D-Link[®]



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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Package Contents



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
	Computer with the following: • Windows [®] , Macintosh, or Linux-based operating system • An installed Ethernet adapter
Web-based Configuration	Browser Requirements:
Utility Requirements	• 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.



1	Ц С	Power	The Power LED indicates that the device is powered on with a proper connection to the power supply.
2	((2.4G	2.4 GHz Wireless	The Wireless LED indicates that this wireless band is working. It blinks during wireless data transmission.
3	((5G	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	Ø	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.		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.		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.

WELCOME TO THE D-LINK SETUP WIZARD	
This wizard will guide you through a step-by-step Internet.	p process to configure your new D-Link router and connect to the
Step 1: Configure your Internet Connection Step 2: Configure your Wi-Fi Security Step 3: Set your Password Step 4: Select your Time Zone Step 5: Confirm Wi-Fi Settings	
	Cancel Next

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

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				
The router is detecting your Internet connection type, please wait				
	Cancel Bray Nort			

76	If your Internet Service Provider was not listed or you don't know who it is, please select the Internet connection type below:		
be			
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.		
0	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.		
O Username / Password Connection (PPTP)			
	PPTP client.		
0	O Username / Password Connection (L2TP)		
	L2TP client.		
0	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.

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 :		
Cancel	Prev Next	

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** Enter the PPTP Subnet Mask provided by your ISP. Mask:
- PPTP Gateway IP Enter the PPTP Gateway IP Address provided by your ISP. Address:

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

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

SET USERNAME AND PASSWORD CONNECTION (PPTP)	
To set up this connection you will need to have a Userna need PPTP IP address. If you do not have this information	me and Password from your Internet Service Provider. You als on, please contact your ISP.
Address Mode :	Dynamic IP O Static IP
PPTP IP Address :	
PPTP Subnet Mask :	
PPTP Gateway IP Address :	
PPTP Server IP Address (may be same as gateway):	
User Name :	
Password :	
Verify Password :	
DNS SETTINGS	
Primary DNS Address :	
Secondary DNS Address :	
Cancel	Prev Next

D-Link DIR-819 User Manual

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 Enter the primary DNS server IP addresses. Server:

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

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

SET USERNAME AND PASSWORD CONNECTION (PPTP)		
To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need PPTP IP address. If you do not have this information, please contact your ISP.		
Address Mode :	Dynamic IP O Static IP	
PPTP IP Address :		
PPTP Subnet Mask :		
PPTP Gateway IP Address :		
PPTP Server IP Address (may be same as gateway):		
User Name :		
Password :		
Verify Password :		
DNS SETTINGS		
Primary DNS Address :		
Secondary DNS Address :		
Cancel	Prev Next	



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 Enter the L2TP Server IP address provided by your ISP. Address:
 - 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 Enter the primary DNS server IP addresses. Server:

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

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

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 O 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 Addr	ess: (optional)	
Cancel	Prev Next	

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 Enter the primary DNS server IP addresses. Server:

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

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

	70.4.1.1	
	IP Address :	
	Subnet Mask :	
	Default Gateway :	
DNS SETTINGS		
	Primary DNS Address :]
6-	andam DNC Address	(antional)

Step 2 - Configure Your Wi-Fi Security

STEP 2: CONFIGURE YOUR WI-FI SECURITY

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

Wi-Fi Password: Enter a wireless password according to the onscreen guidelines.

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

Wi-Fi Password: Enter a wireless password according to the onscreen guidelines.

Click **Next** to continue.

Give your Wi-Fi network a name and a password. (2.4GHz Band) Wi-Fi Network Name(SSID) : Your_2.4GHz_Network (Using up to 32 characters) Wi-Fi Password : A_Str0ng_P@ssWord! (Between 8 and 63 characters) Give your Wi-Fi network a name and a password, (5GHz Band) Wi-Fi Network Name(SSID) Your_5GHz_Network (Using up to 32 characters) Wi-Fi Password A Str0ng_P@ssWord! (Between 8 and 63 characters) Next Cancel Prev

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 4: Select Your Time Zone

STEP 4: SELECT YOUR TIME ZONE

Select your time zone. Click Next to continue.

SIEP 33 SET YOUR YASSWORD 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	evice, please set and verify a password below.	
Verify Password	:	
Cancel	Prev Next	

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 :	(GMT+08:00) Taipei			
Cancel	Prev Next			

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.

STEP 5: CONFIRM WI-FI SETTINGS	
Below is a detailed summary of your w piece of paper, so you can configure th	ireless security settings. Please print this page out, or write the information on a e correct settings on your Wi-Fi devices.
Wi-Fi Network Name(SSID) 2.4GHz :	Your_2.4GHz_Network
Wi-Fi Password	A_Str0ng_P@ssWord!
Wi-Fi Network Name(SSID) 5GHz :	Your_5GHz_Network
Wi-Fi Password	A_Str0ng_P@ssWord!
	Cancel Prev Next

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

ogin 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				
WIRELESS SETTINGS	If you are configuring the device the instructions on the screen. If	for the first time, we recommend you wish to modify or configure th	that you click on the Internet Conne ne device settings manually, click the	ection Setup Wizard, and follow e Manual Internet Connection	
NETWORK SETTINGS	Setup.				
 IPV6	INTERNET CONNECTION SET	UP WIZARD			
	If you would like to utilize our eas Internet, click on the button below	sy to use Web-based Wizard to ass w.	sist you in connecting your new D-Li	nk Systems Router to the	
		Internet Connec	tion Setup Wizard		
	Note: Before launching the wizard package.	l, please make sure you have follo	wed all steps outlined in the Quick	Installation Guide included in the	

C S dlinkrouter.local.	¢ ≞ → ۹

LOGIN	
Login to the router :	
User Name :	Admin
Password :	Login

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.

-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		D-Link	
		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.

INTERNET CONNECTION

INTERNET

Setup

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

D-Link

					and the second			
DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT			
INTERNET	INTERNET CONNECTION							
WIRELESS SETTINGS	If you are configuring the device the instructions on the screen. If							
NETWORK SETTINGS	Setup.							
 TPV6	INTERNET CONNECTION SET							
	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 CONNEC							
	If you would like to configure the							

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**.

D-Link					
DIR-819	SETUP				
INTERNET INTERNET CONNECTION					
the instructions on the screen. If you wish to modify or configure the device settings manually, dick the Manual Internet Connection Setup. INTERNET CONNECTION SETUP WIZARD					
If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below. Internet Connection Setup Wizard					
Note:Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.					
MANUAL INTERNET CONNECTION OPTION					
If you would like to configure the Internet settings of your new D-Link Router manually, then click on the button below.					
Manual Internet Connection Setup					

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.

STEP 2: SELECT YOUR TIME ZONE

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

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 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 Nex	t Cancel Connect				

STEP 2: SELECT Y	DUR 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			

ST	EP 3: CONFIGURE YOUR INTERNET CONNECTION					
Ple	ase select the Internet connection type below:					
۲	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.					
0	Username / Password Connection (PPPoE)					
	Choose this option if your Internet connection requires a username and password to get online. Most DSL moderns use this type of connection.					
0	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.					
0	Username / Password Connection (L2TP)					
	Choose this option if your Internet connection requires a username and password to get online. Most DSL moderns use this type of connection.					
0	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					

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 Enter the primary DNS server IP addresses. Server:

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

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)			
	Clone Your PC's MAC Address			
Host Name :	dlinkrouter			
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)			
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

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 :				
Prev Next Cancel Con	nect			

SETUP COMPLETE!						
The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings.						
	Prev	Next		Cancel	Connec	t

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

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

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

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

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 Enter the primary DNS server IP addresses. Server:

SET USERNAME AND PASSWORD CONNECTION (P	РТР)
To set up this connection you will need to have a U need PPTP IP address. If you do not have this infor	sername and Password from your Internet Service Provider. You also mation, please contact your ISP.
Address Mode :	Dynamic IP O Static IP
PPTP IP Address :	
PPTP Subnet Mask :	
PPTP Gateway IP Address :	
PPTP Server IP Address :	(may be same as gateway)
User Name :	
Password :	
Verify Password :	
DNS SETTINGS	
Primary DNS Addr	ress :
Secondary DNS Addr	ress : (optional)
Prev	Next Cancel Connect

PPTP (continued)

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

Click Next to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

DNS SETTINGS	
Primary DNS Address :	
Secondary DNS Address :	(optional)
Prev Next	Cancel

SETUP COMPLETE!	
The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings.	
Pr	rev Next Cancel Connect

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

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

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

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

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 Enter the primary DNS server IP addresses. Server:

SET USERNAME AND PASSWORD CONNECTION (L2TP)		
To set up this connection you will need to have a U need L2TP IP address. If you do not have this infor	sername and Password from your Internet Service Provider. You also mation, please contact your ISP.	
Address Mode :	Dynamic IP O 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 Addr	ess :	
Secondary DNS Addr	ess: (optional)	
Prev	Next Cancel Connect	

D-Link DIR-819 User Manual

Internet Connection Setup Wizard (continued)

L2TP (continued)

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

Click Next to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

DNS SETTINGS	
Primary DNS Address :	
Secondary DNS Address :	(optional)
Prev Next	Cancel

SETUP COMPLETE!	
The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings.	
	Prev Next Cancel Connect

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
	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:	Enter the IP address provided by your ISP.	IP Address :
Subnet Mask	Enter the subnet mask	Subnet Mask : Default Gateway :
Subfict musiki		DNS SETTINGS
Default Gateway:	Enter the default gateway	Primary DNS Address :
	Litter the deladit gateria).	Secondary DNS Address : (optional)
		Prev Next Cancel Connect
	DNS SETTINGS	
Primary DNS	Enter the primary DNS server IP addresses.	
Server:		
Secondary DNS	Enter the secondary DNS server IP addresses.	
Server:		

Click Next to continue.

SETUP COMPLETE!

Click **Connect** to finish the setup.

SETUP COMPLETE!		
The Internet Connection Setup Wizard has completed. Click the Connect button to save your settings.		
	Prev Next Cancel Connect	
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 Select the Internet Connection protocol from the dropdown menu Connection is: 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**.

DIR-819	SETUP
INTERNET	WAN
Note : If using the PPPoE option, you will need to remove Save Settings Don't Save Settings	or disable any PPPoE client software on your computers.
Note : If using the PPPoE option, you will need to remove Save Settings Don't Save Settings INTERNET CONNECTION TYPE Choose the mode to be used by the router to connect	or disable any PPPoE dient software on your computers.

Static IP

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

STATIC IP ADDRESS INTERNET CO	NNECTION 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 Enter the primary DNS server IP addresses. Server:
 - Secondary DNS Enter the secondary DNS server IP addresses. Server :
 - **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.

DIR-819	SETUP	
INTERNET	WAN	
Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPP PPTP, I2TP, and DS-Lite. If you are unsure of your connection method, please contact your Internet Service Provider. Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers. Save Settings Don't Save Settings INTERNET CONNECTION TYPE		
INTERNET CONNECTION TYPE Choose the mode to be used by the router to o	connect to the Internet.	
INTERNET CONNECTION TYPE Choose the mode to be used by the router to o My Internet Connectio STATIC IP ADDRESS INTERNET CONNECTION Enter the static address information provided	connect to the Internet. n is : Static IP TYPE : by your Internet Service Provider (ISP).	
INTERNET CONNECTION TYPE Choose the mode to be used by the router to o My Internet Connectio STATIC IP ADDRESS INTERNET CONNECTION Enter the static address information provided I Su Defaul Primary I	onnect to the Internet. n is : Static IP TYPE: by your Internet Service Provider (ISP). P Address : bnet Mask : t Gateway : NS Server :	

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

D-Link		
DIR-819	SETUP	
INTERNET	WAN	
WeAN Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPof PPTP, L2TP, and DS-Lite. If you are unsure of your connection method, please contact your Internet Service Provider. Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers. Save Settings Don't Save Settings		
INTERNET CONNECTION TYPE Choose the mode to be used by the router to connect to the Internet. My Internet Connection is : Dynamic IP (DHCP)		
DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE : Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address informatio and/or a username and password. Host Name : dinkrouter		
Use Unicasting : (compatibility for some DHCP Clients) Primary DNS Server :		
Secondary DNS Server : (optional) MTU : 1500 MAC Address :		
Save Settings Don't Save Settings	Clone Your PC's MAC Address	

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 Set the length of time to wait before disconnecting if there is no Time: 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 Enter the primary DNS server IP addresses. Server:

D-Link		
DIR-819		SETUP
INTERNET		WAN
WAN Use this section to cor	figure your Internet Connection type.	here are several connection types to choose from: Static IP, DHCP, P
Note : If using the PP	e. If you are unsure of your connection PoE option, you will need to remove or	method, please contact your Internet Service Provider. disable any PPPoE client software on your computers.
Save Settings	Don't Save Settings	
INTERNET CONNEC	FION TYPE be used by the router to connect t	o the Internet.
	My Internet Connection is :	PPoE (Username / Password)
	IP Address Mode : User Name :	
	Password : Verify Password :	
	Service Name :	(optional)
	Reconnect Mode :	AlwaysOn New Schedule On Demand O Manual
	Maximum Idle Time :	(minutes)
	DNS Mode :	Receive DNS from ISP O Enter DNS Manually
	Secondary DNS Server :	(optional)
	MTU :	1492
	MAC Address :	

PPPoE (Username / Password) (Continued)

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

DIR-819		SETUP	
INTERNET		WAN	
WAN			
Jse this section to con PPTP, L2TP, and DS-Lit	figure your Internet Connection type. T e. If you are unsure of your connection	here are several connection types to choose a method, please contact your Internet Service	from: Static IP, DHCP, P e Provider.
Note : If using the PPI	PoE option, you will need to remove or	disable any PPPoE client software on your co	mputers.
Save Settings	Don't Save Settings		
Choose the mode to	be used by the router to connect t	o the Internet.	
	My Internet Connection is : P	PPoE (Username / Password)	
My Internet Connection is: PPPOE (Username / Password)			
PPPOF INTERNET CO	ONNECTION TYPE .		
PPPOE INTERNET CO	ONNECTION TYPE : n provided by your Internet Servic	e Provider (ISP).	
PPPOE INTERNET CO	DNNECTION TYPE : n provided by your Internet Servic Address Mode : (e Provider (ISP). Ø Dynamic IP O Static IP	
PPPOE INTERNET CO	DNNECTION TYPE : n provided by your Internet Servic Address Mode : (IP Address : [e Provider (ISP). Dynamic IP O Static IP	
PPPOE INTERNET CO	DNNECTION TYPE : n provided by your Internet Servic Address Mode : IP Address : User Name :	e Provider (ISP). 9 Dynamic IP O Static IP	
PPPOE INTERNET CO	DNNECTION TYPE : n provided by your Internet Servic Address Mode : IP Address : User Name : Password :	e Provider (ISP). 9 Dynamic IP O Static IP	
PPPOE INTERNET CC	DNNECTION TYPE : n provided by your Internet Servic Address Mode : IP Address : User Name : Password : Verify Password :	e Provider (ISP). Dynamic IP O Static IP	
PPPOE INTERNET CC	DNNECTION TYPE : n provided by your Internet Servic Address Mode : IP Address : User Name : Password : Verify Password : Service Name :	e Provider (ISP). Dynamic IP O Static IP (optional)	
PPPOE INTERNET CC	DNNECTION TYPE : provided by your Internet Servic Address Mode : IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode :	e Provider (ISP). Dynamic IP O Static IP (optional) AlwaysOn V New Schedule	1
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Servic Address Mode : (IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode : (e Provider (ISP). © Dynamic IP O Static IP (optional) © AlwaysOn V New Schedule O On Demand O Manual]
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Servic Address Mode : (IP Address : User Name : Password : Verify Password : Service Name : Reconnet Mode : (Maximum Idle Time :	e Provider (ISP). Dynamic IP O Static IP (optional) AlwaysOn V New Schedule O On Demand O Manual (minutes)]
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Servic Address Mode : (IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode : (Maximum Idle Time : DNS Mode : (e Provider (ISP).]
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Servic Address Mode : (IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode : Maximum Idle Time : DNS Mode : (Primary DNS Server :	e Provider (ISP). © Dynamic IP O Static IP (optional) © AlwaysOn V New Schedule O On Demand O Manual (minutes) © Receive DNS from ISP O Enter DNS Manual	ly
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Service Address Mode : (IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode : ONS Mode : (Primary DNS Server : Secondary DNS Server :	e Provider (ISP).	ly
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Service Address Mode : (IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode : ONS Mode : (Primary DNS Server : Secondary DNS Server : MTU :	e Provider (ISP).	ly
PPPOE INTERNET CC	NNECTION TYPE : n provided by your Internet Service Address Mode : IP Address : User Name : Password : Verify Password : Service Name : Reconnect Mode : ONS Mode : Primary DNS Server : Secondary DNS Server : MTU : MAC Address :	e Provider (ISP).	ly

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** Enter the PPTP Subnet mask provided by your ISP. **Mask:**
- PPTP Gateway IP Enter the PPTP Gateway IP Address provided by your ISP. Address:

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

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

D-Link		
DIR-819	SETUP	
INTERNET	WAN	
WAN		
Use this section to configure your Internet Connection type. T PPTP, L2TP, and DS-Lite. If you are unsure of your connection	here are several connection types to choose from: Static IP, DHCP, PP method, please contact your Internet Service Provider.	
Note : If using the PPPoE option, you will need to remove or	disable any PPPoE client software on your computers.	
Save Settings Don't Save Settings		
INTERNET CONNECTION TYPE		
Choose the mode to be used by the router to connect to	o the Internet.	
My Internet Connection is : PF	PTP (Username / Password)	
Enter the information provided by your Internet Servic Address Mode :	e Provider (ISP).	
PPTP IP Address :		
PPTP Subnet Mask :		
PPTP Gateway IP Address :		
PPTP Server IP Address :		
Username :		
Password :		
Verify Password :		
Reconnect Mode :	AlwaysOn New Schedule	
Maximum Idle Time -	O On Demand O Manual (minutes)	
Primary DNS Server		
Secondary DNS Server :	(optional)	
, 210 out of t	1492	
MAC Address :		
	Clone Your PC's MAC Address	

PPTP (Username / Password) (Continued)

- Maximum Idle Set the length of time to wait before disconnecting if there is no Time: Internet activity. (Manual Only)
 - Primary DNS Enter the primary DNS server IP addresses. Server:
- Secondary DNS Enter the secondary DNS server IP addresses. Server :
 - 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.

D-Link		
DIR-819	SETUP	
INTERNET	WAN	
WAN Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPP PPTP, L2TP, and DS-Lite. If you are unsure of your connection method, please contact your Internet Service Provider. Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.		
Save Settings Don't Save Settings INTERNET CONNECTION TYPE		
Choose the mode to be used by the router to connect to My Internet Connection is :	o the Internet. PTP (Username / Password)	
PPTP INTERNET CONNECTION TYPE : Enter the information provided by your Internet Servic Address Mode :	e Provider (ISP).	
PPTP IP Address :		
PPTP Subnet Mask :		
PPTP Server IP Address :		
Username :		
Verify Password :		
Reconnect Mode :	AlwaysOn New Schedule	
Maximum Idle Time :	(minutes)	
Primary DNS Server :		
Secondary DNS Server : MTU :	(optional)	
MAC Address :	Clone Your PC's MAC Address	

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 Enter the PPTP Subnet mask provided by your ISP. Mask:
- L2TP Gateway IP Enter the PPTP Gateway IP Address provided by your ISP. ddress:

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

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

D-Link		
DIR-819	SETUP	
INTERNET	WAN	
WAN		
Use this section to configure your Internet Connection type. TI PPTP, L2TP, and DS-Lite. If you are unsure of your connection	ree are several connection types to choose from: Static IP, DHCP, PP method, please contact your Internet Service Provider.	
Note : If using the PPPoE option, you will need to remove or o	disable any PPPoE client software on your computers.	
Save Settings Don't Save Settings		
INTERNET CONNECTION TYPE		
Choose the mode to be used by the router to connect to	the Internet.	
My Internet Connection is : L2	TP (Username / Password)	
L2TP INTERNET CONNECTION TYPE : Enter the information provided by your Internet Service	e Provider (ISP).	
Address Mode :	Dynamic IP O Static IP	
L2TF Subnet Mask		
L2TP Gateway IP Address :		
L2TP Server IP Address :		
Username :		
Password :		
Verify Password :		
Reconnect Mode :	AlwaysOn New Schedule	
	O On Demand O Manual	
Maximum Idle Time :	(minutes)	
Primary DNS Server :		
Secondary DNS Server :	(optional)	
MTU :	1492	
MAC Address :		

L2TP (Username / Password) (continued)

- Maximum Idle Set the length of time to wait before disconnecting if there is no Time: Internet activity. (Manual Only)
 - Primary DNS Enter the primary DNS server IP addresses. Server:
- Secondary DNS Enter the secondary DNS server IP addresses. Server :
 - 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.

D-Link		
DIR-819	SETUP	
INTERNET	WAN	
WAN		
Use this section to configure your Internet Connection type. T PPTP, L2TP, and DS-Lite. If you are unsure of your connection	here are several connection types to choose from: Static IP, DHCP, PPPe method, please contact your Internet Service Provider.	
Note : If using the PPPoE option, you will need to remove or	disable any PPPoE client software on your computers.	
Save Settings Don't Save Settings		
Choose the mode to be used by the router to connect to	o the Internet.	
My Internet Connection is :	2TP (Username / Password)	
2TP INTERNET CONNECTION TYPE :		
inter the information provided by your Internet Servic	e Provider (ISP).	
Address Mode :	Oynamic IP O Static IP	
L2TP IP Address :		
L2TP Subnet Mask :		
L2TP Gateway IP Address :		
L2TP Server IP Address :		
Username :		
Password :		
Verity Password :		
Reconnect Mode :	AlwaysOn New Schedule	
Maximum Idle Time :	(minutes)	
Primary DNS Server :		
Secondary DNS Server :	(optional)	
MTU :	1492	
MAC Address :		
	Clone Your PC's MAC Address	

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 Enter the AFTR Name or Address. 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 Your WAN IPv6 address is listed here. Address:
- IPv6 WAN Default Your WAN IPv6 default gateway address is listed here. Gateway:

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

D-Link			
SETUP			
WAN			
WAN Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPOE, PPPOE, PPTP, L2TP, and DS-Lite. If you are unsure of your connection method, please contact your Internet Service Provider. Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers. Save Settings Don't Save Settings			
o the Internet. S-Lite			
AFTR ADDRESS INTERNET CONNECTION TYPE : Enter the AFTR address information provided by your Internet Service Provider (ISP).			
Enter the AFTR address information provided by your Internet Service Provider (ISP). DS-Lite Configuration :			
	SETUP WAN here are several connection types to choose from: Static IP, DHC method, please contact your Internet Service Provider. disable any PPPoE client software on your computers. bthe Internet. Static IP, Internet. Static IP, Internet Service Provider (ISP). DS-Lite DHCPv6 Option O Manual Configuration 2.0.0. (optional)		

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.

D-Link		
DIR-819	SETUP	
WIRELESS SETTINGS	WIRELESS SETTINGS	
The following Web-based wizards are designed to assist you in Before launching these wizards, please make sure you have for package.	n your wireless network setup and wireless device connection. Nowed all steps outlined in the Quick Installation Guide included in the	
WIRELESS NET WORK SE UP WIZARD This wizard is designed to assist you in your wireless network s your wireless network and how to make it secure. Wireless Cc Note:Some changes made using this Setup Wizard may requir can still connect to the D-Link Router.	etup. It will guide you through step-by-step instructions on how to set up nnection Setup Wizard e you to change some settings on your wireless client adapters so they	
ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD This wizard is designed to assist you in connecting your wireless device to your wireless router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the button below to begin.		
Add Wire	less Device with WPS	
MANUAL WIRELESS CONNECTION SETUP If your wireless network is already set up with Wi-Fi Protected existing wireless network. If you would like to configure the with the Manual Wireless Network Setup button below.	Setup, manual configuration of the wireless network will destroy the releas settings of your new D-Link Systems Router manually, then click or	
Manual Win	eless 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 Enter a name for the 2.4 GHz wireless network. **(SSID) 2.4GHz:**

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

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

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

Click Next to continue.

Giv	e your network a name, using up to 32 characters.	
	Network Name (SSID) 2.4GHz :	Your_2.4GHz_Network
	Network Name (SSID) 5Ghz :	Your_5GHz_Network
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.		
O Manually assign a network key		
	Use this options if you prefer to create our own key.	
No	Use this options if you prefer to create our own key. te: All D-Link wireless adapters currently support WPA.	

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.

ETUP COMPLETE!		
elow is a detailed summary of your wireless security settings. Please print this page out, or write the information on a		
ece of paper, so you can configure the correct settings on your wireless client adapters.		
Window Bounda	2 AGUE Devel	
wireless Band :	2.4GHZ Band	
Wireless Network Name (SSID) :	Your_2.4GHz_Network	
Security Mode -	Auto (WPA or WPA2) - Personal	
Security Houe .		
Cipher Type:	TKIP and AES	
Due Characteria	100-7260-	
Pre-Snared Key :	080a73t50C	
Wireless Band :	5GHz Band	
Window Natural Name (CCTD) -	Veux FCHa Naturali	
wileless Network Name (331D).	Toul_Joinz_Network	
Security Mode :	Auto (WPA or WPA2) - Personal	
Cipher Type:	TKIP and AES	
Pre-Shared Key :	d80a73f50c	
Prev	Cancel Save	
TICV	Garcer	

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

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

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

Click **Next** to continue.

- 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		(Wi-Fi Protected Access) key must meet one of following guidelines:
 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 : A_Ströng_P@ssWord! Note: You will need to enter the same password as keys in this step into your wireless clients in order wireless communication. Prev Next Cancel Swee 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 		n 8 and 63 characters (A longer WPA key is more secure than a short one
 Use the same Wireless Security Password on both 2.4GHz and 5GHz band Wireless Security Password as keys in this step into your wireless clients in order wireless communication. Prev Next Cancel Seven STEP 2: SET YOUR WIRELESS SECURITY PASSWORD 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 		64 characters using 0-9 and A-F
Wireless Security Password : Ströng_P@ssWord! Note: You will need to enter the same password as keys in this step into your wireless clients in order wireless communication. Prev Next Cancel Swee 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		☑ Use the same Wireless Security Password on both 2.4GHz and 5GHz band
Note: You will need to enter the same password as keys in this step into your wireless clients in order 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		Wireless Security Password : A_Str0ng_P@ssWord!
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	n order to ena	a will need to enter the same password as keys in this step into your wire communication.
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		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		
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		
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		
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		SET YOUR WIRELESS SECURITY PASSWORD
- 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		SET YOUR WIRELESS SECURITY PASSWORD
- Exactly 64 characters using 0-9 and A-F Use the same Wireless Security Password on both 2.4GHz and 5GHz band		SET YOUR WIRELESS SECURITY PASSWORD selected your security level - you will need to set a wireless security pas (Wi-Fi Protected Access) key must meet one of following guidelines:
□ Use the same Wireless Security Password on both 2.4GHz and 5GHz band		SET YOUR WIRELESS SECURITY PASSWORD selected your security level - you will need to set a wireless security pas (Wi-Fi Protected Access) key must meet one of following guidelines: n 8 and 63 characters (A longer WPA key is more secure than a short one
		SET YOUR WIRELESS SECURITY PASSWORD selected your security level - you will need to set a wireless security pas (Wi-Fi Protected Access) key must meet one of following guidelines: n 8 and 63 characters (A longer WPA key is more secure than a short one 64 characters using 0-9 and A-F
2.4GhzWireless Security Password : A_Str0ng_P@ssWord!		SET YOUR WIRELESS SECURITY PASSWORD selected your security level - you will need to set a wireless security pass (Wi-Fi Protected Access) key must meet one of following guidelines: n 8 and 63 characters (A longer WPA key is more secure than a short one 64 characters using 0-9 and A-F Use the same Wireless Security Password on both 2.4GHz and 5GHz band
5GhzWireless Security Password : A_Str0ng_P@ssWord!		SET YOUR WIRELESS SECURITY PASSWORD selected your security level - you will need to set a wireless security pass (Wi-Fi Protected Access) key must meet one of following guidelines: n 8 and 63 characters (A longer WPA key is more secure than a short one 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 : A_Ströng_P@ssWord!
2.4GhzWireless Security Password : A_Str0ng_P@ssWord!		SET YOUR WIRELESS SECURITY PASSWORD selected your security level - you will need to set a wireless security pas (Wi-Fi Protected Access) key must meet one of following guidelines: n 8 and 63 characters (A longer WPA key is more secure than a short one 64 characters using 0-9 and A-F

Wireless Connection Setup Wizard (continued)

SETUP COMPLETE!

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

Click Save to finish.

SE	SETUP COMPLETE!			
Be	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 dignt adapters.			
pic	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!		
	Prev	Cancel Save		

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.

TEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK
ease 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 O Select this option will display the current wireless settings for you to configure the wireless device manually
Prev Next Cancel Connect

D-Link DIR-819 User Manual

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	
O PBC :	
please press the push button on your wireless device and click the below "Connect" Button within 120 seconds	
Prev Next Cancel Connect	

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	
	Prev Next Cancel Save

STEP 2: CONNECT YOUR WIREL	ESS DEVICE	i i	
Adding wireless device: Succeeded. check wireless status.	To add another device click or	1 the Cancel b	utton below or click on the Wireless Status button to
	Prev Next	Cancel	Wireless Status

STEP 2: CONNECT YOUR WIRELESS DEVICE
Adding wireless device: Session Time-Out.
Prev Next Cancel Save

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 O 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 Con	nect	
----------------------	------	--

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		
-PTN (Personal Identification Number) Pre-shared Key adc058dce7893caf98ca91		
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 Create a name for your wireless network. Name:

802.11 Mode Select the desired wireless networking standards to use. The available (2.4 GHz): 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 Select the desired wireless networking standards to use. The available (5 GHz): options for the 2.4 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 Check this box to have the router automatically determine the best **Channel Scan:** 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.

D-Link		
DIR-819	SETUP	
WIRELESS SETTINGS	WIRELESS NETWORK	
WIRELESS NETWORK		
Use this section to configure the wireless settings for your E to be duplicated on your wireless client.	D-Link router. Please note that changes made in this section may also need	
To protect your privacy you can configure wireless security the integrity of the information being transmitted. The route WPA/WPA2 (auto-detect).	features. Securing your wireless network is important as it is used to prote er is capable of 4 types of wireless security; WEP, WPA only, WPA2 only, ar	
Save Settings Don't Save Settings		
WIRELESS NETWORK SETTINGS		
Wireless Band : 2	2.4GHz Band	
Enable Wireless :	Always New Schedule	
Wireless Network Name :	Your_2.4GHz_Network	
802.11 Mode:	802.11b only	
	802.11g only	
	802.11n only	
	Mixed 802.11g and 802.11g	
	Mixed 802.11n, 802.11g and 802.11b	
Enable Auto Channel Scan :	Z	
Wireless Channel :	04 🔻	
Transmission Rate :	Best (automatic) V (Mbit/s)	
Channel Width :	20 MHz V	
	20/40 MHz(Auto)	
Visibility Status :	Visible O Invisible	
WIRELESS SECURITY MODE		
Security Mode :	None 🔻	
-	WEP	
	WPA-Personal	
	WPA-Personal	

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 SECURITY MODE

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

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
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 :	

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.

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.

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.

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).

Authentication: Select either Both or Shared Key.

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

WIRELESS SECURITY MODE		
Security Mod	le: None	۳
	WEP	
	WPA-Personal	
	WPA-Enterprise	

ione

WIRELESS SECURITY MODE			
Security Mode	None	•	



WEP	
WEP Key Length :	64 bit (10 hex digits) (length applies to all keys)
Authentication :	Both v
WEP Key 1 :	

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.

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.

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 Enter the group key update interval. 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.

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

EAP (802.1X)

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

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

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

WPA Mode :	WPA2 Only 🔻	

۳

(seconds)

WPA-Personal WPA-Enterprise

SS SECURITY MODE

WPA

PRE-SHARED KEY

Security Mode ·

Cipher Type : AES

Group Key Undate Interval : 3600

Pre-Shared Key :

EAP (802.1X)	
RADIUS server IP Address :	
RADIUS server Port:	
RADIUS server 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 Enter the subnet mask of the router. The default subnet mask is Mask: 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 Enter the domain name (optional). Name:

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 Enable or disable the DHCP server. Server:

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

NETWORK SETTINGS NETWORK SETTINGS NETWORK SETTINGS Network settings Use this section to configure the internal network settings of your router and also to configure the built-in DHCP server to assign addresss to to our work. The IP address that is configured here is the IP address that you use to access the Web hased management interface. If you change the IP address in this section, you may need to adjust your PC's network settings Don't Save Settings Don't Save Settings ROUTER SETTINOS Ite address the is configured there is the IP address that you use to access the Web hased management interface. If you change the IP address that is configured here is the IP address the settings to a scenss the reduce the address is the network again. ROUTER SETTINOS Ite address is IP 2.168.0.1 Use this section to configure the internal network settings of your router. The IP address that is configured here is the IP address the settings to a scenss the reduce the address is the network again. Router IP Address: 192.168.0.1 Default Subnet Mask : 255.255.25.0 Host Name : (optional) Enable DNS Relay : Ø Other Server again. DHCP Server SETINGS Ites to access the network. Use this section to configure the built-in DHCP server to assign IP address to the computers on your network. Enable DHCP Server I 0 DHCP IP Address Range : 100	DIR-819		S	ETUP	
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Router IP Address: 192.168.0.1 Default Subnet Mask : 255.255.255.0 Host Name : dlinkrouter Local Domain Name : (optional) Enable DNS Relay : Ø DHCP SERVER SETTINCS Image: Server Setting Server S	Use this section to configure the you use to access the Web-based settings to access the network ag	internal network settings of management interface.If y ain.	your router.The IP address tha ou change the IP address here	t is configured here is the IP addre you may need to adjust your PC's	ss th net
Default Submet Mask : 255.255.255.0 Host Name : dlinkrouter Local Domain Name : (optional) Enable DNS Relay : Ø DHCP SERVER SETTINCS DHCP Server to assign IP address to the computers on your network. Enable DHCP Server : Ø DHCP IP Address Range : 100 to 200 (addresses within the LAN subnet) DHCP Lease Time : 100800 (minutes) Always broadcast : (compatibility for some DHCP Clients) ADD DHCP RESERVATION Enable : Computer Name :		Router IP Address:	192.168.0.1		
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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 Enable : Computer Name : Computer Name IP Address : Clone Your PC'S MAC Address Add / Update Clear DHCP RESERVATIONS LIST Enable Host Name IP Address NUMBER OF DYNAMIC DHCP CLIENTS		Enable DNS Relay : 🛛	1		
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DHCP Lease Time : 10080 (minutes) Always broadcast : (compatibility for some DHCP Clients) ADD DHCP RESERVATION Enable : □ Computer Name : ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	DHC	P IP Address Range :	100 to 200 (address	es within the LAN subnet)	
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ADD DHCP RESERVATION Enable : Computer Name : Computer Name IP Address : Clone Your PC's MAC Address Add / Update Clear DHCP RESERVATIONS LIST Enable Host Name IP Address NUMBER OF DYNAMIC DHCP CLIENTS		Always broadcast :] (compatibility for some DH	CP Clients)	
Enable : Computer Name : IP Address : MAC Address : Clone Your PC's MAC Address Add / Update Clear DHCP RESERVATIONS LIST Enable Host Name IP Address NUMBER OF DYNAMIC DHCP CLIENTS	ADD DHCP RESERVATION				
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IP Address : MAC Address : Clone Your PC's MAC Address Add / Update Clear DHCP RESERVATIONS LIST Enable Host Name IP Address NUMBER OF DYNAMIC DHCP CLIENTS		Computer Name :	<<	Computer Name 🔻	
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DHCP RESERVATIONS LIST Enable Host Name IP Address NUMBER OF DYNAMIC DHCP CLIENTS			Add / Update Cle	ar	
Enable Host Name IP Address	DHCP RESERVATIONS LIST				
NUMBER OF DYNAMIC DHCP CLIENTS	Enable	Host Name	IP Address		
NUMBER OF DINAMIC DRCP CLIENIS					

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.

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.

DHCP RESERVATIONS LIST

The currently defined DHCP Reservations are listed here.

Enable: Enable or disable this DHCP Reservation rule.

Host Name: The host name for this rule.

IP Address: The DHCP IP address reservation.

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	
Enable :	
Computer Name :	Computer Name V
IP Address :	
MAC Address :	
	Clone Your PC's MAC Address
	Add / Update Clear

DHCP RESERVATIONS LI	ST		
Enable	Host Name	IP Address	

Section 3 - Configuration

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.

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.

	DRCF CELENTS		
Host Name	IP Address	MAC Address	Expired Time
iost name	IP Address	MAC Address	Expired 11m

DHCP RESERVATIONS LIST
Enable Host Name IP Address

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**.

DIR-819		SETUP			
IPV6		IPV6 INTERNET CONNECTION			
IPV6 INTERNET CONNECTION There are two ways to set up your IPv6 Internet connection. You can use the Web-based IPv6 Internet Connection Setup Wizard, or you can manually configure the connection. IPV6 INTERNET CONNECTION SETUP WIZARD					
There are two ways t you can manually con IPV6 INTERNET CO	to set up your IPv6 Internet connection. Y nfigure the connection.	ou can use the Web-based IPv6 Internet Connection Setup Wizarc			
There are two ways t you can manually cor IPV6 INTERNET CC If you would like to ul Internet, click on the Note:Before launchin	to set up your IPv6 Internet connection. Y nfigure the connection. DNNECTION SETUP WIZARD Millice our easy to use Web-based Wizard the button below. IPv6 Internet ug the wizards, please make sure you haw	ou can use the Web-based IPv6 Internet Connection Setup Wizard o assist you in connecting your new D-Link Systems Router to the Connection Setup Wizard e followed all steps outlined in the Quick Installation Guide include			
There are two ways to you can manually con IPV6 INTERNET CO If you would like to ut Internet, click on the Note:Before launchin the package. MANUAL IPV6 LOC If you would like to co	to set up your IPv6 Internet connection. Y nfigure the connection. DNNECTION SETUP WIZARD DIVIDED VIEW DATE button below. IPv6 Internet Ig the wizards, please make sure you haw AL CONNECTIVITY SETUP onfigure the IPv6 local connectivity setting	ou can use the Web-based IPv6 Internet Connection Setup Wizard o assist you in connecting your new D-Link Systems Router to the Connection Setup Wizard e followed all steps outlined in the Quick Installation Guide include as of your D-Link Router, then click on the button below.			

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**.

Step 1: Configure your Step 2: Save Settings a	IPv6 Internet Connection
 Step 2: Save Setungs a 	ia connectnect
	Prev Next Cancel Connect

۲	IPv6 over PPPoE
	Choose this option if your IPv6 Internet connection requires a username and password to get online. Most DSL moderns use this type of connection.
0	Static IPv6 address and Route
	Choose this option if your Internet Setup Provider (ISP) provided you with IPv6 Address information that has to be manually configured.

• Tunneling Connection (6rd)

Choose this option it	f your Internet Setup I	Provider (ISP) provide	d you a IPv6 Internet	Connection by using 6	rd automatic tunneling
mechanism.					

Prev	Next	Cancel	Connec
------	------	--------	--------

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 whethe 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.

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 IPv6 Internet Service Provider. If you do not have this information, please contact your ISP.				
PPPoE Session :	\circledast Share with IPv4 O 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.			
Prev	lext Cancel Connect			

SETUP COMPLETE!					
The IPv6 Internet Connection Setup Wizard has completed. Click the Connect button to save your settings and reboot the router.					our settings and reboot
	Prev	Next	Cancel	Connect	

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	
o set up this connection you will need to have a complete li Service Provider. If you have a Static IPv6 connection and d	st of IPv6 information provided by your IPv6 Internet o not have this information, please contact your ISP.
Use Link-Local Address :	\square
IPv6 Address :	
Subnet Prefix Length :	
Default Gateway :	
Primary IPv6 DNS Address :	
Secondary IPv6 DNS Address :	
LAN IPv6 Address :	
Prev Next	Cancel

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

SETUP COMPLETE!		
The IPv6 Internet Connect the router.	on Setup Wizard has completed. Click the C	Connect button to save your settings and reboot
	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 Enable or disable the use of the default ULA prefix. prefix:

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

ULA Prefix: Enter your ULA prefix.

IPV6 ULA SETTINGS

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

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

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

D-Link					
DIR-819		SETUP			
IPV6		IPV6 LOCAL CONNEG	CTIVITY	SETI	
IPV6 LOCAL CONNECTIVITY SETTINGS Use this section to configure Unique Local IPv6 Unicast Address (ULA) settings for your router.ULA is intended for local communications and not expected to be routable on the global Internet. Save Settings Don't Save Settings Don't Save Settings					
IPV6 ULA SETTINGS Enable ULA Use default ULA prefix	.: Z				
Use default ULA prefix			/64		
CURRENT IPV6 ULA SETTINGS					
Current ULA Prefix LAN IPv6 ULA	:: /64	ł ł			
Save Settings Don't Save Settings					

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 Choose your IPv6 connection type from the drop-down menu. You will **Connection is:** 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.

SETUP IPV6 are unsure of your connection method, please contact your II	
IPV6	
are unsure of your connection method, please contact your Ir	
the IPv6 Internet.	
atic IPv6 v toconfiguration(SLAAC/DHCPv6) PoE v6 in IPv4 Tunnel J4 d	
a It FF	the IPv6 Internet. tic IPv6 tic IPv6 tic IPv6 tic IPv4 Tunnel d

Static IPv6

IPV6 CONNECTION TYPE

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

WAN IPV6 ADDRESS SETTINGS

- Use Link-LocalEnable 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 Enter the subnet prefix length supplied by your ISP. Length:
- **Default Gateway:** Enter the default gateway for your IPv6 connection.
 - Primary DNS Enter the primary DNS server address. Address:
- Secondary DNS Enter the secondary DNS server address. Address:

LAN IPv6 Address Settings

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

D-Link	
DIR-819	SETUP
IPV6	IPV6
IPV6 Use this section to configure your IPv6 Connection Type.If yo Service Provider: Save Settings Don't Save Settings	ou are unsure of your connection method, please contact your Internet
IPV6 CONNECTION TYPE Choose the mode to be used by the router to connect	to the IPv6 Internet.
My IPv6 Connection is:	Static IPv6 🔻
WAN IPV6 ADDRESS SETTINGS	
Enter the IPv6 address information provided by your	Internet Service Provider (ISP).
Use Link-Local Address : 🛛	1
IPv6 Address :	
Subnet Prefix Length :	
Default Gateway :	
Primary DNS Address :	
Secondary DNS Address :	
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.	164
LAN IPV6 Address :	/64
LAN IPV6 LINK-LOCAl Address : #	
ADDRESS AUTOCONFIGURATION SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign IP	addresses to the computers on your network.
Autoconfiguration Type :	J SLAAC+RDNSS ▼
5	SLAAC+Stateless DHCP
5	Stateful DHCPv6
Router Advertisement Lifetime :	(minutes)

Static IPv6 (continued)

Address Autoconfiguration Settings

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

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

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

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

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

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

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

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

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

Use this section to setup IPv6 Autoconfiguration to assign I	P 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 netwo	ork.		
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 IPv6Select Autoconfiguration(SLAAC/DHCPv6) if your ISP assigns yourConnection is: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 Enter the primary DNS server address. Address:
- Secondary DNS Enter the secondary DNS server address. 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- Displays the router's LAN link-local address. Local Address:

D-Link	
DIR-819	SETUP
IPV6	IPV6
IPV6 Use this section to configure your IPv6 Connection Type.If yos Service Provider. Save Settings Don't Save Settings	u are unsure of your connection method, please contact your Internet
IPV6 CONNECTION TYPE Choose the mode to be used by the router to connect t	to the IPv6 Internet.
My IPv6 Connection is:	uutoconfiguration(SLAAC/DHCPv6)
IPV6 DNS SETTINGS	erific DNS conver address
• 01	btain IPv6 DNS Servers automatically
0 Us	se 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 y adjust your PC network settings to access the network again.	your router. If you change the LAN IPv6 Address here, you may need to
Enable DHCP-PD : 📿	1
LAN IPv6 Address :	/64
LAN IPv6 Link-Local Address : fff	f::fff:ffff:ffff:1234 /64
ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign IP a to delegate prefixes for routers in your LAN.	addresses to the computers on your network. You can also enable DHCP
Enable Automatic IPv6 address assignment : 📝	1
Enable Automatic DHCP-PD in LAN : 🛛	1
Autoconfiguration Type : S	LAAC+RDNSS V
S	ILAAC+Stateless DHCP itateful DHCPv6
Router Advertisement Lifetime :	(minutes)
Save Settings Don't Save Settings	

Autoconfiguration(SLAAC/DHCPv6) (continued)

Address Autoconfiguration Settings

- **Enable Automatic** Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available. assignment:
- **Enable Automatic** Enable or disable the Automatic IPv6 Address Assignment feature **DHCP-PD in LAN:** for the LAN.
- Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6. Type:

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

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

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

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

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

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

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

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	

Use this section to setup IPv6 Autoconfiguration to assign to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PD
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 Select **PPPoE** if your ISP provides and requires you to enter a PPPoE **Connection is:** username and password in order to connect to the Internet.

PPPOE INTERNET CONNECTION TYPE :

PPPoE Session : Select whethe 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 IdleSet the length of time to wait before disconnecting if there is noTime:Internet activity. (Manual Only)
 - MTU Size: Enter the MTU size.

D-Link	Č	
DIR-819	SETUP	
IPV6	IPV6	
IPV6		
Use this section to configure your IPv6 Connection Type Service Provider.	e.If you are unsure of your connection method, please contact your Inter	net
Save Settings Don't Save Settings		
IPV6 CONNECTION TYPE		
Choose the mode to be used by the router to con	nect to the IPv6 Internet.	
My IPv6 Connection i	s: PPPoE 🔻	
PPPOE INTERNET CONNECTION TYPE :		
Enter the information provided by your Internet	Service Provider (ISP).	
PPPoE Sessio	on : Share with IPv4 O Create a new session	
Address Mo	de:	
IP Addre	SS :	
User Nan	ne :	
Passwo		
Verify Passwo	rd :	
Service Nan	(optional)	
Reconnect Mo	de: • Always on O On Demand O Manual	
Maximum Idle Tin	(minutes, U=innnite)	
M	(byes) MIU default=1492	
IPV6 DNS SETTINGS		
Obtain DNS server address automatically or ente	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 settin adjust your PC network settings to access the network a	gs of your router. If you change the LAN IPv6 Address here, you may nee again.	d to
Enable DHCP-PD		
LAN IPv6 Address	/64	
LAN IPv6 Link-Local Address	: ffff::fff:ffff:1234 /64	
ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assi	an IP addresses to the computers on your network. You can also enable [DHCI
to delegate prefixes for routers in your LAN.	. ,	
Enable Automatic IPv6 address assignment	t: Z	
Enable Automatic DHCP-PD in LAN		
Autoconfiguration Type	SLAAC+KDINSS V SLAAC+Stateless DHCP	
	Stateful DHCPv6	
Pouter Advertisement Lifetime	(minutes)	
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 Enter the primary DNS server address. Address:

Secondary DNS Enter the secondary DNS server address. 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- Displays the router's LAN link-local address. Local Address:

IPV6 DNS SETTINGS	
Obtain DNS server address automatically or enter a	specific DNS server address.
۲	Obtain IPv6 DNS Servers automatically
0	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 adjust your PC network settings to access the network aga	of your router. If you change the LAN IPv6 Address here, you may need to in.
Enable DHCP-PD :	
LAN IPv6 Address :	/64
LAN IPv6 Link-Local Address :	ffff::fff:ffff:ffff:1234 /64
ADDRESS AUTOCONFIGURATION SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PD
Enable Automatic IPv6 address assignment :	Z
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 Enable or disable the Automatic IPv6 Address Assignment feature. If you disable this option, no further configuration is available. assignment:

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

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

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

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

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

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

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

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

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 1 to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PD
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 1	P addresses to the computers on your network. You can also enable DHCP-PD
to delegate prefixes for routers in your LAN.	

ADDRESS AUTOCONFIGURATION SETTINGS			
Use this section to setup IPv6 Autoconfiguration to assign to delegate prefixes for routers in your LAN.	IP addresses to the computers on your netwo	rk. You can also enable	DHCP-PD
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			i i i i i i i i i i i i i i i i i i i
Use this section to setup IPv6 Autoconfiguration to assign	IP addresses to the computers on your networ	rk.	
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 IPv6Select IPv6 In IPv4 Tunnel if you wish to configure the IPv6 connectionConnection is:to run in IPv4 Tunnel mode. IPv6 over IPv4 tunnelling encapsulatesIPv6 packets in IPv4 packets so that IPv6 packets can be sent over anIPv4 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.

D-Link	¢
DIR-819	SETUP
IPV6	IPV6
IPV6	
Use this section to configure your IPv6 Connection Type. Service Provider.	If you are unsure of your connection method, please contact your Internet
Save Settings Don't Save Settings	
IPV6 CONNECTION TYPE	
Choose the mode to be used by the router to conne	ect to the IPv6 Internet.
My IPv6 Connection is:	IPv6 in IPv4 Tunnel
IPV6 IN IPV4 TUNNEL SETTINGS	
Enter the information provided by your Internet Se	ervice Provider (ISP).
Remote IPv4 Address	
Remote IPv6 Address	:
Local IPv4 Address	:
Local IPv6 Address	:
Subnet Prefix Length	
IPV6 DNS SETTINGS	
Obtain DNS server address automatically or enter a	a specific DNS server address.
۲	Obtain IPv6 DNS Servers automatically
0	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 adjust your PC network settings to access the network ag	of your router. If you change the LAN IPv6 Address here, you may need to ain.
Enable DHCP-PD :	
LAN IPv6 Address :	/64
LAN IPv6 Link-Local Address :	ffff::fff:ffff:ffff:1234 /64
ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PD
Enable Automatic IPv6 address assignment :	
Enable Automatic DHCP-PD in LAN :	
Autoconfiguration Type :	SLAAC+RDNSS V
	SLAAC+Stateless DHCP Stateful DHCPu6
Router Advertisement Lifetime :	(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 Enter the primary DNS server address. Address:

Secondary DNS Enter the secondary DNS server address. 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- Displays the router's LAN link-local address. Local Address:

IPV6 DNS SETTINGS	
Obtain DNS server address automatically or enter a	specific DNS server address.
۲	Obtain IPv6 DNS Servers automatically
0	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 adjust your PC network settings to access the network aga	of your router. If you change the LAN IPv6 Address here, you may need to in.
Enable DHCP-PD :	Z
LAN IPv6 Address :	/64
LAN IPv6 Link-Local Address :	ffff::fff:ffff:1234 /64
ADDRESS AUTOCONFIGURATION SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PI
Enable Automatic IPv6 address assignment :	Z
Enable Automatic DHCP-PD in LAN :	Z
Autoconfiguration Type :	SLAAC+RDNSS
	SLAAC+Stateless DHCP
	Stateful DHCPv6
Router Advertisement Lifetime :	(minutes)
Save Settings Don't Save Settings	

IPv6 in an IPv4 Tunnel (continued)

Address Autoconfiguration Settings

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

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

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

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

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

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

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

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

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

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

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 I	iP addresses to the computers on your network.
Enable Automatic IPv6 address assignment :	\square
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 to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PD
Enable Automatic IPv6 address assignment :	
Enable Automatic DHCP-PD in LAN :	\square
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 to delegate prefixes for routers in your LAN.	$\ensuremath{IP}\xspace$ addresses to the computers on your network. You can also enable DHCP-PD

ADDRESS AUTOCONFIGURATION SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign I to delegate prefixes for routers in your LAN.	IP addresses to the computers on your network. You can also enable DHCP-PD
Enable Automatic IPv6 address assignment :	\square
Enable Automatic DHCP-PD in LAN :	\square
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	

Iso this costion to setu	n IBv6 Autoconfiguration to accign 1	ID addresses to the computers of	wour potwork	
unis section to setu	p 1PV0 Autoconniguration to assign i	r addresses to the computers of	i your network.	
Enable Automa	tic IPv6 address assignment :	\checkmark		
	Autoconfiguration Type :	Stateful DHCPv6	¥	
	IPv6 Address Range (Start) :		:00	1
	IPv6 Address Range (End) :		:00	ff
Ro	uter Advertisement LIfetime :	(minutes)		

6to4

IPV6 CONNECTION TYPE

My IPv6 Select IPv6 In IPv4 Tunnel if you wish to configure your router to connection is: 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** Enter the primary DNS server address. Address:
- Secondary DNS Enter the secondary DNS server address. Address:

LAN IPv6 Address Settings

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

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

DIR-819		SETUP	
IPV6		IPV6	
IPV6		·	
Use this section to co Service Provider. Save Settings	nfigure your IPv6 Connection Type.If yo	w are unsure of your connection method, please contact your In	terne
IPV6 CONNECTION	I TYPE		
Choose the mode t	be used by the router to connect	to the IPv6 Internet.	
	My IPv6 Connection is:	ito4 🔻	
Enter the IPv6 add	ress information provided by your 1	internet Service Provider (ISP).	
Enter the IPv6 add	ress information provided by your J Gto4 Address : Gto4 relay : Primary DNS Address : Secondary DNS Address :	Internet Service Provider (ISP).	
Enter the IPv6 add	ress information provided by your J Gto4 Address : Gto4 relay : Primary DNS Address : Secondary DNS Address : SECTIINGS	Internet Service Provider (ISP).	
Enter the IPv6 add	ress information provided by your J Gto4 Address : Gto4 relay : Primary DNS Address : Secondary DNS Address : SSETTINGS figure the internal network settings of it settings to access the network settings of	Internet Service Provider (ISP).	need
Enter the IPv6 add	ress information provided by your Gto4 Address : Gto4 relay : Primary DNS Address : Secondary DNS Address : SETTINGS nfgure the internal network settings of k settings to access the network seguin. LAN IPv6 Address : X	your router. If you change the LAN IPv6 Address here, you may r	need
Enter the IPv6 add	ress information provided by your 3 6to4 Address : 6to4 relay : Primary DNS Address : Secondary DNS Address : SETTINGS Infoure the internal network settings of k settings to access the network again. LAN IPv6 Address : X0 LAN IPv6 Link-Local Address : fit	vour router. If you change the LAN IPv6 Address here, you may r 000:0000: ::1/64 fr:fff:ffff:1234 /64	need
Enter the IPv6 add LAN IPV6 ADDRESS Use this section to co adjust your PC netwo	ress information provided by your 6to4 Address : 6to4 relay : Primary DNS Address : Secondary DNS Address : Secondary DNS Address : figure the internal network settings of k settings to access the network again. LAN IPv6 Address : XI LAN IPv6 Link-Local Address : fif NEIGURATION SETTINGS	Internet Service Provider (ISP).	need
Enter the IPv6 add LAN IPV6 ADDRESS Use this section to co adjust your PC netwo ADDRESS AUTOCO Use this section to set	ress information provided by your 6to4 Address : 6to4 relay : Primary DNS Address : Secondary DNS Address : Secondary DNS Address : SECTITIOS Infigure the internal network settings of k settings to access the network again. LAN IPv6 Address : XI LAN IPv6 Link-Local Address : ffi NEIGURATION SETTINGS up IPv6 Autoconfiguration to assign IP	Internet Service Provider (ISP).	need
Enter the IPv6 add LAN IPV6 ADDRES Use this section to co adjust your PC netwo ADDRESS AUTOCO Use this section to set Enable Auton	ress information provided by your 6to4 Address : 6to4 relay : Primary DNS Address : Secondary DNS Address : Secondary DNS Address : Secondary DNS Address : Secondary DNS Address : SETTINGS Infigure the internal network settings of k settings to access the network again. LAN IPv6 Address : XI LAN IPv6 Link-Local Address : ffi NEIGURATION SETTINGS up IPv6 Autoconfiguration to assign IP natic IPv6 address assignment : Autoconfiguration Type : Secondary Secondary Seco	Internet Service Provider (ISP).	need

6to4 (continued)

Address Autoconfiguration Settings

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

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

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

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

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

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

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

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

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

Use this section to setup IPv6 Autoconfiguration to assign I	P 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 netwo	ork.	
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 Select **6rd** if your ISP uses the 6rd IPv6 connection protocol. **Connection is:**

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 Displays the router's assigned IPv6 prefix. Prefix:
- Tunnel Link-Local Displays the tunnel link-local address. Address:
- 6rd Border Relay Enter the 6rd border relay IPv4 address settings supplied by your ISP. IPv4 Address:

Primary DNS Enter the primary DNS server address. Address:

Secondary DNS Enter the secondary DNS server address. Address:

LAN IPV6 ADDRESS SETTINGS

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

D-Link	<u>م</u>
DIR-819	SETUP
IPV6	IPV6
IPV6 Use this section to configure your IPv6 Connection Type.II Service Provider.	f you are unsure of your connection method, please contact your Internet
Save Settings Don't Save Settings	
IPV6 CONNECTION TYPE Choose the mode to be used by the router to come	ect to the IPv6 Internet.
My IPv6 Connection is:	6rd T
WAN IPV6 ADDRESS SETTINGS	
Enter the IPv6 address information provided by you	ur Internet Service Provider (ISP).
6rd Configuration :	In Grd DHCPv4 option O 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	
Secondary 210 Address .	
LAN IPV6 ADDRESS 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 aga	ain.
LAN IPv6 Address :	XXXX:XXXX: :::1/64
LAN IPv6 Link-Local Address :	ffff::fff: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
	Stateful DHCPv6
Router Advertisement Lifetime :	(minutes)

6rd (continued)

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

LAN IPV6 AD	DRESS SETTINGS
Use this section adjust your PC	to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to network settings to access the network again.
	LAN IPv6 Address : XXXXX:XXXXX: ::1/64
	LAN IPv6 Link-Local Address : ffff::ffff:ffff:1234 /64

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

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

Router Enter the IPv6 address lifetime (in minutes).

Advertisement

Lifetime:

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

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

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

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

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 I	P addresses to the computers on your network.
Enable Automatic IPv6 address assignment :	\square
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 Select Local Connectivity Only allows you to set up a local IPv6 Connection is: connection that does not connect to the Internet.

IPV6 CONNECTION TYPE

LAN IPv6 Link- Displays the router's LAN IPv6 Link-Local address and mask length. Local Address :

LAN IPv6 Unique Displays the router's LAN IPv6 unique local address and mask length. Local Address :

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

D-Link		
DIR-819	SETUP	
IPV6	IPV6	
IPV6		
Use this section to configure your IPv6 Connection Type.If yo Service Provider.	u are unsure of your connection method, please contact your Inte	ernet
Dure Settings		
IPV6 CONNECTION TYPE		
Choose the mode to be used by the router to connect t	to the IPv6 Internet.	
My IPv6 Connection is:	ocal Connectivity Only	
LAN IPV6 ADDRESS SETTINGS		
Use this section to configure the internal network settings of y	/our router.	
LAN IPv6 Link-Local Address : XX	XX:XXXX:XXXX:XXXX / 64	
LAN IPv6 Unique Local Address : ffff	f::fff:ffff:ffff:1234 /64	
Save Settings Don't Save Settings		

Advanced

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

D-Link

DIR-819	SETUP	ADVANCED	TOOLS		STATUS	SUPPORT
VIRTUAL SERVER	VIRTUAL SERVER					
PORT FORWARDING	The Virtual Server option allows Private LAN port if required.This	you to define a single public port on y feature is useful for hosting online se	our router for redire rvices such as FTP o	ection to an internal LA or Web Servers.	AN IP Address and	
APPLICATION RULES	Save Settings Don't	Save Settings				
QOS ENGINE						
NETWORK FILTER	24 - VIRTUAL SERVERS LIST	can be created: 24				
INBOUND FILTER	Including humber of fales that		Port	Traffic Type		
ACCESS CONTROL	Name		Public Port	Protocol	Schedule	
WEBSITE FILTER		Application Name	Private Port	ICP V	Always	
FIREWALL SETTINGS		<< Computer Name		6	Allow All	
ROUTING						
ADVANCED WIRELESS	Save Settings	Save Settings				
WI-FI PROTECTED SETUP						
ADVANCED NETWORK						
GUEST ZONE						
IPV6 FIREWALL					fink	
IPV6 ROUTING						

To return to the 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	

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, public 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.



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.

DI	IR-819	//	AD	VANCED	1
PC	ORT FORWAR	RDING	PORT FOR	WARDING	
This o your r (1020	option is used to open m network. This feature al I-5000, 689). This option	nultiple ports or a range of ports i lows you to enter ports in the for n is only applicable to the INTERN	n your router and redirect mat, Port Ranges (100-15 IET session.	: data through those ports to a si 0), Individual Ports (80, 68, 888)	ngle PC o , or Mixed
This o your r (1020 Sa 24	option is used to open metwork. This feature all -5000, 689). This option ave Settings Do PORT FORWARDING	nultiple ports or a range of ports i lows you to enter ports in the for, n is only applicable to the INTERN n't Save Settings	n your router and redirect mat, Port Ranges (100-15 VET session.	: data through those ports to a si 0), Individual Ports (80, 68, 888)	ngle PC o , or Mixeo
This o your r (1020 Sa 24	option is used to open m network. This feature all 1-5000, 689). This option ave Settings Do PORT FORWARDING ning number of rules th	nultiple ports or a range of ports i lows you to enter ports in the for is only applicable to the INTERN in't Save Settings I RULES at can be created: 24	n your router and redirect mat, Port Ranges (100-15 VET session.	: data through those ports to a si 0), Individual Ports (80, 68, 888)	ngle PC o , or Mixed
This o your r (1020 Sa 24	option is used to open m network. This feature al -5000, 689). This option ave Settings Do PORT FORWARDING ning number of rules th Name	nultiple ports or a range of ports i lows you to enter ports in the for is only applicable to the INTER! in't Save Settings RULES at can be created: 24	n your router and redirect mat, Port Ranges (100-15 VET session. Ports to Open TCP	data through those ports to a si 0), Individual Ports (80, 68, 888) Schedule	ngle PC o , or Mixed
This o your r (1020 Sa 24 Remain	option is used to open m network. This feature al >5000, 689). This option we Settings Do PORT FORWARDING ning number of rules th Name	Nultiple ports or a range of ports i lows you to enter ports in the for is only applicable to the INTER! Int Save Settings RULES at can be created: 24	n your router and redirect mat, Port Ranges (100-15 KET session. Ports to Open TCP	data through those ports to a si 0), Individual Ports (80, 68, 888) Schedule Always ▼	ngle PC o
This o your r (1020 Sa 24 Remain	option is used to open m network. This feature al -5000, 689). This option ave Settings Do PORT FORWARDING ning number of rules th Name	nultiple ports or a range of ports i lows you to enter ports in the for is only applicable to the INTERN an't Save Settings RULES at can be created: 24 C < Application Name	n your router and redirect mat, Port Ranges (100-15 EET session. Ports to Open TCP	data through those ports to a si 0), Individual Ports (80, 65, 888) Schedule	ngle F , or M

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.

DIR-819		AD	ANCED	
APPLICATION RULE	S	APPLICATI	ON RULES	
APPLICATION RULES The Application Rules option is used to on an outgoing "Trigger" port or port r	o open single or multiple range. Special Application	ports in your firewall when n rules apply to all compute	the router senses data rs on your internal net	sent to the Interv work.
APPLICATION RULES The Application Rules option is used to on an outgoing "Trigger" port or port r Save Settings Don't Save S 24 APPLICATION RULES	o open single or multiple ange. Special Application Settings	ports in your firewall when n rules apply to all compute	the router senses data rs on your internal net	i sent to the Intern work.
APPLICATION RULES The Application Rules option is used to an outgoing "Trigger" port or port r Save Settings Don't Save S 24 APPLICATION RULES Remaining number of rules that can be	o open single or multiple ange. Special Application Settings	ports in your firewall when n rules apply to all compute Port	the router senses data rs on your internal net Traffic Type	sent to the Intern work.

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
OS SETTINGS Ise this section to configure D-Link's QoS Engine powered xperience by ensuring that your game traffic is prioritized ne Automatic Classification option to automatically set the Save Settings Don't Save Settings	by QoS Engine Technology. This QoS Engine improves your online gaming over other network traffic, such as FTP or Web.For best performance, use priority for your applications.
OS SETUP	
Enable Qos :	
Uplink Speed :	U kbps << Select Transmission Rate V
Downlink Speed :	kbps << Select Transmission Rate
Queue Type :	Suict Phoney Queue O weighted Pair Queue
1	Highest
2	Higher
3	Normal
4	Best Effort(default)
2 ADD CLASSIFICATION RULE	
Enable :	
Name :	
Queue ID :	1 - Highest 🔻
Protocol :	ALL 🔻
Classify :	Upstream V
Local IP Pance -	local IP Start Local IP End
cooli il henge.	to
Application Dest -	Application Name
Application Port :	Application Name 7 22 10
Remote IP Kange :	Remote in start Remote in Enu
	w
	Add Cancel
LASSIFICATION RULES	
Enable Name Queue ID Pr	otocol Classify Application Remote Local IP

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.

DIR-819	'//	ADVANCED
QOS ENGINE		QOS SETTINGS
QOS SETTINGS		
Jse this section to configure experience by ensuring that	D-Link's QoS Engine powered b your game traffic is prioritized o	/ QoS Engine Technology. This QoS Engine improves your online ver other network traffic, such as FTP or Web.For best performant rights for your applications.
Save Settings	on't Save Settings	ionty for your applications.
Save Settings	Sint Save Settings	
QOS SETUP	Enable Oos -	1
	Uplink Speed :	kbps << Select Transmission Rate
	Downlink Speed :	kbps << Select Transmission Rate V
	Queue Type :	Strict Priority Queue O Weighted Fair Queue
Queue ID		Queue Priority
	1	Highest
	2	Higher
	3	Normal Best Effort/default)
S2 ADD CLASSIFICATI	Enable :	1
	Name :	•
	Queue ID :	- Highest 🔻
	Protocol :	LLL V
	Classify :	Jpstream V
	Local IP Range : Lo	ucal IP Start Local IP End
		to
	Application Port :	Application Name V >> to
	Remote IP Range : Re	emote IP Start Remote IP End
		to
		Add
		Add

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 Select the function of the MAC Filter, the options are Turn MAC Filtering below: 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.

D-Link	
DIR-819	ADVANCED
NETWORK FILTER	MAC ADDRESS FILTER
The MAC (Media Access Controller) Address filter option is use adapter.A MAC address is a unique ID assigned by the manufa or DENY network/Internet access. Save Settings Don't Save Settings	d to control network access based on the MAC Address of the network cturer of the network adapter. This feature can be configured to ALLOW
24 MAC FILTERING RULES Configure MAC Filtering below: Turn MAC Filtering OFF Turn MAC Filtering ON and ALLOW rules listed Turn MAC Filtering ON and DENY rules listed Remaining number of rules that can be created: 24	
MAC Address DHCP Client I	ist Schedule Always New Schedule

Inbound Filter

Click **Inbound Filter** on the navigation menu to configure the Inbound Filter. The Inbound Filter allows you to place filtering rules on a per IP basis. Using this tool you may restrict access to or block traffic to a specific remote IP address or range. When you are satisfied with your configuration, click **Save Settings**.

ADD INBOUND FILTER RULE

Name: Enter a name for this Inbound Filter.

Action: Allow or Deny traffic.

Remote IP Range

Enable: Check the box to enable this rule.

Remote IP Start: Enter the starting IP address to apply the rule to.

Remote IP End: Enter the ending IP address to apply the rule to.

INBOUND FILTER RULES LIST

The currently defined Inbound Filter rules are listed here.

DIR-819		ADV	ANCED
INBOUND FILTER		INBOUND FI	LTER
DRANGE			
DrangeText			
Save Settings Don't Save S	ettings		
R	Name : Action : Allow Action : Allow demote IP Range : Enable	▼ Remote IP Start 0.0.0.0	Remote IP End
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0101010	255125512551255

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 Enable or disable Access Control. You must click **Save Settings** after Control: 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.

D -	Link			
DIR-819		ADV/	ANCED	
ACCESS CC	NTROL	ACCESS CON	TROL	
ACCESS CONTROL	tion allows you to control access in and	out of your network. Use this f	eature as Access Controls to only	arant
ACCESS CONTROL The Access Control op access to approved sit games. Save Settings	tion allows you to control access in and es, limit web access based on time or da Don't Save Settings	out of your network. Use this f ates, and/or block Internet acc	eature as Access Controls to only ess for applications like P2P utiliti	grant es or
ACCESS CONTROL The Access Control op access to approved sit games. Save Settings ACCESS CONTROL	tion allows you to control access in and es, limit web access based on time or da Don't Save Settings Enable Access Control :	out of your network. Use this f ates, and/or block Internet acco	eature as Access Controls to only ess for applications like P2P utiliti	grant es or
ACCESS CONTROL The Access Control op access to approved sit games. Save Settings ACCESS CONTROL POLICY TABLE	tion allows you to control access in and es, limit web access based on time or da Don't Save Settings Enable Access Control :	out of your network. Use this f ates, and/or block Internet acc Add Policy	eature as Access Controls to only ess for applications like P2P utiliti	grant es or

Add Policy

ADD NEW POLIC

STEP 1: CHOOSE POLICY NAME

Choose a unique name for your policy

ADD NEW POLICI				
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				

Policy Name

Next

STEP 1: CHOOSE POLICY NAME

ADD NEW POLICY

Policy Name : Enter a name for your policy.

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

Click **Next** to continue.

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 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 2: SELECT SCHEDULE			
Choose a schedule to apply to this policy.			
	Always 🔻		
Details	: Always		
Prev	ext Save	Cancel	

Cancel

STEP 3: SELECT MACHINE			
Select the machine to which this policy	applies.		
Specify a machine with its IP or MAC address			
Address Type :	● IP O MAC		
IP Address :		<< Compute	r Name 🔻
Machine Addres :		<< Compute	r 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 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 Check this box to enable port filtering. Port Filters:

Click Next to continue.

SIEP S: SELECT MACHINE Select the machine to which this policy a	unnlies			
Specify a machine with its IP or MAC address.				
Address Type :	● IP O MAC			
IP Address :		<<	Computer Name	
Machine Addres :		<<	Computer Name	
	Clone Your PC's MAC Address			
	Add Cancel			
Machine				
	Prev Next Save	Cancel		

STEP 4: SELECT FILTERING MET	гнор
Select the method for filtering.	
	Method:
	Prev Next Save Cancel

STEP 4: SELECT FILTERING METHOD	
Select the method for filtering.	
Method :	O Log Web Access Only O Block All Access Block Some Access
Apply Web Filter :	
Apply Advanced Port Filters :	\square
Prev	Next Save Cancel

Add Policy (continued)

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

STEP 5: PORT FILTER	STEP S Add Po
Enable: Check the box to enable this rule.	Specify
	Ena
Name: Enter a name for port filtering rule.	E
	E
Dest IP Start: Enter the start of the IP address range to filter.	6
	E r
Dest IP End: Enter the end of the IP address range to filter.	6
	E
Protocol: Select the protocol to apply the port filter to. The options are Any,	
ICMP, TCP, and UDP.	

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.

Enable	Name	Dest IP Start	Dest IP End	Protocol	Dest Port Start	Dest Port End
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535
\checkmark		0.0.0.0	255.255.255.255	Any 🔻	1	65535

STEP 6: CONFIGURE WEB ACCESS LOGGING
Select the method for filtering.
Web Access Logging:
O 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 Select the function of the Website Filter, the options are ALLOW Filter below: computers access to ONLY these sites or DENY computers access to ONLY these sites.

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

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

DIR-819		ADVANCED
WEBSITE FILTER		WEBSITE FILTER
Save Settings Don't Save Setting 0 WEBSITE FILTERING RULES	ļS	
Save Settings Don't Save Setting 0 WEBSITE FILTERING RULES anfigure Website Filter below: ALLOW computers access to ONLY these sites DENY computers access to ONLY these sites Clear the list below	25 V	

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 Enable or disable anti-spoof checking. 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 IPEnter the IP address of the machine that you wish to place in the DMZ.Address: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
DMT means "Demilitarized Zone". DMZ allows computers beh DMZ would contain Web servers, FTP servers and others.b Save Settings Don't Save Settings	ind the router firewall to be accessible to Internet traffic.Typically, your
FIREWALL SETTINGS Enable SPI :	
ANTI-SPOOF CHECKING Enable anti-spoof checking :	
DMZ HOST The DMZ (Demilitarized Zone) option lets you set a single com cannot run Internet applications successfully from behind the Internet access. Note:Putting a computer in the DMZ may expose that computes as a last resort.	puter on your network outside of the router. If you have a computer the router, then you can place the computer into the DMZ for unrestricted ter to a variety of security risks. Use of this option is only recommended
Enable DMZ : DMZ IP Address : DMZ IP Address : C	omputer Name 🔻
APPLICATION LEVEL GATEWAY (ALG) CONFIGURATIO PPTP: 2 IPSec (VPN): 2 RTSP: 2 SIP: 2	N
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:** A llows 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.

D-Link	
DIR-819	ADVANCED
FIREWALL SETTINGS	FIREWALL & DMZ SETTINGS
FIREWALL & DMZ SETTINGS DMZ means "Demilitarized Zone". DMZ allows computers beh DMZ would contain Web servers, FTP servers and others.b Save Settings Don't Save Settings	ind the router firewall to be accessible to Internet traffic.Typically, your
FIREWALL SETTINGS	
DMZ HOST The DMZ (Demilitarized Zone) option lets you set a single con cannot run Internet applications successfully from behind the	nputer on your network outside of the router.If you have a computer th router, then you can place the computer into the DMZ for unrestricted
Internet access. Note:Putting a computer in the DMZ may expose that compu as a last resort. Enable DMZ :	ter to a variety of security risks. Use of this option is only recommended
DMZ IP Address :	omputer Name V
APPLICATION LEVEL GATEWAY (ALG) CONFIGURATIO	n
PPTP: 2 IPSec (VPN): 2 RTSP: 2	
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.

ł		лП.				
DI	R-819			ADVA	NCED	
RC	UTING		ROU	TING		
OUT The Ro	ING outing option allows	you to define static routes	to specific destinations			
The Ro Sa Sa 24 1 emair	ING outing option allows ve Settings	you to define static routes to be a static routes to be a static routes to be a static route static route static s	to specific destinations			
Sar Sar	ING outing option allows ve Settings	you to define static routes 1 Don't Save Settings .ES that can be created: 24	to specific destinations	i.	Interface	
Sar Sar 24 ,	ING outing option allows ve Settings II APPLICATION RUL ning number of rules Name	you to define static routes of Don't Save Settings ES that can be created: 24 Destination IP	to specific destinations		Interface	

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 Enable or disable HT20/40 Coexistence. 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.

D-Link		
DIR-819	ADVANCED	
ADVANCED WIRELESS	ADVANCED WIRELESS SETTING	IGS
ADVANCED WIRELESS SETTINGS		
The default settings should provide the best wireless radio per Save Settings Don't Save Settings	rformance in most environments.	
ADVANCED WIRELESS SETTINGS		
Wireless Band: 2.	4GHz Band	
Transmit Power :	ligh 🔻	
WLAN Partition :		
WMM Enable : 🗸		
HT 20/40 Coexistence :	Enable O Disable	
ADVANCED WIRELESS SETTINGS		
Wireless Band : 50	GHz Band	
Transmit Power :	ligh 🔻	
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 The current status of the WPS feature is displayed here. Setup:

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

PIN SETTINGS

PIN: The currently defined WPS-PIN is displyaed 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 Click this button to launch the WPS Add Device Wizard. Refer to **Add Wireless Device: Wireless Device with WPS** on page **47** for more information.

DIR-819		ADVANCED
WI-FI PROTECTED S	SETUP	WI-FI PROTECTED SETUP
WI-FI PROTECTED SETUP		
Setup in order to be configured by this I If the PIN changes, the new PIN will be not reset the PIN. However, if the new PIN is not saved, it	method. used in following Wi-I will get lost when the	i Protected Setup process. Clicking on "Don't Save Settings" butto device reboots or loses power.
Setup in order to be configured by this If the PIN changes, the new PIN will be not reset the PIN. However, if the new PIN is not saved, it Save Settings Don't Save Set WI-FI PROTECTED SETUP	method. used in following Wi-I will get lost when the ettings	i Protected Setup process. Clicking on "Don't Save Settings" butto device reboots or loses power.
Setup in order to be configured by this in If the PIN changes, the new PIN will be not reset the PIN. However, if the new PIN is not saved, it Save Settings Don't Save So WI-FI PROTECTED SETUP	method. used in following Wi-1 will get lost when the ettings Enable :	i Protected Setup process. Clicking on "Don't Save Settings" butto device reboots or loses power.
Setup in order to be configured by this is If the PIN changes, the new PIN will be not reset the PIN. However, if the new PIN is not saved, it Save Settings Don't Save So WI-FI PROTECTED SETUP WIFI Pr Lock W	method. used in following Wi-1 will get lost when the ettings Enable : Z otected Setup : Ena PS-PIN Setup :	i Protected Setup process. Clicking on "Don't Save Settings" butto device reboots or loses power. bled/Configured
Setup in order to be configured by this If the PIN changes, the new PIN will be not reset the PIN. However, if the new PIN is not saved, it Save Settings Don't Save Set WI-FI PROTECTED SETUP WIFI Pr Lock W PIN SETTINGS	method. • used in following Wi-1 • will get lost when the ettings Enable : otected Setup : Ena IPS-PIN Setup :	i Protected Setup process. Clicking on "Don't Save Settings" butto device reboots or loses power. bled/Configured
Setup in order to be configured by this: If the PIN changes, the new PIN will be not reset the PIN. However, if the new PIN is not saved, it Save Settings Don't Save Si WI-FL PROTECTED SETUP WIFI Pr Lock W PIN SETTINGS	method. used in following Wi-1 will get lost when the ettings Enable : potected Setup : Enc (PS-PIN Setup : PIN : 49	i Protected Setup process. Clicking on "Don't Save Settings" butto device reboots or loses power. bled/Configured

Advanced Network

Click **Advanced Network** on the navigation menu to configure the Advanced Wireless settings. This page allows for the configuration of miscillaneous 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 Enable or disable the router to reply to pings. Response:

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

IPV6 MULTICAST STREAMS

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

DIR-819	ADVANCED
ADVANCED NETWORK	ADVANCED NETWORK SETTIN
ADVANCED NETWORK SETTINGS	
Save Settings Don't Save Settings	
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 Address.	respond to ping requests from the Internet that are sent to the WAN I
Enable WAN Ping Response :	
WAN PORT SPEED	
	Auto 10/100Mbps V
WAN Port Speed :	
WAN Port Speed : MULTICAST STREAMS	

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 If a guest zone or zones are enabled and this option is disabled, guest Between Zones: 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 Create a name for your wireless network. Name:

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.

D-Link	
DIR-819	ADVANCED
GUEST ZONE	GUEST ZONE
GUEST ZONE	
Use this section to configure the guest zone settings of your access Internet.	router. The guest zone provide a separate network zone for guest to
Save Settings Don't Save Settings	
GUEST ZONE	
Enable Routing Between Zones :	1
SESSION 2.4GHZ	
Enable Guest Zone : 🖉	Always New Schedule
Wireless Band: 2	4GHz Band
Wireless Network Name :	(Also called the SSID)
Security Mode :	None V
SESSION 5GHZ	
Enable Guest Zone : 📝	Always New Schedule
Wireless Band: 5	GHz 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 Enable or disable the IPv6 firewall. Security:

20 -- IPV6 FIREWALL RULES

Configure IPv6 Select the function of the IPv6 Filter, the options are Turn IPv6 Filtering below: 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 / Enter the source IP address and specify the prefix length for the rule. PrefixLength:

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

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

DI	IR-819				ADVANCED)	
IP	V6 FIREW	/ALL		IPV6 F	IREWALL		
IPV6	FIREWALL						
The fir way a	rewall settings se is IP Filters with a	ction is an advance fe dditional settings. You	ature used to allo i can create more	w or deny traffic detailed rules for	from passing through the the device.	device. It works in th	he san
		-					
Sa	ave Settings	Don't Save Setting	s				
70)/6		TTV					
		111					
IPV6	SIMPLE SECOR	Enable IPv6 Simple	Security : 🗌				
IPV6		Enable IPv6 Simple	Security : 🗌				
20 Remair	IPV6 FIREWAL	Enable IPv6 Simple L RULES ules that can be create	e Security :				
20 Remain Config	IPV6 FIREWAL ning number of ru ure IPv6 Filtering	Enable IPv6 Simple L RULES Jles that can be create below:	e Security :				
20 Remair Config	IPV6 FIREWAL ning number of ru ure IPv6 Filtering IPv6 Filtering OFI	Enable IPv6 Simple L RULES ules that can be create below:	e Security :				
20 Remain Configu Turn I Turn I	IPV6 FIREWAL ning number of ru ure IPv6 Filtering IPv6 Filtering OFI IPv6 Filtering ON	Enable IPv6 Simple L RULES Les that can be created below: and ALLOW rules listed and ALLOW rules listed	e Security :				
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20 Remair Configu Turn 1 Turn 1	IPV6 FIREWAL ning number of rr ure IPv6 Filtering IPv6 Filtering OFI IPv6 Filtering ON IPv6 Filtering ON Name	Enable IPv6 Simple L RULES Jules that can be create below: and ALLOW rules listed and DENY rules listed	e Security : ed: 24 ed: 24 Schedule Always V				
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20 Remain Configu Turn 1 Turn 1	IPV6 FIREWAL ning number of rr ure IPv6 Filtering OFI IPv6 Filtering OFI IPv6 Filtering ON IPv6 Filtering ON Name Source	Enable IPv6 Simple L RULES Liles that can be create below: and ALLOW rules listed DENY rules listed Interface LAN V	e Security : ed: 24 ed: 24 Schedule Always ▼ IP Address /F IIP Address /F	refixLength	Protocol ALL V		
20 Remain Turn 1 Turn 1	IPV6 FIREWAL ning number of ru ure IPv6 Filtering OFI IPv6 Filtering ON IPv6 Filtering ON Name Source	Enable IPv6 Simple L RULES Jas that can be create below: and ALLOW rules listed DENY rules listed Interface	e Security : ad: 24 ad: 24 Schedule Always ▼ IP Address /F IP Address /F IP Address /F	refixLength	Protocol ALL V		

IPv6 Firewall (continued)

Destination Enter the destination IP address and specify the prefix length for the IP Address / rule. 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.

D	R-819				ADVANCE	D	
ΙP	V6 FIREW	/ALL		IPV6 F	IREWALL		
The fi way a	FIREWALL rewall settings se s IP Filters with a ave Settings	ction is an advance feat dditional settings. You o Don't Save Settings	ure used to allo can create more	w or deny traffic detailed rules fo	from passing through the device.	ne device. It works in	the sa
IPV6 20	SIMPLE SECUR	ITY Enable IPv6 Simple S	Security : 🗌				
temai	ning number of ru	ules that can be created	: 24				
	TO C File						
Config Turn Turn Turn	ure IPv6 Filtering IPv6 Filtering OFI IPv6 Filtering ON IPv6 Filtering ON	and ALLOW rules listed and DENY rules listed	•				
Config Turn Turn Turn	ure IPv6 Filtering IPv6 Filtering OFI IPv6 Filtering ON IPv6 Filtering ON Name	below: and ALLOW rules listed and DENY rules listed	Schedule Always				
Config Turn Turn Turn	ure IPv6 Filtering OFI IPv6 Filtering OFI IPv6 Filtering ON IPv6 Filtering ON Name Source	Delow: and ALLOW rules listed and DENY rules listed Interface LAN V	Schedule Always V IP Address /P	refixLength	Protocol LAN V		

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 / 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.

DIR-819	ADVANCED
IPV6 ROUTING	ROUTING
outring his Routing page allows you to specify custom ro	outes that determine how data is moved around your network.
OUTING his Routing page allows you to specify custom ro Save Settings Don't Save Settings ROUTE LIST	outes that determine how data is moved around your network.
OUTING his Routing page allows you to specify custom ro Save Settings Don't Save Settings O ROUTE LIST Name	Destination IPv6 / Prefix Length

Tools

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

D-Link

					and the second
DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	ADMINISTRATOR SETTINGS				
TIME	The 'admin' account can access t By default there is no password o	he management interface. The ad configured. It is highly recommend	min has read/write access and ca led that you create a password to	n change password. keep your router secure.	
SYSLOG					
SYSTEM	Save Settings Don't	Save Settings			
FIRMWARE	ADMIN PASSWORD				
DYNAMIC DNS	Please enter the same passwo	ord into both boxes, for confir	mation.		
SYSTEM CHECK		Password :			
SCHEDULES		Verify Password :			
	ADMINISTRATION				
	E	nable HTTPS Server :			
	Enable R	emote Management :			
		Remote Admin Port : 8080	Use HTTPS:		
	Remote A	dmin Inbound Filter : Allow A	. ▼		
		Details : Allow A			
	Save Settings Don't	Save Settings		D-Link [®]	
			D	DIR-819	SETUP
To return to this Web U right of each page.	I Table of Contents page	e, simply click the D-Lin	k logo on the top	NTERNET	INTERNET CONNECTION

D-Link DIR-819 User Manual

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

Remote Admin Enter the port number you wish to use to access the DIR-819's web Port: configuration utility. Example: http://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 You may select an inbound filter from the drop down menu to restrict Inbound Filter: 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.

D-Link	
DIR-819	TOOLS
ADMIN	ADMINISTRATOR SETTINGS
The 'admin' account can access the management interface. T By default there is no password configured. It is highly recon Save Settings Don't Save Settings	The admin has read/write access and can change password. Inmended that you create a password to keep your router secure.
ADMIN PASSWORD Please enter the same password into both boxes, for c	confirmation.
Password : Verify Password :	
ADMINISTRATION	
Enable HTTPS Server :]
Remote Admin Port :	3 8080 Use HTTPS:
Remote Admin Inbound Filter :	
Details :	Allow All
Save Settings Don't Save Settings	

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 Enable or disable daylight saving time. Saving:

- Daylight Saving Select the daylight saving offset if Daylight Saving time will be used. Offset:
- Daylight Saving Select the date range for when to start and stop daylight savings time. Dates:

AUTOMATIC TIME AND DATE CONFIGURATION

Automatically Enable this option to get the current time from an NTP server on the synchronize with Internet. To configure the router's time and date manually, disable
 D-Link's Internet 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.

DIR-819			٦	TOOLS				
TIME		TIM	E AND	DATE				
TIME AND DATE	fouration option allows you to con	afigura undato	and maintain t	a correct time	on the inter	nal cyct	tom clos	*
From this section you ca configured to adjust the	an set the time zone you are in an e time when needed.	d set the NTP (N	letwork Time P	rotocol) Server	. Daylight Sa	ving ca	n also b	ie
Save Settings	Don't Save Settings							
TIME AND DATE CON	FIGURATION							
	Time :	2016-09-19 12	:00:00					
	Time Zone :	(CMT+08-00)	Teinei					
		(0011+00.00)	тарег			•		
	Enable Daylight Saving :	(Gi+1+08.00)	Taiper			•		
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AUTOMATIC TIME AN	Enable Daylight Saving : Daylight Saving Offset : Daylight Saving Dates : IND DATE CONFIGURATION onize with D-Link's Internet time su	Clinit 408.007	Month Mar Nov	Week 2nd ¥ 1st ¥	Day of W Sun Sun	▼ /eek ▼ [▼	Tim 2 am 2 am	ie V
AUTOMATIC TIME AN	Enable Daylight Saving : Daylight Saving Offset : Daylight Saving Dates : IND DATE CONFIGURATION Onize with D-Link's Internet time so NTP Server Used :	DST Start DST End ntp1.dlink.con	Month Mar V Nov V	Week 2nd V 1st V	Day of W Sun Sun	▼ /eek ▼ [▼	Tim 2 am 2 am	ie T
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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 Enable or disable the sending of router logs to a syslog server. SysLog Server:

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

SysLog Server IP 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.

D-Link					
DIR-819	TOOLS				
SYSLOG	SYSLOG				
SYSLOG The SysLog options allow you to send log information to a Sys Save Settings Don't Save Settings	ilog Server.				
SYSLOG SETTINGS Enable Logging To SysLog Server: 🗹 Syslog Server IP Address:	<				

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 Use this option to save the current router configuration settings to Local Hard Drive: 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 Use this option to load previously saved router configuration Local Hard Drive: 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 This option will restore all configuration settings back to the settings Default 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 If the device is of other language than English, clicking this button Pack: to convert the router's language back to English.

D-Link				
DIR-819	TOOLS			
SYSTEM	SAVE AND RESTORE SETTINGS			
SAVE AND RESTORE SETTINGS Once the router is configured you can save the configuration option to load configuration settings, or restore the factory de	settings to a configuration file on your hard drive. You also have the fault settings.			
SAVE AND RESTORE SETTINGS				
Save Settings To Local Hard Drive :	Save Configuration Choose File No file chosen			
	Restore Configuration From File			
Restore To Factory Default Settings :	testore Factory Defaults			
Reboot The Device :	Reboot the Device			
Clear Language Pack :	Clear			

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 The current firmware version is displayed here. Version:

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

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

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.

D-Link				
DIR-819	TOOLS			
FIRMWARE	FIRMWARE UPDATE			
FIRMWARE UPDATE				
There may be new firmware for your router to improve function Click here to check for an upgrade on our support site.	nality and performance.			
To upgrade the firmware, locate the upgrade file on the local h used, click the Upload button to start the firmware upgrade.	ard drive with the Browse button. Once you have found the file to be			
The language pack allows you to change the language of the language pack if you upgrade the firmware. This ensures that	user interface on the router. We suggest that you upgrade your current any changes in the firmware are displayed correctly.			
To upgrade the language pack, locate the upgrade file on the be used, click the Upload button to start the language pack up	ocal hard drive with the Browse button. Once you have found the file to grade.			
SAVE AND RESTORE SETTINGS				
Current Firmware Version : V1.	01			
Current Firmware Time : Sep	-29-2016T21:40:49			
Check Online Now for Latest Firmware Version :	Check Now			
FIRMWARE UPGRADE				
Note: Some firmware upgrades reset the configuration be sure to save the current configuration.	options to the factory defaults. Before performing an upgrade,			
To upgrade the firmware, your PC must have a wired co file, and click on the Upload button.	To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Unload button.			
Upload : Choose File No file chosen				
Clear Config :				
Upload				
LANGUAGE PACK UPGRADE				
Upload :	Choose File No file chosen			
	Upload			

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 Enable or disable the Dynamic DNS feature. DNS:

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
erver no matter what your IP address is. Save Settings Don't Save Settings DYNAMIC DNS SETTINGS	,
Enable Dynamic DNS :	
Server Address : Host Name :	Select Dynamic DNS Server
Username :	
Password : Verify Password :	
Timeout :	576 (Times)
Save Settings Don't Save Settings	isconnected

System Check

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

PING TEST

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

IPV6 PING TEST

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

PING RESULT

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

D-Link					
DIR-819	TOOLS				
SYSTEM CHECK	PING TEST				
PING TEST Ping Test sends "ping" packets to test a computer on the Inter	net.				
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.

DIR-819	//	TOOLS
SCHEDULES		SCHEDULES
10 ADD SCHEDULE RULE	Name :	
10 ADD SCHEDULE RULE	Name: Day(s): ◎	All Week O Select Days
10 ADD SCHEDULE RULE	Name: Day(s): ◎ All Day - 24 hrs: □	All Week O Select Days Sun Mon Tue Wed Thu Frid]
10 ADD SCHEDULE RULE	Name : Day(s) : @ All Day - 24 hrs : Start Time : [All Week O Select Days Sun _ Mon _ Tue _ Wed _ Thu _ Frid _ : (hour::minute)
10 ADD SCHEDULE RULE	Name : Day(s) : @ All Day - 24 hrs : Start Time : End Time :	All Week O Select Days Sun _ Mon _ Tue _ Wed _ Thu _ Frid _ ; (hour:minute) ; (hour:minute)

Status

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

D-Link

DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
DEVICE INFO	DEVICE INFORMATION				
LOGS	All of your Internet and network	connection details are displ	layed on this page. The firmware version is	also displayed here.	
STATISTICS	GENERAL				
INTERNET SESSIONS		Time: 2	2016-09-19 13:00		
WIRELESS	Curre	nt Firmware Version : V	/1.01		
ROUTING	WAN				
IPV6		Connection Type:	DHCP Client		
IPV6 ROUTING		Cable Status : C	Connected		
		Network Status : C	Connected		
			Renew		
		Connection Up Time: 0) Day 0 Hour 0 Min 0 Sec		
		MAC Address : f	f:ff:ff:ff:ff:ff		
		IP Address : 1	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.

D-Link			
DIR-819	SETUP		
INTERNET	INTERNET CONNECTION		

Device Info

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

GENERAL

The DIR-819's currently set time and firmware are displayed here.

WAN

The DIR-819's currently configured Internet connection settings are displayed here.

LAN

The DIR-819's currently configured local network settings are displayed here.

WIRELESS LAN

The DIR-819's currently configured 2.4 GHz wireless network settings are displayed here.

D-Link	9
DIR-819	STATUS
DEVICE INFO	DEVICE INFORMATION
DEVICE INFORMATION All of your Internet and network connection details are dis	splayed on this page. The firmware version is also displayed here.
GENEDAI	
Time:	2016-09-19 13:00
Current Firmware Version :	V1.01
WAN	
Connection Type :	DHCP Client
Cable Status :	Connected
Network Status :	Connected
	Renew Release
Connection Up Time :	0 Day 0 Hour 0 Min 0 Sec
MAC Address :	ff:ff:ff:ff:ff
IP Address :	192.168.0.1
Subnet Mask :	255.255.255.0
Default Gateway :	192.168.0.1
Primary DNS Server :	192.168.0.1
Secondary DNS Server :	192.168.0.1
LAN	
MAC Address :	ff:ff:ff:ff:ff:ff
IP Address :	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server :	Enabled
WIRELESS LAN	
Wireless Radio :	Enabled
MAC Address :	Mind 902 11a 902 11a and 902 11b
SU2.11 Mode :	Mixed 802.11n, 802.11g and 802.11D
Channel width :	1
Network Name (SSID) :	Your 2.4GHz Network
Wi-Fi Protected Setup :	Enabled/Not configured
Security :	NONE
Guest Zone Wireless Radio :	Disabled
Guest Zone Network Name (SSID) :	
Guest Zone Security :	NONE

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			
	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 Pi	otected Setup :	Enabled/Not configured			
	Security :	NONE			
Guest Zone Wireless Radio : Disabled					
Guest Zone Network	Guest Zone Network Name (SSID) :				
Guest	Guest Zone Security :				
LAN COMPUTERS					
MAC Address	IP Addres	SS	Name(if any)		
ff:ff:ff:ff:ff:ff					
IGMP MULTICAST MEMBERSHIPS					
IPv4 Multicast Group Address	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 levl of information to view and then click the **Save** Settings button.

LOG FILES

Click the navigation buttons to view the log file.

D-L	ink			
DIR-819	//	STAT	TUS	
LOGS		VIEW LOG		
The View Log displays the act Save Settings Dor SAVE LOG FILE Save Log	vities occurring on the router. v't Save Settings pg File To Local Hard Drive.	ave		
WAN Log Typ Log Leve	e : ⊚ System el : ⊚ Critical	O Firewall & Security O Warning	O Router Status O Information	
LOG FILES First Page Last Page Previo	us Next Clear			
Time Sep 19 09:15:05 2016	Message 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	semit packets passing	a through the device			
Refresh Statistics		anough are device.			
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 BAR	ND				
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.



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.



Routing

Click **Routing** to view the currently configured IPv4 routing table.



IPV6

Click **IPv6** to view the currently IPv6 information.

IPV6 CONNECTION INFORMATION

IPv6 Connection The currently configured IPv6 connection type is listed here. Type:

IPv6 Default The current IPv6 default gateway is listed here. Gateway:

LAN IPv6 Link-Local The current IPv6 Link-Local address is listed here. Address:

LAN IPV6 COMPUTERS

The currently connected IPv6 computers are listed in this table.

D-Liı	1k
DIR-819	STATUS
IPV6	IPV6 NETWORK INFORMATION
IPV6 NETWORK INFORMATION All of your IPv6 Internet and network co	nnection details are displayed on this
IPV6 CONNECTION INFORMATION	
IPv6 Con	inection Type : Link-Lcoal
IPv6 Def	ault Gateway : NONE
LAN IPv6 Link-I	Local Address : ffff::fff:fff:ffff:
LAN IPV6 COMPUTERS	
IPv6 Address	Name(if any)

IPv6 Routing

Click **IPv6 Routing** to view the currently configured IPv6 routing table.



Support

D-Link					
DIR-819	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
MENU	IPV6 ROUTING				
SETUP ADVANCED	 <u>Setup</u> <u>Advanced</u> <u>Tools</u> <u>Status</u> 				
TOOLS	SETUP HELP				
	 <u>Internet</u> <u>Wireless Settings</u> <u>Network Settings</u> <u>IPv6</u> 				
	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 				

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.

() four an existing network, locate the wheless network four in the taskbal, next to the time display and click on it. Clicking on this icon will display a list of wireless networks which are within range of your computer. Select the desired network by clicking on the SSID. () dlink-1654 Secured () dlink-2802-5GHz Secured

To join an existing network, locate the wireless network icon in the taskbar,



11:24 AM

1/27/2016

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.

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.

Networksd-link-07725Image: state of the stat



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).



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



Section 4 - Connecting to a Wireless Network

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.

Y Connect to a Network	×
Getting information from dlink	
	Cancel

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.

ᢖ 📡 Set Up a Network	
Give your network a name	
Your network needs a unique name so characters or less) and recognizable.	that it can be easily identified. It is best to keep the name short (25
Type your network name:	Security-enabled network
D-Link_Net	Your network is being set up using WPA2-Personal.
Change passphrase, security level and	encryption type (advanced): 🦳 🕚
👰 Upgrade or replace the router using	a the network settings stored on this computer

6. To configure advanced settings, click the \bigotimes icon.

Click **Next** to continue.

🚱 🟆 Set Up a Network	
Give your network a name	
Your network needs a unique name characters or less) and recognizable.	so that it can be easily identified. It is best to keep the name short (25
Type your network name:	🧭 Security-enabled network
D-Link_Net	Your network is being set up using WPA2-Personal.
Change passphrase, security level an Security key:	id encryption type (advanced): Security level:
f6mm-gizb-9vmv	WPA2-Personal (Recommended)
Connect automatically	Encryption type:
	AES (Recommended)
😌 Upgrade or replace the router usi	ing the network settings stored on this computer
	Next Cancel

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.



Set Up a Network
D-Link_Net has been successfully set up
To add an older wireless device to this network, you might need to provide this security key
894g-eyd5-g5wb
You can <u>print these network settings</u> for future reference. For gaming consoles or computers running Windows XP, <u>copy the network profile to a USB drive</u> for easier set up.
Close

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.



44

4 III

Connect Cancel



Connect to a network

Show All

VOIPtest

Mink 🛃

tuesday

Set up a connection or network

Section 4 - Connecting to a Wireless Network

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.

Type	the network security key or passphrase for Candy
The pe	rson who setup the network can give you the key or passphrase.
Securit	ry key or passphrase:
🔲 Disp	play characters
a	If you have a <u>USB flash drive</u> with network settings for Candy, insert it now.

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 -1 1482

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

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 -1 1472

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

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

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

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

Ping statistics for 66.94.234.13:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>
```

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

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

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

- Open your browser, enter the IP address of your router (192.168.11.1) 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 as become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home Uses/Benefits

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

Small Office and Home Office Uses/Benefits

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or access point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

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



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.

You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	l automatically if your network supports ed to ask your network administrator fo
Obtain an IP address autor	natically
Use the following IP addres	s:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0 192 . 168 . 0 . 1
Default gateway:	
Obtain DNS server address	automatically
O Use the following DNS serv	er addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
	Advanced

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.