



User Manual

Wireless AC750 Dual Band 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
1.0	28 October, 2016	Initial release for revision A1

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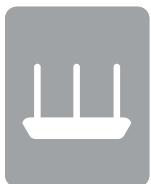
The purpose of this product is to create a constant network connection for your devices. As such, it does not have a standby mode or use a power management mode. If you wish to power down this product, please simply unplug it from the power outlet.

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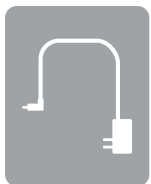
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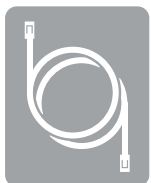
Package Contents



DIR-819 Wireless AC750 Dual Band Router



Power Adapter



Ethernet Cable



Wi-Fi Configuration Card



Quick Install Guide

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

Note: Using a power supply with a different voltage rating than the one included with the DIR-819 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	• An Ethernet-based cable or DSL modem • IEEE 802.11ac, 802.11n, 802.11a, 802.11g, or 802.11b wireless clients • 10/100 Ethernet
Web-based Configuration Utility Requirements	Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter Browser Requirements: • Internet Explorer 9 or higher • Firefox 20 or higher • Safari 5.1 or higher • Chrome 25 or higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.

Introduction

The D-Link DIR-819 Wireless AC750 Dual Band Router shares your Internet connection over a blazing-fast wireless connection of up to 750 Mbps (up to 433 Mbps over 5 GHz Wireless AC and up to 300 Mbps over 2.4 GHz Wireless N)¹, using advanced AC beamforming technology to significantly outperform 802.11n and other 802.11ac devices. Equipped with one Fast Ethernet WAN/Internet port and four Fast Ethernet LAN ports, the DIR-819 creates an excellent networking experience.

Featuring four antennas, the Wireless AC750 Dual Band Router offers better data rates, fewer dead-spots, more coverage, and higher reliability. Operating exclusively in the 5 GHz band, the DIR-819's 802.11ac wireless connections avoid the crowded 2.4 GHz band, giving you faster speeds while still maintaining backwards compatibility with older 802.11n/g/b devices. 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-819 supports the latest security features to help prevent unauthorized access. Support for WPA™ and WPA2™ standards ensure that you will be able to use the best possible encryption regardless of your client devices. This router is also equipped with a dual-active firewall (SPI and NAT) to prevent potential attacks over the Internet.

The DIR-819 is full of features to improve your home network. The rich parental controls allow you to easily control when the Internet should be available in your home and what content is allowed. With all this and more, the DIR-819 Wireless AC750 Dual Band Router will serve your network well for years to come.

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

Features

- **Excellent Wireless Networking** - The DIR-819 provides wireless speeds of up to a combined 750 Mbps (433 Mbps 802.11ac 5 GHz, plus 300 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.
- **Fast Wired LAN and WAN Networking** - With four 10/100 Fast Ethernet LAN ports, and a 10/100 Fast Ethernet WAN port, the DIR-819 has an enormous amount of bandwidth to take full advantage of the highest speed broadband connections available.
- **IPv6 Support** - The DIR-819 fully supports IPv6 and includes support for a variety of IPv6 connection types including: SLAAC/DHCPv6, 6to4, 6rd, Static IPv6, IPv6 PPPoE, IPv6 in IPv4 tunneling, and local connectivity.
- **Advanced Firewall Features** - The web-based user interface displays a number of advanced network management features. Easily apply content filtering based on MAC address, URL, and/or domain name. Schedule these filters to be active on certain days or for a duration of hours or minutes.
- **Secure Multiple/Concurrent Sessions** - The DIR-819 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-819 can securely access corporate networks.
- **User-friendly Setup Wizard** - Through its easy-to-use web-based user interface, the DIR-819 lets you quickly configure and secure 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

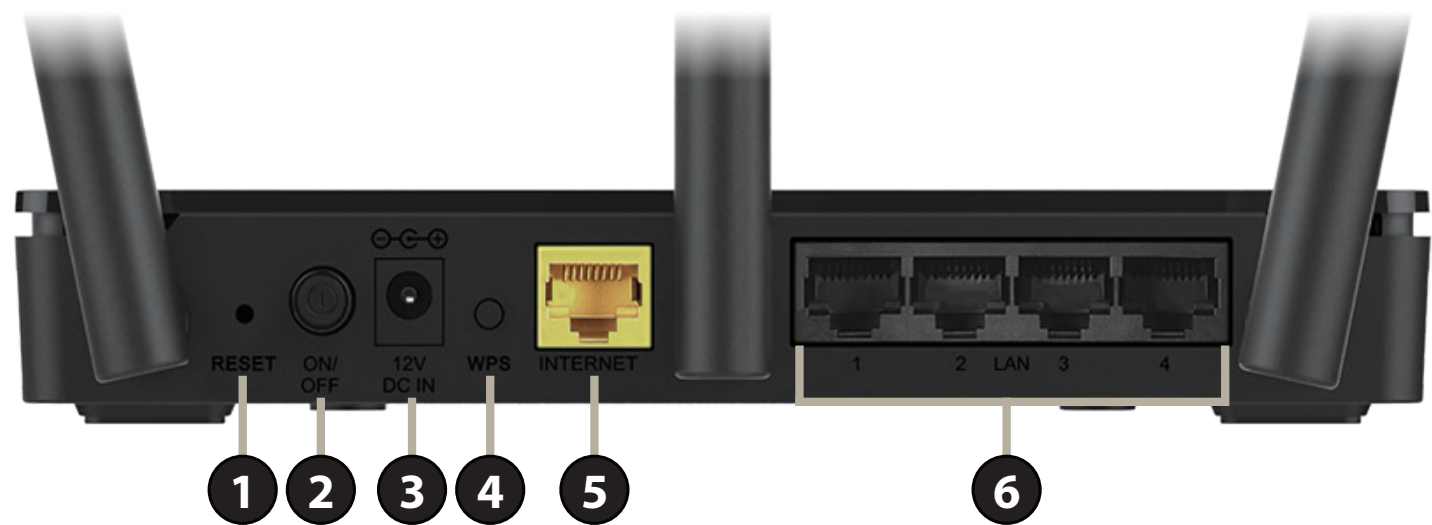
LEDs



1		Power	The Power LED indicates that the device is powered on with a proper connection to the power supply.
2		2.4 GHz Wireless	The Wireless LED indicates that this wireless band is working. It blinks during wireless data transmission.
3		5 GHz Wireless	The Wireless LED indicates that this wireless band is working. It blinks during wireless data transmission.
4		Internet	The Internet LED indicates that an Internet link is established. It blinks during data transmission.
5		WPS	The WPS LED blinks during the WPS pairing process.

Hardware Overview

Connections



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

Installation

Before You Begin

- Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, attic, or garage.
- Configure the router with the computer that was last connected directly to your Internet connection. Verify that it is connected to the Internet before connecting additional devices.
- If your ISP provided you with a modem/router combo, you will need to set it to “bridge” mode so the router can work properly. Please contact your Internet Service Provider (ISP) or refer to the user manual for your modem/router device.
- You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet).
- If connecting to a DSL modem, make sure to have your DSL service information provided by your Internet Service Provider handy. This information is likely to include your DSL account's username and password. Your ISP may also supply you with additional WAN configuration settings which might be necessary to establish a connection.
- If you are connecting a considerable amount of networking equipment, it may be a good idea to take the time to label each cable or take a picture of your existing setup before making any changes.
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoET, BroadJump, or EnterNet 300 from your computer or you will not be able to connect to the Internet.

Wireless Installation Considerations

This D-Link wireless device lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

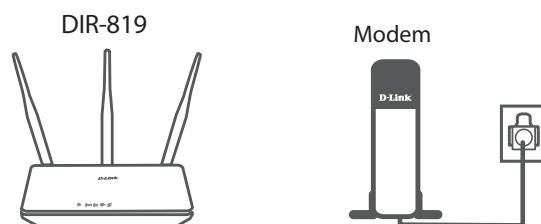
1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 1 to 30 meters (3 to 90 feet). Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 0.5 meters (1.5 feet) thick, at a 45-degree angle appears to be almost 1 meter (3 feet) thick. At a 2-degree angle it looks over 14 meters (42 feet) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away at least 1 to 2 meters (3 to 6 feet) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Hardware Setup

1. The DIR-819 is designed to give you the fastest, most stable network connection possible. In order to maximize performance, fully extend the antennas to provide optimal wireless coverage. Keep the router in an open area for better wireless coverage.



2. Position your DIR-819 near your Internet-connected modem. Place it in an open area for better wireless coverage.

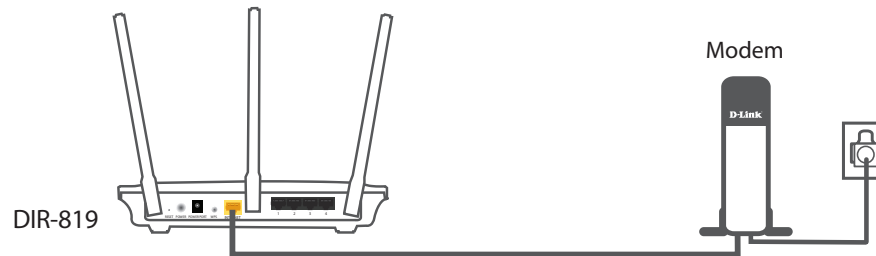


3. Turn off and unplug the power and Ethernet cable to your cable or DSL broadband modem. This is required. In some cases, you may need to turn it off for up to five minutes.

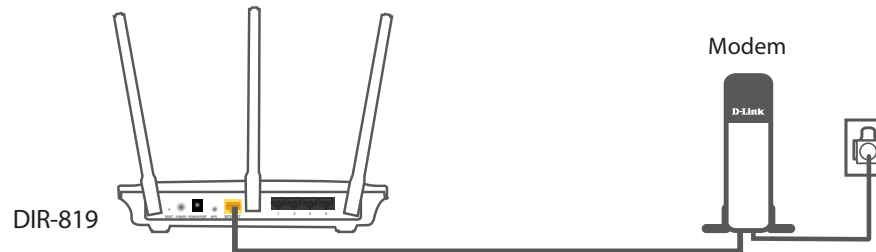


Hardware Setup (continued)

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.

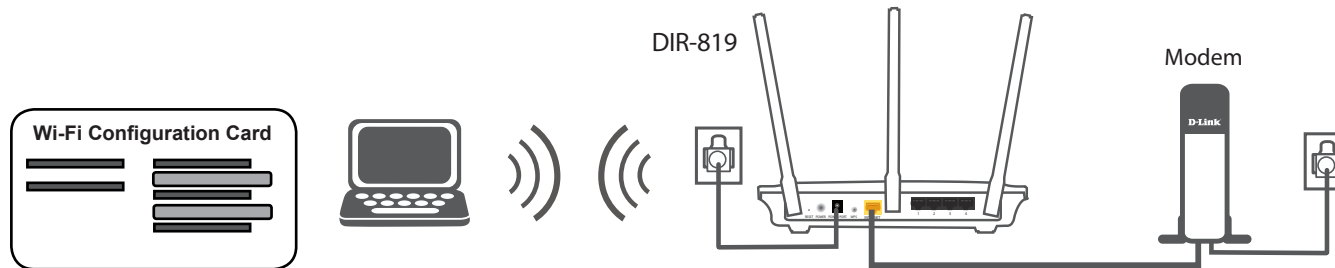


6. Connect the supplied power adapter to the router and a power outlet, press the power button, and verify that the power LED is lit. Allow 1 minute for the router to boot up.

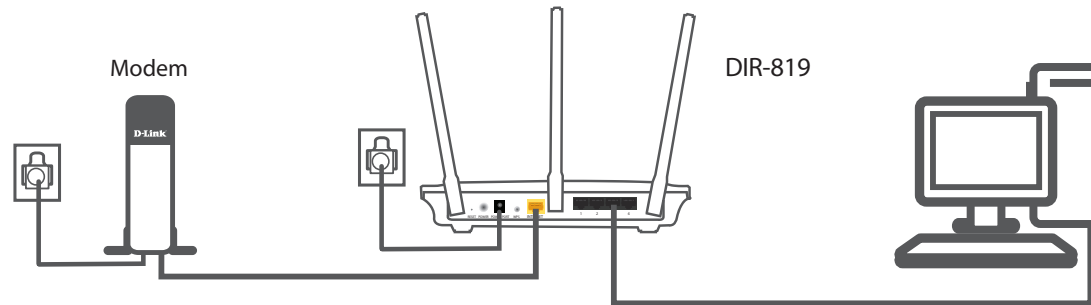


Hardware Setup (continued)

7. If you are configuring the DIR-819 wirelessly from a PC, connect to a Wi-Fi network printed on the included Wi-Fi configuration card. You can also find the Wi-Fi network names and passwords printed on the label attached to the bottom of your router.



- If you are configuring the DIR-819 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 12.

Completing Setup

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

- **D-Link Setup Wizard** - This wizard will launch when you log into the router for the first time, refer to **Setup Wizard** on page **13**.
- **Manual Setup** - Log into the router and manually configure your router, refer to **Configuration** on page **21**.

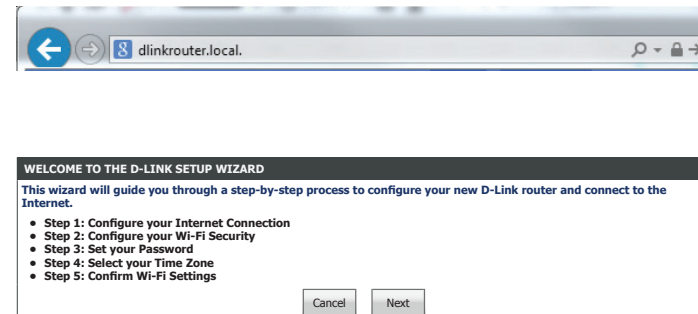
Setup Wizard

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

WELCOME TO THE D-LINK SETUP WIZARD

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.

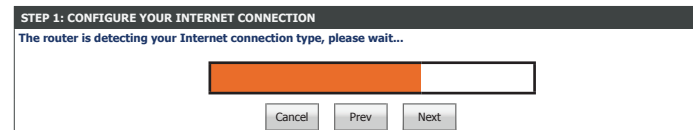


Step 1 - Configure Your Internet Connection

STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Please wait while your router attempts to detect your Internet connection type. You may need to enter information such as your ISP account username and password.

Next to continue.



STEP 1: CONFIGURE YOUR INTERNET CONNECTION

The router is detecting your Internet connection type, please wait...

Cancel Prev Next

STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Select the connection type your ISP uses.

If you select **DHCP Connection (Dynamic IP Address)**, proceed to **Step 2 - Configure Your Wi-Fi Security** on page 19.

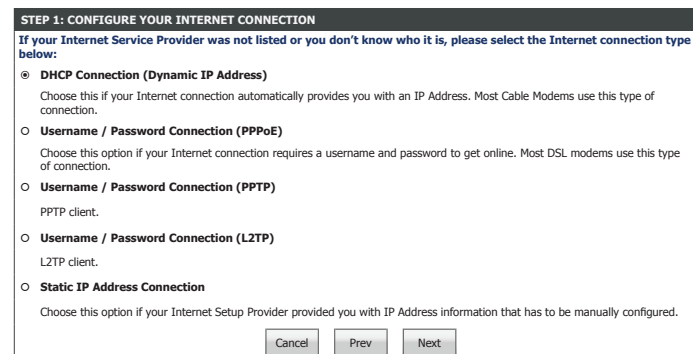
For **Username / Password Connection (PPPoE)** setup help refer to page 15.

For **Username / Password Connection (PPTP)** setup help refer to page 15.

For **Username / Password Connection (L2TP)** setup help refer to page 16.

For **Static IP Address Connection** setup help refer to page 18.

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



STEP 1: CONFIGURE YOUR INTERNET CONNECTION

If your Internet Service Provider was not listed or you don't know who it is, please select the Internet connection type below:

- ☒ **DHCP Connection (Dynamic IP Address)**
Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.
- ☐ **Username / Password Connection (PPPoE)**
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Username / Password Connection (PPTP)**
PPTP client.
- ☐ **Username / Password Connection (L2TP)**
L2TP client.
- ☐ **Static IP Address Connection**
Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

Cancel Prev Next

Username / Password Connection (PPPoE)

If you chose **Username / Password Connection (PPPoE)** as your **Internet Connection**, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Click **Next** and proceed to **Step 2 - Configure Your Wi-Fi Security** on page 19.

Username / Password Connection (PPTP)

If you choose **Username / Password Connection (PPTP)** as your **Internet Connection**, enter your IP address, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (PPTP)

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

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

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

If you choose **Dynamic IP** or **Static IP** as the **Address Mode**, enter your PPTP Server IP address:

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

Username / Password Connection (PPTP) (continued)

User Name: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Verify Password: Enter the password provided by your ISP one more time.

DNS SETTINGS

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server: Enter the secondary DNS server IP addresses.

Click **Next** and proceed to **Step 2 - Configure Your Wi-Fi Security** on page 19.

Username / Password Connection (L2TP)

If you choose **Username / Password Connection (L2TP)** as your **Internet Connection**, enter your IP address, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

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

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

Username / Password Connection (L2TP) (continued)

If you choose **Dynamic IP** or **Static IP** as the **Address Mode**, enter your PPTP Server IP address:

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

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Verify Password: Enter the password provided by your ISP one more time.

SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

Address Mode : ☒ Dynamic IP ☐ Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

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

User Name :

Password :

Verify Password :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address : (optional)

Cancel

Prev

Next

DNS SETTINGS

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server: Enter the secondary DNS server IP addresses.

Click **Next** and proceed to **Step 2 - Configure Your Wi-Fi Security** on page **19**.

Static IP Address Connection

If you choose **Static IP Address Connection** as your **Internet Connection**, enter your IP address, configure the following settings:

SET STATIC IP ADDRESS CONNECTION

IP Address:

Enter the IP address provided by your ISP.

Subnet Mask:

Enter the subnet mask.

Default Gateway:

Enter the default gateway.

DNS SETTINGS

SET STATIC IP ADDRESS CONNECTION

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

IP Address :

Subnet Mask :

Default Gateway :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address :

(optional)

Cancel

Prev

Next

Primary DNS Server:

Enter the primary DNS server IP addresses.

Secondary DNS Server:

Enter the secondary DNS server IP addresses.

Click **Next** and proceed to **Step 2 - Configure Your Wi-Fi Security** on page **19**.

Step 2 - Configure Your Wi-Fi Security

STEP 2: CONFIGURE YOUR WI-FI SECURITY

- Wi-Fi Network Name(SSID):** Enter a name for the 2.4 GHz wireless network.
- Wi-Fi Password:** Enter a wireless password according to the onscreen guidelines.
- Wi-Fi Network Name(SSID):** Enter a name for the 5 GHz wireless network.
- Wi-Fi Password:** Enter a wireless password according to the onscreen guidelines.

Click **Next** to continue.

STEP 2: CONFIGURE YOUR WI-FI SECURITY

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

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

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

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

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

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

Step 3: Set Your Password

STEP 3: SET YOUR PASSWORD

- Enter a new administration password. This is the password you will use to log in to the router.
- Click **Next** to continue.

STEP 3: SET YOUR PASSWORD

By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below:

Password :

Verify Password :

Step 4: Select Your Time Zone

STEP 4: SELECT YOUR TIME ZONE

Select your time zone. Click **Next** to continue.

STEP 4: SELECT YOUR TIME ZONE

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

Time Zone :

Step 5: Confirm Wi-Fi Settings

STEP 5: CONFIRM WI-FI SETTINGS

Step 5 is a summary of your wireless settings. Click **Next** to finish the wizard.

Congratulations, your device has been successfully configured. The router will reboot and display the login page.

STEP 5: CONFIRM WI-FI SETTINGS

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

Wi-Fi Network Name(SSID) 2.4GHz :

Your_2.4GHz_Network

Wi-Fi Password

A_Ströng_P@ssWord!

Wi-Fi Network Name(SSID) 5GHz :

Your_5GHz_Network

Wi-Fi Password

A_Ströng_P@ssWord!

Cancel

Prev

Next

LOGIN

Login to the router :

User Name :

Admin

Password :

Login

Configuration

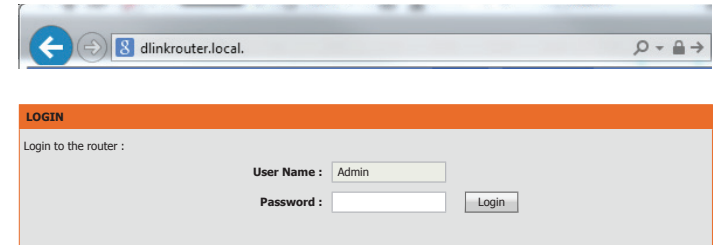
This section will show you how to configure or change the default settings your D-Link DIR-819 using the web-based configuration utility.

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 **Login** to proceed.

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

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



D-Link®					
DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET	INTERNET CONNECTION If you are configuring the device for the first time, we recommend that you click on the Internet Connection Setup Wizard, and follow the instructions on the screen. If you wish to modify or configure the device settings manually, click the Manual Internet Connection Setup.				
WIRELESS SETTINGS					
NETWORK SETTINGS					
IPV6					
	INTERNET CONNECTION SETUP WIZARD If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below. Internet Connection Setup Wizard Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.				

Web UI Table of Contents

The web-based interface is divided into 5 horizontal tabs, each with a vertical menu bar running along the left side. You may click on these section titles to quickly navigate to a section of this document.

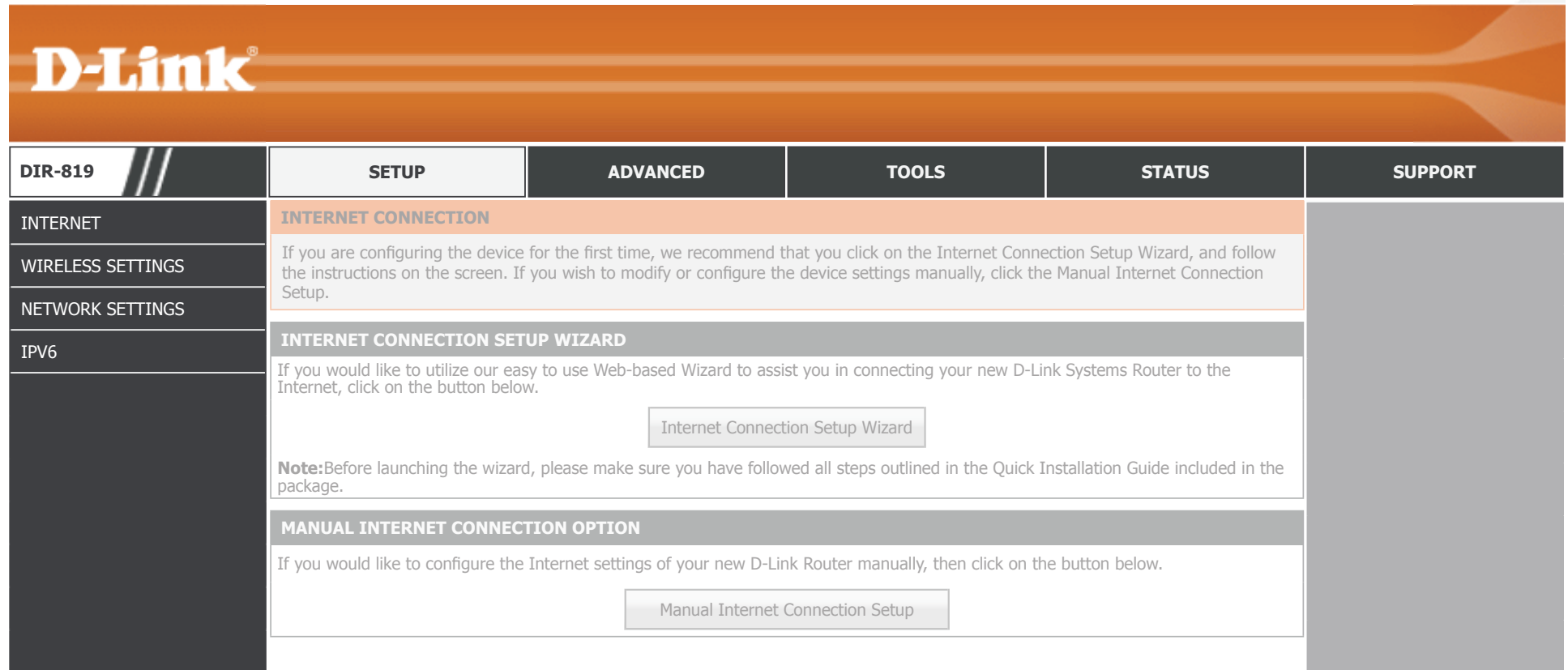
D-Link®					
DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
	INTERNET	VIRTUAL SERVER	ADMIN	DEVICE INFO	MENU
	WIRELESS SETTINGS	PORT FORWARDING	TIME	LOGS	SETUP
	NETWORK SETTINGS	APPLICATION RULES	SYSLOG	STATISTICS	ADVANCED
	IPV6	QOS ENGINE	SYSTEM	INTERNET SESSIONS	TOOLS
		NETWORK FILTER	FIRMWARE	WIRELESS	STATUS
		INBOUND FILTER	DYNAMIC DNS	ROUTING	
		ACCESS CONTROL	SYSTEM CHECK	IPV6	
		WEBSITE FILTER	SCHEDULES	IPV6 ROUTING	
		FIREWALL SETTINGS			
		ROUTING			
		ADVANCED WIRELESS			
		WI-FI PROTECTED SETUP			
		ADVANCED NETWORK			
		GUEST ZONE			
		IPV6 FIREWALL			
		IPV6 ROUTING			

To return to this Web UI Table of Contents page, simply click the D-Link logo on the top right of each page.

D-Link®		
DIR-819	SETUP	
INTERNET	INTERNET CONNECTION	

Setup

The **Setup** tab provides access to configure the basic configuration settings of your DIR-819.



DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
INTERNET	INTERNET CONNECTION If you are configuring the device for the first time, we recommend that you click on the Internet Connection Setup Wizard, and follow the instructions on the screen. If you wish to modify or configure the device settings manually, click the Manual Internet Connection Setup.				
WIRELESS SETTINGS					
NETWORK SETTINGS					
IPV6					
INTERNET CONNECTION SETUP WIZARD If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below. Internet Connection Setup Wizard Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.					
MANUAL INTERNET CONNECTION OPTION If you would like to configure the Internet settings of your new D-Link Router manually, then click on the button below. Manual Internet Connection Setup					

To return to the Web UI Table of Contents page, simply click the D-Link logo on the top right of each page.



Internet

Click **Internet** on the navigation menu to configure your Internet connection. Using the **Internet Connection Setup Wizard** is recommended. To manually configure your Internet connection, select **Manual Internet Connection Setup**.

INTERNET CONNECTION SETUP WIZARD

Click **Internet Connection Setup Wizard** to configure your Internet Connection. Refer to **Internet Connection Setup Wizard** on page 25.

MANUAL INTERNET CONNECTION OPTION

Click **Manual Internet Connection Setup** to manually add or configure your Internet connection. Refer to **Manual Wireless Connection Setup** on page 50.

The screenshot shows the D-Link DIR-819 web interface. At the top, the D-Link logo is on the left, and 'DIR-819' is in the center. To the right of 'DIR-819' is a 'SETUP' button. Below this, there are two main tabs: 'INTERNET' and 'INTERNET CONNECTION'. The 'INTERNET CONNECTION' tab is selected and highlighted in orange. Under the 'INTERNET CONNECTION' tab, there is a section titled 'INTERNET CONNECTION' with a warning message: 'If you are configuring the device for the first time, we recommend that you click on the Internet Connection Setup Wizard, and follow the instructions on the screen. If you wish to modify or configure the device settings manually, click the Manual Internet Connection Setup.' Below this, there is a section titled 'INTERNET CONNECTION SETUP WIZARD' with a message: 'If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.' A button labeled 'Internet Connection Setup Wizard' is present. Below this, there is a 'Note' section: 'Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.' Finally, there is a section titled 'MANUAL INTERNET CONNECTION OPTION' with a message: 'If you would like to configure the Internet settings of your new D-Link Router manually, then click on the button below.' A button labeled 'Manual Internet Connection Setup' is present.

Internet Connection Setup Wizard

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

STEP 1: SET YOUR PASSWORD

Enter a new administration password. This is the password you will use to log in to the router. Click **Next** to continue.

WELCOME TO THE D-LINK INTERNET CONNECTION SETUP WIZARD

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

- Step 1: Set your Password
- Step 2: Select your Time Zone
- Step 3: Configure your Internet Connection
- Step 4: Save Settings and Connect

Prev Next Cancel Connect

STEP 2: SELECT YOUR TIME ZONE

Select your time zone. Click **Next** to continue.

STEP 1: SET YOUR PASSWORD

By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below:

Password :

Verify Password :

Prev Next Cancel Connect

STEP 3: CONFIGURE YOUR INTERNET CONNECTION

Select the connection type your ISP uses and click **Next** to continue.

For **DHCP** setup help refer to page **26**.

For **PPPoE** setup help refer to page **27**.

For **PPTP** setup help refer to page **28**.

For **L2TP** setup help refer to page **30**.

For **Static IP Address Connection** setup help refer to page **32**.

STEP 2: SELECT YOUR TIME ZONE

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

Time Zone : (GMT+08:00) Taipei ▼

Prev Next Cancel Connect

STEP 3: CONFIGURE YOUR INTERNET CONNECTION

Please select the Internet connection type below:

- ☒ **DHCP Connection (Dynamic IP Address)**
Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.
- ☐ **Username / Password Connection (PPPoE)**
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Username / Password Connection (PPTP)**
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Username / Password Connection (L2TP)**
Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection.
- ☐ **Static IP Address Connection**
Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

Prev Next Cancel Connect

Internet Connection Setup Wizard (continued)

DHCP

If you choose **DHCP Connection (Dynamic IP Address)** as your **Internet Connection**, enter your IP address, configure the following settings:

DHCP CONNECTION (DYNAMIC IP ADDRESS)

MAC Address: If your Internet connection is tied to a specific PC or hardware, enter it manually or click **Clone Your PC's MAC Address**.

Host Name: Enter the host name of the router.

DNS SETTINGS

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server : Enter the secondary DNS server IP addresses.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

DHCP CONNECTION (DYNAMIC IP ADDRESS)

To set up this connection, please make sure that you are connected to the D-Link Router with the PC that was originally connected to your broadband connection. If you are, then click the Clone MAC button to copy your computer's MAC Address to the D-Link Router.

MAC Address : (optional)

Host Name :

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

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address : (optional)

SETUP COMPLETE!

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

Internet Connection Setup Wizard (continued)

PPPoE

If you choose **Username / Password Connection (PPPoE)** as your **Internet Connection**, enter your IP address, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

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

User Name :

Password :

SETUP COMPLETE!

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

Internet Connection Setup Wizard (continued)

PPTP

If you choose **Username / Password Connection (PPTP)** as your **Internet Connection**, enter your IP address, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (PPTP)

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

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

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

If you choose **Dynamic IP** or **Static IP** as the **Address Mode**, enter your PPTP Server IP address:

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

The screenshot shows the 'SET USERNAME AND PASSWORD CONNECTION (PPTP)' window. It contains a title bar, a subtitle, and a main content area with several input fields. The subtitle reads: 'To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need PPTP IP address. If you do not have this information, please contact your ISP.' The main content area has a section for 'Address Mode' with radio buttons for 'Dynamic IP' (selected) and 'Static IP'. Below this are input fields for 'PPTP IP Address', 'PPTP Subnet Mask', 'PPTP Gateway IP Address', and 'PPTP Server IP Address' (with a note '(may be same as gateway)'). There are also input fields for 'User Name', 'Password', and 'Verify Password'. At the bottom, there is a 'DNS SETTINGS' section with input fields for 'Primary DNS Address' and 'Secondary DNS Address' (with a note '(optional)'). At the very bottom are four buttons: 'Prev', 'Next', 'Cancel', and 'Connect'.

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Verify Password: Enter the password provided by your ISP one more time.

DNS SETTINGS

Primary DNS Server: Enter the primary DNS server IP addresses.

Internet Connection Setup Wizard (continued)

PPTP (continued)

Secondary DNS Server : Enter the secondary DNS server IP addresses.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address : (optional)

Prev

Next

Cancel

Connect

SETUP COMPLETE!

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

Prev

Next

Cancel

Connect

Internet Connection Setup Wizard (continued)

L2TP

If you choose **Username / Password Connection (L2TP)** as your **Internet Connection**, enter your IP address, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

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

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

If you choose **Dynamic IP** or **Static IP** as the **Address Mode**, enter your PPTP Server IP address:

L2TP 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.

Verify Password: Enter the password provided by your ISP one more time.

DNS SETTINGS

Primary DNS Server: Enter the primary DNS server IP addresses.

Internet Connection Setup Wizard (continued)

L2TP (continued)

Secondary DNS Server : Enter the secondary DNS server IP addresses.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address : (optional)

Prev

Next

Cancel

Connect

SETUP COMPLETE!

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

Prev

Next

Cancel

Connect

Internet Connection Setup Wizard (continued)

Static IP Address Connection

If you choose **Static IP Address Connection** as your **Internet Connection**, enter your IP address, configure the following settings:

SET STATIC IP ADDRESS CONNECTION

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

Subnet Mask: Enter the subnet mask.

Default Gateway: Enter the default gateway.

DNS SETTINGS

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server : Enter the secondary DNS server IP addresses.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

SET STATIC IP ADDRESS CONNECTION

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

IP Address :

Subnet Mask :

Default Gateway :

DNS SETTINGS

Primary DNS Address :

Secondary DNS Address : (optional)

SETUP COMPLETE!

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

Manual Internet Connection Setup

Click **Manual Internet Setup** on from the **Internet** menu to configure your Internet connection manually. This section is only recommended for advanced users. It is recommended to use the Setup Wizard to set up your Internet connection.

INTERNET CONNECTION TYPE

My Internet Connection is: Select the Internet Connection protocol from the dropdown menu your ISP uses. The options are **Static IP**, **DHCP**, **PPPoE**, **PPTP**, **L2TP**, and **DS-Lite**.

For **Static IP** setup help refer to page **34**. Select the connection type your ISP uses.

For **Dynamic IP (DHCP)** setup help refer to page **35**.

For **PPPoE (Username / Password)** setup help refer to page **36**.

For **PPTP (Username / Password)** setup help refer to page **38**.

For **L2TP (Username / Password)** setup help refer to page **40**.

For **DS-Lite** setup help refer to page **42**.

The screenshot shows the D-Link DIR-819 Setup Wizard. At the top, there's a header with the D-Link logo and 'DIR-819' next to a 'SETUP' button. Below this, there are two tabs: 'INTERNET' and 'WAN'. The 'WAN' tab is selected and highlighted in orange. Under the 'WAN' tab, there's a section titled 'WAN' with 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.' Below the instructions is a note: 'Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' At the bottom of this section are two buttons: 'Save Settings' and 'Don't Save Settings'.

Below the 'WAN' section, there's another section titled 'INTERNET CONNECTION TYPE' with the instruction: 'Choose the mode to be used by the router to connect to the Internet.' Under this instruction, there's a label 'My Internet Connection is :' followed by a dropdown menu. The dropdown menu is open, showing the following options: 'Static IP', 'Dynamic IP (DHCP)', 'PPPoE (Username / Password)', 'PPTP (Username / Password)', 'L2TP (Username / Password)', and 'DS-Lite'.

Static IP

If you choose **Static IP**, please configure the following fields:

STATIC IP ADDRESS INTERNET CONNECTION TYPE :

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

Subnet Mask: Enter the subnet mask.

Default Gateway: Enter the default gateway.

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server : Enter the secondary DNS server IP addresses.

MTU Size: Enter the MTU size.

MAC Address: If your Internet connection is tied to a specific PC or hardware, enter it manually or click **Clone Your PC's MAC Address**.

When you have finished configuring your Internet connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup page. At the top, there's a header with the D-Link logo and 'DIR-819' next to a 'SETUP' button. Below this, there are tabs for 'INTERNET' and 'WAN'. The 'WAN' tab is selected. The main content area is titled 'WAN' and contains instructions for configuring the Internet Connection type. It lists several connection types: Static IP, DHCP, PPPoE, PPTP, L2TP, and DS-Lite. A note states that if using PPPoE, PPPoE client software should be removed or disabled. There are 'Save Settings' and 'Don't Save Settings' buttons. Below this, the 'INTERNET CONNECTION TYPE' section shows a dropdown menu set to 'Static IP'. The 'STATIC IP ADDRESS INTERNET CONNECTION TYPE' section prompts the user to enter static address information from their ISP. It includes input fields for IP Address, Subnet Mask, Default Gateway, Primary DNS Server, Secondary DNS Server (optional), MTU (set to 1500), and MAC Address. A 'Clone Your PC's MAC Address' button is next to the MAC Address field. At the bottom, there are 'Save Settings' and 'Don't Save Settings' buttons.

Dynamic IP (DHCP)

If you choose **Dynamic IP (DHCP)**, please configure the following fields:

STATIC IP ADDRESS INTERNET CONNECTION TYPE :

Host Name: Enter the host name of the router.

Use Unicasting: Check this box if you are having difficulty obtaining a DHCP address from your ISP.

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server : Enter the secondary DNS server IP addresses.

MTU Size: Enter the MTU size.

MAC Address: If your Internet connection is tied to a specific PC or hardware, enter it manually or click **Clone Your PC's MAC Address**.

When you have finished configuring your Internet connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup page. At the top, there's a header with the D-Link logo and 'DIR-819' next to a 'SETUP' button. Below this, there are two tabs: 'INTERNET' and 'WAN'. The 'WAN' tab is selected and highlighted in orange. Under the 'WAN' tab, there's a section titled 'WAN' with 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.' Below the note is a 'Note' stating: 'If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' There are two buttons: 'Save Settings' and 'Don't Save Settings'.

Below the 'WAN' section, there's a section titled 'INTERNET CONNECTION TYPE'. It says 'Choose the mode to be used by the router to connect to the Internet.' and 'My Internet Connection is : Dynamic IP (DHCP)' with a dropdown arrow.

Below that, there's a section titled 'DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE :'. It says 'Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password.' Below this, there are several fields: 'Host Name : dlinkrouter', 'Use Unicasting : ☐ (compatibility for some DHCP Clients)', 'Primary DNS Server :', 'Secondary DNS Server : (optional)', 'MTU : 1500', and 'MAC Address :'. There is a button 'Clone Your PC's MAC Address' next to the MAC Address field.

At the bottom, there are two buttons: 'Save Settings' and 'Don't Save Settings'.

PPPoE (Username / Password)

If you choose **PPPoE**, please configure the following fields:

PPPOE INTERNET CONNECTION TYPE :

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Verify Password: Enter the password provided by your ISP one more time.

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

Reconnect Mode: Select either **AlwaysOn**, **On Demand**, or **Manual**. You may create a schedule by clicking **New Schedule**. Refer to **Schedules** on page **110** for more information.

If you choose **Manual** as the **Reconnect Mode**, enter the **Maximum Idle Time**:

Maximum Idle Time: Set the length of time to wait before disconnecting if there is no Internet activity. (Manual Only)

DNS Mode: Select either **Receive DNS from ISP** or **Enter DNS Manually**.

If you choose **Enter DNS Manually** as the **DNS Mode**, enter your DNS information:

Primary DNS Server: Enter the primary DNS server IP addresses.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this, there are tabs for INTERNET and WAN. The WAN tab is selected, showing the WAN configuration page. The page title is 'WAN'. 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.' A sub-note states: 'Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. Below this, the 'INTERNET CONNECTION TYPE' section is shown, with a dropdown menu set to 'PPPoE (Username / Password)'. The 'PPPOE INTERNET CONNECTION TYPE' section is expanded, showing the configuration fields. The 'Address Mode' is set to 'Dynamic IP'. The 'IP Address' field is empty. The 'User Name' field is empty. The 'Password' field is empty. The 'Verify Password' field is empty. The 'Service Name' field is empty, with '(optional)' next to it. The 'Reconnect Mode' is set to 'AlwaysOn', with a 'New Schedule' button next to it. Below this, there are radio buttons for 'On Demand' and 'Manual'. The 'Maximum Idle Time' field is empty, with '(minutes)' next to it. The 'DNS Mode' is set to 'Receive DNS from ISP', with 'Enter DNS Manually' as an option. The 'Primary DNS Server' field is empty. The 'Secondary DNS Server' field is empty, with '(optional)' next to it. The 'MTU' field is set to '1492'. The 'MAC Address' field is empty, with a 'Clone Your PC's MAC Address' button next to it. At the bottom, there are two buttons: 'Save Settings' and 'Don't Save Settings'.

PPPoE (Username / Password) (Continued)

Secondary DNS Server : Enter the secondary DNS server IP addresses.

MTU Size: Enter the MTU size.

MAC Address: If your Internet connection is tied to a specific PC or hardware, enter it manually or click **Clone Your PC's MAC Address**.

When you have finished configuring your Internet connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with 'INTERNET' and 'WAN' tabs. The 'WAN' tab is active, displaying instructions for configuring the Internet connection type. A note states: 'Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' Below the note are 'Save Settings' and 'Don't Save Settings' buttons. The 'INTERNET CONNECTION TYPE' section has a dropdown menu set to 'PPPoE (Username / Password)'. The 'PPPOE INTERNET CONNECTION TYPE' section prompts the user to 'Enter the information provided by your Internet Service Provider (ISP)'. It includes fields for IP Address, User Name, Password, Verify Password, and Service Name (optional). The Reconnect Mode is set to 'AlwaysOn' with a 'New Schedule' button. The Maximum Idle Time is set to 1492 minutes. The DNS Mode is set to 'Receive DNS from ISP'. The Primary DNS Server and Secondary DNS Server (optional) fields are present. The MTU is set to 1492. The MAC Address field has a 'Clone Your PC's MAC Address' button. At the bottom are 'Save Settings' and 'Don't Save Settings' buttons.

PPTP (Username / Password)

If you choose **PPTP**, please configure the following fields:

PPTP INTERNET CONNECTION TYPE :

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

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

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

If you choose **Dynamic IP** or **Static IP** as the **Address Mode**, enter your PPTP Server IP address:

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.

Verify Password: Enter the password provided by your ISP one more time.

Reconnect Mode: Select either **AlwaysOn**, **On Demand**, or **Manual**. You may create a schedule by clicking **New Schedule**. Refer to **Schedules** on page **110** for more information.

If you choose **Manual** as the **Reconnect Mode**, enter the **Maximum Idle Time**:

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with INTERNET and WAN tabs. The WAN tab is active, showing a section for configuring the Internet Connection type. It includes a dropdown menu for 'My Internet Connection is' set to 'PPTP (Username / Password)'. Below this is the 'PPTP INTERNET CONNECTION TYPE' section, which prompts the user to enter information provided by their Internet Service Provider (ISP). The form includes fields for Address Mode (Dynamic IP selected), PPTP IP Address, PPTP Subnet Mask, PPTP Gateway IP Address, PPTP Server IP Address, Username, Password, Verify Password, Reconnect Mode (AlwaysOn selected), Maximum Idle Time (minutes), Primary DNS Server, Secondary DNS Server (optional), MTU (1492), and MAC Address. There is a 'Clone Your PC's MAC Address' button. At the bottom are 'Save Settings' and 'Don't Save Settings' buttons.

PPTP (Username / Password) (Continued)

Maximum Idle Time: Set the length of time to wait before disconnecting if there is no Internet activity. (Manual Only)

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server : Enter the secondary DNS server IP addresses.

MTU Size: Enter the MTU size.

MAC Address: If your Internet connection is tied to a specific PC or hardware, enter it manually or click **Clone Your PC's MAC Address**.

When you have finished configuring your Internet connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with INTERNET and WAN tabs. The WAN tab is active, showing the WAN configuration section. The section title is WAN, followed by a note about configuring the Internet Connection type. Below the note are two buttons: Save Settings and Don't Save Settings. The main configuration area is titled INTERNET CONNECTION TYPE, with a dropdown menu set to PPTP (Username / Password). Below this is a section titled PPTP INTERNET CONNECTION TYPE: Enter the information provided by your Internet Service Provider (ISP). This section contains various input fields: Address Mode (radio buttons for Dynamic IP and Static IP), PPTP IP Address, PPTP Subnet Mask, PPTP Gateway IP Address, PPTP Server IP Address, Username, Password, Verify Password, Reconnect Mode (radio buttons for AlwaysOn, On Demand, and Manual, with a dropdown for AlwaysOn and a New Schedule button), Maximum Idle Time (a text input field with a minutes label), Primary DNS Server, Secondary DNS Server (optional), MTU (a text input field with a value of 1492), and MAC Address (a text input field with a Clone Your PC's MAC Address button). At the bottom of the form are two buttons: Save Settings and Don't Save Settings.

L2TP (Username / Password)

If you choose **L2TP**, please configure the following fields:

L2TP INTERNET CONNECTION TYPE :

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

If you choose **Static IP** as the **Address Mode**, enter your IP address:

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

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

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

If you choose **Dynamic IP** or **Static IP** as the **Address Mode**, enter your PPTP Server IP address:

L2TP 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.

Verify Password: Enter the password provided by your ISP one more time.

Reconnect Mode: Select either **AlwaysOn**, **On Demand**, or **Manual**. You may create a schedule by clicking **New Schedule**. Refer to **Schedules** on page **110** for more information.

If you choose **Manual** as the **Reconnect Mode**, enter the **Maximum Idle Time**:

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this, there are tabs for INTERNET and WAN. The WAN tab is selected, showing a section for configuring the Internet Connection type. The page instructs the user to choose a mode from Static IP, DHCP, PPPoE, PPTP, L2TP, and DS-Lite. A note specifies that if using PPPoE, any PPPoE client software must be removed. Below the note are 'Save Settings' and 'Don't Save Settings' buttons. The 'INTERNET CONNECTION TYPE' section shows 'My Internet Connection is' set to 'L2TP (Username / Password)'. The 'L2TP INTERNET CONNECTION TYPE' section prompts the user to enter information from their ISP. It includes fields for Address Mode (Dynamic IP selected), L2TP IP Address, L2TP Subnet Mask, L2TP Gateway IP Address, L2TP Server IP Address, Username, Password, and Verify Password. The Reconnect Mode is set to 'AlwaysOn' with a 'New Schedule' button. Other fields include Maximum Idle Time (minutes), Primary DNS Server, Secondary DNS Server (optional), MTU (1492), and MAC Address, with a 'Clone Your PC's MAC Address' button. 'Save Settings' and 'Don't Save Settings' buttons are at the bottom.

L2TP (Username / Password) (continued)

Maximum Idle Time: Set the length of time to wait before disconnecting if there is no Internet activity. (Manual Only)

Primary DNS Server: Enter the primary DNS server IP addresses.

Secondary DNS Server : Enter the secondary DNS server IP addresses.

MTU Size: Enter the MTU size.

MAC Address: If your Internet connection is tied to a specific PC or hardware, enter it manually or click **Clone Your PC's MAC Address**.

When you have finished configuring your Internet connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with INTERNET and WAN tabs. The WAN tab is active, showing a section for configuring the Internet Connection type. The text indicates that users should choose from Static IP, DHCP, PPPoE, PPTP, L2TP, and DS-Lite. A note specifies that if using PPPoE, any PPPoE client software should be removed. Below this are 'Save Settings' and 'Don't Save Settings' buttons. The 'INTERNET CONNECTION TYPE' section prompts the user to choose a mode, with 'L2TP (Username / Password)' selected. The 'L2TP INTERNET CONNECTION TYPE' section follows, asking for information from the ISP. It includes fields for L2TP IP Address, Subnet Mask, Gateway IP Address, and Server IP Address. There are also fields for Username, Password, and Verify Password. The 'Reconnect Mode' is set to 'AlwaysOn' with a 'New Schedule' button. Other fields include 'Maximum Idle Time' (set to 1492 minutes), 'Primary DNS Server', 'Secondary DNS Server' (optional), and 'MTU' (set to 1492). A 'MAC Address' field is present with a 'Clone Your PC's MAC Address' button. At the bottom are 'Save Settings' and 'Don't Save Settings' buttons.

DS-Lite

If you choose **DS-Lite**, please configure the following fields:

DS-Lite Mode: Select either **DS-Lite DHCPv6 Option** or **Manual Configuration**.

If you choose **Manual Configuration**, configure the **AFTR IPv6 Address** field:

AFTR Name or Address: Enter the AFTR Name or Address.

If you choose **DS-Lite DHCPv6 Option** or **Manual Configuration**, configure the **B4 IPv6 Address** field:

B4 IPv6 Address: Enter the B4 IPv6 Address. (optional)

WAN IPv6 Address: Your WAN IPv6 address is listed here.

IPv6 WAN Default Gateway: Your WAN IPv6 default gateway address is listed here.

When you have finished configuring your Internet connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with 'INTERNET' and 'WAN' tabs. The 'WAN' tab is active, displaying the WAN configuration section. The section title is 'WAN'. 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.' A sub-note states: 'Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. Below this is the 'INTERNET CONNECTION TYPE' section, which says 'Choose the mode to be used by the router to connect to the Internet.' and shows a dropdown menu set to 'DS-Lite'. The next section is 'AFTR ADDRESS INTERNET CONNECTION TYPE', which says 'Enter the AFTR address information provided by your Internet Service Provider (ISP)'. It contains three radio buttons for 'DS-Lite Configuration': 'DS-Lite DHCPv6 Option' (selected) and 'Manual Configuration'. Below these are three input fields: 'AFTR IPv6 Address', 'B4 IPv4 Address' (with a value of 192.0.0. and an optional checkbox), and 'WAN IPv6 Address'. At the bottom of this section is a label for 'IPv6 WAN Default Gateway'. Finally, there are 'Save Settings' and 'Don't Save Settings' buttons at the very bottom.

Wireless Settings

Click **Wireless Settings** on the navigation menu to configure your Wireless Settings. You may run the **Wireless Connection Setup Wizard**, **Add a Device with WPS**, or run the **Manual Wireless Connection Setup**.

WIRELESS NETWORK SETUP WIZARD

Click the **Wireless Connection Setup Wizard** button to easily configure your wireless settings. Refer to page **Wireless Connection Setup Wizard** on page **44** for more information.

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

Click the **Add Wireless Device with WPS button** (Wi-Fi Protected Setup) to add a device using WPS Wizard.

MANUAL WIRELESS CONNECTION SETUP

Click the **Manual Wireless Connection Setup** button to manually configure your wireless LAN settings.

The screenshot shows the D-Link DIR-819 Setup interface. At the top, there's a header with the D-Link logo and the model number DIR-819. Below this is a navigation bar with 'WIRELESS SETTINGS' and 'WIRELESS SETTINGS' (highlighted in orange). The main content area is titled 'WIRELESS SETTINGS' and contains three sections:

- WIRELESS SETTINGS**: A section with a note about web-based wizards and a button labeled 'Wireless Connection Setup Wizard'.
- ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD**: A section with a note about connecting devices and a button labeled 'Add Wireless Device with WPS'.
- MANUAL WIRELESS CONNECTION SETUP**: A section with a note about manual configuration and a button labeled 'Manual Wireless Connection Setup'.

Wireless Connection Setup Wizard

This section describes the Wireless Connection Setup Wizard.

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

Network Name (SSID) 2.4GHz: Enter a name for the 2.4 GHz wireless network.

Network Name (SSID) 5GHz: Enter a name for the 5 GHz wireless network.

Automatically assign a network: Choose this option to have the router automatically create a secure wireless security key.

Manually assign a network key: Choose this option to create your own wireless security key.

Click **Next** to continue.

SETUP COMPLETE!

If you choose **Automatically assign a network**, there is no further configuration. A summary of your wireless configuration settings is displayed.

Click **Save** to finish.

STEP 1: WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD
Give your network a name, using up to 32 characters.

Network Name (SSID) 2.4GHz :

Network Name (SSID) 5GHz :

☒ **Automatically assign a network key (Recommended)**
To prevent outsiders from accessing your network, the router will automatically assign a security key (also called WEP or WPA) to your network.

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

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

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

Wireless Band : 2.4GHz Band Wireless Network Name (SSID) : Your_2.4GHz_Network Security Mode : Auto (WPA or WPA2) - Personal Cipher Type: TKIP and AES Pre-Shared Key : d80a73f50c
Wireless Band : 5GHz Band Wireless Network Name (SSID) : Your_5GHz_Network Security Mode : Auto (WPA or WPA2) - Personal Cipher Type: TKIP and AES Pre-Shared Key : d80a73f50c

Wireless Connection Setup Wizard (continued)

If you choose **Manually assign a network key**, there is no further configuration. A summary of your wireless configuration settings is displayed.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

If you checked **Use the same Wireless Security Password on both 2.4GHz and 5GHz band**, enter the **Wireless Security Password**.

Wireless Security Password: Enter a wireless password according to the onscreen guidelines.

If you unchecked **Use the same Wireless Security Password on both 2.4GHz and 5GHz band**, enter a **2.4GhzWireless Security Password** and **5GhzWireless Security Password**:

2.4GhzWireless Security Password: Enter a wireless password according to the onscreen guidelines.

5GhzWireless Security Password: Enter a wireless password according to the onscreen guidelines.

Click **Next** to continue.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

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

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

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

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

Wireless Security Password :

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

Prev Next Cancel Save

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

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

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

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

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

2.4GhzWireless Security Password :

5GhzWireless Security Password :

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

Prev Next Cancel Save

Wireless Connection Setup Wizard (continued)

SETUP COMPLETE!

A summary of your wireless configuration settings is displayed. Click **Save** to finish.

Click **Save** to finish.

SETUP COMPLETE!

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

Wireless Band : 2.4GHz Band

Wireless Network Name (SSID) : Your_2.4GHz_Network

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type: TKIP and AES

Pre-Shared Key : A_Str0ng_P@ssWord!

Wireless Band : 5GHz Band

Wireless Network Name (SSID) : Your_5GHz_Network

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type: TKIP and AES

Pre-Shared Key : A_Str0ng_P@ssWord!

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Next

Cancel

Save

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Add Wireless Device with WPS

This section describes the **Add Wireless Device with WPS** wizard.

STEP 1: SELECT CONFIGURATION METHOD NETWORK

Auto: Choose this option to automatically add a device to your network using this 'virtual' WPS button.

Manual: Choose this option to see the currently configured wireless networking settings to enter on your wireless client.

Choose your configuration type and refer to the following pages.

STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK

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

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

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

Prev Next Cancel Connect

Add Wireless Device with WPS - Auto

If you choose **Auto** and click **Next**, choose the WPS configuration type:

STEP 2: CONNECT YOUR WIRELESS DEVICE

Select the WPS method to use to connect your wireless device, either **PIN** or **PBC**. Using WPS-PIN is not recommended due to security vulnerabilities.

PIN: Choose this option and enter the currently configured WPS PIN, refer to **Wi-Fi Protected Setup** on page **96** for information on setting the WPS Pin.

PBC: Choose this option to begin the WPS PBC (Push Button Control) pairing process.

Click **Continue** to continue.

STEP 2: CONNECT YOUR WIRELESS DEVICE

Press the WPS button or enter the WPS PIN on the client device which you wish to add to your DIR-819's network. The WPS process is only active for 120 seconds.

If your device is successfully added, this screen is displayed. Click **Wireless Status** to be directed to the Wireless Status page. Refer to **Wireless** on page **117** for more information.

If your device could not be found, this screen is displayed. You may click **Cancel** and retry running the wizard again.

STEP 2: CONNECT YOUR WIRELESS DEVICE

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

☒ **PIN :**

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

☐ **PBC :**

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

STEP 2: CONNECT YOUR WIRELESS DEVICE

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

Remain time in second: 120

Adding wireless device: Started

STEP 2: CONNECT YOUR WIRELESS DEVICE

Adding wireless device: Succeeded. To add another device click on the Cancel button below or click on the Wireless Status button to check wireless status.

STEP 2: CONNECT YOUR WIRELESS DEVICE

Adding wireless device: Session Time-Out.

Add Wireless Device with WPS - Manual

If you choose **Manual** and click **Next** the currently configured wireless networking settings to enter on your wireless client are displayed.

Click **Wireless Status** to be directed to the Wireless Status page. Refer to **Wireless** on page **117** for more information.

STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK

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

Auto

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

Manual

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

Prev

Next

Cancel

Connect

SETUP COMPLETE!

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

2.4 Ghz Frequency

SSID: Your_2.4Ghz_Network
Security Mode: WPA2-PSK
Cipher Type: AES
-PIN (Personal Identification Number)
Pre-shared Key:
ad058dce7893caf98ca91

5 Ghz Frequency

SSID: Your_5Ghz_Network
Security Mode: None

Prev

Next

Cancel

Wireless Status

Manual Wireless Connection Setup

Click **Manual Wireless Connection Setup** from the **Wireless Settings** menu to configure your wireless LAN settings. From this page you can configure the wireless security and network parameters for both the 2.4 GHz and 5 GHz network. When you have finished configuring your wireless network, click **Save Settings**.

WIRELESS NETWORK SETTINGS

Wireless Band: 2.4 GHz or 5 GHz

Enable Wireless: Enable or disable this wireless network. From the drop down menu you may apply a schedule to enable or disable this wireless network. Click **New Schedule** to create a new schedule. Refer to **Schedules** on page **110** for more information.

Wireless Network Name: Create a name for your wireless network.

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 **802.11b only**, **802.11g only**, **802.11n only**, **Mixed 802.11g and 802.11b**, or the default **Mixed 802.11n, 802.11g and 802.11b**.

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

Enable Auto Channel Scan: Check this box to have the router automatically determine the best wireless channel to use.

Wireless Channel: If Auto Scan is disabled, use the dropdown menu to select the wireless channel to use.

Transmission Rate: Select the desired wireless transmission rate.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with 'WIRELESS SETTINGS' and 'WIRELESS NETWORK'. The 'WIRELESS NETWORK' tab is active, showing a section titled 'WIRELESS NETWORK' with instructions and a 'Save Settings' button. Below this is the 'WIRELESS NETWORK SETTINGS' section, which is configured for the 2.4GHz Band. The 'Enable Wireless' checkbox is checked, and the 'Wireless Network Name' is set to 'Your_2.4GHz_Network'. The '802.11 Mode' dropdown is set to 'Mixed 802.11n, 802.11g and 802.11b'. The 'Enable Auto Channel Scan' checkbox is checked. The 'Wireless Channel' is set to '04', the 'Transmission Rate' is 'Best (automatic)', and the 'Channel Width' is '20/40 MHz(Auto)'. The 'Visibility Status' is set to 'Visible'. At the bottom, the 'WIRELESS SECURITY MODE' section shows the 'Security Mode' set to 'None'.

Manual Wireless Connection Setup (continued)

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

Channel Width Select **Auto 20/40/80** if you are using 802.11ac, 802.11n, and 802.11a (5 GHz): devices. **Auto 20/40** select if you are using 802.11n and 802.11a devices. **20 MHz** if you are only using 802.11a devices. Higher channel width allows for higher speeds.

Visibility Status: The default setting is **Visible**. Select **Invisible** if you do not want to broadcast the SSID of your wireless network.
***Note:** Making a network invisible is not a form of security alone.*

WIRELESS NETWORK SETTINGS

Wireless Band : 5GHz Band

Enable Wireless : ☒ Always New Schedule

Wireless Network Name : Your_5GHz_Network

802.11 Mode : 802.11a only
802.11n only
Mixed 802.11a and 802.11n
Mixed 802.11ac and 802.11n
Mixed 802.11ac, 802.11n and 802.11a

Enable Auto Channel Scan : ☒

Wireless Channel : 153

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

Channel Width : 20 MHz
20/40 MHz(Auto)
20/40/80 MHz(Auto)

Visibility Status : ☒ Visible ☐ Invisible

WIRELESS SECURITY MODE

Refer to **Wireless Security Mode** on page 52 for more information on configuring your wireless network’s security.

WIRELESS SECURITY MODE

Security Mode : None
WEP
WPA-Personal
WPA-Enterprise

Wireless Security Mode

The following pages describe each type of security option. When you have finished configuring your wireless network, click **Save Settings**.

WIRELESS SECURITY MODE

Security Option: Select a wireless security encryption option. The options are **None**, **WEP**, **WPA-Personal**, and **WPA-Enterprise**. Using **WPA** is recommended.

WIRELESS SECURITY MODE

Security Mode :

NoneWEPWPA-PersonalWPA-Enterprise

None

WIRELESS SECURITY MODE

Security Option: **None**. Disabling encryption and leaving your wireless network open is not recommended. Any wireless client will be able to access your network, be able to use your Internet connection, and leaves you open to security threats.

WIRELESS SECURITY MODE

Security Mode :

None

WEP

WIRELESS SECURITY MODE

Security Option: **WEP**. Using WEP encryption is not recommended, as it only offers a trivial amount of protection for your wireless data. WEP encryption is only available for use with 802.11b, 802.11g, and 802.11a.

WIRELESS SECURITY MODE

Security Mode :

WEP

WEP

WEP Key Length: Select the Encryption cipher key bit strength. The available options are **64 bit (10 hex digits)** or **128 bit (26 hex digits)**.

WEP

WEP Key Length :

64 bit (10 hex digits)

(length applies to all keys)

Authentication :

Both

WEP Key 1 :

Authentication: Select either **Both** or **Shared Key**.

WEP Key 1: Enter a wireless key to use on your wireless network.

WPA-Personal / WPA-Enterprise

WIRELESS SECURITY MODE

Security Option: Select either **WPA-Personal** or **WPA-Enterprise**. If you are running a dedicated RADIUS authentication server, choose **WPA-Enterprise**.

WIRELESS SECURITY MODE	
Security Mode :	WPA-Personal WPA-Enterprise

WPA

WPA Mode: Select either **Auto(WPA or WPA2)** or **WPA2 Only**. **WPA2 Only** is the recommended wireless security type. Select **Auto (WPA or WPA2)** only if your wireless clients do not support **WPA2**.

WPA	
WPA Mode :	WPA2 Only
Cipher Type :	AES
Group Key Update Interval :	3600 (seconds)

Cipher Type: Select either **TKIP and AES**, **TKIP**, or **AES**. Using **AES** is the recommended since TKIP is no longer considered secure.

Group Key Update Interval: Enter the group key update interval.

If you selected **WPA-Personal**, enter the Pre-Shared Key:

PRE-SHARED KEY

Pre-Shared Key: Enter a wireless key to use on your wireless network.

PRE-SHARED KEY	
Pre-Shared Key :	

If you selected **WPA-Enterprise**, enter your EAP 802.1X Radius server information:

EAP (802.1X)

RADIUS server IP Address: Enter a wireless key to use on your wireless network.

EAP (802.1X)	
RADIUS server IP Address :	
RADIUS server Port :	
RADIUS server Shared Secret:	

RADIUS server Port: Enter your RADIUS server's port number.

RADIUS server Shared Secret: Enter your RADIUS server's shared secret.

Network Settings

Click **Network Settings** on the navigation menu to configure your local network settings. When you are satisfied with your configuration, click **Save Settings**.

ROUTER SETTINGS

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

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

Host Name: 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.

DHCP SERVER SETTINGS

Enable DHCP Server: 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.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes 'DIR-819' and 'SETUP'. Below this, there are tabs for 'NETWORK SETTINGS' and 'NETWORK SETTINGS' (highlighted in orange). The 'NETWORK SETTINGS' section contains instructions and a 'Save Settings' button. Below this is the 'ROUTER SETTINGS' section, which includes fields for 'Router IP Address' (192.168.0.1), 'Default Subnet Mask' (255.255.255.0), 'Host Name' (dlinkrouter), 'Local Domain Name' (optional), and 'Enable DNS Relay' (checked). Below this is the 'DHCP SERVER SETTINGS' section, which includes instructions, 'Enable DHCP Server' (checked), 'DHCP IP Address Range' (100 to 200), 'DHCP Lease Time' (10080 minutes), and 'Always broadcast' (unchecked). Below this is the 'ADD DHCP RESERVATION' section, which includes an 'Enable' checkbox, 'Computer Name', 'IP Address', 'MAC Address', 'Clone Your PC's MAC Address' button, and 'Add / Update' and 'Clear' buttons. Below this is the 'DHCP RESERVATIONS LIST' section, which is currently empty. At the bottom, there is a 'NUMBER OF DYNAMIC DHCP CLIENTS' section with fields for 'Host Name', 'IP Address', 'MAC Address', and 'Expired Time', and 'Save Settings' and 'Don't Save Settings' buttons.

Network Settings (continued)

- DHCP Lease Time:** The maximum length of time for the IP address lease. Enter the Lease time in minutes.
- Always broadcast:** Check this box if your clients are having difficulty obtaining an IP address.

DHCP SERVER SETTINGS

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

Enable DHCP Server :

☒

DHCP IP Address Range :

100

to

200

(addresses within the LAN subnet)

DHCP Lease Time :

10080

(minutes)

Always broadcast :

☐

(compatibility for some DHCP Clients)

ADD DHCP RESERVATION

DHCP Reservation allows you to reserve IP addresses for specific machines based on their unique hardware MAC addresses. During DHCP IP address assignment, these devices will receive the same IP address. This is particularly useful if you run servers on your network.

- Enable:** Enable or disable DHCP reservation.
- Computer Name:** Enter a name for your DHCP reservation rule. To easily add an IP reservation for an existing device select it from the drop down menu and click the << button. The fields will automatically populate.
- IP Address:** Enter the IP address you wish to have assigned to this device.
- MAC Address:** Enter the MAC address of the device you wish to apply the DHCP reservation rule to. Click **Clone Your PC's MAC Address** to fill this field.

Click **Add / Update** when you are done.

ADD DHCP RESERVATION

Enable :

☐

Computer Name :

<<

Computer Name

▼

IP Address :

MAC Address :

Clone Your PC's MAC Address

Add / Update

Clear

DHCP RESERVATIONS LIST

The currently defined DHCP Reservations are listed here.

DHCP RESERVATIONS LIST				
Enable	Host Name	IP Address		

- Enable:** Enable or disable this DHCP Reservation rule.
- Host Name:** The host name for this rule.
- IP Address:** The DHCP IP address reservation.

Network Settings (continued)

MAC Address: The MAC address of the device.

Edit Button: Click this button to edit this rules settings.

Delete Button: Click this button to delete this DHCP IP Reservation.

DHCP RESERVATIONS LIST				
Enable	Host Name	IP Address		

NUMBER OF DYNAMIC DHCP CLIENTS

This section displays all of the currently connected DHCP cclients. The Host Name, IP address, MAC Address, and expiration time of each client is displayed in the table.

Click **Save Settings** when you are finished.

NUMBER OF DYNAMIC DHCP CLIENTS			
Host Name	IP Address	MAC Address	Expired Time
Save Settings Don't Save Settings			

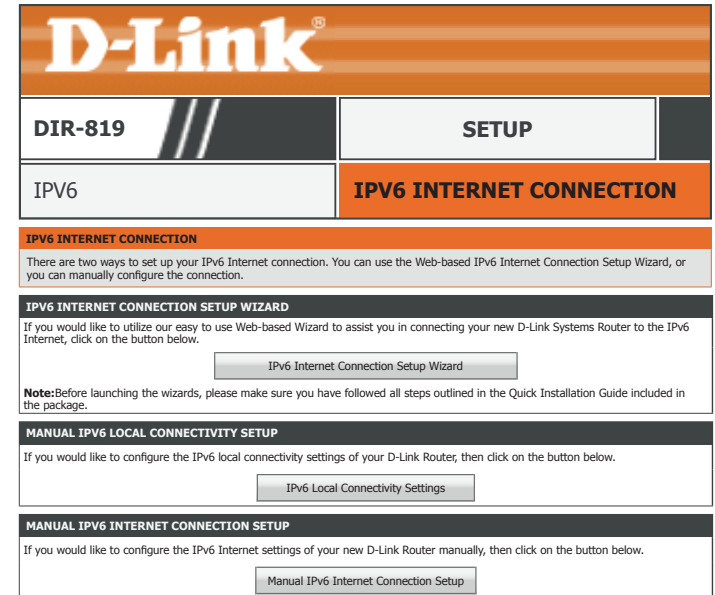
IPv6

Click **IPv6** on the navigation menu to configure IPv6 connectivity.

The **IPv6 Internet Connection Setup Wizard** allows you to quickly set up an IPv6 Internet connection which uses **PPPoE**, **Static IP**, or **6rd**. See **IPv6 Internet Connection Setup Wizard** on page **58** for more information.

To configure your router to use IPv6 locally on your LAN only see **IPv6 Local Connectivity Settings** on page **62**.

You may also manually configure your IPv6 connection. See **Manual IPv6 Internet Connection Setup** on page **63**.



IPv6 Internet Connection Setup Wizard

The **IPv6 Internet Connection Setup Wizard** allows you to quickly set up an IPv6 Internet connection which uses **PPPoE**, **Static IP**, or **6rd**. Click **Next** to begin.

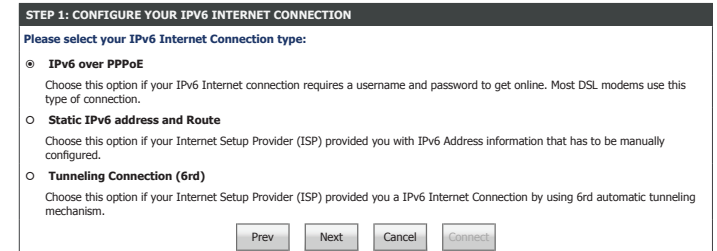
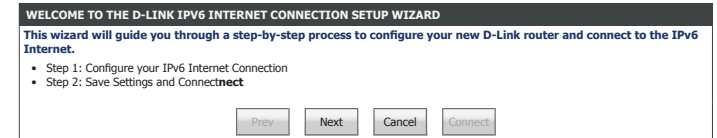
STEP 1: CONFIGURE YOUR IPV6 INTERNET CONNECTION

Choose your IPv6 connection type and click **Next**.

For **IPv6 over PPPoE** setup help refer to page **59**.

For **Static IPv6 address and Route** setup help refer to page **60**.

For **Tunneling Connection (6rd)** setup help refer to page **61**.



IPv6 Internet Connection Setup Wizard

IPv6 over PPPoE

If you choose **IPv6 over PPPoE** as your **Internet Connection**, enter your IP address, configure the following settings:

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

PPPoE Session : Select whether to **Share with IPv4** or **Create a new session**.

If you choose **Create a new session** as the **PPPoE Session**, fill in the following fields:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Verify Password: Enter the password provided by your ISP one more time.

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

Click **Next** to continue.

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

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

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

User Name :

Password :

Verify Password :

Service Name : (optional)

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

SETUP COMPLETE!

Click **Connect** to finish the setup.

SETUP COMPLETE!

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

IPv6 Internet Connection Setup Wizard

Static IPv6 address and Route

If you choose **Static IPv6 address and Route** as your **Internet Connection**, enter your IP address, configure the following settings:

SET STATIC IPV6 ADDRESS CONNECTION

- Use Link-Local Address:** Enable or disable using the Link-Local Address. The IPv6 Address and Subnet Prefix Length is automatically populated with this function.
- IPv6 Address:** Enter the address supplied by your ISP.
- Subnet Prefix Length:** Enter the subnet prefix length supplied by your ISP.
- Default Gateway:** Enter the default gateway for your IPv6 connection.
- Primary IPv6 DNS Address:** Enter the primary DNS server address.
- Secondary IPv6 DNS Address:** Enter the secondary DNS server address.
- LAN IPv6 Address:** Enter your the LAN IPv6 Address you want to use.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

SET STATIC IPV6 ADDRESS CONNECTION

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

Use Link-Local Address : ☒

IPv6 Address :

Subnet Prefix Length :

Default Gateway :

Primary IPv6 DNS Address :

Secondary IPv6 DNS Address :

LAN IPv6 Address :

Prev

Next

Cancel

Connect

SETUP COMPLETE!

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

Prev

Next

Cancel

Connect

IPv6 Internet Connection Setup Wizard

Tunneling Connection (6rd)

If you choose **Tunneling Connection (6rd)** as your **Internet Connection**, enter your IP address, configure the following settings:

SET UP 6RD TUNNELING CONNECTION

- 6rd IPv6 Prefix:** Enter the 6rd IPv6 prefix and mask length supplied by your ISP.
- IPv4 Address:** Displays the router's IPv4 address and mask length.
- Assigned IPv6 Prefix:** Displays the router's assigned IPv6 prefix.
- 6rd Border Relay IPv4 Address:** Enter the 6rd border relay IPv4 address settings supplied by your ISP.
- IPv6 DNS Server:** Enter the IPv6 DNS server address.

Click **Next** to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

SET UP 6RD TUNNELING CONNECTION

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

6rd IPv6 Prefix : /

IPv4 Address : Mask Length :

Assigned IPv6 Prefix :

6rd Border Relay IPv4 Address :

Primary IPv6 DNS Address :

Prev

Next

Cancel

Connect

SETUP COMPLETE!

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

Prev

Next

Cancel

Connect

IPv6 Local Connectivity Settings

Click the **IPv6 Local Connectivity Settings** button to configure IPv6 on your local network. When you are satisfied with your configuration, click **Save Settings**.

IPv6 ULA SETTINGS

Enable ULA: Enable or disable ULA.

Use default ULA prefix: Enable or disable the use of the default ULA prefix.

If you enabled **ULA**, enter your ULA prefix:

ULA Prefix: Enter your ULA prefix.

IPv6 ULA SETTINGS

Current ULA Prefix: The current ULA Prefix is displayed here.

LAN IPv6 ULA: The current LAN IPv6 ULA is displayed here.

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup interface. At the top, there's a header with the D-Link logo and 'DIR-819' model number. Below this is a 'SETUP' button. The main navigation bar includes 'IPv6' and 'IPv6 LOCAL CONNECTIVITY SETTING'. The 'IPv6 LOCAL CONNECTIVITY SETTINGS' section is active, displaying instructions: 'Use this section to configure Unique Local IPv6 Unicast Address (ULA) settings for your router. ULA is intended for local communications and not expected to be routable on the global Internet.' Below the instructions are 'Save Settings' and 'Don't Save Settings' buttons. The 'IPv6 ULA SETTINGS' section shows 'Enable ULA' checked, 'Use default ULA prefix' checked, and a text field for 'Use default ULA prefix' with a '/64' suffix. The 'CURRENT IPv6 ULA SETTINGS' section displays 'Current ULA Prefix : /64' and 'LAN IPv6 ULA : /64'. At the bottom are 'Save Settings' and 'Don't Save Settings' buttons.

Manual IPv6 Internet Connection Setup

Click the **Manual IPv6 Internet Connection Setup** button to manually configure your IPv6 connection to your ISP. When you are satisfied with your configuration, click **Save Settings**.

IPv6 INTERNET CONNECTION SETUP WIZARD

My IPv6 Connection is: Choose your IPv6 connection type from the drop-down menu. You will be presented with the appropriate options for your connection type.

For **Static IPv6** refer to page **64**.

For **Autoconfiguration(SLAAC/DHCPv6)** refer to page **66**.

For **PPPoE** refer to page **68**.

For **IPv6 in an IPv4 Tunnel** refer to page **71**.

For **6to4** refer to page **74**.

For **6rd** refer to page **76**.

For **Local Connectivity Only** refer to page **78**.

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

The screenshot shows the D-Link DIR-819 Setup Wizard. At the top, the D-Link logo is displayed. Below it, the model number 'DIR-819' and the word 'SETUP' are shown. The main section is titled 'IPv6' and contains a sub-section 'IPv6' with a description: 'Use this section to configure your IPv6 Connection Type. If you are unsure of your connection method, please contact your Internet Service Provider.' Below this description are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'IPv6 CONNECTION TYPE' section is highlighted, and it contains a dropdown menu labeled 'My IPv6 Connection is:'. The dropdown menu is open, showing the following options: 'Static IPv6', 'Autoconfiguration(SLAAC/DHCPv6)', 'PPPoE', 'IPv6 in IPv4 Tunnel', '6to4', '6rd', and 'Local Connectivity Only'.

Static IPv6

IPv6 CONNECTION TYPE

My IPv6 Connection is: Select **Static IPv6** if your IPv6 information is provided by your ISP.

WAN IPv6 ADDRESS SETTINGS

Use Link-Local Address: Enable or disable using the Link-Local Address. The IPv6 Address and Subnet Prefix Length is automatically populated with this function.

IPv6 Address: Enter the address supplied by your ISP.

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

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

Primary DNS Address: Enter the primary DNS server address.

Secondary DNS Address: Enter the secondary DNS server address.

LAN IPv6 Address Settings

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

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

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this, there are tabs for IPv6 and IPv4, with IPv6 being the active tab. The main content area is titled 'IPv6' and contains instructions to configure the IPv6 connection type. A dropdown menu shows 'Static IPv6' selected. Below this is the 'WAN IPv6 ADDRESS SETTINGS' section, which includes a checkbox for 'Use Link-Local Address' (checked) and input fields for IPv6 Address, Subnet Prefix Length, Default Gateway, Primary DNS Address, and Secondary DNS Address. The 'LAN IPv6 ADDRESS SETTINGS' section follows, with instructions to configure internal network settings. It includes input fields for LAN IPv6 Address (with a /64 suffix) and LAN IPv6 Link-Local Address (showing a default value). The 'ADDRESS AUTOCONFIGURATION SETTINGS' section includes a checkbox for 'Enable Automatic IPv6 address assignment' (checked) and a dropdown for 'Autoconfiguration Type' (showing 'SLAAC+RDNS'). At the bottom, there is a 'Router Advertisement Lifetime' field (in minutes) and 'Save Settings' and 'Don't Save Settings' buttons.

Static IPv6 (continued)

Address Autoconfiguration Settings

Enable Automatic IPv6 address assignment: Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available.

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

If you choose **SLAAC+Stateless DHCP**, please configure the following field:

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

If you choose **Stateful DHCPv6**, please configure the following fields:

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.

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

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type :

SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type :

Stateful DHCPv6

IPv6 Address Range (Start) : :00 1

IPv6 Address Range (End) : :00 ff

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

Autoconfiguration(SLAAC/DHCPv6)

IPv6 CONNECTION TYPE

My IPv6 Connection is: Select **Autoconfiguration(SLAAC/DHCPv6)** 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

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

If you choose **Use the following DNS address**, please configure the following field:

Primary DNS Address: Enter the primary DNS server address.

Secondary DNS Address: Enter the secondary DNS server address.

LAN IPv6 Address Settings

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

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 DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with 'IPV6' selected. The main content area is titled 'IPV6' and contains the following sections:

- IPV6 CONNECTION TYPE:** A message states: 'Use this section to configure your IPv6 Connection Type. If you are unsure of your connection method, please contact your Internet Service Provider.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. A dropdown menu shows 'My IPv6 Connection is: Autoconfiguration(SLAAC/DHCPv6)'.
- IPV6 DNS SETTINGS:** A message states: 'Obtain DNS server address automatically or enter a specific DNS server address.' There are two radio buttons: 'Obtain IPv6 DNS Servers automatically' (selected) and 'Use the following IPv6 DNS Servers'. Below the second option are input fields for 'Primary DNS Address' and 'Secondary DNS Address'.
- LAN IPV6 ADDRESS SETTINGS:** A message states: 'Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.' It includes a checked checkbox for 'Enable DHCP-PD', an input field for 'LAN IPv6 Address' with a '/64' suffix, and a display field for 'LAN IPv6 Link-Local Address' showing 'ffff::fff:ffff:1234 /64'.
- ADDRESS AUTOCONFIGURATION SETTINGS:** A message states: 'Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN.' It includes a checked checkbox for 'Enable Automatic IPv6 address assignment', a checked checkbox for 'Enable Automatic DHCP-PD in LAN', a dropdown menu for 'Autoconfiguration Type' with options 'SLAAC+RDNSS', 'SLAAC+Stateless DHCP', and 'Stateful DHCPv6', and an input field for 'Router Advertisement Lifetime' in minutes.

At the bottom of the form are 'Save Settings' and 'Don't Save Settings' buttons.

Autoconfiguration(SLAAC/DHCPv6) (continued)

Address Autoconfiguration Settings

Enable Automatic IPv6 address assignment: Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available.

Enable Automatic DHCP-PD in LAN: Enable or disable the Automatic IPv6 Address Assignment feature for the LAN.

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

If you choose **SLAAC+Stateless DHCP**, the following field appears:

Router Advertisement Lifetime: The currently defined router advertisement lifetime is displayed.

If you choose **Stateful DHCPv6**, please configure the following fields:

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.

Router Advertisement Lifetime: The currently defined router advertisement lifetime is displayed.

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type :

SLAAC+RDNSSSLAAC+Stateless DHCPStateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type :

Stateful DHCPv6

IPv6 Address Range (Start) : :00

1

IPv6 Address Range (End) : :00

ff

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

PPPoE

IPV6 CONNECTION TYPE

My IPv6 Connection is: Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet.

PPPOE INTERNET CONNECTION TYPE :

PPPoE Session : Select whether to **Share with IPv4** or **Create a new session**.

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

If you chose **Share with IPv4** as the **PPPoE Session** with **Static IP** as the **Address Mode**, enter your IP address:

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

If you choose **Create a new session** as the **PPPoE Session**, fill in the following fields:

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Verify Password: Enter the password provided by your ISP one more time.

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

Reconnect Mode: Select either **AlwaysOn** or **Manual**.

Maximum Idle Time: Set the length of time to wait before disconnecting if there is no Internet activity. (Manual Only)

MTU Size: Enter the MTU size.

The screenshot shows the D-Link DIR-819 Setup page. The 'IPV6' tab is selected. Under 'IPV6 CONNECTION TYPE', the 'My IPv6 Connection is' dropdown is set to 'PPPoE'. The 'PPPOE INTERNET CONNECTION TYPE' section is expanded, showing options for 'PPPoE Session' (radio buttons for 'Share with IPv4' and 'Create a new session'), 'Address Mode' (radio buttons for 'Dynamic IP' and 'Static IP'), and input fields for 'IP Address', 'User Name', 'Password', 'Verify Password', 'Service Name' (optional), 'Reconnect Mode' (radio buttons for 'Always on', 'On Demand', and 'Manual'), 'Maximum Idle Time' (input field with '(minutes, 0=infinite)' hint), and 'MTU' (input field with '1492' and '(bytes) MTU default=1492' hint). The 'IPV6 DNS SETTINGS' section is also expanded, showing 'Obtain DNS server address automatically or enter a specific DNS server address' with radio buttons for 'Obtain IPv6 DNS Servers automatically' and 'Use the following IPv6 DNS Servers', and input fields for 'Primary DNS Address' and 'Secondary DNS Address'. The 'LAN IPV6 ADDRESS SETTINGS' section is expanded, showing 'Enable DHCP-PD' (checkbox checked), 'LAN IPv6 Address' (input field with '/64' hint), and 'LAN IPv6 Link-Local Address' (input field with 'ffff::ffff:ffff:1234 /64' hint). The 'ADDRESS AUTOCONFIGURATION SETTINGS' section is expanded, showing 'Enable Automatic IPv6 address assignment' (checkbox checked), 'Enable Automatic DHCP-PD in LAN' (checkbox checked), 'Autoconfiguration Type' (dropdown menu with options: SLAAC+RDNS, SLAAC+Stateless DHCP, Stateful DHCPv6), and 'Router Advertisement Lifetime' (input field with '(minutes)' hint).

PPPoE (continued)

IPV6 DNS SETTINGS

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

If you choose **Use the following DNS address**, please configure the following field:

Primary DNS Address: Enter the primary DNS server address.

Secondary DNS Address: Enter the secondary DNS server address.

LAN IPv6 Address Settings

If you chose **Dynamic IP** as the **Address Mode**, you have the option to enable DHCP-PD appears:

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

If you chose **Static IP** as the **Address Mode**, or disabled DHCP-PD, enter your LAN IPv6 Address:

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.

IPV6 DNS SETTINGS

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

☒ Obtain IPv6 DNS Servers automatically

☐ Use the following IPv6 DNS Servers

Primary DNS Address :

Secondary DNS Address :

LAN IPV6 ADDRESS SETTINGS

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

Enable DHCP-PD : ☒

LAN IPv6 Address : /64

LAN IPv6 Link-Local Address : ffff::ffff:ffff:1234 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type :

SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

PPPoE (continued)

Address Autoconfiguration Settings

Enable Automatic IPv6 address assignment: Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available.

If you chose **Dynamic IP** as the **Address Mode** and enabled **DHCP-PD** in LAN IPv6 Address Settings, you may enable **DHCP-PD for the LAN**:

Enable Automatic DHCP-PD in LAN: Enable or disable the Automatic IPv6 Address Assignment feature for the LAN.

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

If you choose **SLAAC+Stateless DHCP**, the following field appears:

Router Advertisement Lifetime: The currently defined router advertisement lifetime is displayed.

If you choose **Stateful DHCPv6**, please configure the following fields:

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.

Router Advertisement Lifetime: The currently defined router advertisement lifetime is displayed.

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type : SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type : SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type : Stateful DHCPv6

IPv6 Address Range (Start) : :00 1

IPv6 Address Range (End) : :00 ff

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type : Stateful DHCPv6

IPv6 Address Range (Start) : :00 1

IPv6 Address Range (End) : :00 ff

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

IPv6 in an IPv4 Tunnel

IPv6 CONNECTION TYPE

My IPv6 Connection is: Select IPv6 In IPv4 Tunnel if you wish to configure the IPv6 connection to run in IPv4 Tunnel mode. IPv6 over IPv4 tunnelling encapsulates IPv6 packets in IPv4 packets so that IPv6 packets can be sent over an IPv4 infrastructure.

IPv6 in IPv4 Tunnel Settings

Remote IPv4 Address: Enter the IPv4 remote address.

Remote IPv6 Address: Enter the IPv6 remote address.

Local IPv4 Address: Displays the current local IPv4 address.

Local IPv6 Address: Enter the IPv6 local address.

Subnet Prefix Length: Enter the IPv6 subnet prefix length.

The screenshot shows the D-Link DIR-819 Setup page. The top navigation bar includes the D-Link logo, the model number DIR-819, and a SETUP button. Below this is a tabbed interface with 'IPv6' selected. The main content area is titled 'IPv6' and contains the following sections:

- IPv6 CONNECTION TYPE:** A message states: "Use this section to configure your IPv6 Connection Type. If you are unsure of your connection method, please contact your Internet Service Provider." Below this are 'Save Settings' and 'Don't Save Settings' buttons. A dropdown menu shows 'My IPv6 Connection is: IPv6 in IPv4 Tunnel'.
- IPv6 IN IPv4 TUNNEL SETTINGS:** A message states: "Enter the information provided by your Internet Service Provider (ISP)." Below this are input fields for:
 - Remote IPv4 Address :
 - Remote IPv6 Address :
 - Local IPv4 Address :
 - Local IPv6 Address :
 - Subnet Prefix Length :
- IPv6 DNS SETTINGS:** A message states: "Obtain DNS server address automatically or enter a specific DNS server address." Below this are two radio buttons:
 - ☒ Obtain IPv6 DNS Servers automatically
 - ☐ Use the following IPv6 DNS Servers
 Below the radio buttons are input fields for:
 - Primary DNS Address :
 - Secondary DNS Address :
- LAN IPv6 ADDRESS SETTINGS:** A message states: "Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again." Below this are:
 - An 'Enable DHCP-PD' checkbox which is checked.
 - A 'LAN IPv6 Address' input field followed by '/64'.
 - A 'LAN IPv6 Link-Local Address' input field with the value 'ffff::ffff:ffff:1234 /64'.
- ADDRESS AUTOCONFIGURATION SETTINGS:** A message states: "Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. You can also enable DHCP-PD to delegate prefixes for routers in your LAN." Below this are:
 - An 'Enable Automatic IPv6 address assignment' checkbox which is checked.
 - An 'Enable Automatic DHCP-PD in LAN' checkbox which is checked.
 - An 'Autoconfiguration Type' dropdown menu with options: SLAAC+RDNS, SLAAC+Stateless DHCP, and Stateful DHCPv6.
 - A 'Router Advertisement Lifetime' input field followed by '(minutes)'.

IPv6 in and IPv4 Tunnel (continued)

IPV6 DNS SETTINGS

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

If you choose **Use the following DNS address**, please configure the following field:

Primary DNS Address: Enter the primary DNS server address.

Secondary DNS Address: Enter the secondary DNS server address.

LAN IPv6 Address Settings

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

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router. Not available if DHCP-PD is enabled.

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

IPV6 DNS SETTINGS

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

☒ Obtain IPv6 DNS Servers automatically

☐ Use the following IPv6 DNS Servers

Primary DNS Address :

Secondary DNS Address :

LAN IPV6 ADDRESS SETTINGS

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

Enable DHCP-PD : ☒

LAN IPv6 Address : /64

LAN IPv6 Link-Local Address : ffff::ffff:ffff:1234 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type :

SLAAC+RDNSSSLAAC+Stateless DHCPStateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

IPv6 in an IPv4 Tunnel (continued)

Address Autoconfiguration Settings

Enable Automatic IPv6 address assignment: Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available.

If you enabled **DHCP-PD** in LAN IPv6 Address Settings, you may enable **DHCP-PD for the LAN**:

Enable Automatic DHCP-PD in LAN: Enable or disable the Automatic IPv6 Address Assignment feature for the LAN.

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

If you choose **SLAAC+Stateless DHCP**, the following field appears:

Router Advertisement Lifetime: The currently defined router advertisement lifetime is displayed.

If you choose **Stateful DHCPv6**, please configure the following fields:

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.

Router Advertisement Lifetime: The currently defined router advertisement lifetime is displayed.

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type :

SLAAC+RDNSSSLAAC+Stateless DHCPStateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type :

SLAAC+RDNSSSLAAC+Stateless DHCPStateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Enable Automatic DHCP-PD in LAN : ☒

Autoconfiguration Type :

Stateful DHCPv6

IPv6 Address Range (Start) : :00

1

IPv6 Address Range (End) : :00

ff

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type :

Stateful DHCPv6

IPv6 Address Range (Start) : :00

1

IPv6 Address Range (End) : :00

ff

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

6to4

IPv6 CONNECTION TYPE

My IPv6 Connection is: Select IPv6 In IPv4 Tunnel if you wish to configure your router to connect to your ISP using 6 to 4. 6 to 4 is an IPv6 address assignment and automatic tunneling technology that is used to provide unicast IPv6 connectivity between IPv6 sites and hosts across the IPv4 Internet.

WAN IPV6 ADDRESS SETTINGS

6to4 Address: The current 6to4 address is displayed here.

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

Primary DNS Address: Enter the primary DNS server address.

Secondary DNS Address: Enter the secondary DNS server address.

LAN IPv6 Address Settings

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

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

The screenshot shows the D-Link DIR-819 Setup page. At the top, there's a header with the D-Link logo and 'DIR-819' model number. Below this is a 'SETUP' button. The main navigation bar has 'IPV6' selected. The 'IPV6' section is highlighted in orange. Below this, there's a section titled 'IPV6' with a description: 'Use this section to configure your IPv6 Connection Type. If you are unsure of your connection method, please contact your Internet Service Provider.' There are 'Save Settings' and 'Don't Save Settings' buttons. The 'IPV6 CONNECTION TYPE' section asks to 'Choose the mode to be used by the router to connect to the IPv6 Internet.' and shows 'My IPv6 Connection is: 6to4' in a dropdown menu. The 'WAN IPV6 ADDRESS SETTINGS' section asks to 'Enter the IPv6 address information provided by your Internet Service Provider (ISP)'. It includes fields for '6to4 Address', '6to4 relay', 'Primary DNS Address', and 'Secondary DNS Address'. The 'LAN IPV6 ADDRESS SETTINGS' section asks to 'Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.' It includes fields for 'LAN IPv6 Address' (displayed as XXXX:XXXX:XXXX: :1 /64) and 'LAN IPv6 Link-Local Address' (displayed as ffff::fff:ffff:ffff:1234 /64). The 'ADDRESS AUTOCONFIGURATION SETTINGS' section asks to 'Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.' It includes a checkbox for 'Enable Automatic IPv6 address assignment' (checked), a dropdown for 'Autoconfiguration Type' (set to SLAAC+RDNS), and a field for 'Router Advertisement Lifetime' (set to 1 minutes). At the bottom, there are 'Save Settings' and 'Don't Save Settings' buttons.

6to4 (continued)

Address Autoconfiguration Settings

Enable Automatic IPv6 address assignment: Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available.

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

If you choose **SLAAC+Stateless DHCP**, please configure the following field:

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

If you choose **Stateful DHCPv6**, please configure the following fields:

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.

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

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type :

SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime :

(minutes)

Save Settings

Don't Save Settings

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type :

Stateful DHCPv6

IPv6 Address Range (Start) :

:00

1

IPv6 Address Range (End) :

:00

ff

Router Advertisement Lifetime :

(minutes)

Save Settings

Don't Save Settings

6rd

IPV6 CONNECTION TYPE

My IPv6 Connection is: Select **6rd** if your ISP uses the 6rd IPv6 connection protocol.

WAN IPV6 ADDRESS SETTINGS

6rd Configuration: Select either **6rd DHCPv4** or **Manual Configuration**.

If you selected **Manual Configuration**, fill in the following fields:

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

IPv4 Address: Displays the router's IPv4 address and mask length.

Assigned IPv6 Prefix: Displays the router's assigned IPv6 prefix.

Tunnel Link-Local Address: Displays the tunnel link-local address.

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

Primary DNS Address: Enter the primary DNS server address.

Secondary DNS Address: Enter the secondary DNS server address.

LAN IPV6 ADDRESS SETTINGS

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

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IPV6

SETUP

IPV6

IPV6

Use this section to configure your IPv6 Connection Type.If you are unsure of your connection method, please contact your Internet Service Provider.

Save Settings

Don't Save Settings

IPV6 CONNECTION TYPE

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

My IPv6 Connection is: 6rd

WAN IPV6 ADDRESS SETTINGS

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

6rd Configuration : ☒ 6rd DHCPv4 option ☐ Manual Configuration

6rd IPv6 Prefix : /

IPv4 Address : Mask Length :

Assigned IPv6 Prefix :

Tunnel Link-Local Address :

6rd Border Relay IPv4 Address :

Primary DNS Address :

Secondary DNS Address :

LAN IPV6 ADDRESS SETTINGS

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

LAN IPv6 Address : ::1 /64

LAN IPv6 Link-Local Address : ::ffff:ffff:1234 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type : SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings

Don't Save Settings

6rd (continued)

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

Address Autoconfiguration Settings

Enable Automatic IPv6 address assignment: Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available.

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

If you choose **SLAAC+Stateless DHCP**, please configure the following field:

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

If you choose **Stateful DHCPv6**, please configure the following fields:

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.

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

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

LAN IPV6 ADDRESS SETTINGS

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

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

LAN IPv6 Link-Local Address : ffff::ffff:ffff:1234 /64

ADDRESS AUTOCONFIGURATION SETTINGS

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

Enable Automatic IPv6 address assignment : ☒

Autoconfiguration Type : SLAAC+RDNSS
SLAAC+Stateless DHCP
Stateful DHCPv6

Router Advertisement Lifetime : (minutes)

Save Settings Don't Save Settings

Local Connectivity Only

IPV6 CONNECTION TYPE

My IPv6 Connection is:

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

IPV6 CONNECTION TYPE

LAN IPv6 Link-Local Address :

Displays the router’s LAN IPv6 Link-Local address and mask length.

LAN IPv6 Unique Local Address :

Displays the router’s LAN IPv6 unique local address and mask length.

When you have finished configuring your IPv6 connection, click the **Save Settings** button.

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SETUP

IPv6

IPv6

IPv6

Use this section to configure your IPv6 Connection Type.If you are unsure of your connection method, please contact your Internet Service Provider.

Save Settings

Don't Save Settings

IPV6 CONNECTION TYPE

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

My IPv6 Connection is:

Local Connectivity Only

LAN IPV6 ADDRESS SETTINGS

Use this section to configure the internal network settings of your router.

LAN IPv6 Link-Local Address :

XXXX:XXXX:XXXX:XXXX / 64

LAN IPv6 Unique Local Address :

ffff::fff:ffff:1234 / 64

Save Settings

Don't Save Settings

Advanced

The Advanced tab provides access to configure the advanced features of your DIR-819.



DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT																		
VIRTUAL SERVER	VIRTUAL SERVER The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers. Save Settings Don't Save Settings																						
PORT FORWARDING																							
APPLICATION RULES																							
QOS ENGINE																							
NETWORK FILTER																							
INBOUND FILTER																							
ACCESS CONTROL																							
WEBSITE FILTER																							
FIREWALL SETTINGS	24 - VIRTUAL SERVERS LIST Remaining number of rules that can be created: 24 <table border="1"> <thead> <tr> <th></th> <th>Name</th> <th>Application Name</th> <th>Port</th> <th>Traffic Type</th> <th>Schedule</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td> IP Address </td> <td> << Application Name ▼ </td> <td> Public Port </td> <td> Protocol TCP ▼ </td> <td> Schedule Always ▼ </td> </tr> <tr> <td></td> <td></td> <td> << Computer Name ▼ </td> <td> Private Port </td> <td> 6 </td> <td> Inbound Filter Allow All ▼ </td> </tr> </tbody> </table> Save Settings Don't Save Settings						Name	Application Name	Port	Traffic Type	Schedule	☐	 IP Address	<< Application Name ▼	Public Port 	Protocol TCP ▼	Schedule Always ▼			<< Computer Name ▼	Private Port 	6	Inbound Filter Allow All ▼
	Name	Application Name	Port	Traffic Type		Schedule																	
☐	 IP Address	<< Application Name ▼	Public Port 	Protocol TCP ▼		Schedule Always ▼																	
		<< Computer Name ▼	Private Port 	6		Inbound Filter Allow All ▼																	
ROUTING																							
ADVANCED WIRELESS																							
WI-FI PROTECTED SETUP																							
ADVANCED NETWORK																							
GUEST ZONE																							
IPV6 FIREWALL																							
IPV6 ROUTING																							



DIR-819	SETUP
INTERNET	INTERNET CONNECTION

To return to the Web UI Table of Contents page, simply click the D-Link logo on the top right of each page.

Virtual Server

Click **Virtual Server** on the navigation menu to configure the virtual server. The virtual server performs port-redirection, which allows remote users to access multiple services on your local network via your public IP address. For example, you may want to connect two FTP servers on two different machines on your local network to the Internet. Using Port Forwarding only allows a single machine use port 21, but with port forwarding you can remap two different external ports to each machine. When you are satisfied with your configuration, click **Save Settings**.

24 - VIRTUAL SERVERS LIST

Enable: Check the box to enable this rule.

Name: Enter a name for the application you wish to apply the virtual server to. Use the **Application Name** dropdown menu and the << button to quickly select commonly used applications. The name, private port, and protocol type are automatically populated.

Public Port: Enter or adjust the WAN port number in order to remap traffic.

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

Schedule: Select the schedule from the drop-down menu. The default is **Always**. Refer to **Schedules** on page **110** for more information on creating new schedules.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to or use the **Computer Name** dropdown menu and the << button to quickly insert a device's IP address.

Private Port: Enter the LAN port number.

Inbound Filter: You may set the traffic filter to **Allow All** or **Block All** traffic.

Click the **Save Settings** button when you are finished.

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DIR-819 **ADVANCED**

VIRTUAL SERVER **VIRTUAL SERVER**

VIRTUAL SERVER

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

Save Settings Don't Save Settings

24 - VIRTUAL SERVERS LIST

Remaining number of rules that can be created: 24

	Name	Port	Traffic Type	Schedule
☐	<< Application Name	Public Port 	Protocol TCP	Schedule Always
☐	<< Computer Name	Private Port 	6	Inbound Filter Allow All

Save Settings Don't Save Settings

Port Forwarding

Click **Port Forwarding** on the navigation menu to configure Port Forwarding. Port Forwarding allows you to expose devices, applications, and servers on your local network to the Internet. When you are satisfied with your configuration, click **Save Settings**.

24 -- PORT FORWARDING RULES

Enable: Check the box to enable this rule.

Name: Enter a name for the application you wish to apply the virtual server to. Use the **Application Name** dropdown menu and the << button to quickly select an application. The name, TCP port, and UDP port are automatically populated.

TCP: Enter the TCP port number to forward.

Schedule: Select the schedule from the drop-down menu. The default is **Always**. Refer to **Schedules** on page 110 for more information on creating new schedules.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to or use the **Computer Name** dropdown menu and the << button to quickly insert a device's IP address.

UDP: Enter the UDP port number to forward.

Inbound Filter: You may set the traffic filter to **Allow All** or **Block All** traffic.

Click the **Save Settings** button when you are finished.

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PORT FORWARDING

PORT FORWARDING

PORT FORWARDING

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

Save Settings

Don't Save Settings

24 -- PORT FORWARDING RULES

Remaining number of rules that can be created: 24

☐

Name

<<

Application Name

IP Address

<<

Computer Name

Ports to Open

TCP

UDP

Schedule

Always

Inbound Filter

Allow All

Save Settings

Don't Save Settings

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Application Rules

Click **Port Triggering** on the navigation menu to configure Port Triggering. Port triggering allows external ports to be opened for remote access when triggered by activity by a local computer on specified ports. When you are satisfied with your configuration, click **Save Settings**.

24 -- APPLICATION RULES

Enable: Check the box to enable this rule.

Name: Enter a name for the application you wish to apply the virtual server to. Use the **Application Name** dropdown menu and the << button to quickly select an application. The name, port numbers, and traffic type are automatically populated.

Trigger Port: Enter the trigger port.

Traffic Type: Select **TCP**, **UDP**, or **All**.

Firewall Port: Enter the firewall port to open once triggered.

Traffic Type: Select **TCP**, **UDP**, or **All**.

Schedule: Select the schedule from the drop-down menu. The default is **Always**. Refer to **Schedules** on page **110** for more information on creating new schedules.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 Advanced configuration interface. The top bar is orange with the D-Link logo. Below it, a navigation bar shows 'DIR-819' and 'ADVANCED'. The main content area has a tabbed interface with 'APPLICATION RULES' selected. A sub-header 'APPLICATION RULES' is followed by a descriptive text block and 'Save Settings' / 'Don't Save Settings' buttons. Below this is a table for configuring application rules. The table has columns for 'Name', 'Application', 'Port', 'Traffic Type', and 'Schedule'. The 'Application' column includes a dropdown menu and a '<<' button. The 'Port' column has 'Trigger' and 'Firewall' sub-columns. The 'Traffic Type' column has a dropdown menu. The 'Schedule' column has a dropdown menu. At the bottom, there are 'Save Settings' and 'Don't Save Settings' buttons.

24 -- APPLICATION RULES				
Remaining number of rules that can be created: 24				
Name	Application	Port	Traffic Type	Schedule
☐	 Application << Application Name	Trigger Firewall 	TCP TCP	Always

QoS Engine

Click **QoS Engine** on the navigation menu to configure Quality of Service (QoS). QoS allows you to prioritize Internet traffic to ensure a better web browsing experience in situations where bandwidth is limited or large numbers of devices are in use. QoS can improve your online experience by ensuring that specific traffic is prioritized over other network traffic, such as VoIP, FTP, or Web. When you are satisfied with your configuration, click **Save Settings**.

QoS SETUP

Enable QoS: Enable or disable QoS.

Uplink Speed: Enter your Internet connection's Uplink Speed in kbps or use the **Select Transmission Rate** dropdown menu and the << button to quickly select and populate a speed.

Downlink Speed: Enter your Internet connection's Downlink Speed in kbps or use the **Select Transmission Rate** dropdown menu and the << button to quickly select and populate a speed.

Queue Type: Choose either **Strict Priority Queue** or **Weighted Fair Queue**. If you select **Weighted Fair Queue**, you may adjust the percentage weights for each queue.

Click the **Save Settings** button before proceeding to **32 -- ADD CLASSIFICATION RULE**.

D-Link

DIR-819 **ADVANCED**

QoS ENGINE **QoS SETTINGS**

QoS SETTINGS

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

Save Settings Don't Save Settings

QoS SETUP

Enable QoS : ☐

Uplink Speed : 0 kbps << Select Transmission Rate ▼

Downlink Speed : 0 kbps << Select Transmission Rate ▼

Queue Type : ☒ Strict Priority Queue ☐ Weighted Fair Queue

Queue ID	Queue Priority
1	Highest
2	Higher
3	Normal
4	Best Effort(default)

32 -- ADD CLASSIFICATION RULE

Enable : ☐

Name :

Queue ID : 1 - Highest ▼

Protocol : ALL ▼

Classify : Upstream ▼

Local IP Range : Local IP Start to Local IP End

Application Port : Application Name >> to

Remote IP Range : Remote IP Start to Remote IP End

Add Cancel

CLASSIFICATION RULES

Enable	Name	Queue ID	Protocol	Classify	Application Port	Remote IP Range	Local IP Range

Save Settings Don't Save Settings

QoS Engine (continued)

32 -- ADD CLASSIFICATION RULE

Enable: Check the box to enable this rule.

Name: Enter a name for this QoS rule.

Queue ID: Select the queue to apply this rule to.

Protocol: Select the protocol to apply the rule to: **TCP**, **UDP**, or **All**.

Classify: Select to apply the rule to **Upstream** or **Downstream** traffic.

Local IP Range: If you selected **Upstream** as the **Classify** type, enter the local IP Range, excluding the router IP and broadcast IP, to apply this rule to. For example 192.168.0.2 to 192.168.0.254.

Application Port: Enter the port range you wish to apply this rule to. Use the **Application Name** dropdown menu and the << button to quickly select an application. The protocol, and port range are automatically populated.

Remote IP Range: If you selected **Downstream** as the **Classify** type, enter the Remote IP Range, excluding the router IP and broadcast IP, to apply this rule to. For example 192.168.0.2 to 192.168.0.254.

CLASSIFICATION RULES

The currently defined QoS rules are listed here.

Click the **Save Settings** button when you are finished.

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DIR-819

ADVANCED

QoS ENGINE

QoS SETTINGS

QoS SETTINGS

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

Save Settings Don't Save Settings

QoS SETUP

Enable Qos : ☐

Uplink Speed : 0 kbps << Select Transmission Rate

Downlink Speed : 0 kbps << Select Transmission Rate

Queue Type : ☒ Strict Priority Queue ☐ Weighted Fair Queue

Queue ID	Queue Priority
1	Highest
2	Higher
3	Normal
4	Best Effort(default)

32 -- ADD CLASSIFICATION RULE

Enable : ☐

Name :

Queue ID : 1 - Highest

Protocol : ALL

Classify : Upstream

Local IP Range : Local IP Start to Local IP End

Application Port : Application Name >> to

Remote IP Range : Remote IP Start to Remote IP End

Add Cancel

CLASSIFICATION RULES

Enable	Name	Queue ID	Protocol	Classify	Application Port	Remote IP Range	Local IP Range

Save Settings Don't Save Settings

Network Filter

Click **Network Filter** on the navigation menu to configure the Network Filter. The Network Filter allows you to allow or block a device’s access to the network or Internet based on its MAC address. When you are satisfied with your configuration, click **Save Settings**.

24 -- MAC FILTERING RULES

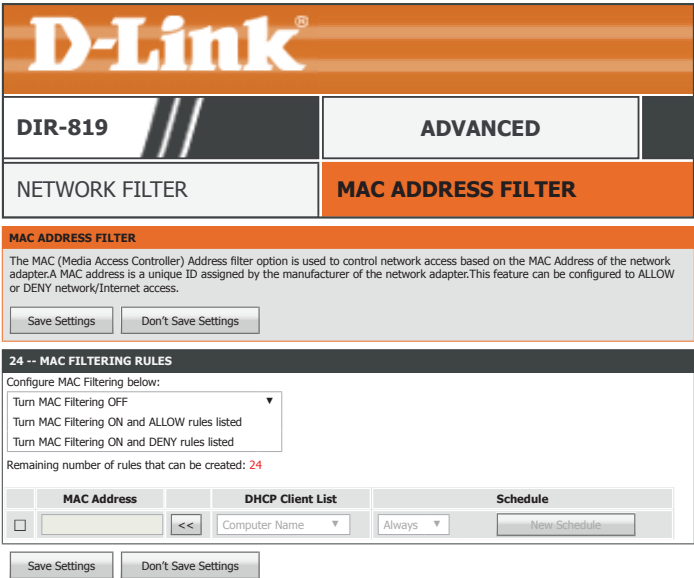
Configure MAC Filtering below: Select the function of the MAC Filter, the options are **Turn MAC Filtering OFF**, **Turn MAC Filtering ON and ALLOW rules listed**, or **Turn MAC Filtering ON and DENY rules listed**.

Enable: Check the box to enable this rule.

MAC Address: Enter the MAC Address of the device you wish to apply the Network Filter to. Use the **Computer Name** dropdown menu and the << button to quickly select a device. The MAC Address is automatically populated.

Schedule: Select the schedule from the drop-down menu. The default is **Always**. Refer to **Schedules** on page 110 for more information on creating new schedules.

Click the **Save Settings** button when you are finished.



11 **Environ Biol Fish** (2015) 98:1–11

measured at 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150, 156, 162, 168, 174, 180, 186, 192, 198, 204, 210, 216, 222, 228, 234, 240, 246, 252, 258, 264, 270, 276, 282, 288, 294, 300, 306, 312, 318, 324, 330, 336, 342, 348, 354, 360, 366, 372, 378, 384, 390, 396, 402, 408, 414, 420, 426, 432, 438, 444, 450, 456, 462, 468, 474, 480, 486, 492, 498, 504, 510, 516, 522, 528, 534, 540, 546, 552, 558, 564, 570, 576, 582, 588, 594, 600, 606, 612, 618, 624, 630, 636, 642, 648, 654, 660, 666, 672, 678, 684, 690, 696, 702, 708, 714, 720, 726, 732, 738, 744, 750, 756, 762, 768, 774, 780, 786, 792, 798, 804, 810, 816, 822, 828, 834, 840, 846, 852, 858, 864, 870, 876, 882, 888, 894, 900, 906, 912, 918, 924, 930, 936, 942, 948, 954, 960, 966, 972, 978, 984, 990, 996, 1000.

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Access Control

Click **Access Control** on the navigation menu to configure Access Control. The Access Control function allows you to control access to the Internet. You may also monitor which web sites were accessed. The Add Policy Wizard allows you to easily add access control policies. When you are satisfied with your configuration, click **Save Settings**.

ACCESS CONTROL

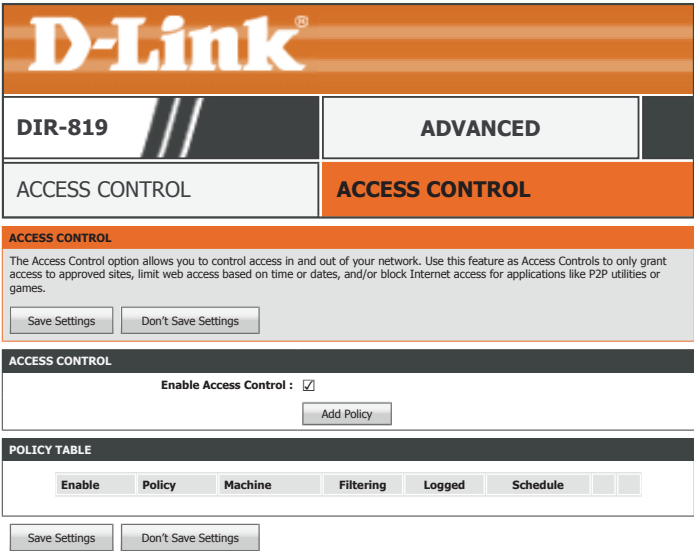
Enable Access Control: Enable or disable Access Control. You must click **Save Settings** after enabling Access Control before you can add policies.

Add Policy: Click this button to add a policy. Refer to **Add Policy** on page 88 for more information on running the Add Policy Wizard.

POLICY TABLE

The currently defined access control policies are listed in this table.

Click the **Save Settings** button when you are finished.



Add Policy

ADD NEW POLICY

Click **Next** to begin the add policy wizard.

ADD NEW POLICY

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

Step 1 - Choose a unique name for your policy

Step 2 - Select a schedule

Step 3 - Select the machine to which this policy applies

Step 4 - Select filtering method

Step 5 - Select filters

Step 6 - Configure Web Access Logging

Prev

Next

Save

Cancel

STEP 1: CHOOSE POLICY NAME

Policy Name : Enter a name for your policy.

Click **Next** to continue.

STEP 1: CHOOSE POLICY NAME

Choose a unique name for your policy.

Policy Name :

Prev

Next

Save

Cancel

STEP 2: SELECT SCHEDULE

Details: Select a schedule from the drop-down menu. The default is **Always**. Refer to **Schedules** on page **110** for more information on creating new schedules.

Click **Next** to continue.

STEP 2: SELECT SCHEDULE

Choose a schedule to apply to this policy.

Always

Details :

Always

Prev

Next

Save

Cancel

STEP 3: SELECT MACHINE

Address Type: Choose whether this policy is applied by **IP** or **MAC** address.

IP Address: If you select **IP** as the address type, enter the IP address of the device you wish to apply the policy to or use the **Computer Name** dropdown menu to quickly select a computer. The IP address is automatically populated.

STEP 3: SELECT MACHINE

Select the machine to which this policy applies.

Specify a machine with its IP or MAC address.

Address Type : ☒ IP ☐ MAC

IP Address : <<

Computer Name

Machine Address : <<

Computer Name

Clone Your PC's MAC Address

Add

Cancel

Machine

Prev

Next

Save

Cancel

Add Policy (continued)

Machine Address: If you select **MAC** as the address type, enter the IP address of the device you wish to apply the policy to or use the **Computer Name** dropdown menu to quickly select a computer. The MAC address is automatically populated. You may also use the **Clone Your PC's MAC Address** button to use the MAC address of the device you are running the wizard from.

Add: Click this button to add the machine to the table.

Cancel: Click this button to clear the currently configured information

Machine

IP or MAC Address: To edit a machine added to the table, click its corresponding pencil icon. To remove a machine click its corresponding trashcan icon.

Click **Next** to continue.

STEP 3: SELECT MACHINE
Select the machine to which this policy applies.
Specify a machine with its IP or MAC address.

Address Type : ☒ IP ☐ MAC

IP Address : << Computer Name ▼

Machine Address : << Computer Name ▼

Clone Your PC's MAC Address

Add Cancel

Machine

Prev Next Save Cancel

STEP 4: SELECT FILTERING METHOD

Method: Select the method for filtering. The available options are **Log Web Access Only**, **Block All Access**, or **Block Some Access**.

If you select **Log Web Access Only** or **Block Some Access**, click **Save** to finish the wizard.

If you select **Block Some Access**, select the following options:

Apply Web Filter: Check this box to enable Web Access Logging.

Apply Advanced Port Filters: Check this box to enable port filtering.

Click **Next** to continue.

STEP 4: SELECT FILTERING METHOD
Select the method for filtering.

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

Prev Next Save Cancel

STEP 4: SELECT FILTERING METHOD
Select the method for filtering.

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

Apply Web Filter : ☒

Apply Advanced Port Filters : ☒

Prev Next Save Cancel

Add Policy (continued)

If you selected **Block Some Access**, configure the following options:

STEP 5: PORT FILTER

Enable: Check the box to enable this rule.

Name: Enter a name for port filtering rule.

Dest IP Start: Enter the start of the IP address range to filter.

Dest IP End: Enter the end of the IP address range to filter.

Protocol: Select the protocol to apply the port filter to. The options are **Any**, **ICMP**, **TCP**, and **UDP**.

STEP 5: PORT FILTER

Add Port Filters Rules.

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

Enable	Name	Dest IP Start	Dest IP End	Protocol	Dest Port Start	Dest Port End
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535
☒		0.0.0.0	255.255.255.255	Any ▼	1	65535

Prev Next Save Cancel

If you select **TCP** or **UDP**, enter the port range:

Des Port Start: Enter the start of the port range to filter.

Des Port End: Enter the end of the port range to filter.

Click **Next** to continue.

STEP 6: CONFIGURE WEB ACCESS LOGGING

Web Access Enable or disable Web Access logging. You may view the web access

Logging: log from the **Status > Logs** section of the web configuration utility.

Click **Save** to finish.

STEP 6: CONFIGURE WEB ACCESS LOGGING

Select the method for filtering.

Web Access Logging : ☒ Disabled
☐ Enabled

Prev Next Save Cancel

Website Filter

Click **Website Filter** on the navigation menu to configure the Website Filter. The Website Filter function allows you to control access to specific websites. When you are satisfied with your configuration, click **Save Settings**.

40 -- WEBSITE FILTERING RULES

Configure Website Filter below: Select the function of the Website Filter, the options are **ALLOW computers access to ONLY these sites** or **DENY computers access to ONLY these sites**.

Clear the list below... Click this button to clear the website filter.

Website URL/Domain: Enter website URL/Domains in each box.

Click the **Save Settings** button when you are finished.

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WEBSITE FILTER

WEBSITE FILTER

WEBSITE FILTER

The Website Filter option allows you to set up a list of Web sites you would like to allow or deny through your network.

Save Settings

Don't Save Settings

40 -- WEBSITE FILTERING RULES

Configure Website Filter below:

ALLOW computers access to ONLY these sites

DENY computers access to ONLY these sites

Clear the list below...

Website URL/Domain

Save Settings

Don't Save Settings

Firewall Settings

Click **Firewall Settings** on the navigation menu to configure the Firewall Settings. When you are satisfied with your configuration, click **Save Settings**.

FIREWALL SETTINGS

Enable SPI: Enable or disable the Stateful Packet Inspection (SPI) firewall. Disabling the firewall is not recommended.

ANTI-SPOOF CHECKING

Enable anti-spoof checking: Enable or disable anti-spoof checking.

DMZ HOST

This option allows you to manually configure the router's demilitarized zone (DMZ). The DMZ should only be used as a last resort when you are having difficulty using other port forwarding tools since the device using this IP address is not protected by the firewall. If you use DMZ, take measures such as client-based virus protection to protect the remaining client PCs on your LAN from possible attacks through DMZ'd device.

Enable DMZ: Check the box to enable the DMZ function.

DMZ Host IP Address: Enter the IP address of the machine that you wish to place in the DMZ. If the machine receives an IP address from the DHCP server, you should create a static DHCP reservation to ensure that the machine always receives the same address from the DHCP server. Use the **Computer Name** dropdown menu and the << button to quickly select a device. The IP address is automatically populated.

D-Link

DIR-819 ADVANCED

FIREWALL SETTINGS FIREWALL & DMZ SETTINGS

FIREWALL & DMZ SETTINGS

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

Save Settings Don't Save Settings

FIREWALL SETTINGS

Enable SPI : ☒

ANTI-SPOOF CHECKING

Enable anti-spoof checking : ☐

DMZ HOST

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

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

Enable DMZ : ☐

DMZ IP Address : <<

Computer Name

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

PPTP : ☒

IPSec (VPN) : ☒

RTSP : ☒

SIP : ☒

Save Settings Don't Save Settings

Firewall Settings (continued)

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

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

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

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

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

Click the **Save Settings** button when you are finished.

D-Link

DIR-819 **ADVANCED**

FIREWALL SETTINGS **FIREWALL & DMZ SETTINGS**

FIREWALL & DMZ SETTINGS

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

FIREWALL SETTINGS

Enable SPI : ☒

ANTI-SPOOF CHECKING

Enable anti-spoof checking : ☐

DMZ HOST

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

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

Enable DMZ : ☐

DMZ IP Address :

Computer Name :

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

PPTP : ☒

IPSec (VPN) : ☒

RTSP : ☒

SIP : ☒

Routing

Click **Routing** on the navigation menu to configure Routing. The routing page allows you to define custom static routes to control the route which your data takes. When you are satisfied with your configuration, click **Save Settings**.

32 -- ROUTE LIST

Enable: Check the box to enable this rule.

Name: Enter a name for this static route.

Destination IP: Enter the destination IP address.

Gateway: Enter the gateway IP address.

Metric: Enter the metric value between 1-255.

Interface: Select the Interface from the drop-down menu.

Click the **Save Settings** button when you are finished.

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DIR-819

ADVANCED

ROUTING

ROUTING

ROUTING

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

Save Settings

Don't Save Settings

24 -- APPLICATION RULES

Remaining number of rules that can be created: 24

	Name	Destination IP	Metric	Interface
☐			1	WAN(172.17.5.x)
	Netmask	Gateway		

Save Settings

Don't Save Settings

Advanced Wireless

Click **Advanced Wireless** on the navigation menu to configure the advanced wireless options. When you are satisfied with your configuration, click **Save Settings**.

ADVANCED WIRELESS SETTINGS

Wireless Band: 2.4 GHz Band

Transmit Power: Select the desired wireless transmission power.

WLAN Partition: Check this box to enable user isolation. User isolation forces wireless clients to communicate with each other through the access point.

WMM Enable: Enable or Disable Wi-Fi MultiMedia QoS.

HT 20/40 Coexistence: Enable or disable HT20/40 Coexistence.

ADVANCED WIRELESS SETTINGS

Wireless Band: 5 GHz Band

Transmit Power: Select the desired wireless transmission power.

WLAN Partition: Check this box to enable user isolation. User isolation forces wireless clients to communicate with each other through the access point.

WMM Enable: Enable or Disable Wi-Fi MultiMedia QoS.

Click the **Save Settings** button when you are finished.

D-Link

DIR-819 **ADVANCED**

ADVANCED WIRELESS **ADVANCED WIRELESS SETTINGS**

ADVANCED WIRELESS SETTINGS

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

Save Settings Don't Save Settings

ADVANCED WIRELESS SETTINGS

Wireless Band : 2.4GHz Band

Transmit Power : High

WLAN Partition : ☐

WMM Enable : ☒

HT 20/40 Coexistence : ☒ Enable ☐ Disable

Save Settings Don't Save Settings

ADVANCED WIRELESS SETTINGS

Wireless Band : 5GHz Band

Transmit Power : High

WLAN Partition : ☒

WMM Enable : ☒

Save Settings Don't Save Settings

Wi-Fi Protected Setup

Click **Wi-Fi Protected Setup** on the navigation menu to configure the Wi-Fi Protected Setup (WPS) feature. Refer to **WPS Button** on page **122** for more information about WPS. When you are satisfied with your configuration, click **Save Settings**.

WI-FI PROTECTED SETUP

Enable: Check the box to enable WPS.

WiFi Protected Setup: The current status of the WPS feature is displayed here.

Lock WPS-PIN Setup: Enable or disable WPS-PIN functionality.

PIN SETTINGS

PIN: The currently defined WPS-PIN is displayed here.

Reset PIN to Default Click this button to reset the WPS-PIN to the factory default.

Generate New PIN Click this button to generate a new WPS PIN.

ADD WIRELESS STATION

Connect your Wireless Device: Click this button to launch the WPS Add Device Wizard. Refer to **Add Wireless Device with WPS** on page **47** for more information.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 Advanced configuration page for Wi-Fi Protected Setup. The page has an orange header with the D-Link logo. Below the header, there are tabs for 'DIR-819' and 'ADVANCED'. The 'Wi-Fi Protected Setup' section is active, showing a 'WI-FI PROTECTED SETUP' tab and a 'WI-FI PROTECTED SETUP' sub-tab. The 'WI-FI PROTECTED SETUP' sub-tab contains a description of the feature and two buttons: 'Save Settings' and 'Don't Save Settings'. Below this, the 'WI-FI PROTECTED SETUP' section shows the 'Enable' checkbox checked, 'WiFi Protected Setup' status as 'Enabled/Configured', and 'Lock WPS-PIN Setup' checkbox unchecked. The 'PIN SETTINGS' section shows the current PIN as '49445183' and buttons for 'Reset PIN to Default' and 'Generate New Pin'. The 'ADD WIRELESS STATION' section has a 'Connect your Wireless Device' button. At the bottom, there are 'Save Settings' and 'Don't Save Settings' buttons.

Advanced Network

Click **Advanced Network** on the navigation menu to configure the Advanced Wireless settings. This page allows for the configuration of miscellaneous settings. When you are satisfied with your configuration, click **Save Settings**.

UPNP

Enable UPnP IGD: Click Enable to use the UPnP feature. UPnP provides compatibility with networking equipment, software, and peripherals.

WAN PING

Enable WAN Ping Response: Enable or disable the router to reply to pings.

WAN PORT SPEED

WAN Port Speed: You may set the port speed of the Internet port to **10 Mbps**, **100 Mbps**, or **Auto 10/100Mbps**. Using **Auto 10/100Mbps** is recommended.

MULTICAST STREAMS

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

IPv6 MULTICAST STREAMS

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

Click the **Save Settings** button when you are finished.

D-Link

DIR-819

ADVANCED

ADVANCED NETWORK

ADVANCED NETWORK SETTINGS

ADVANCED NETWORK SETTINGS

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

Save Settings Don't Save Settings

UPNP

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

Enable UPnP IGD : ☒

WAN PING

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

Enable WAN Ping Response : ☐

WAN PORT SPEED

WAN Port Speed : Auto 10/100Mbps

MULTICAST STREAMS

Enable Multicast Streams : ☐

IPV6 MULTICAST STREAMS

Enable IPv6 Multicast Streams : ☐

Save Settings Don't Save Settings

Guest Zone

Click **Guest Zone** on the navigation menu to configure Guest Zones. The guest zone feature allows you to create wireless networks for visitors. This allows you to keep your devices secure. When you are satisfied with your configuration, click **Save Settings**.

GUEST ZONE

Enable Routing Between Zones: If a guest zone or zones are enabled and this option is disabled, guest device network connectivity is restricted to the Internet. If this option is enabled, guest devices are allowed access to other local network devices.

SESSION 2.4GHZ / SESSION 5GHZ

Enable Guest Zone: Enable or disable this guest wireless network. From the drop down menu you may apply a schedule to enable or disable this wireless network. Click **New Schedule** to create a new schedule. Refer to **Schedules** on page 110 for more information.

Wireless Band: The current wireless band is displayed here, either **2.4GHz** or **5GHz**.

Wireless Network Name: Create a name for your wireless network.

Security Mode: Select a wireless security encryption option. The options are **None**, **WEP**, **WPA-Personal**, and **WPA-Enterprise**. Using **WPA** is recommended. Refer to **Wireless Security Mode** on page 52 for more information.

Click the **Save Settings** button when you are finished.

D-Link
DIR-819 ADVANCED

GUEST ZONE GUEST ZONE

GUEST ZONE
Use this section to configure the guest zone settings of your router. The guest zone provide a separate network zone for guest to access Internet.
Save Settings Don't Save Settings

GUEST ZONE
Enable Routing Between Zones : ☒

SESSION 2.4GHZ
Enable Guest Zone : ☒ Always
Wireless Band : 2.4GHz Band
Wireless Network Name : (Also called the SSID)
Security Mode : None

SESSION 5GHZ
Enable Guest Zone : ☒ Always
Wireless Band : 5GHz Band
Wireless Network Name : (Also called the SSID)
Security Mode : None

Save Settings Don't Save Settings

IPv6 Firewall

Click **IPv6 Firewall** on the navigation menu to configure the IPv6 Firewall Settings. When you are satisfied with your configuration, click **Save Settings**.

IPv6 SIMPLE SECURITY

Enable IPv6 Simple Security: Enable or disable the IPv6 firewall.

20 -- IPV6 FIREWALL RULES

Configure IPv6 Filtering below: Select the function of the IPv6 Filter, the options are **Turn IPv6 Filtering OFF**, **Turn IPv6 Filtering ON and ALLOW rules listed**, **Turn IPv6 Filtering ON and DENY rules listed**.

Enable: Check the box to enable this rule.

Name: Enter a name for the rule.

Schedule: Select the schedule from the drop-down menu. The default is **Always**. Refer to **Schedules** on page **110** for more information on creating new schedules.

Source Interface: Select the source interface, **WAN** or **LAN**, from the drop down menu.

Source IP Address / PrefixLength: Enter the source IP address and specify the prefix length for the rule.

Protocol: Select the protocol to apply the rule to, either **ALL**, **TCP**, **UDP**, or **ICMP**.

Destination Interface: Select the destination interface, **WAN** or **LAN**, from the drop down menu.

D-Link
DIR-819 **ADVANCED**

IPv6 FIREWALL **IPv6 FIREWALL**

IPv6 FIREWALL
The firewall settings section is an advance feature used to allow or deny traffic from passing through the device. It works in the same way as IP Filters with additional settings. You can create more detailed rules for the device.

Save Settings Don't Save Settings

IPv6 SIMPLE SECURITY
Enable IPv6 Simple Security : ☐

20 -- IPV6 FIREWALL RULES
Remaining number of rules that can be created: 24

Configure IPv6 Filtering below:
 Turn IPv6 Filtering OFF
 Turn IPv6 Filtering ON and ALLOW rules listed
 Turn IPv6 Filtering ON and DENY rules listed

Name	Schedule	Source	Destination	Protocol	Port Range
	Always	Interface: LAN IP Address / PrefixLength:	Interface: LAN IP Address / PrefixLength:	ALL	

Save Settings Don't Save Settings

IPv6 Firewall (continued)

Destination Enter the destination IP address and specify the prefix length for the **IP Address / PrefixLength**:

Port Range: Enter the port range to apply the rule to. If the protocol is set as **ALL** or **ICMP** this feature is disabled.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 Advanced configuration interface. At the top, the 'DIR-819' logo and 'ADVANCED' tab are visible. The 'IPv6 FIREWALL' section is active, showing a description of the firewall settings and 'Save Settings' / 'Don't Save Settings' buttons. Below this is the 'IPv6 SIMPLE SECURITY' section with an 'Enable IPv6 Simple Security' checkbox. The '20 -- IPv6 FIREWALL RULES' section shows the remaining number of rules (24) and a configuration dropdown menu. The main rule configuration area includes fields for Name, Schedule, Source/Interface, Destination/Interface, IP Address/PrefixLength, Protocol, and Port Range. The 'Save Settings' / 'Don't Save Settings' buttons are at the bottom.

IPv6 Routing

Click **IPv6 Routing** on the navigation menu to configure IPv6 Routing. The routing page allows you to define custom static routes to control the route which your data takes. When you are satisfied with your configuration, click **Save Settings**.

10 -- ROUTE LIST

Enable: Check the box to enable this rule.

Name: Enter a name for this IPv6 static route.

Destination IPv6 / Prefix Length: Enter the destination IPv6 address and Prefix Length.

Prefix Length:

Metric: Enter the metric value between 1-255.

Interface: Select the Interface from the drop-down menu.

Gateway: Enter the gateway IPv6 address.

Click the **Save Settings** button when you are finished.

D-Link

DIR-819 **ADVANCED**

IPV6 ROUTING **ROUTING**

ROUTING

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

Save Settings Don't Save Settings

10 -- ROUTE LIST

☐	Name 	Destination IPv6 / Prefix Length
	Metric 256	Interface NULL
		Gateway

Save Settings Don't Save Settings

Tools

The Tools tab provides access to administration related settings of your DIR-819.



DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	ADMINISTRATOR SETTINGS The 'admin' account can access the management interface. The admin has read/write access and can change password. By default there is no password configured. It is highly recommended that you create a password to keep your router secure. Save Settings Don't Save Settings				
TIME					
SYSLOG					
SYSTEM					
FIRMWARE					
DYNAMIC DNS					
SYSTEM CHECK					
SCHEDULES					
	ADMIN PASSWORD Please enter the same password into both boxes, for confirmation. Password : Verify Password :				
	ADMINISTRATION Enable HTTPS Server : ☐ Enable Remote Management : ☐ Remote Admin Port : 8080 Use HTTPS: ☐ Remote Admin Inbound Filter : Allow All Details : Allow All				
	Save Settings Don't Save Settings				



DIR-819	SETUP
INTERNET	INTERNET CONNECTION

To return to this Web UI Table of Contents page, simply click the D-Link logo on the top right of each page.

Admin

Click **Admin** on the navigation menu to configure the administration settings. This page allows you to configure access to the web configuration utility. When you are satisfied with your configuration, click **Save Settings**.

ADMIN PASSWORD

Password: Enter the new password for the admin account.

Verify Password: Enter the new password for the admin account one more time.

ADMINISTRATION

Enable HTTPS Check to enable HTTPS to connect to the router securely. You may **Server::** access the web configuration utility using **https://dlinkrouter.local/**.

Enable Remote Management: Remote management allows the DIR-819 to be configured from the Internet by a web browser. A password is still required to access the web management interface.

Remote Admin Port: Enter the port number you wish to use to access the DIR-819's web configuration utility. Example: **http://x.x.x.x:8080** where x.x.x.x is the Internet IP address of the DIR-819 and 8080 is the port used for the web management interface.

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

Remote Admin Inbound Filter: You may select an inbound filter from the drop down menu to restrict remote administration. Refer to **Inbound Filter** on page **86** for more information.

Details: The current status of the Remote Administration Inbound filter is displayed here.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 web configuration utility interface. At the top, there's a header with the D-Link logo and 'DIR-819' model name. Below this, there's a navigation bar with 'TOOLS' and 'ADMINISTRATOR SETTINGS'. The 'ADMINISTRATOR SETTINGS' section is active, showing the 'ADMIN PASSWORD' sub-section. It prompts the user to enter a password and verify it. Below this, the 'ADMINISTRATION' section is visible, showing options to 'Enable HTTPS Server', 'Enable Remote Management', and 'Remote Admin Port' (set to 8080). There's also a 'Remote Admin Inbound Filter' dropdown menu set to 'Allow All'. At the bottom, there are 'Save Settings' and 'Don't Save Settings' buttons.

Time

Click **Time** on the navigation menu to configure the time. When you are satisfied with your configuration, click **Save Settings**.

TIME AND DATE CONFIGURATION

Time: The currently set time on the router is displayed.

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

Enable Daylight Saving: Enable or disable daylight saving time.

Daylight Saving Offset: Select the daylight saving offset if Daylight Saving time will be used.

Daylight Saving Dates: Select the date range for when to start and stop daylight savings time.

AUTOMATIC TIME AND DATE CONFIGURATION

Automatically synchronize with D-Link's Internet time server: Enable this option to get the current time from an NTP server on the Internet. To configure the router's time and date manually, disable this option and use the drop-down menus that appear to input the time server: time and date.

NTP Server Used: If you enable this option, select an NTP server from the drop-down menu.

SET THE TIME AND DATE MANUALLY

You may manually set the time from this option or set the time by clicking **Sync. your computer's time settings**.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 web interface. At the top, there's a navigation bar with 'DIR-819' and 'TOOLS'. Below this, a tab labeled 'TIME AND DATE' is selected. The main content area is titled 'TIME AND DATE' and contains a description: 'The Time and Date Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to adjust the time when needed.' Below the description are 'Save Settings' and 'Don't Save Settings' buttons.

The 'TIME AND DATE CONFIGURATION' section shows the current time as '2016-09-19 12:00:00'. The 'Time Zone' is set to '(GMT+08:00) Taipei'. The 'Enable Daylight Saving' checkbox is checked. The 'Daylight Saving Offset' is set to '-02:00'. The 'Daylight Saving Dates' section shows a table with columns for Month, Week, Day of Week, and Time. The 'DST Start' is set to Mar 2nd Sun 2 am, and the 'DST End' is set to Nov 1st Sun 2 am.

The 'AUTOMATIC TIME AND DATE CONFIGURATION' section shows the 'Automatically synchronize with D-Link's Internet time server' checkbox checked. The 'NTP Server Used' is set to 'ntp1.dlink.com'.

The 'SET THE TIME AND DATE MANUALLY' section shows input fields for Year (2016), Month (Sep), Day (19), Hour (4), Minute (6), and Second (59). There is a 'Sync. your computer's time settings' button and 'Save Settings' and 'Don't Save Settings' buttons at the bottom.

Syslog

Click **Syslog** on the navigation menu to configure the system log settings. This device maintains a running log of events which can be sent to a syslog server. Refer to **Logs** on page **114** for an example system log. When you are satisfied with your configuration, click **Save Settings**.

SYSLOG SETTINGS

Enable Logging to SysLog Server: Enable or disable the sending of router logs to a syslog server.

If you enable **Logging to SysLog Server**, enter the Syslog Server IP Address:

SysLog Server IP Address: Enter the IP address of the syslog server. Use the **Computer Name Address:** dropdown menu and the << button to quickly select a device. The IP address is automatically populated.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 web interface. At the top, the 'DIR-819' model name and 'TOOLS' menu are visible. The 'SYSLOG' tab is selected. Below the 'SYSLOG' header, a message states: 'The SysLog options allow you to send log information to a Syslog Server.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'SYSLOG SETTINGS' section is expanded, showing 'Enable Logging To SysLog Server' with a checked checkbox. Below this, there is a 'Syslog Server IP Address' field, a '<<' button, and a 'Computer Name' dropdown menu. At the bottom of this section, there are 'Save Settings' and 'Don't Save Settings' buttons.

System

Click **System** on the navigation menu to configure the system settings. This section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created.

SAVE AND RESTORE SETTINGS

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

Load Settings From Local Hard Drive: Use this option to load previously saved router configuration settings. Use the **Choose File** option to find a previously saved file of configuration settings and then click the **Restore Configuration From File** to transfer those settings to the router.

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

Reboot The Device: Click this button to reboot the device.

Clear Language Pack: If the device is of other language than English, clicking this button to convert the router's language back to English.

The screenshot shows the D-Link DIR-819 web interface. At the top, there's a navigation bar with 'DIR-819' and 'TOOLS'. Below that, a 'SYSTEM' tab is selected, and the 'SAVE AND RESTORE SETTINGS' section is active. The section contains several buttons: 'Save Configuration' for saving settings to a local file, 'Choose File' and 'Restore Configuration From File' for loading settings from a local file, 'Restore Factory Defaults' for resetting to factory settings, 'Reboot the Device' for restarting the router, and 'Clear' for clearing the language pack.

SAVE AND RESTORE SETTINGS

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

SAVE AND RESTORE SETTINGS

Save Settings To Local Hard Drive :

Load Settings From Local Hard Drive : No file chosen

Restore To Factory Default Settings :

Reboot The Device :

Clear Language Pack :

Firmware

Click **Firmware** on the navigation menu to configure the firmware. Please check the D-Link support website for firmware updates and new language packs at <http://support.dlink.com>. Be sure to keep your router firmware updated to help protect against the latest cyber threats.

FIRMWARE INFORMATION

Current Firmware Version: The current firmware version is displayed here.

Current Firmware Time: The release date and time of the current firmware is displayed here.

Check Online Now for Latest Firmware Version: Click this button to prompt the router to check for a new firmware version.

FIRMWARE UPGRADE

Upload: Select a file to upgrade your device with by clicking the **Choose File** button. Click the **Upload** button to begin the firmware upgrade.

Clear Config: Check this box to clear the current settings of your DIR-819 once the firmware update is applied.

LANGUAGE PACK UPGRADE

Upload: You can change the language of the web UI by uploading language packs. Select a file to upgrade your device with by clicking the **Choose File** button. Click the **Upload** button to begin the firmware upgrade.

Click the **Save Settings** button when you are finished.

The screenshot shows the D-Link DIR-819 web interface. At the top, there's a navigation bar with 'DIR-819' and 'TOOLS'. Below this, there's a 'FIRMWARE' section with a 'FIRMWARE UPDATE' button. The 'FIRMWARE UPDATE' section contains instructions on how to upgrade the firmware and language pack, and a 'Check Online Now for Latest Firmware Version' button. Below this is the 'SAVE AND RESTORE SETTINGS' section, which shows the current firmware version (V1.01) and time (Sep-29-2016T21:40:49). It also has a 'Check Online Now for Latest Firmware Version' button. The 'FIRMWARE UPGRADE' section has a 'Note' about resetting configuration options, instructions on how to upgrade, and an 'Upload' button. The 'LANGUAGE PACK UPGRADE' section also has an 'Upload' button.

Dynamic DNS

Click **Dynamic DNS** on the navigation menu to configure the Dynamic Domain Name Server (DDNS) client. DDNS makes accessing your network from the Internet easier by providing you with an easy to use web address. Owners of D-Link routers can use the dlinkdns service.

DYNAMIC DNS SETTINGS

Enable Dynamic DNS: Enable or disable the Dynamic DNS feature.

If you enabled **Dynamic DNS**, configure the following settings:

Server Address: Enter the IP address of your DDNS provider. Use the **Select Dynamic DNS Server** dropdown menu and the << button to quickly select a device. The IP address is automatically populated.

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

Username: Enter your DDNS username.

Password: Enter your DDNS password.

Verify Password: Enter your DDNS password one more time.

Timeout: Enter a timeout time (in hours) before the DDNS information is automatically updated.

Status: The current status of your DDNS service is displayed here.

Click the **Save Settings** button when you are finished.

D-Link

DIR-819

TOOLS

DYNAMIC DNS

DYNAMIC DNS

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

Save Settings Don't Save Settings

DYNAMIC DNS SETTINGS

Enable Dynamic DNS : ☒

Server Address : << Select Dynamic DNS Server ▼

Host Name :

Username :

Password :

Verify Password :

Timeout : 576 (Times)

Status : Disconnected

Save Settings Don't Save Settings

System Check

Click **System Check** on the navigation menu to test your connection to the Internet.

PING TEST

Host Name or IP Address: Enter either an IP address or web address that you wish to Ping and click **Ping**.

IPv6 PING TEST

Host Name or IPv6 Address: Enter either an IPv6 address or web address that you wish to Ping and click **Ping**.

PING RESULT

The results of the test are displayed in this dialog box.

The screenshot shows the D-Link DIR-819 web interface. At the top is the D-Link logo. Below it is a navigation bar with 'DIR-819' and 'TOOLS'. Under 'TOOLS', 'SYSTEM CHECK' is selected, and 'PING TEST' is highlighted in orange. The 'PING TEST' section has a header bar and a description: 'Ping Test sends "ping" packets to test a computer on the Internet.' Below this are two input sections: 'PING TEST' with a text field for 'Host Name or IP Address' and a 'Ping' button, and 'IPv6 PING TEST' with a text field for 'Host Name or IPv6 Address' and a 'Ping' button. At the bottom is a 'PING RESULT' section with a label 'Result here'.

D-Link®	
DIR-819	TOOLS
SYSTEM CHECK	PING TEST
PING TEST	
Ping Test sends "ping" packets to test a computer on the Internet.	
PING TEST	
Host Name or IP Address :	Ping
IPv6 PING TEST	
Host Name or IPv6 Address :	Ping
PING RESULT	
Result here	

Schedules

Click **Schedules** on the navigation menu to configure the system schedules. Several router functions be operated according to a pre-configured schedule which may be created from this page.

10 -- ADD SCHEDULE RULE

If you wish to create a new schedule, fill in the following fields:

Name: Enter a name for your new schedule.

Day(s): Choose to have the schedule apply to **All Week** or **Select Days** and check the boxes of the days to apply the rules to.

All Day - 24 hrs: Check this box to have the rule apply all day or leave this box unchecked at fill in the **Start Time** and **End Time** fields.

Start Time: Enter the start time for this rule to start.

End Time: Enter the end time for this rule to stop.

Click the **Add** button when you are satisfied with your new schedule.

SCHEDULE RULES LIST

The currently added rules are displayed in this table. You may edit or delete a rule by clicking on its corresponding **Edit** or **Delete** buttons.

D-Link

DIR-819

TOOLS

SCHEDULES

SCHEDULES

SCHEDULES

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

10 -- ADD SCHEDULE RULE

Name :

Day(s) : ☒ All Week ☐ Select Days

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Frid ☐ Sat

All Day - 24 hrs : ☐

Start Time : : (hour:minute)

End Time : : (hour:minute)

Add Cancel

SCHEDULE RULES LIST

Name	Days	Time Frame
------	------	------------

Status

The Status tab provides information about the DIR-819's current status.



DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
---------	-------	----------	-------	--------	---------

DEVICE INFO
 LOGS
 STATISTICS
 INTERNET SESSIONS
 WIRELESS
 ROUTING
 IPV6
 IPV6 ROUTING

DEVICE INFORMATION

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

GENERAL

Time: 2016-09-19 13:00

Current Firmware Version : V1.01

WAN

Connection Type : DHCP Client

Cable Status : Connected

Network Status : Connected

Connection Up Time : 0 Day 0 Hour 0 Min 0 Sec

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

IP Address : 192.168.0.1

To return to this Web UI Table of Contents page, simply click the D-Link logo on the top right of each page.



DIR-819	SETUP
INTERNET	INTERNET CONNECTION

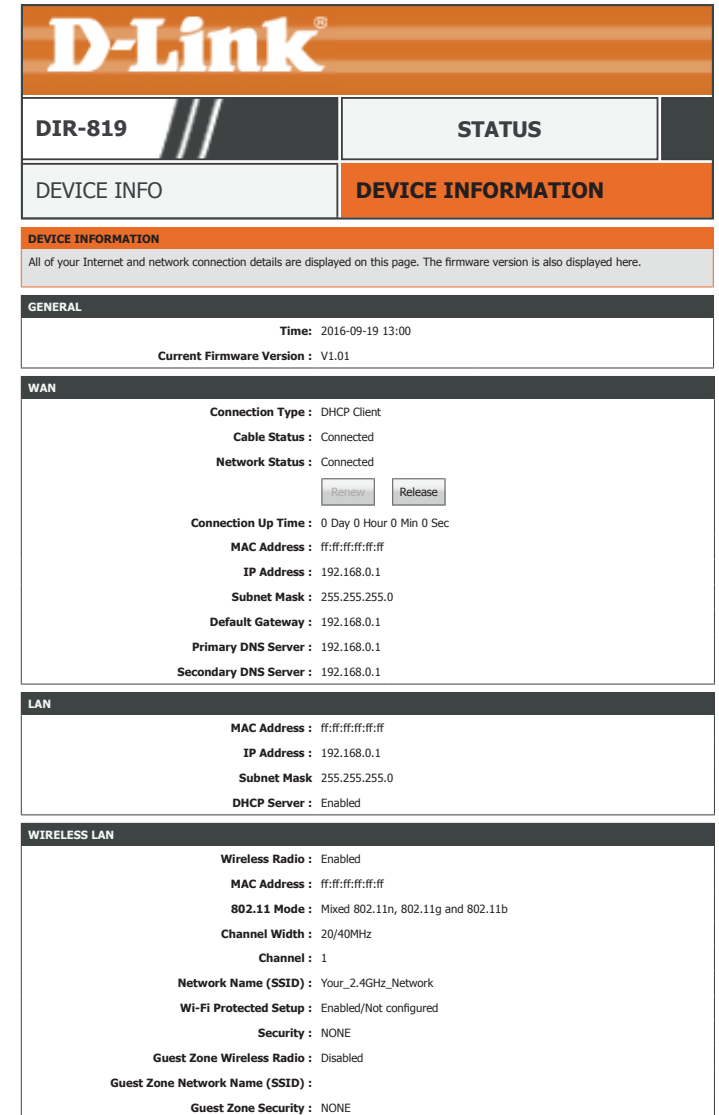
Click **Device Info** to see current information about the DIR-819. This pages displays LAN, WAN (Internet), and Wireless information.

GENERAL

WAN

LAN

WIRELESS LAN



Device Info (continued)

WIRELESS LAN2

The DIR-819's currently configured 5 GHz wireless network settings are displayed here.

LAN COMPUTERS

The devices currently connected to the DIR-819's are displayed here.

IGMP MULTICAST MEMBERSHIPS

The DIR-819's current IGMP multicast information is displayed here.

WIRELESS LAN2

Wireless Radio : Enabled

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

802.11 Mode : Mixed 802.11ac, 802.11n and 802.11a

Channel Width : 20/40/80MHz

Channel : 161

Network Name (SSID) : Your_5GHz_Network

Wi-Fi Protected Setup : Enabled/Not configured

Security : NONE

Guest Zone Wireless Radio : Disabled

Guest Zone Network Name (SSID) :

Guest Zone Security : NONE

LAN COMPUTERS

MAC Address	IP Address	Name(if any)
ff:ff:ff:ff:ff:ff		

IGMP MULTICAST MEMBERSHIPS

IPv4 Multicast Group Address
IPv6 Multicast Group Address

Logs

Click **Logs** on the navigation menu to view the system log. This device maintains a running log of events which can be sent to a syslog server. Refer to **Syslog** on page **105** for more information on configuring the system log.

SAVE LOG FILE

Click the **Save** button to save the log file to your local hard drive.

WAN

Log Type: To change the type of information to view and then click the **Save Settings** button.

Log Level: To change the level of information to view and then click the **Save Settings** button.

LOG FILES

Click the navigation buttons to view the log file.

The screenshot shows the D-Link DIR-819 web interface. At the top, there's a header with the D-Link logo and the model number DIR-819. Below this, there's a navigation bar with 'LOGS' and 'VIEW LOG' buttons. The 'VIEW LOG' button is highlighted. The main content area is titled 'VIEW LOG' and contains a description: 'The View Log displays the activities occurring on the router.' Below this, there are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'SAVE LOG FILE' section is visible, with a checkbox for 'Save Log File To Local Hard Drive.' and a 'Save' button. The 'WAN' section shows 'Log Type' set to 'System' and 'Log Level' set to 'Critical'. There are also radio buttons for 'Firewall & Security', 'Router Status', 'Warning', and 'Information'. The 'LOG FILES' section shows a table with columns 'Time' and 'Message'. The table contains one entry: 'Sep 19 09:15:05 2016' and 'User Admin login success'.

Time	Message
Sep 19 09:15:05 2016	User Admin login success

Statistics

Click **Statistics** on the navigation menu to view statistics on the amount of traffic which has passed through the DIR-819's interfaces. Click the **Refresh Statistics** button to view the latest numbers.

D-Link®

DIR-819

STATUS

STATISTICS

TRAFFIC STATISTICS

TRAFFIC STATISTICS

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

Refresh Statistics

LAN STATISTICS

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

WAN STATISTICS

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

WIRELESS STATISTICS - 2.4GHZ BAND

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

WIRELESS STATISTICS - 5GHZ BAND

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

Internet Sessions

Click **Internet Sessions** on the navigation menu to view information about currently active Internet connections. This page helps to diagnose connectivity issues. Click the **Refresh** button to view the latest information.

D-Link®

DIR-819

STATUS

INTERNET SESSIONS

INTERNET SESSIONS

INTERNET SESSIONS

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

Refresh

IP	Protocol	NAT	Internet	State	Dir	Time Out
192.168.0.100	UDP	54674	192.168.0.1		Out	60

Wireless

Click **Wireless** on the navigation menu to view information about currently connected wireless clients. You may view each client’s MAC address, IP address, 802.11 mode, speed, and signal strength.

D-Link®

DIR-819

STATUS

WIRELESS

CONNECTED WIRELESS CLIENT L

CONNECTED WIRELESS CLIENT LISTV

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

NUMBER OF WIRELESS CLIENTS - 2.4GHZ BAND : 0

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

NUMBER OF WIRELESS CLIENTS - 5GHZ BAND : 0

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

Routing

Click **Routing** to view the currently configured IPv4 routing table.

D-Link®

DIR-819

STATUS

ROUTING

ROUTING

ROUTING

Routing Table

This page displays the routing details configured for your router.

ROUTING TABLE

Destination	Gateway	Genmask	Metric	Iface	Creator
192.168.0.100	0.0.0.0	255.255.255.0	0	eth1	0

IPV6

Click **IPv6** to view the currently IPv6 information.

IPV6 CONNECTION INFORMATION

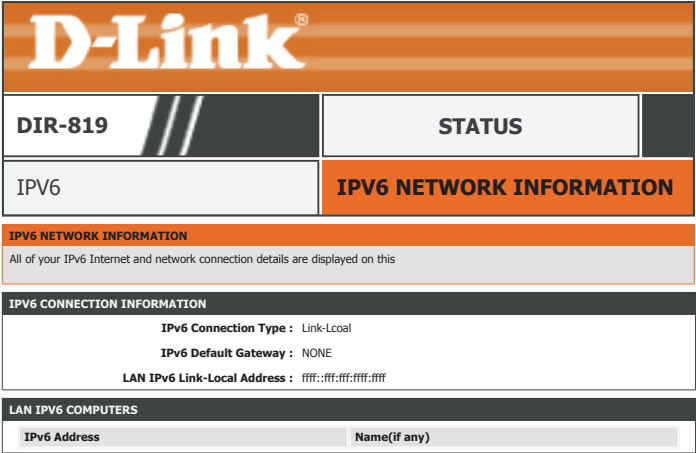
IPv6 Connection Type: The currently configured IPv6 connection type is listed here.

IPv6 Default Gateway: The current IPv6 default gateway is listed here.

LAN IPv6 Link-Local Address: The current IPv6 Link-Local address is listed here.

LAN IPV6 COMPUTERS

The currently connected IPv6 computers are listed in this table.



IPv6 Routing

Click **IPv6 Routing** to view the currently configured IPv6 routing table.

D-Link®

DIR-819

STATUS

IPv6 ROUTING

IPv6 ROUTING

IPv6 ROUTING

This page displays IPv6 routing details configured for your router.

IPv6 ROUTING TABLE

Destination IP	Gateway	Metric	Interface
fe800000000000000000000000000000/64	00000000000000000000000000000000	256	br0

Support



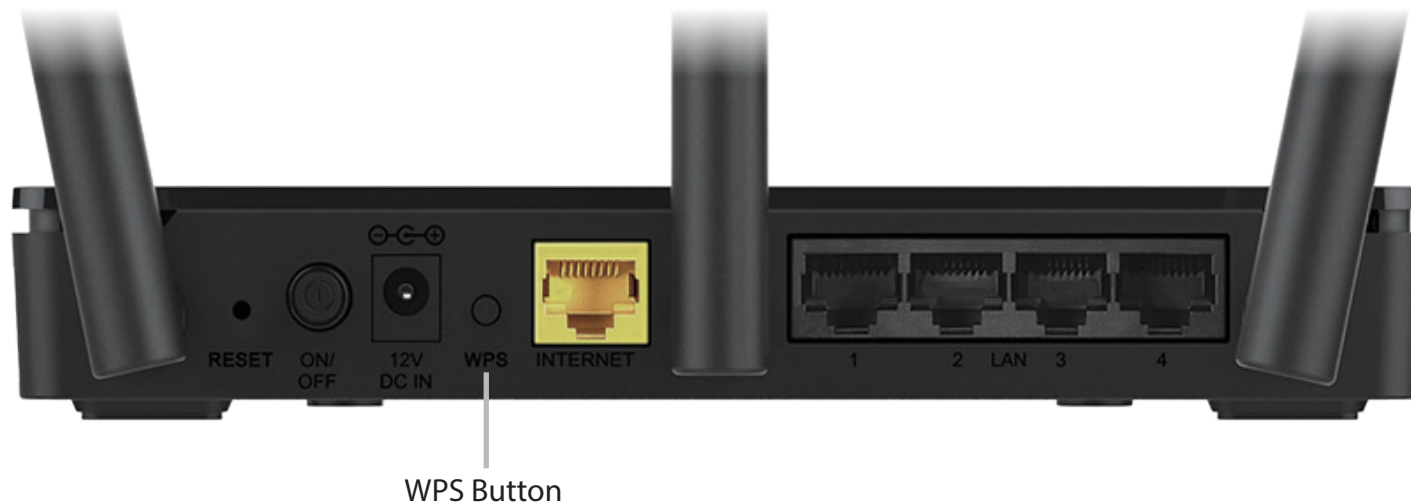
DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
MENU	IPv6 ROUTING Setup Advanced Tools Status SETUP HELP Internet Wireless Settings Network Settings IPv6 ADVANCED HELP Virtual Server Port Forwarding Application Rules QOS Engine Network Filter Inbound Filter Access Control Website filter Firewall Settings Routing Advanced Wireless Wi-Fi Protected Setup Advanced Network Guest Zone IPv6 Firewall IPv6 Routing				
SETUP					
ADVANCED					
TOOLS					
STATUS					

Connect a Wireless Client to Your Router

WPS Button

The easiest and most secure way to connect your wireless devices to the router is with WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers, and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-819 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-819 for about 1 second. The wireless 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 WPS LED stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 10

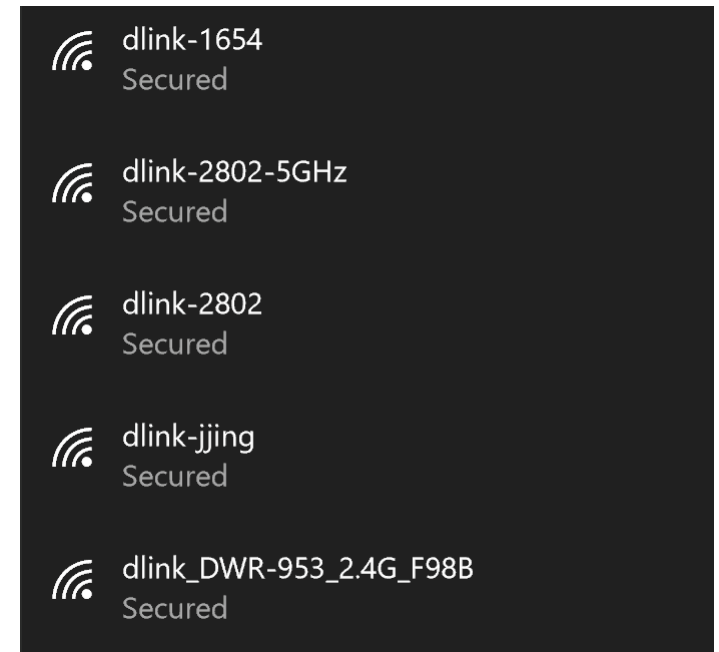
When connecting to the DIR-819 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise refer to the product label for the default Wi-Fi network SSID and password, or enter the Wi-Fi credentials set during the product configuration.

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



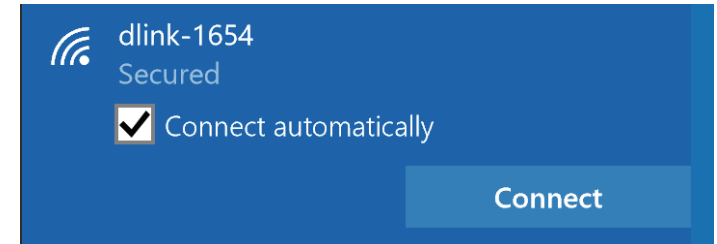
Wireless Icon

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



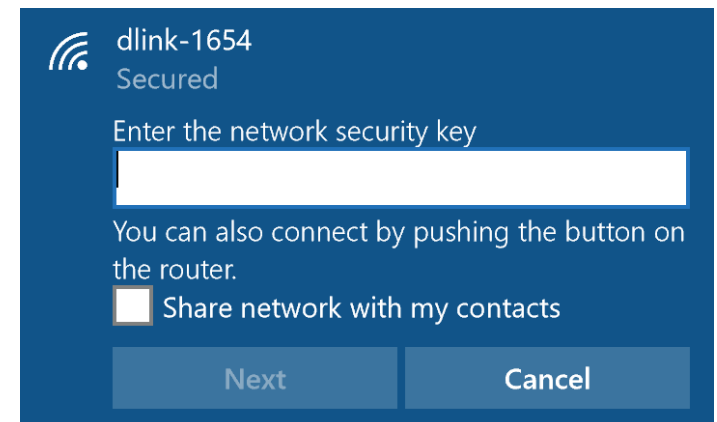
To connect to the SSID, click **Connect**.

To automatically connect 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.

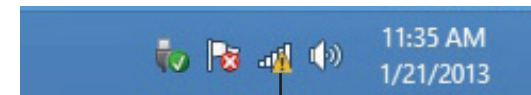


Windows® 8

WPA/WPA2

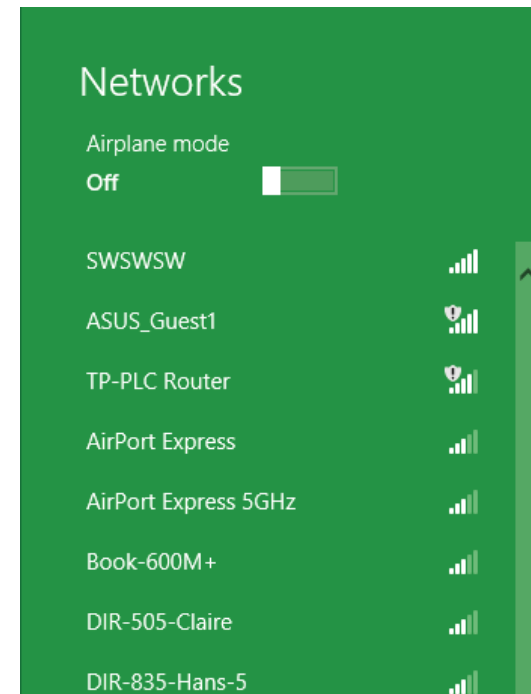
It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password) being used.

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



Wireless Icon

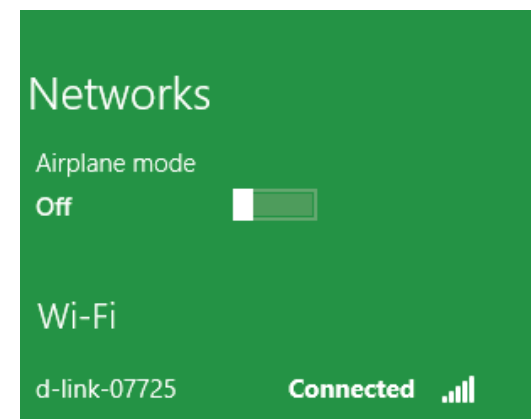
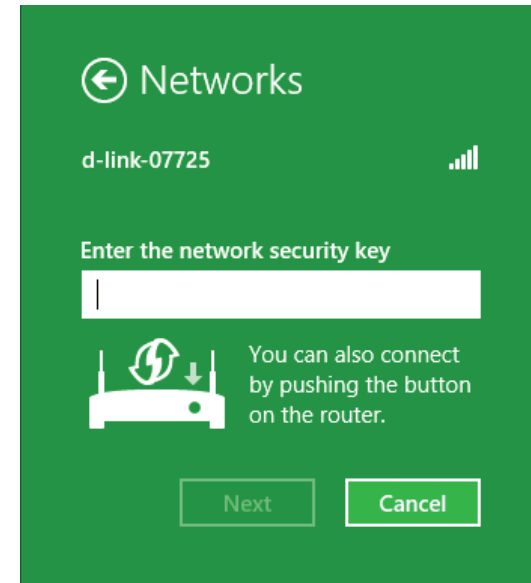
Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.



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

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

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

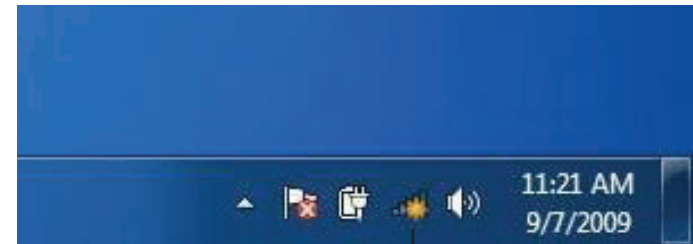


Windows® 7

WPA/WPA2

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

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.

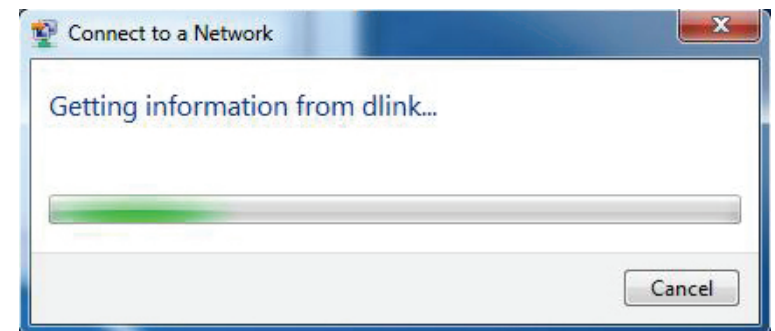


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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.



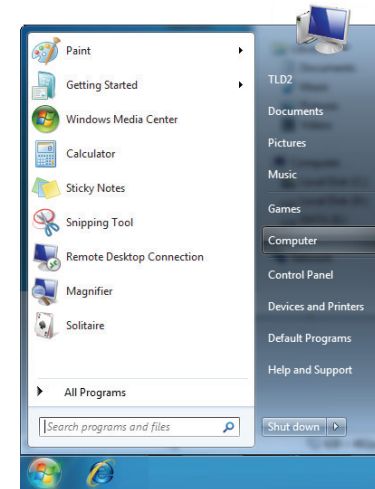
4. The following window appears while your computer tries to connect to the router.



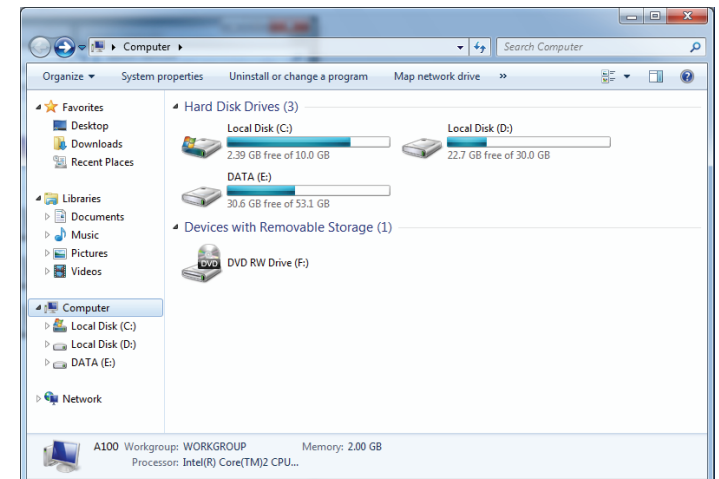
WPS

The WPS feature of the DIR-819 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

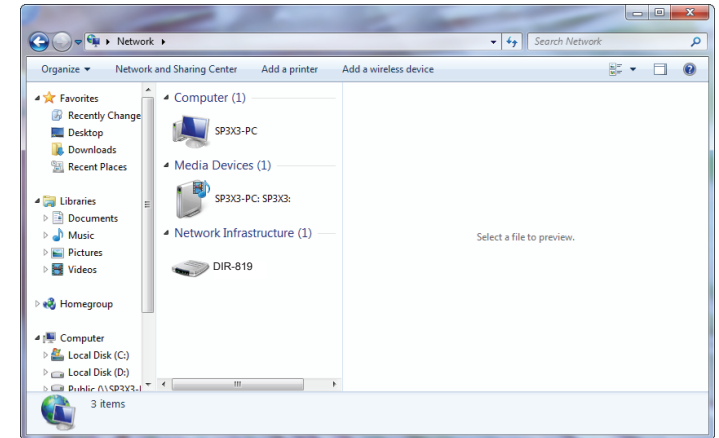
1. Click the **Start** button and select **Computer** from the Start menu.



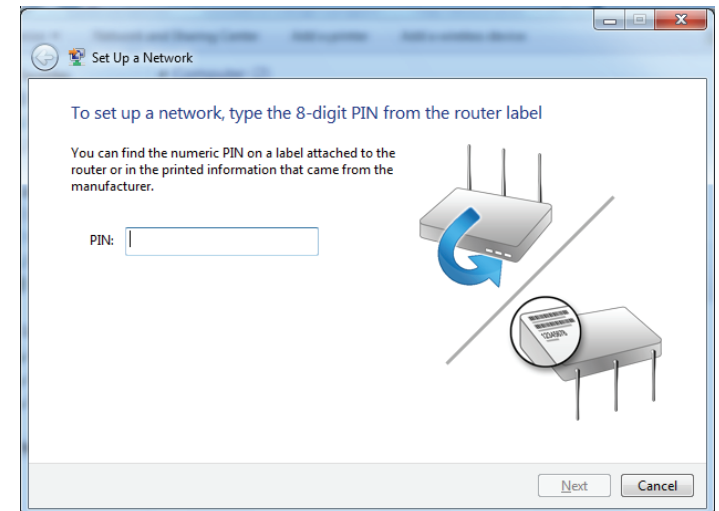
2. Click **Network** on the left side.



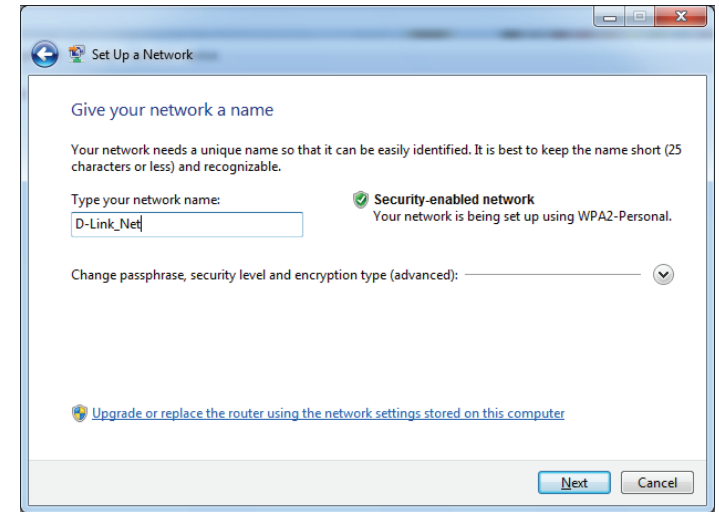
3. Double-click the DIR-819.



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**.

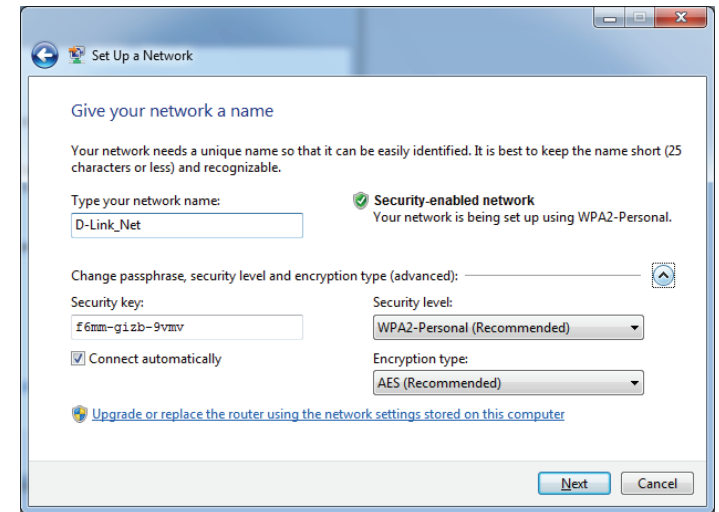


5. Type a name to identify the network.



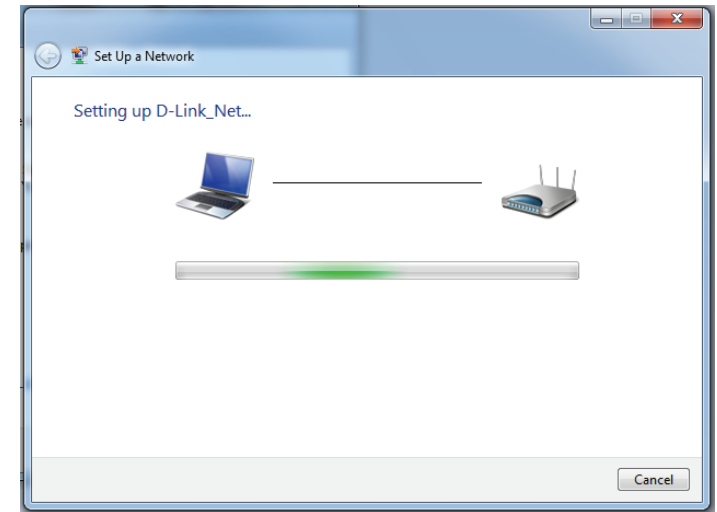
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



7. The following window appears while the DIR-819 is being configured.

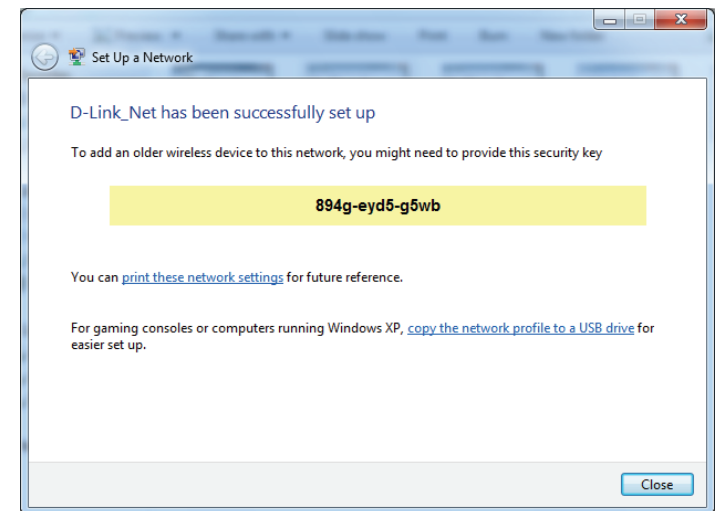
Wait for the configuration to complete.



8. The following window informs you that WPS on the DIR-819 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.



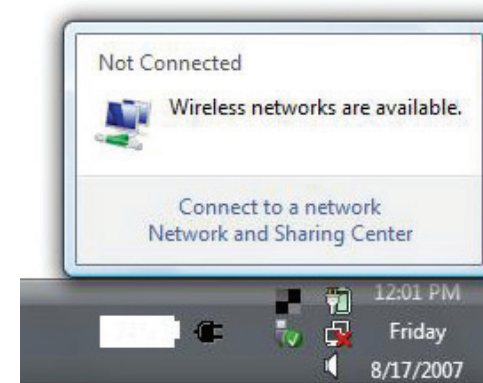
Windows Vista®

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.

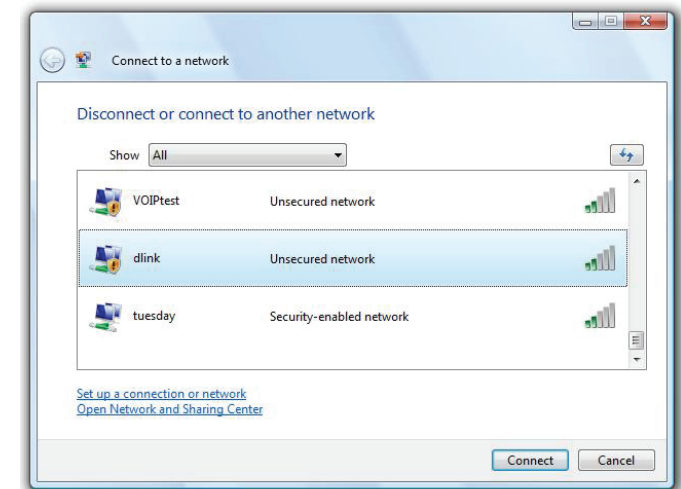
or

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.

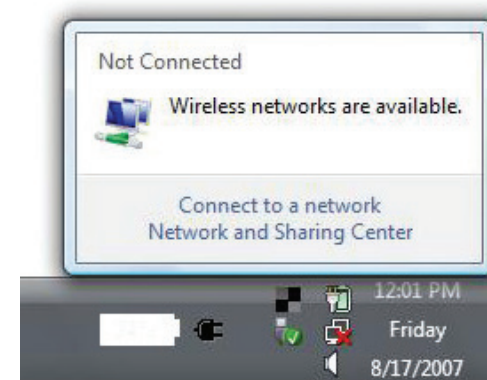
If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



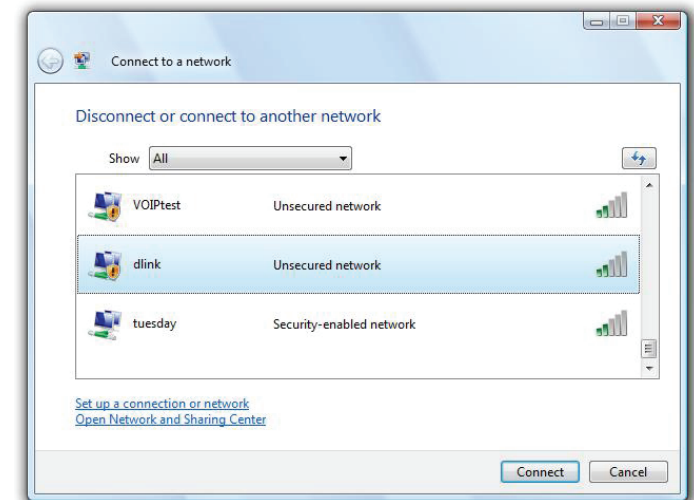
WPA/WPA2

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

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**.

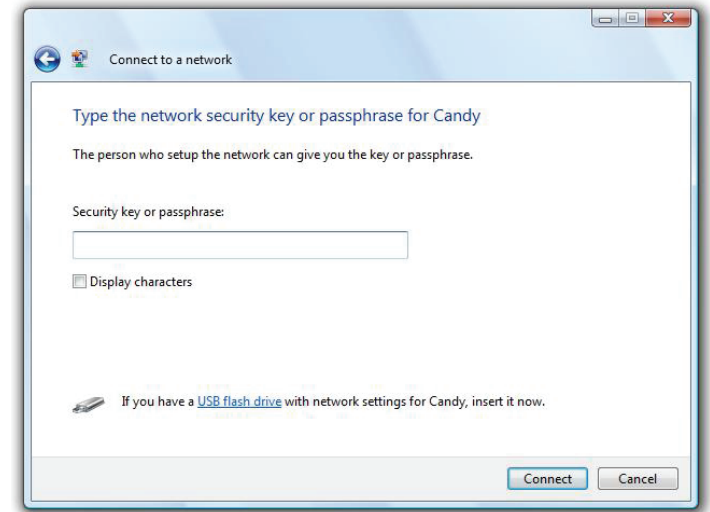


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



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-819. 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 (**192.168.11.1** 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:
 - Internet Explorer 10 or higher
 - EDGE Browser 20 or higher
 - Firefox 28 or higher
 - Safari 6.0 or higher
 - Chrome 28 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 **192.168.11.1**. 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 (192.168.11.1) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on **Setup** and then click **Manual Configure**.
- To change the MTU, enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

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

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people 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.

Security

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

Wireless Modes

There are basically two modes of networking:

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

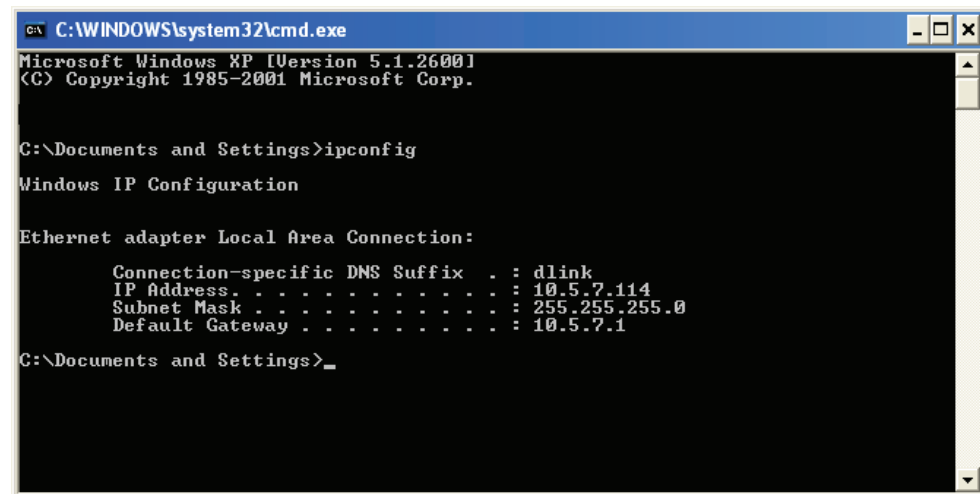
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

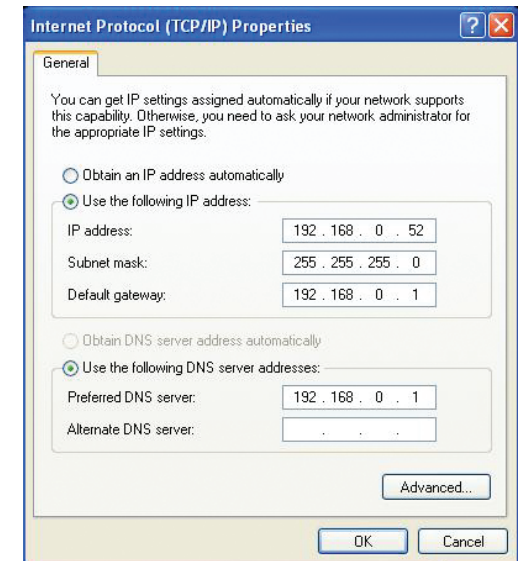
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.11.1, 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. 192.168.11.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.11.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

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



Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-819 offers the following types of security:

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

What is WPA?

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

The 2 major improvements over WEP:

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

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

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

Technical Specifications

Device Interfaces

- 802.11 ac/n/g/a/b wireless LAN
- Four 10/100 Fast Ethernet LAN ports
- One 10/100 Fast Ethernet WAN port

Antenna Types

- Three 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

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, 0.5 A

Operating Temperature

- 0 to 40 °C (32 to 104 °F)

Storage Temperature

- -20 to 65 °C (-4 to 149 °F)

Operating Humidity

- 10% to 95% maximum (non-condensing)

Storage Humidity

- 5% to 95% maximum (non-condensing)

Certifications

- FCC
- ISED
- UL
- Wi-Fi Certified
- Wi-Fi Protected Setup (WPS)

Dimensions & Weight

- L = 192 mm (7.56 inches)
- W = 108 mm (4.25 inches)
- H = 30 mm (1.8 inches)
- 240 g (8.5 ounces)

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-819 does not include 5.47-5.725 GHz in some regions.

Regulatory Information

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.

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.

RF Frequency Requirements

This device is for indoor use only when using all channels in the 5.125 to 5.250 GHz frequency range. High power radars are allocated as primary users of the 5.725 to 5.850 GHz bands. These radar stations can cause interference with and/or damage this device.

It is restricted to indoor environments 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 20 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.

(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;

(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;

(iii) for devices with detachable antenna(s), 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;

(iii) pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5850 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;

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 20 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 20 cm de distance entre la source de rayonnement et votre corps.



	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 downloades 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/EU. 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 microprogramme 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' tnizzel 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 rendelkezéseinek. 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 programska 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**

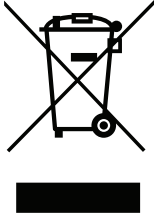
Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odnese jej prosím na sběrné místo určené místními úřady k tomuto účelu. Někteří sběrná místa přijímají výrobky zdarma. Recyklací 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**

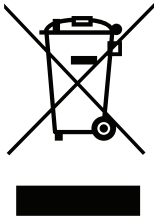
Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által 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 azért, 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**

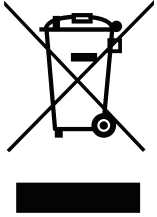
Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. 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**

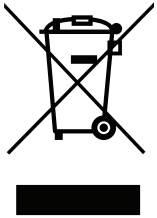
Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. 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.

Suosittelamme, 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.