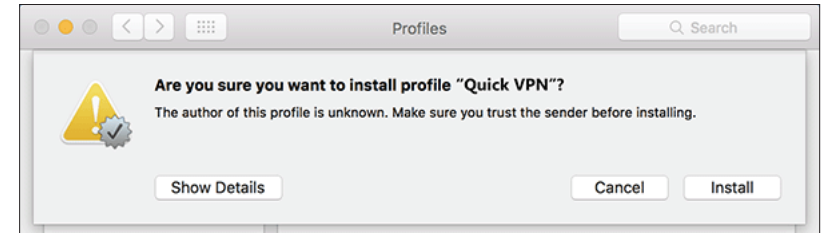
VPN Setup Instructions

This section provides Quick VPN setup instructions for OS X using the **Export** Profile function. Refer to **Quick VPN Server Setup Instructions** on **page 83** for more information.

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

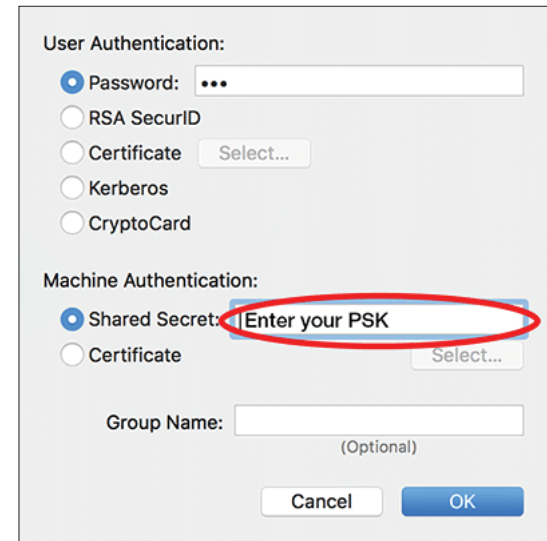
Enter your user account password when prompted. Close the **Profiles** dialog.

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**.



User Authentication:

- Password:
- RSA SecurID
- Certificate
- Kerberos
- CryptoCard


Machine Authentication:

- Shared Secret:
- Certificate

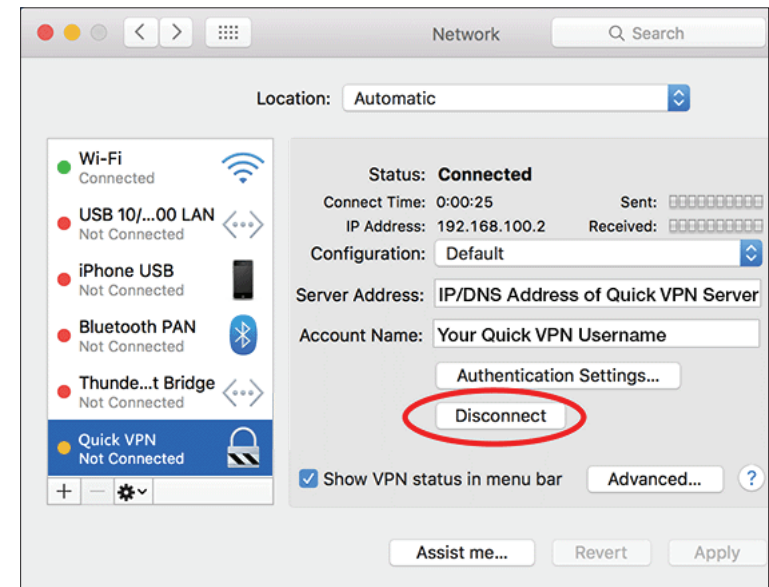
Group Name:
(Optional)

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**.

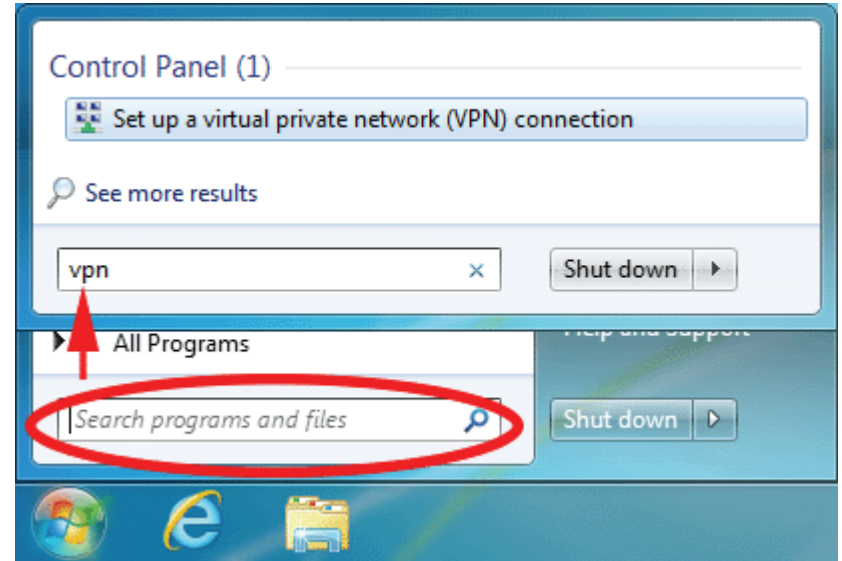
Select the Quick VPN connection and click on the **Connect** or **Disconnect** button.



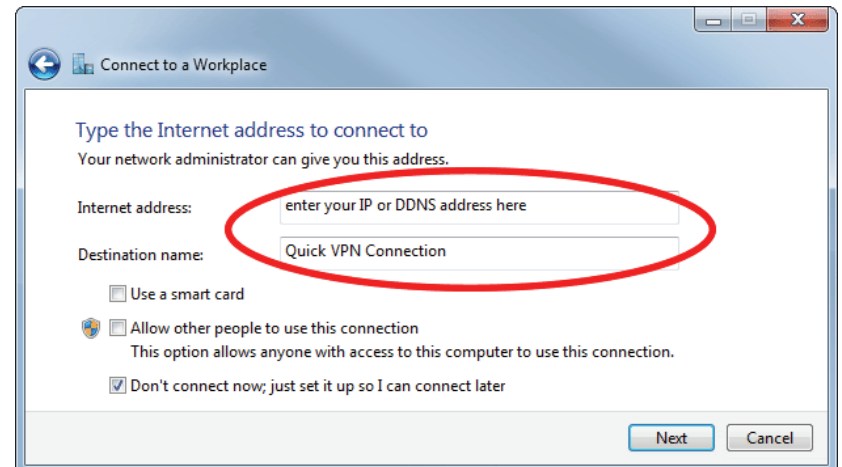
Windows 7 VPN Setup Instructions

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

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

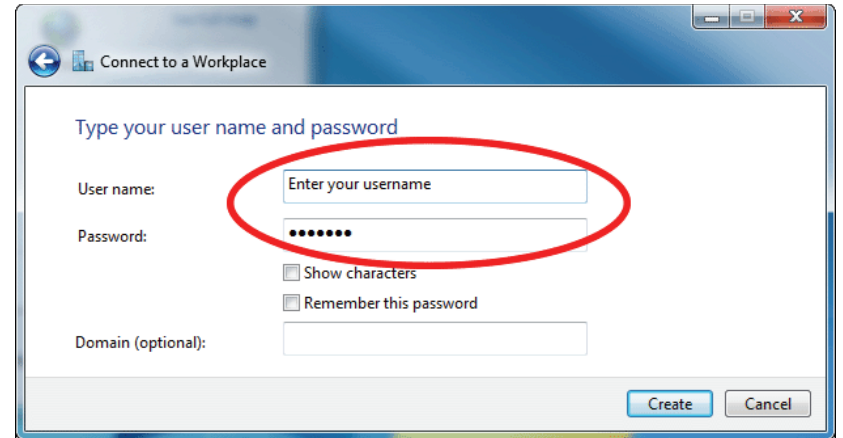


Enter the **IP/DDNS address** of your Quick VPN server in the **Internet address** box, create a name for your connection in the **Destination Name**, check **Don't Connect now; just set it up so I can connect later**, and click **Next**.



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

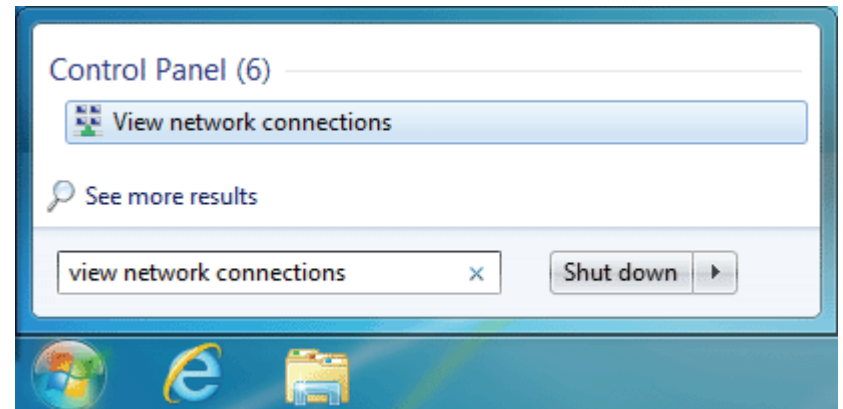
Remember this password

Domain (optional):

Create Cancel

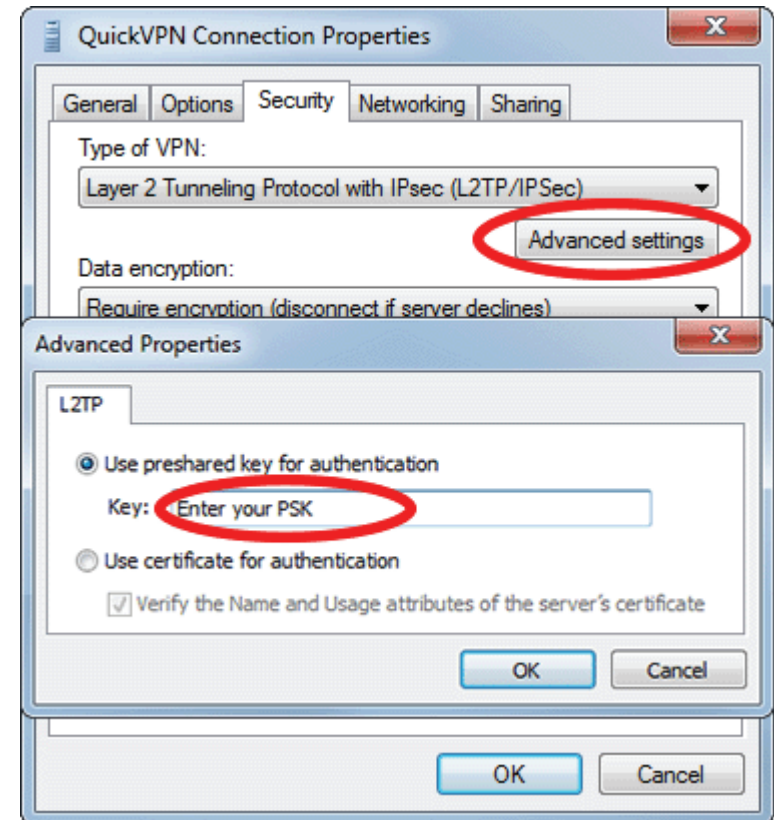
Do not click **Connect Now**.

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)

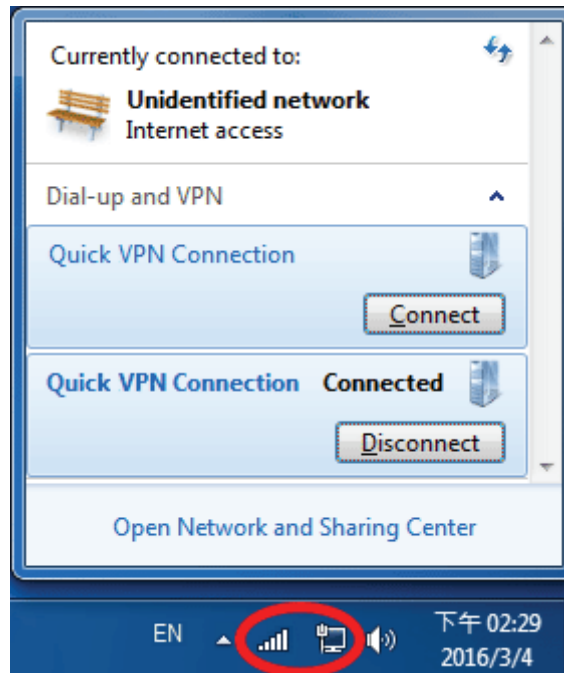
Click **Advanced settings**. Enter your **Passkey** in the **Key** text box under **Use preshared key for authentication**. Click **OK** to close **Advanced Properties** and click **OK** to close **Quick VPN Connection Properties**.



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.



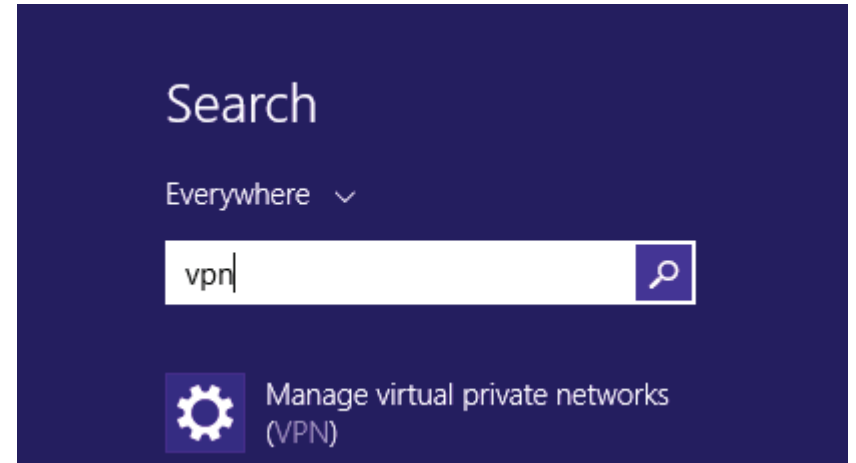
Windows 8.1/8

VPN Setup Instructions

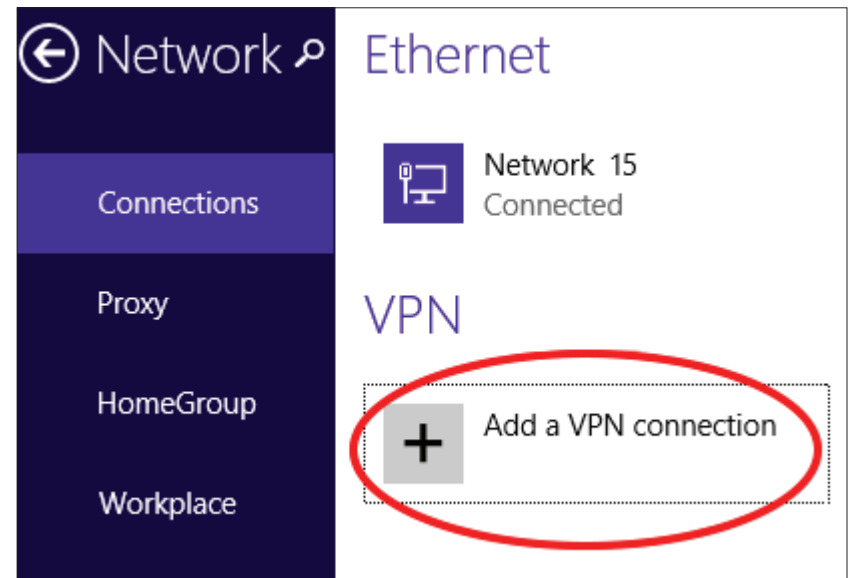
This section provides Quick VPN setup instructions for Windows 8.1/8

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

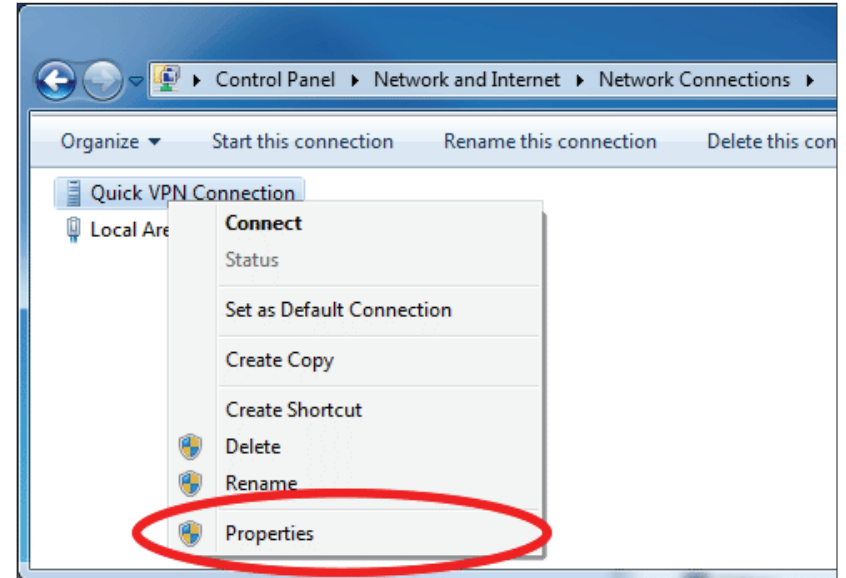
- 1 Select **Microsoft** from **VPN Provider**.
- 2 Create a name for your VPN connection.
- 3 Enter your **IP/DDNS address** of your Quick VPN server.
- 4 Select **User name and password** from **Type of sign-in info**.
- 5 If you would like windows to remember your sign-in information, enter your **User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

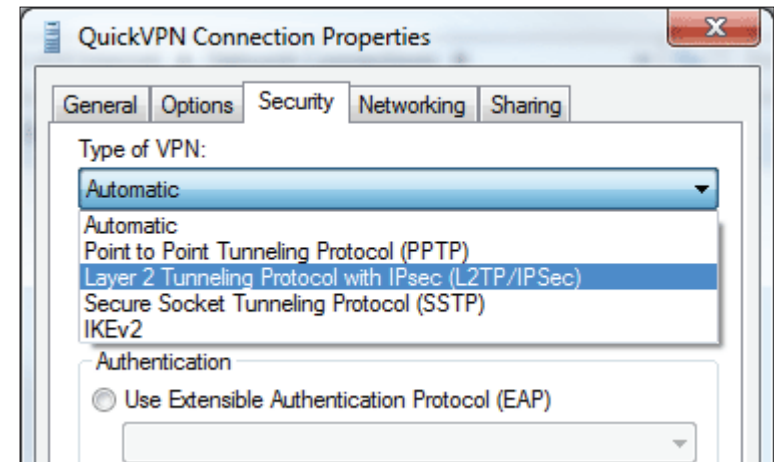
- 1** VPN provider: Microsoft (dropdown menu)
- 2** Connection name: Quick VPN (text input)
- 3** Server name or address: IP/DDNS Address of Quick VPN Server (text input)
- 4** Type of sign-in info: User name and password (dropdown menu)
- 5** User name (optional): Username (text input)
- 5** Password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



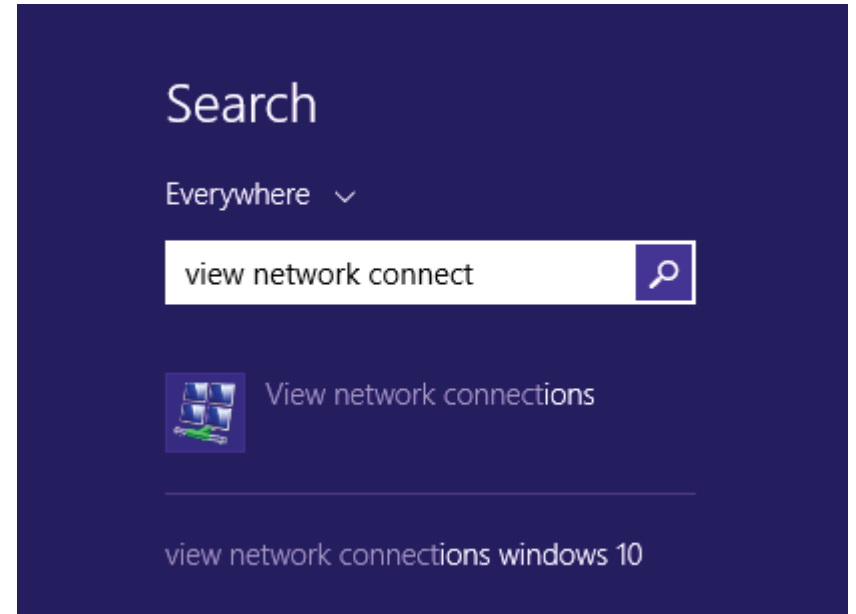
Select the **Security** tab. For the **Type of VPN**, select **Layer 2 Tunneling with IPsec (L2TP/IPSec)**.



VPN Setup Instructions (Continued)

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

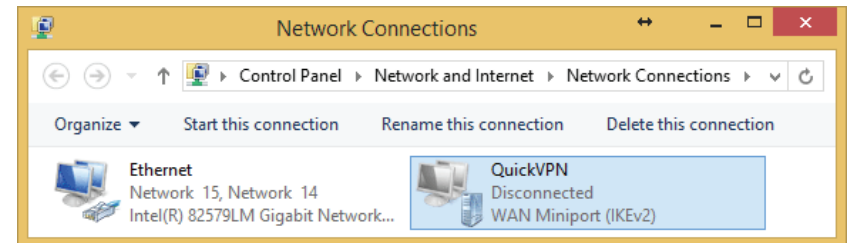
Select **View network connections**.



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

Select the **Security** tab.

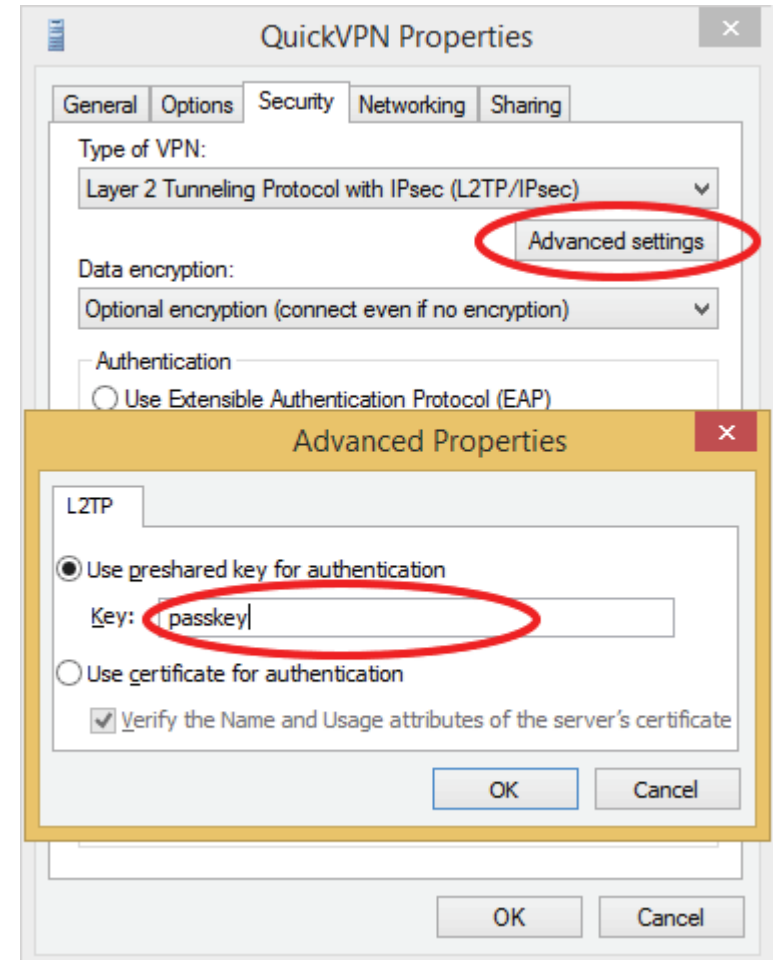
For the **Type of VPN**, select **Layer 2 Tunneling with IPsec (L2TP/IPSec)**.



VPN Setup Instructions (Continued)

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

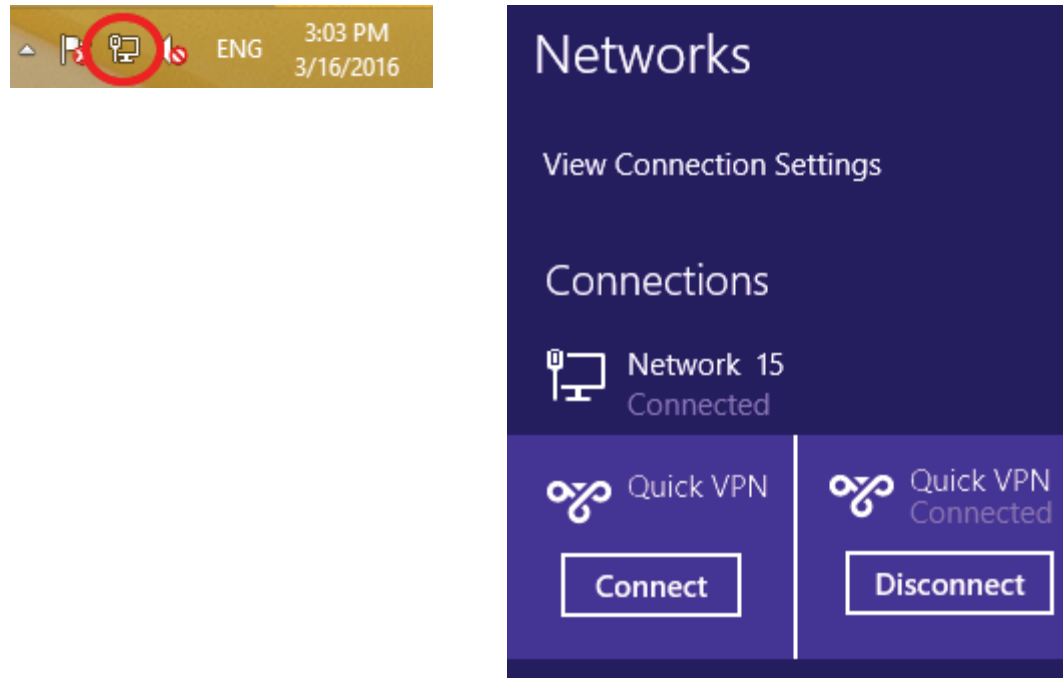
Click **OK** to close **Advanced Properties** and click **OK** to close **Quick VPN Properties**.



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

Connect or Disconnect

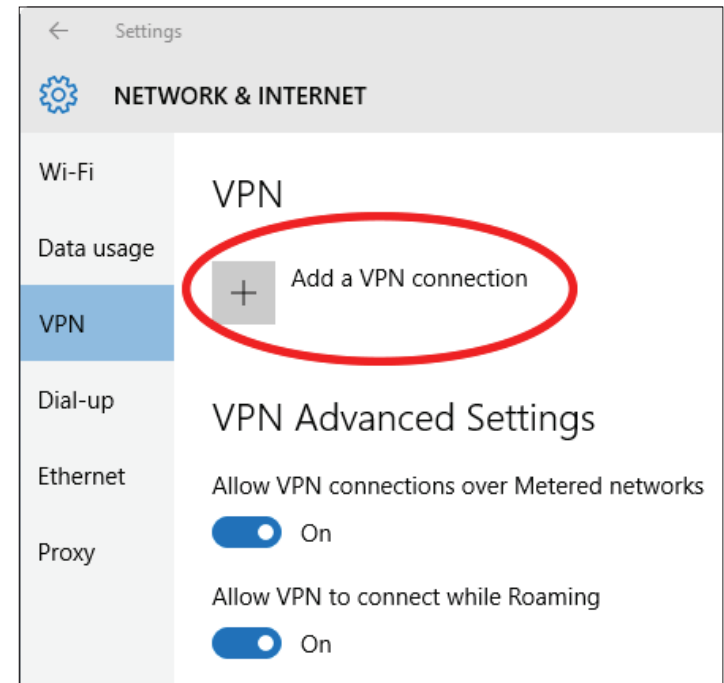
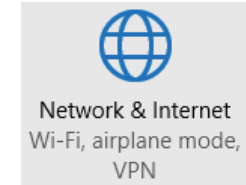
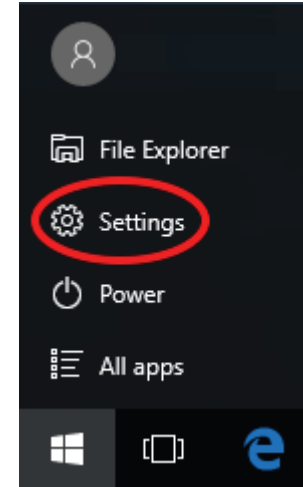
To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar. Click on your Quick VPN connection and click on the **Connect** or **Disconnect** button.



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.

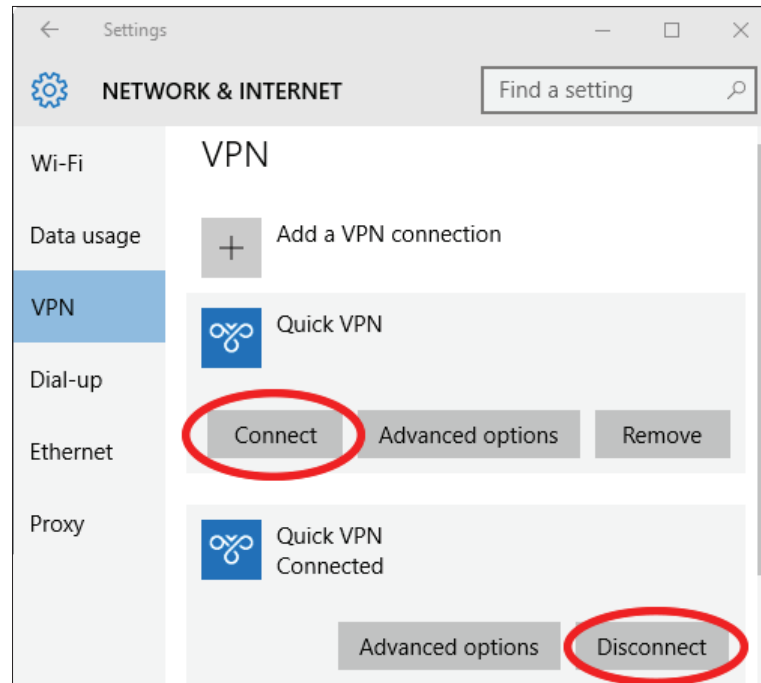
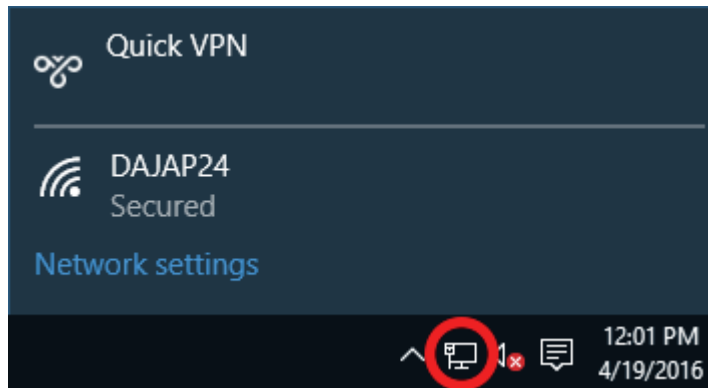
The screenshot shows the 'Add a VPN connection' dialog box in Windows. The fields are filled with the following values:

- VPN provider:** Windows (built-in)
- Connection name:** Quick VPN
- Server name or address:** IP/DDNS Address of Quick VPN Server
- VPN type:** L2TP/IPsec with pre-shared key
- Pre-shared key:** Passkey
- Type of sign-in info:** User name and password
- User name (optional):** Username
- Password (optional):** (represented by dots)
- Remember my sign-in info:** (checked)

At the bottom, there are 'Save' and 'Cancel' buttons. A '7' in a circle 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.

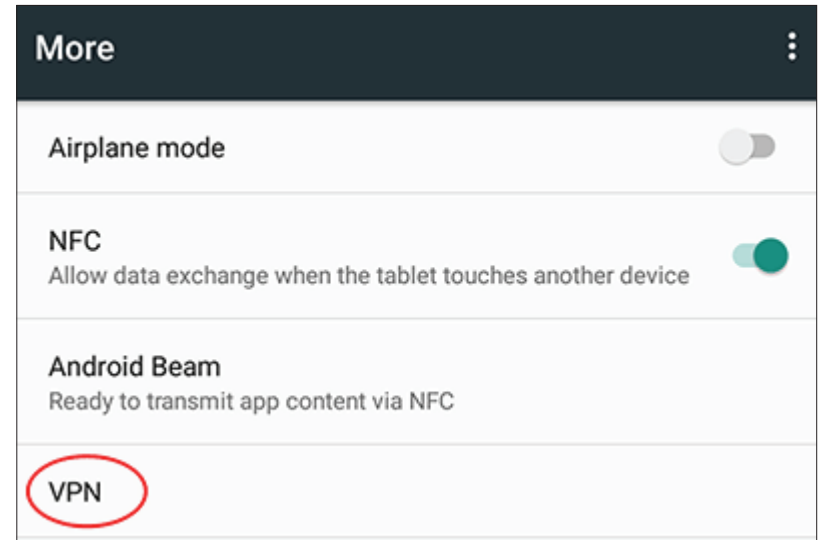
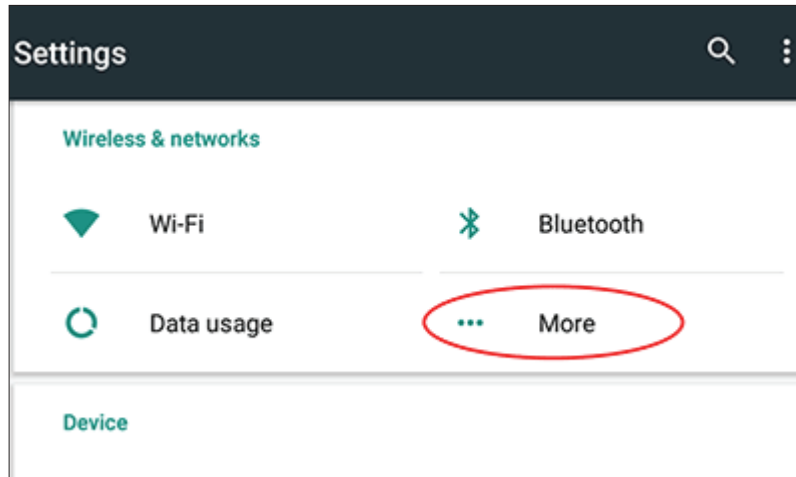


Android

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

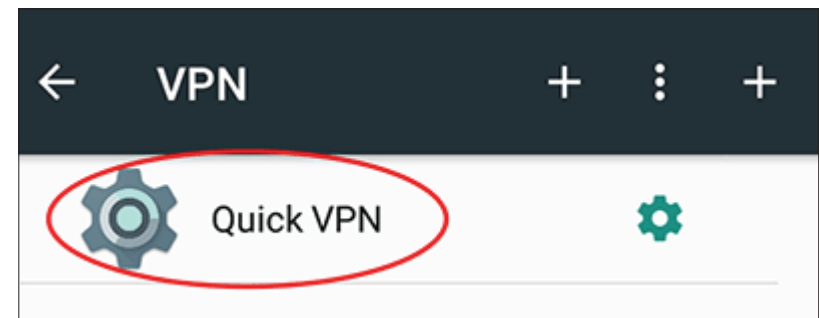
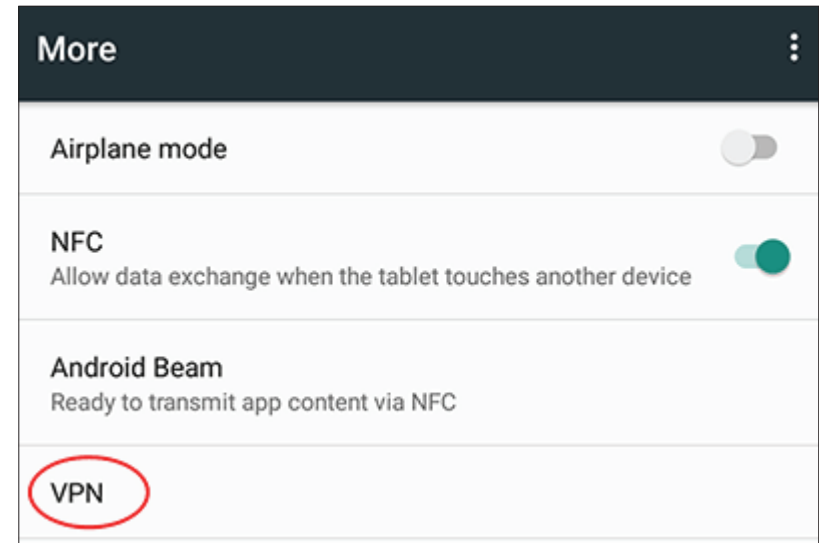
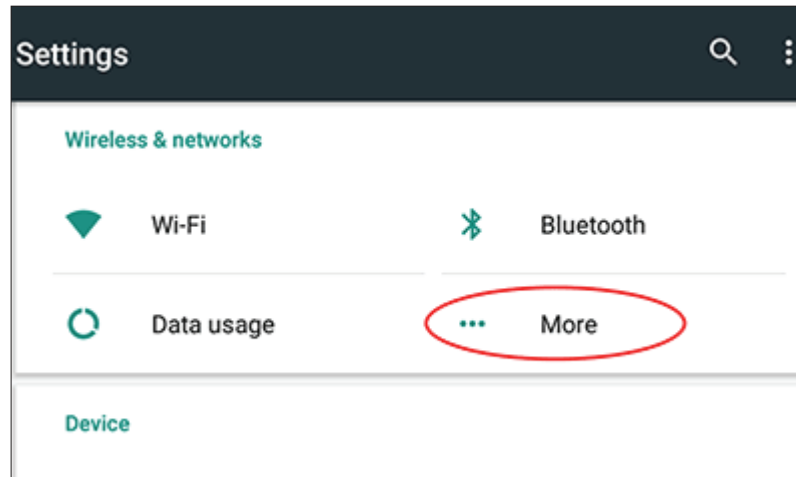
Show advanced options

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**

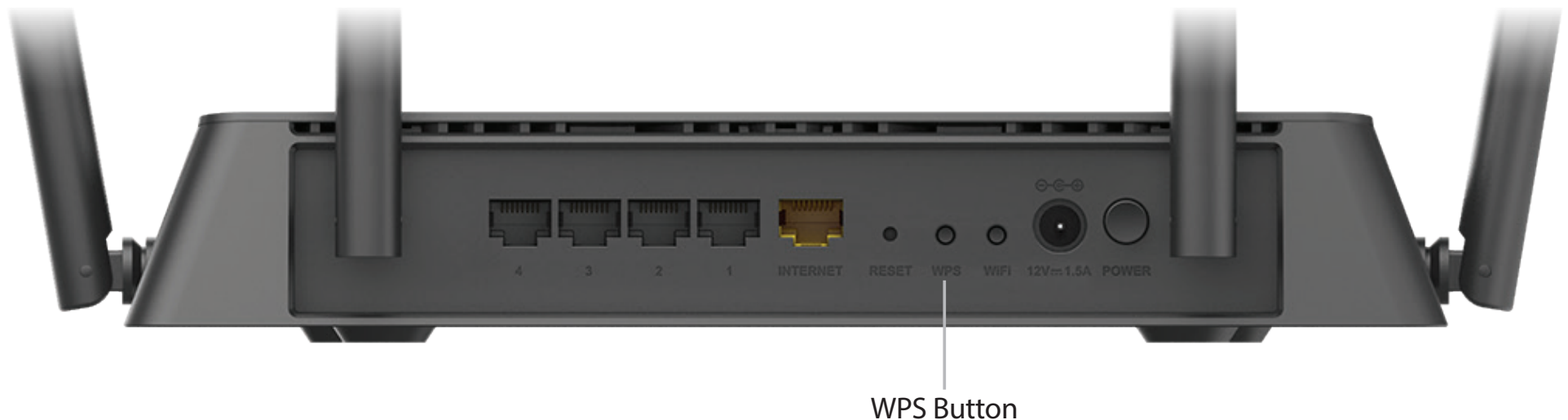
DISCONNECT **CANCEL**

Connect a Wireless Client to your Router

WPS Button

The easiest 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-878 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-878 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 with WPA2.

Windows® 10

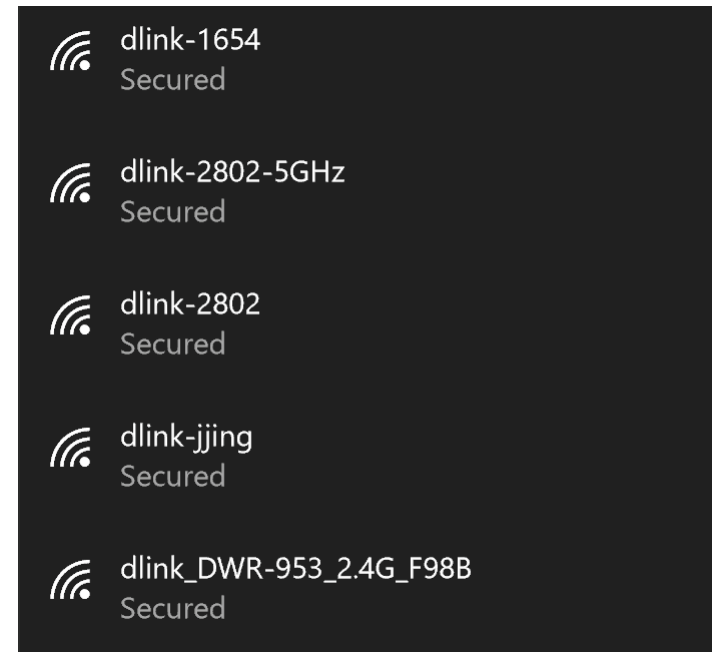
When connecting to the DIR-878 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise 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.

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.

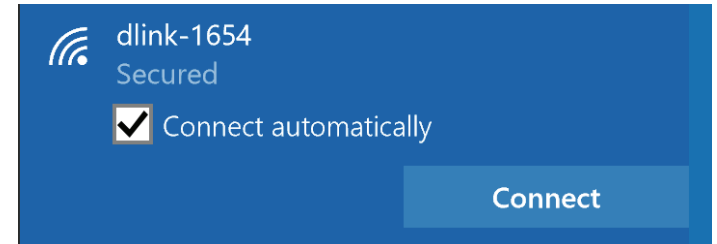


Wireless Icon



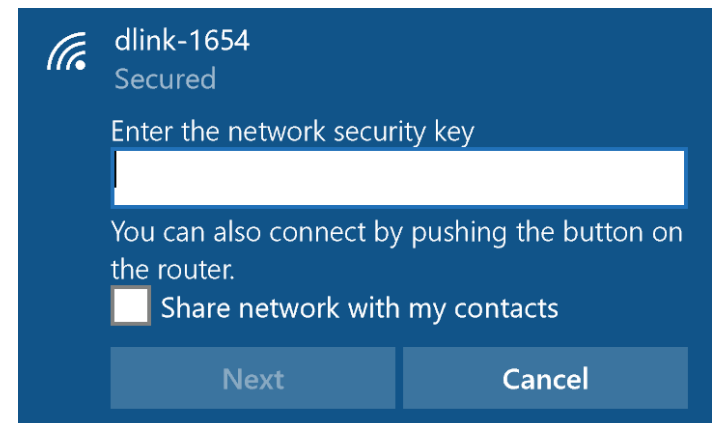
To connect to the SSID, click **Connect**.

To automatically connect with the router when your device next 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

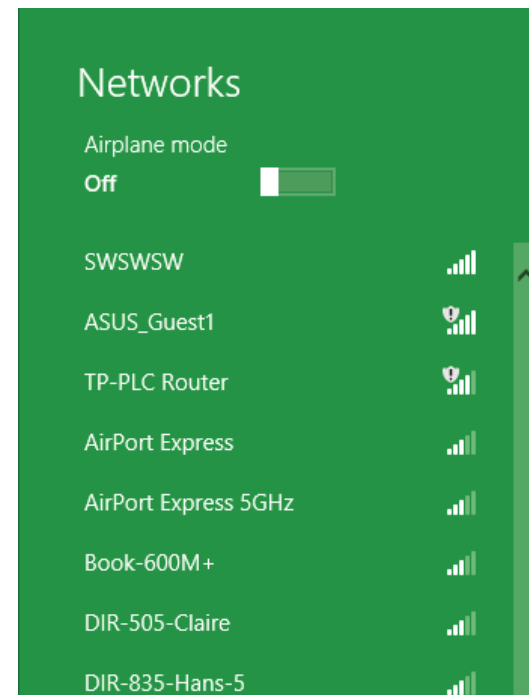
WPA/WPA2

It is recommended that you enable wireless encryption (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.



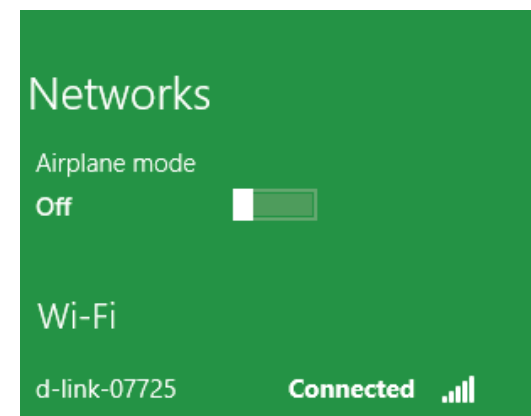
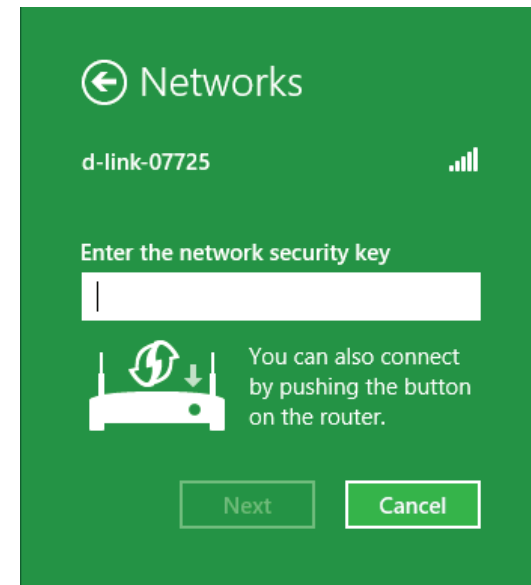
Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.



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.

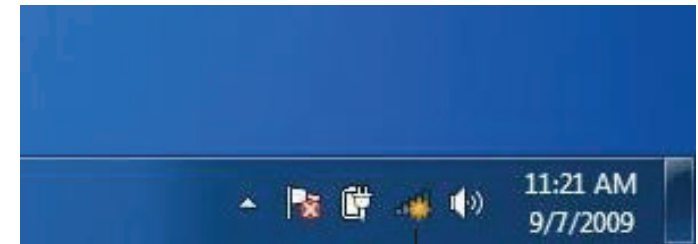


Windows® 7

WPA/WPA2

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

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



Wireless Icon

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

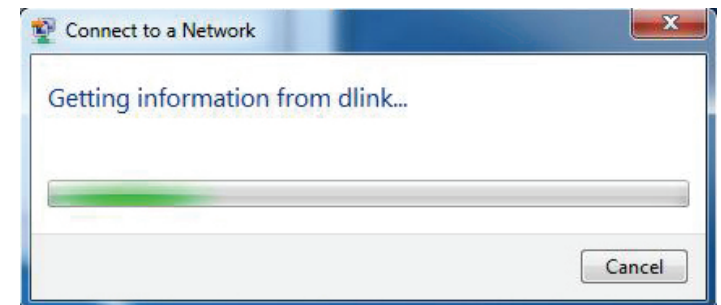


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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

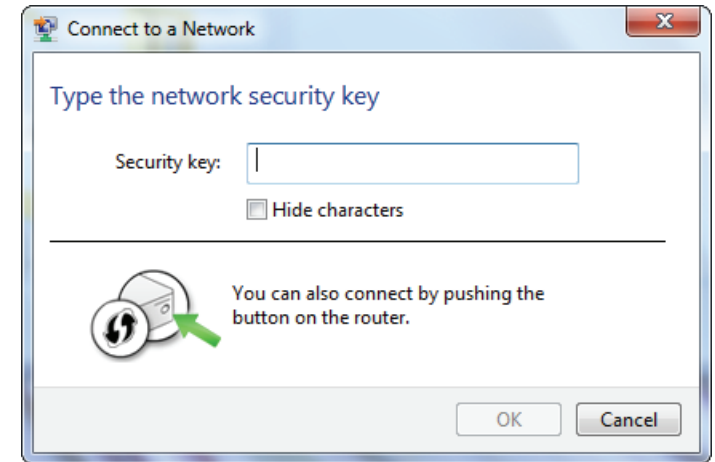


4. The following window appears while your computer tries to connect to the router.



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

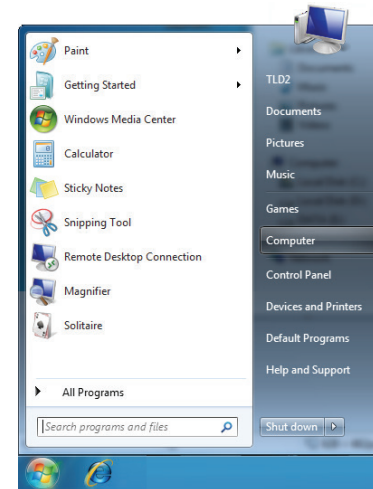
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



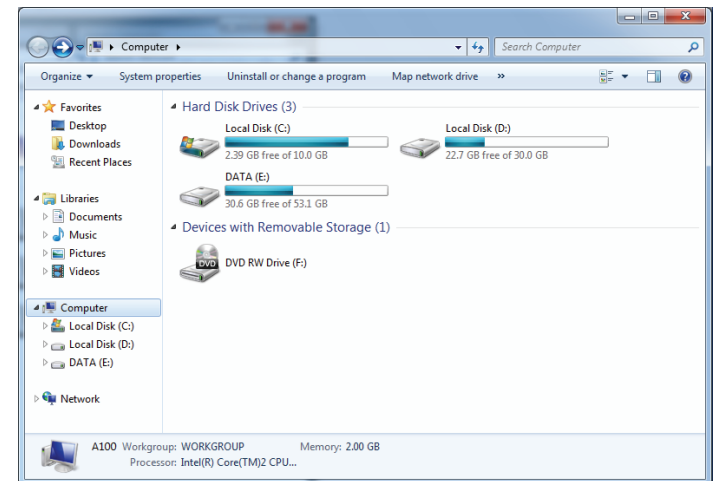
WPS

The WPS feature of the DIR-878 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

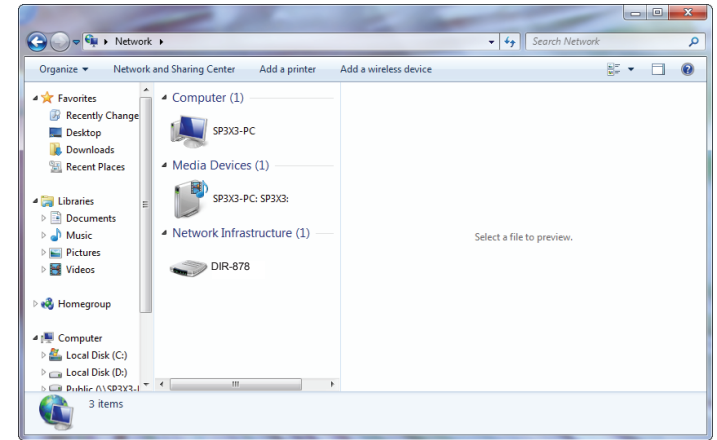
1. Click the **Start** button and select **Computer** from the Start menu.



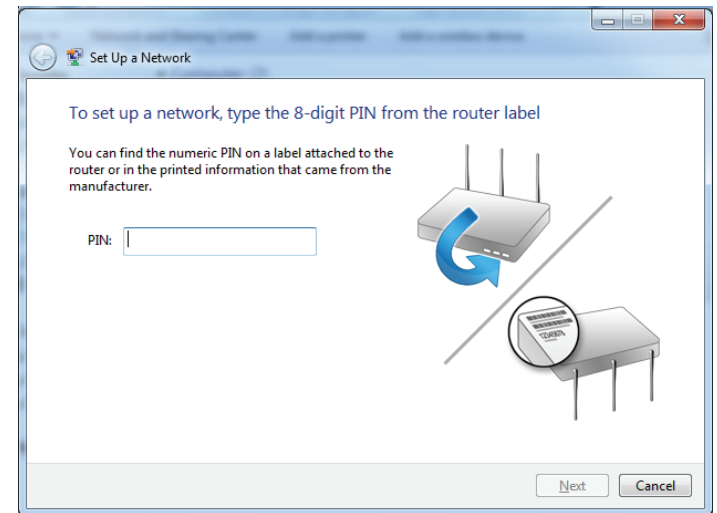
2. Click **Network** on the left side.



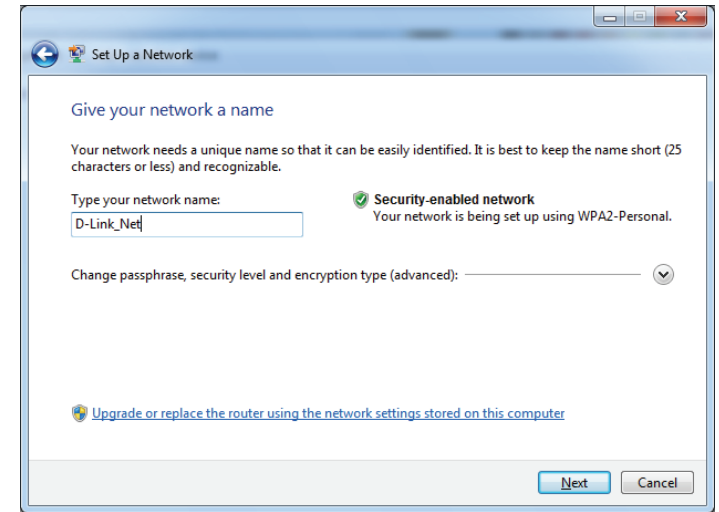
3. Double-click the DIR-878.




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

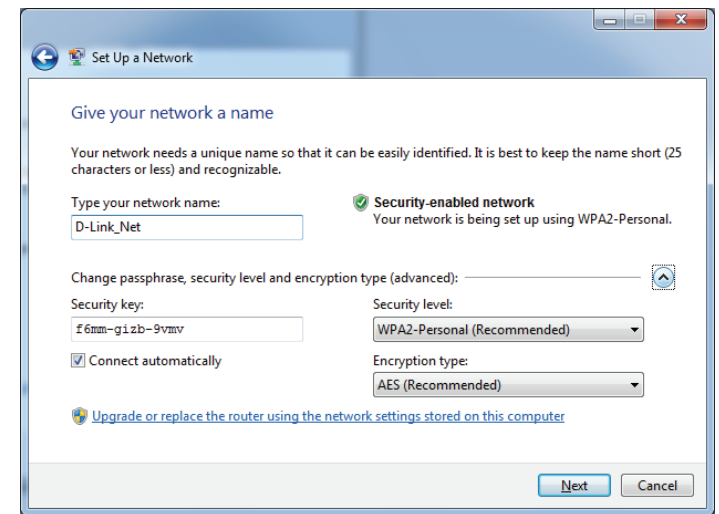


5. Type a name to identify the network.



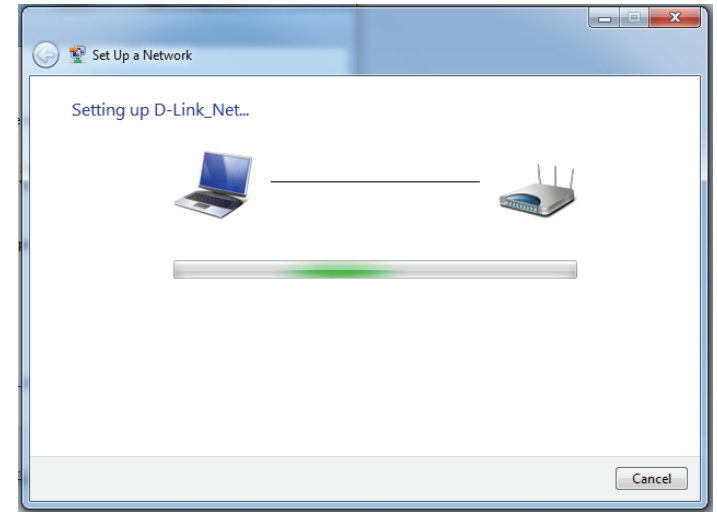
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



7. The following window appears while the DIR-878 is being configured.

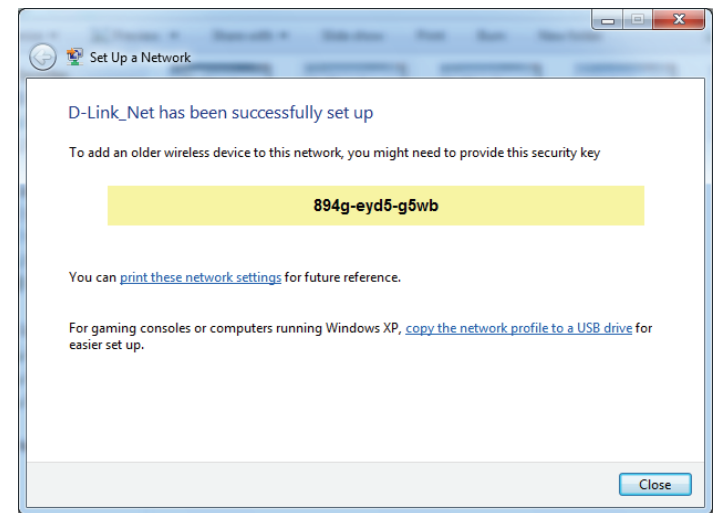
Wait for the configuration to complete.



8. The following window informs you that WPS on the DIR-878 has been set up successfully.

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

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



Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's 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.

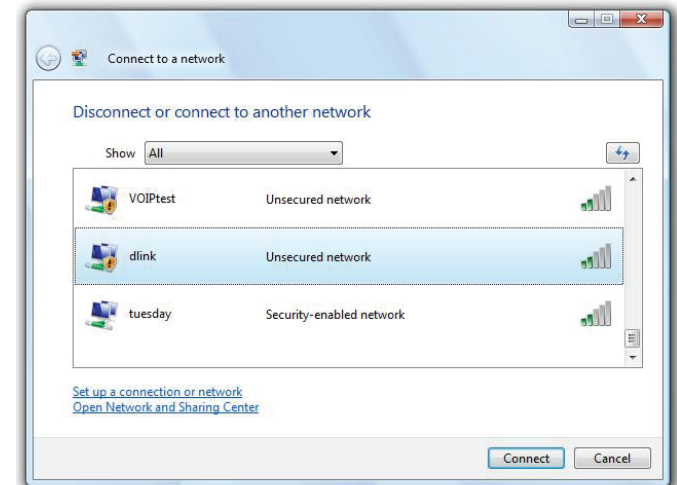
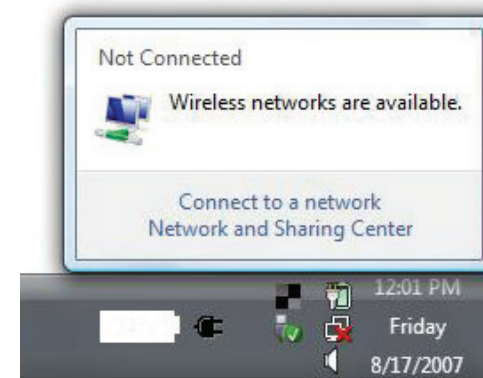
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

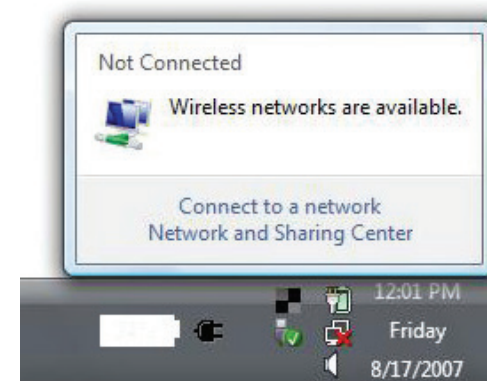
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



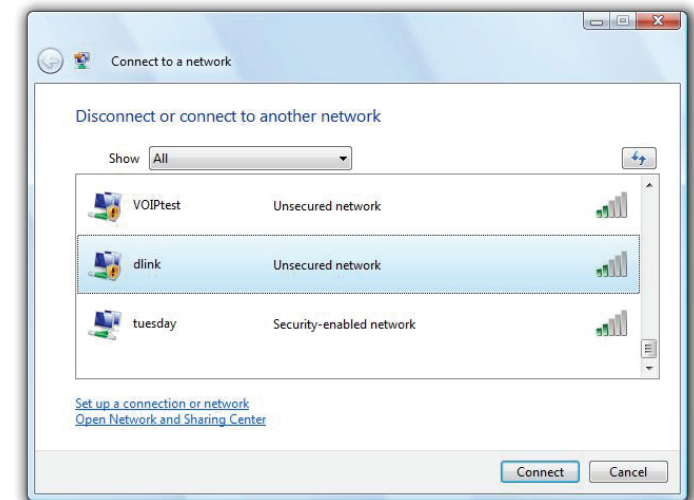
WPA/WPA2

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

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

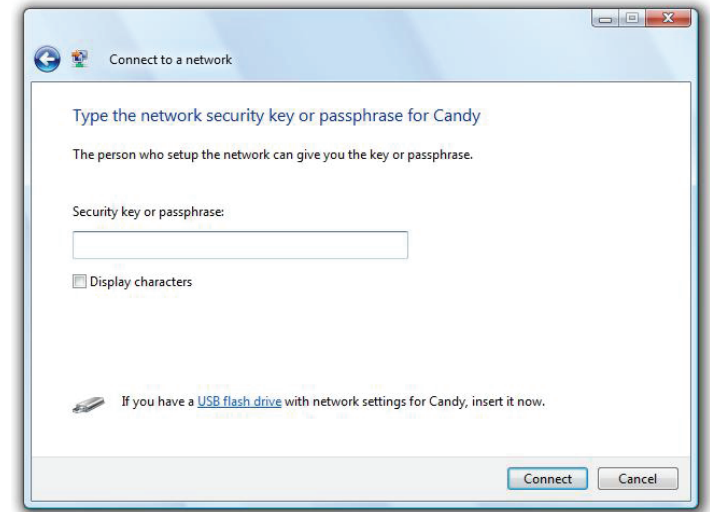


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



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

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



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-878. 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.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer® 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.

2. 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.

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

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

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

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

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

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

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms
C:\>
```

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

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

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

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

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business, or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to 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 has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home 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.

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-878 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

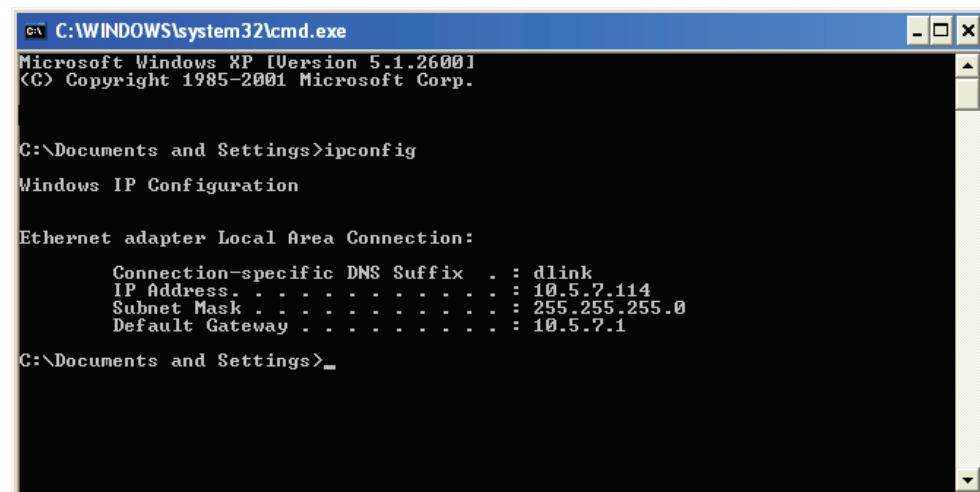
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

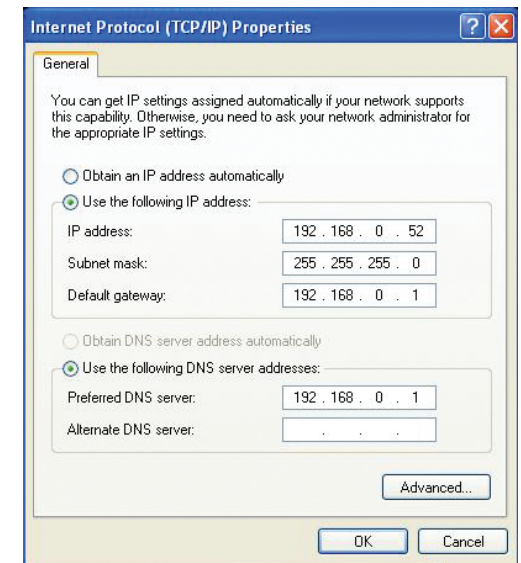
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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 encryption you can use to better protect your data from intruders. The DIR-878 offers the following types:

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

What is WPA?

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

The 2 major improvements over WEP:

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

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

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

Technical Specifications

Device Interfaces

- Wireless Interface (2.4 GHz): IEEE 802.11n/g/b
- Wireless Interface (5 GHz): IEEE 802.11 ac/n/a
- Four 10/100/1000 Mbps LAN ports
- One 10/100/1000 Mbps WAN port

Antenna Types

- Four external antennas

Standards

- IEEE 802.11ac^{1,2,3}
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab

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, 1.5 A

Temperature

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

Humidity

- Operating: 10% to 90% maximum, non-condensing
- Storage: 5% to 95% maximum, non-condensing

Certifications

- FCC
- CE
- UL/cUL
- C-Tick
- IPv6
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)

Dimensions & Weight

- L x W x H: 258.8 x 183.4 x 44.9 mm (10.2 x 7.2 x 1.8 in)
- 575 g (1.27 lbs)

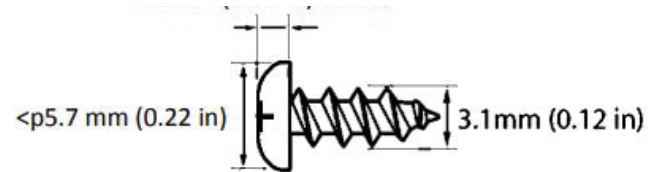
1 Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g, 802.11n, and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual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

2 Frequency Range varies depending on country's regulation.

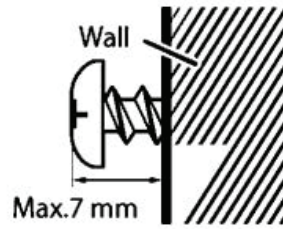
3 The DIR-878 does not include 5.25-5.35 GHz & 5.47-5.725 GHz in some regions.

Wall Mounting

To mount the unit directly onto a wall, use 2 screws (not included) with the dimensions shown below. Install the screws 100 mm (3.94 in) apart and slide the mounting holes into the base of the router over them.



The screw head should project out from the wall at 7 mm (0.28 in) as shown below.



Regulatory Statements

Federal Communication Commission Interference Statement

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

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

Non-modifications Statement:

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

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

Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Note

The country code selection is for non-USA models only and is not available to all USA models. Per FCC regulations, all WiFi product marketed in the USA must be fixed to USA operational channels only.

IMPORTANT NOTICE:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 38 cm between the radiator and your body.

Innovation, Science and Economic Development Canada (ISED) Statement:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development Canada (ISED) Statement:

This device complies with ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and
- (iii) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;
- (iii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 44 cm between the radiator and your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 44 cm de distance entre la source de rayonnement et votre corps.

NCC 警語：

以下警語適用台灣地區

依據 低功率電波輻射性電機管理辦法

第十二條：經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條：低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

電磁波曝露量MPE標準值(MPE) 1 mW/cm²，本產品使用時建議應距離人體 0 cm



	Frequency Band(s) Frequenzband Fréquence bande(s) Bandas de Frecuencia Frequenza/e Frequentie(s)	Max. Output Power (EIRP) Max. Output Power Consommation d'énergie max. Potencia máxima de Salida Potenza max. Output Max. Output Power
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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com 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 www.dlink.com .
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 www.dlink.com
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 www.dlink.com .
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 www.dlink.com .
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 icroprogramme du produit sont disponibles au téléchargement sur la page des produits à www.dlink.com .
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 www.dlink.com .

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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com 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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com .
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 www.dlink.com .

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 www.dlink.com .
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 www.dlink.com .

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 and Recycling Your Product



EN

ENGLISH



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.

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.

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.

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.

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.

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 CO₂-emissies.

Breng een bezoek aan 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 CO₂.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową 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, odnešte 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 CO₂.

Více informací o našich ekologických výrobcích a obalech najdete na adrese 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 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.

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 CO₂-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på 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.

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.

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 CO₂.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite www.dlinkgreen.com.