D-Link[®]



User Manual

AC1750+ MU-MIMO Wi-Fi Gigabit Router

DIR-867

Preface

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

Manual Revisions

Revision	Date	Description	
1.00	May 15, 2017	Initial release.	

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Power Usage

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

Network Standby: 4.85 watts

Switched Off: 0.06 watts

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Package Contents



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

Note: Using a power supply with a different voltage rating than the one included with the DIR-867 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based cable or DSL modem IEEE 802.11ac/n/g/b/a wireless clients 10/100/1000 Ethernet 	
	Computer with the following: • Windows [®] , Macintosh, or Linux-based operating system • An installed Ethernet adapter	
Web-based Configuration Utility Requirements	 Browser Requirements: Internet Explorer 10 or higher Firefox 28 or higher Safari 6 or higher Chrome 28 or higher 	
	Windows [®] Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.	
D-Link Wi-Fi APP Requirements	 iPhone[®]/iPad[®]/iPod Touch[®], Android[™], or Windows smartphone or tablet. (Please refer to the mobile app's store page to check whether your device is compatible) 	

Introduction

The D-Link DIR-867 AC1750+ MU-MIMO Wi-Fi Gigabit Router shares your Internet connection over a blazing-fast Gigabit Wireless AC connection of up to 1750+ Mbps (Up to 1300 Mbps 5 GHz Wireless AC and up to 450+ Mbps 2.4 GHz Wireless N)¹, using advanced AC beamforming technology to significantly outperform 802.11n and other 802.11ac devices. Equipped with one Gigabit WAN/Internet port and four Gigabit LAN ports to provide wired speeds of up to 10 times faster than standard 10/100 ports, the DIR-867 creates the best networking experience to date.

Featuring four antennas and a 3 x 3 Multiple In Multiple Out (MIMO) antenna configuration, the DIR-867 offers better data rates, fewer dead-spots, more coverage, and higher reliability. Operating exclusively in the 5 GHz band, the DIR-867's 802.11ac wireless connections avoid the crowded 2.4 GHz band, allowing you faster speeds while still maintaining backwards compatibility with older 802.11n/g/b devices. The DIR-867 prepares your home to become a Connected Home by bringing Wi-Fi to places your old signal can't reach. A stronger Wi-Fi signal means you can install more wireless surveillance cameras, baby monitors, sensors, and alarms in the places where you need them.

The DIR-867's Smart Connect Technology makes connecting to wireless networks easy by eliminating the confusion of multiple networks. Ever since the introduction of 5 GHz multi-band wireless technology, users have had to guess whether the 5 GHz or 2.4 GHz band network would provide them with better range and speed. Smart Connect simplifies this by only presenting a single wireless network for you to connect to. Behind the scenes, when a connection is initiated, the DIR-867's advanced algorithms determine the best band for your device to connect to, automatically distributing devices to the optimal band, thereby ensuring a faster, more reliable, and hassle-free experience for all of your users and devices.

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

Introduction (continued)

The DIR-867 supports the latest wireless security features to help prevent unauthorized access, be it from over a wireless network or the Internet. Support for WPA[™] and WPA2[™] standards ensure that you will be able to use the best possible encryption regardless of your client devices. In addition, this router is equipped with a dual-active firewall (SPI and NAT) to prevent potential attacks over the Internet.

The DIR-867 AC1750+ MU-MIMO Wi-Fi Gigabit Router provides incredible speeds, smart antenna technology, fast ports, cloud features, and terrific security features. It also features an innovative design and easy installation options.

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

Features

- Superior Wireless Networking The DIR-867 provides Gigabit wireless speeds of up to a combined 1750+ Mbps (1300 Mbps 802.11ac 5 GHz, plus 450+ Mbps 802.11n 2.4 GHz)¹. This capability rivals wired connections, allowing users to participate in real-time activities online, such as HD video communication, online gaming, and use mobile devices from anywhere in your home while still offering full 802.11n/g/b backward compatibility.
- Extreme Wired LAN and WAN Networking With four 10/100/1000 Gigabit Ethernet LAN ports, and a 10/100/1000 Gigabit Ethernet WAN port, the DIR-867 has an enormous amount of bandwidth to take full advantage of the highest speed broadband connections available.

IPv6 Support - The DIR-867 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.

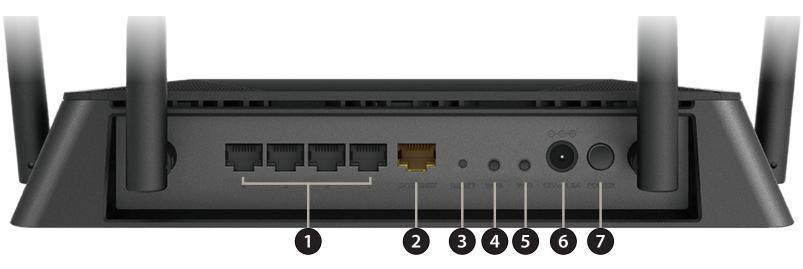
- **Smart Connect** Creates a 'single' wireless network for your devices to connect to. Behind the scenes, the DIR-867 automatically determines whether to connect a device to the 2.4 or 5 GHz band, thereby providing the best speed and range for each device and optimally distributing devices to each network.
- Advanced Firewall Features The web-based user interface displays a number of advanced network management features. Easily apply content filtering based on 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-867 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-867 can access corporate networks through encrypted channels.
- User-friendly Setup Wizard Through its easy-to-use web-based user interface or Wi-Fi APP, the DIR-867 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	1 Power LED A solid light indicates a proper connection to the power supply. The light will be solid orange dur		
2 Internet LED A solid light indicates a connection on the Internet port. If the LED is orange, the rou- Internet.		A solid light indicates a connection on the Internet port. If the LED is orange, the router cannot connect to the Internet.	
3 Wireless (2.4 GHz LED) A solid light indicates that the 2.4 GHz wireless band is enabled.		A solid light indicates that the 2.4 GHz wireless band is enabled.	
4	Wireless (5 GHz LED)	A solid light indicates that the 5 GHz wireless band is enabled.	

Hardware Overview Back Panel



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

Installation

This section will walk you through the installation of the DIR-867.

Before you Begin

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

Wireless Installation Considerations

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

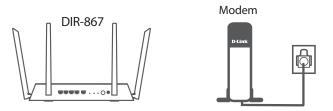
- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between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

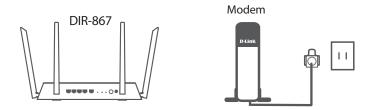
1. The DIR-867 is designed to give you the fastest, most stable network connection possible. In order to maximize performance, fully extend the antennas into a 105 degree angle to provide optimal wireless coverage. Keep the router in an open area for better wireless coverage.



2. Position your DIR-867 near your Internet-connected modem. Place it in an open area for better wireless coverage.



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



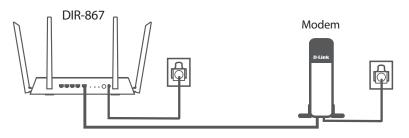
4. Use the included Ethernet cable to connect your modem to the yellow port labeled **INTERNET** on the router.



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

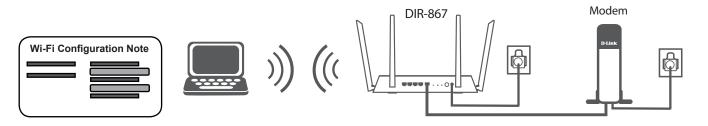


6. Connect the supplied power adapter to the router and a power outlet, press the power button, and wait approximately one minute until the LED indicator on the front of the device changes from orange to solid white.

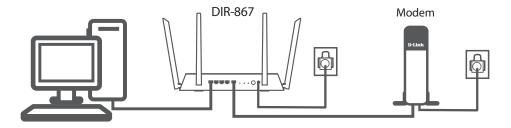


Note: This unit is to be used with power supply model DA-60N12.

7. If you are configuring the DIR-867 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 your router.



If you are configuring the DIR-867 from a PC with a wired Ethernet connection, plug one end of an Ethernet cable into the port labeled 1 on the back of the router, and the other end into the Ethernet port on your computer.



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

Completing Setup

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

- **D-Link Setup Wizard** This wizard will launch when you log into the router for the first time. Refer to **Setup Wizard** on page **14**.
- **Manual Setup** Log in to the router and manually configure your router. Refer to **Configuration on page 18**.

Setup Wizard

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

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

Click Next to continue.

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

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

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



Welcome		×
(iii)	— 🔟))	((
Internet	DIR-867	Wi-Fi Client
This wizard will guide you throug device.	h a step-by-step process to o	configure your new D-Link
Step 1: Insta	ll your device	
Step 2: Confi	gure your Network and Wi	i-Fi settings
Step 3: Set y	our router password	
English		Next

	<u> </u>	(
Internet	DIR-867	Wi-Fi Client
Please select your Internet conr	nection type below:	
DHCP Connection (Dynamic)	mic IP Address)	
	nternet connection automatic ems use this type of connecti	
Username/Password Con	nection (PPPoE)	
	nternet connection requires a ems use this connection type	a username and password to of connection.
Static IP Address Connec	ction	
Choose this option if your I information that has to be r	nternet Service Provider prov	vided you with IP Address

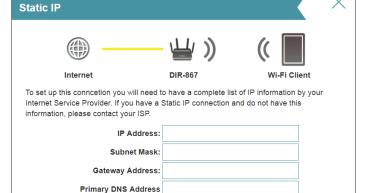
Setup Wizard (continued)

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

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

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

Х PPPoE Internet **DIR-867** Wi-Fi Clien To setup this Internet connection, you will need to have a User Name from your Internet Service Provider. If you do not have this information, please contact your ISP. Username: Password:



Secondary DNS Address

Next

 \times

Back

Back

Next

Setup Wizard (continued)

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

Click Next to continue.

Note: The DIR-867's Smart Connect feature presents a single wireless network. When connecting clients to an extension network, they will be automatically added to the best band, either 2.4 GHz or 5 GHz. To disable the Smart Connect feature and individually configure 2.4 GHz and 5 GHz networks, refer to **Wireless** on page **54**.

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

Wi-Fi Settings		×
	— 낼)	(
Internet	DIR-867	Wi-Fi Client
To setup a Wi-Fi network you wil password.	I need to give your Wi-Fi net	work a name(SSID) and
Wi-Fi Netwo	rk Name: DIR-867	
The Wi-Fi Network Name is up t using this Network Name (SSID		ed to join your Wi-Fi network
Wi-Fi P	assword: 1234567890	
The password must contain at le using this password.	east 8 characters. You will ne	eed to join your Wi-Fi network
		Back Next

Device Admin P	assword			X	
		· 낻 🌒	(([
Internet		DIR-867	Wi-F	i Client	
By default, your new D-Link device does not have a password configured for administrator access to the Web-based configuration utility. To secure your new device, please create a password below.					
Device A	Admin Password:	1234567890			
				_	
			Back	Next	

Setup Wizard (continued)

Summary

Internet

note of your settings and click "Next".

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

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

Congratulations, your device has been successfully configured!



DIR-867

Below is a summary of your Wi-Fi security and device password settings. Please make a



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Wi-Fi Clier

Configuration

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

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

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

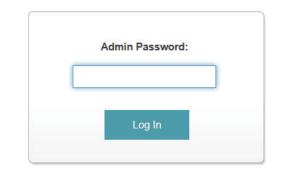
The router's home page will open displaying its current connection status.

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

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

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



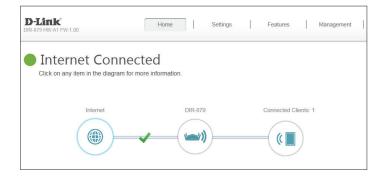




Home

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

The Home page displays whether or not the router is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to **Setup Wizard** on page **14** for more information.





Internet

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

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

To reconfigure the Internet settings, refer to Internet on page 22.



DIR-867

Click on the **DIR-867** icon to view details about the router and its wireless settings.

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

To reconfigure the network settings, either click **Go to settings** on the lower left, or click **Settings** (at the top of the page) and then **Network** on the menu that appears. Refer to **Network** on page **58** for more information.

To reconfigure the wireless settings, either click **Go to settings**, on the lower right, or click **Settings** (at the top of the page) and then **Wireless** on the menu that appears. Refer to **Wireless** on page **54** for more information.

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<image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>					
IPv4 Network Implication MAC Address: Status: Router IP Address: 122 168 0.1 Subnet Masis: 252 552 555 0 Implication Implication Implication)IR-867		
MAC Address: Enabled Router IP Address: 192.168.0.1 WI-FI Name (SSID): 867/test Subnet Mask: 265.255.0 Password: 12345678 PIV6 Network Go to settings → Link-Local Address: Kot Available DHCP-PD: Enabled Assigned Prefix: /64 Co to settings →					
Subnet Masik: 255 255 255 0 Password: 12345678 ☐ IPv6 Network Go to settings ④ Link-Local Address: FE80:20C:12FF:FE00:80A2 Router IPv6 Address: Not Available DHCP-PD: Enabled Assigned Prefix: /64 Go to settings ④			र्र Wi-Fi		
☐ IPv6 Network Go to settings → Link-Local Address: FE80::20C:12FF.FE00:60A2 Router IPv6 Address: Not Available DHCP-PD: Enabled Assigned Prefix: /64	P IPv4 Network				
LinkLocal Address: FE80:20C12FFFE0080A2 Router IPv6 Address: Not Available DHCP-PD: Enabled Assigned Prefix: /64 Go to settings →	모 IPv4 Network MAC Address:		Status:	Enabled	
DHCP-PD: Enabled Assigned Prefix: /64 Go to settings →	P IPv4 Network MAC Address: Router IP Address: 192.168.0.1		Status: Wi-Fi Nam	Enabled e (SSID): 867test	
Assigned Prefix: /64 Go to settings →	IPv4 Network MAC Address: Router IP Address: 192.168.0.1 Subnet Mask: 265.265.265.0 IPv6 Network	FE00.60A2	Status: Wi-Fi Nam	Enabled • (SSID): 867test : 12345678	
- Go to settings €	☐ IPv4 Network MAC Address: Router IP Address: 192.168.0.1 Subnet Mask: 255.255.255.0 ☐ IPv6 Network Link-Local Address: FE80::20C:12FF	FE00.60A2	Status: Wi-Fi Nam	Enabled • (SSID): 867test : 12345678	
	☐ IPv4 Network MAC Address: Router IP Address: 192.168.0.1 Subnet Mask: 255.255.255.0 ☐ IPv6 Network Link-Local Address: FE80.20C.12FF Router IPv6 Address: Not Available	FE00.60A2	Status: Wi-Fi Nam	Enabled • (SSID): 867test : 12345678	
COPYRIGHT © 2016 D-Link	IPv4 Network MAC Address: Router IP Address: 192.168.0.1 Subnet Mask: 255.255.265 Iv6 Network Link-Local Address: FE80:20C.12FF Router IPv6 Address: Not Available DHCP-PD: Enabled	FE00.60A2	Status: Wi-Fi Nam	Enabled • (SSID): 867test : 12345678	
	IPv4 Network MAC Address: Router IP Address: 192.168.0.1 Subnet Mask: 255.255.265 Iv6 Network Link-Local Address: FE80:20C.12FF Router IPv6 Address: Not Available DHCP-PD: Enabled		Status: Wi-Fi Nam Password:	Enabled • (SSID): 867test : 12345678	

Connected Clients

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

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

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

-	ernet Conne any item in the diagram for		
	Internet	DIR-867	Connected Clients: 1
		 ✓ û 	(())
Connec	cted Clients		
	cted Clients	r network completely.	
You can block a		r network completely.	



- Name: Enter a custom name for this client.Vendor: Displays the vendor of the device.
- MAC Address: Displays the MAC address of the device.
 - IP Address: Displays the current IP address of this client.
 - **Reserve IP:** Enable to reserve this IP address for this client.
 - **IP Address** Specify an IP address for the DIR-867's DHCP server to assign. **(Reserved):**
- Parental Control: Allow or Block access to the router.

Click Save when you are done.

Settings Wizard

In the Settings menu on the bar on the top of the page, click **Wizard** to open the setup wizard. This is the same wizard that appears when you start the router for the first time. Refer to **Setup Wizard** on page **14** for details.

Internet

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

My InternetChoose your Internet connection type from the drop-down menu. YouConnection Is:will be presented with the appropriate options for your connection
type. Click Advanced Settings... to expand the list and see all of the
options.

For Dynamic IP (DHCP) refer to page 23.

For **Static IP** refer to page **24**.

For **PPPoE** refer to page **25**.

For **PPTP** refer to page **27**.

For L2TP refer to page 29.

For **DS-Lite** refer to page **31**.

To configure an IPv6 connection, click the **IPv6** link. Refer to page **32**.

D-Link DIR-867 HW:A1 FW:1.00	Hom	e	Settings	Features	Management
Use th from S please	is section to configure tatic IP, DHCP, PPP, contact your Internet any PPPoE client so	E, PPTP, L2TP service provider.	and DS-Lite. If you a Note: If using the PI	are unsure of your co	onnection method,
Settings >> Internet			VLAN	<u>IPv6</u>	Save
My In	ternet Connection is:	Dynamic IP (Dł	HCP)	^	
		Static IP			Advanced Setting
		Dynamic IP (Di	HCP)		Auvanced Setan
		PPPoE			
	CC	PPTP			
		L2TP			

Dynamic IP (DHCP)

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

Advanced Settings

- **Host Name:** The host name is optional but may be required by some ISPs. Leave it blank if you are not sure.
- Primary DNSEnter the primary DNS server IP address assigned by your ISP. ThisServer:address is usually obtained automatically from your ISP.
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
 - MAC Address
 Clone: MAC address is set to the Internet port's physical interface
 MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.
 - Click **Save** when you are done.

D-Link DIR-867 HW:A1 FW:1.00	Home	•	Settings	Features	Management	
	Internet					
	Use this section to configure from Static IP, DHCP, PPPo please contact your Internet disable any PPPoE client so	E, PPTP, L2TF service provider	and DS-Lite. If you Note: If using the I	are unsure of your co	innection method,	
Settings >> Internet			VLAN	IPv6	Save	
	My Internet Connection is:	Dynamic IP (D	HCP)	~		
					Advanced Settings	
	Host Name:	D-Link				
	Primary DNS Server:	168.168.250				
	Secondary DNS Server:					
	MTU:	Manual	~	1492		
	MAC Address Clone:	00:0C:43:28:8	0:45	<< MAC Address	~	
		PYRIGHT © 2016	D-Link			

Static IP

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

- **IP Address:** Enter the IP address provided by your ISP.
- Subnet Mask: Enter the subnet mask provided by your ISP.
- Default Gateway: Enter the default gateway address provided by your ISP.
 - Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:

Advanced Settings

- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
 - MAC Address
 Clone: MAC address is set to the Internet port's physical interface
 MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.

D-Link DIR-867 HW:A1 FW:1.00	Ho	me	Settings		Features	Management
	Internet					
	Use this section to configu from Static IP, DHCP, PF please contact your Intern disable any PPPoE client	PoE, PPTP, Li et service prov	2TP and DS-Lit ider. Note: If usi	e. If you ar	re unsure of your	connection method,
Settings >> Internet			VLA	N	<u>IPv6</u>	Save
	My Internet Connection i	s: Static IP			~	
	IP Address	s:				
	Subnet Mas	K				
	Default Gateway	y:				
	Primary DNS Serve	r:				
						Advanced Setting

PPPoE

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

- Username: Enter the username provided by your ISP.
- Password: Enter the password provided by your ISP.
- **Reconnect Mode:** Select either **Always on**, **On Demand**, or **Manual**.
 - Maximum IdleEnter a maximum idle time during which the Internet connection is
maintained during inactivity. To disable this feature, select Always
on as the reconnect mode.

Advanced Settings

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

Dynamic IP

- Service Name: Enter the ISP service name (optional).
 - Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

D-Link DIR-867 HW:A1 FW:1.00	Hom	ie	Settings	Features	Management
	Internet				
	Use this section to configure from Static IP, DHCP, PPP please contact your Internet disable any PPPoE client so	oE, PPTP, L2TP t service provider.	and DS-Lite. If you a Note: If using the PI	are unsure of your c	onnection method,
Settings >> Internet			VLAN	<u>IPv6</u>	Save
	My Internet Connection is:	PPPoE		~	
	Username:				
	Password:				
	Reconnect Mode:	On demand	~		
	Maximum Idle Time:	5	minutes		
					Advanced Settin

Address Mode:	Dynamic IP 🗸 🗸		
Service Name:			
Primary DNS Server:			
Secondary DNS Server			_
MAC Address Clone:	00:0C:43:28:80:45	<< MAC Address	
co	DPYRIGHT © 2016 D-Link		

PPPoE (continued)

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

Static IP

- IP Address: Enter the IP address provided by your ISP.
- Service Name: Enter the ISP service name (optional).
- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
 - MAC Address
 The default MAC address is set to the Internet port's physical interface
 Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.





PPTP

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

- PPTP Server IP 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.
- Reconnect Mode: Select either Always on, On demand, or Manual.
 - Maximum IdleEnter a maximum idle time during which the Internet connection is
maintained during inactivity. To disable this feature, select Always
on as the reconnect mode.

Advanced Settings

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

Dynamic IP

- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

D-Link DIR-867 HW:A1 FW:1.00	Hom	e	Settings	Features	Management
	Internet				
	Use this section to configure from Static IP, DHCP, PPP please contact your Internet disable any PPPoE client so	oE, PPTP, L2TF service provider	and DS-Lite. If yo Note: If using the	u are unsure of your c	onnection method,
Settings >> Internet			VLAN	IPv6	Save
	My Internet Connection is:	PPTP		~	
	PPTP Server:	IP or Domain r	name		
	Username:				
	Password:				
	Reconnect Mode:	On demand	~		
	Maximum Idle Time:	5	minutes		
					Advanced Setting



PPTP (continued)

Static IP

- PPTP IP Address: Enter the IP address provided by your ISP.
 - **PPTP Subnet** Enter the subnet mask provided by your ISP. Mask:
- PPTP Gateway IP Enter the gateway IP address provided by your ISP. Address:
 - **Primary DNS** Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

Click Save when you are done.

Address Mode:	Static IP 🗸 🗸
PPTP IP Address:	
PPTP Subnet Mask:	
PPTP Gateway IP Address:	
Primary DNS Server:	
Secondary DNS Server:	
MTU:	Auto 🗸

L2TP

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

- L2TP Server: Enter the L2TP server IP address provided by your ISP.
 - Username: Enter the username provided by your ISP.
 - **Password:** Enter the password provided by your ISP.
- Reconnect Mode: Select either Always on, On demand, or Manual.
 - Maximum Idle Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select **Always** on as the reconnect mode.

Advanced Settings

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

Dynamic IP

- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP. The recommended setting is **Auto**.

	Internet Use this section to configure from Static IP, DHCP, PPP please contact your Internet disable any PPPoE client so	oE, PPTP, L2TP service provider	and DS-Lite. If you Note: If using the P	are unsure of your co	nnection method,
Settings >> Internet			VLAN	<u>IPv6</u>	Save
	My Internet Connection is:	L2TP		~	
	L2TP Server:	IP or Domain n	iame		
	Username:				
	Password:				
	Reconnect Mode:	On demand	~		
	Maximum Idle Time:	5	minutes		
					Advanced Settings

Address Mode:	Dynamic IP 🗸
Primary DNS Server:	
Secondary DNS Server:	
MTU:	Auto 🗸

L2TP (continued)

Static IP

- L2TP IP Address: Enter the IP address provided by your ISP.
 - L2TP Subnet Enter the subnet mask provided by your ISP. Mask:
- L2TP Gateway IP Enter the gateway IP address provided by your ISP. Address:
 - Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

Click Save when you are done.

Address Mode:	Static IP 🗸
L2TP IP Address:	
L2TP Subnet Mask:	
L2TP Gateway IP Address:	
Primary DNS Server:	
Secondary DNS Server:	
MTU:	Auto 🗸

DS-Lite

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

Advanced Settings

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

DS-Lite DHCPv6

- B4 IPv6 Address: Enter the B4 IPv4 address value used here.
 - WAN IPv6 Once connected, the WAN IPv6 address will be displayed here. Address:
- IPv6 WAN Default Once connected, the IPv6 WAN default gateway address will be Gateway: displayed here.

Manual

- **AFTR IPv6** Enter the AFTR IPv6 address used here. **Address:**
- B4 IPv6 Address: Enter the B4 IPv4 address value used here.
 - WAN IPv6 Once connected, the WAN IPv6 address will be displayed here. Address:
- IPv6 WAN Default Once connected, the IPv6 WAN default gateway address will be Gateway: displayed here.

Click Save when you are done.

	Internet			
	Use this section to configure your Inte from Static IP, DHCP, PPPoE, PPTF please contact your Internet service p disable any PPPoE client software on	P, L2TP and DS-Lite. If you a rovider. Note: If using the PF	re unsure of your co	onnection method,
Settings >> Internet		VLAN	IPv6	Save

B4 IPv4 Address: 192.0.0. WAN IPv6 Address: Not Available IPv6 WAN Default Gateway: Not Available	DS-Lite Configuration:	DS-Lite DHCPv6 Option
	B4 IPv4 Address:	192.0.0.
IPv6 WAN Default Gateway: Not Available	WAN IPv6 Address:	Not Available
	IPv6 WAN Default Gateway:	Not Available

DS-Lite Configuration:	Manual Configuration
AFTR IPv6 Address:	
B4 IPv4 Address:	192.0.0.
WAN IPv6 Address: 1	Not Available
IPv6 WAN Default Gateway: 1	Not Available

IPv6

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

My InternetChoose your IPv6 connection type from the drop-down menu. YouConnection Is:will be presented with the appropriate options for your connectiontype. Click Advanced Settings... to expand the list and see all of the options.

For Auto Detection refer to page 33.

For **Static IPv6** refer to page **35**.

For Auto Configuration (SLAAC/DHCPv6) refer to page 37.

For **PPPoE** refer to page **40**.

For IPv6 in IPv4 Tunnel refer to page 44.

For **6 to 4** refer to page **47**.

For **6rd** refer to page **49**.

For Local Connectivity Only refer to page 51.

D-Link IR-867 HW:A1 FW:1.00	Hom	ie	Settings	I	Features	Management
	Pv6 I of your IPv6 Internet and	d network connec	tion details a	re display	red on this page	
Settings >> Internet >> IPv6					IPv4	Save
	My Internet Connection is:	Auto Configurat	ion (SLAAC/E	HCPv6)	~	
IPv6 DNS SETTINGS						
	DNS Type:	Obtain a DNS s	erver address	automati	ically 🗸	
LAN IPv6 ADDRESS SETTIN	GS					
	Enable DHCP-PD:	Enabled				
LAN	IPv6 Link-Local Address:	Not Available				Advanced Settings
ADDRESS AUTOCONFIGUR	ATION SETTINGS					
Enable Automatic	Pv6 Address Assignment:	Enabled				
Enable Au	tomatic DHCP-PD in LAN:	Enabled				
	Autoconfiguration Type:	SLAAC+Statele	ss DHCP		\sim	

Auto Detection

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

IPv6 DNS Settings

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

If Use the following DNS address is selected:

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

LAN IPv6 Address Settings

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

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

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

LAN IPv6 Address: Enter a valid LAN IPv6 address.

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

onnection details are displayed on this page.
onnection details are displayed on this page.
VLAN IPv4 Save

IPv6 DNS Settings	
	DNS Type: Obtain a DNS server address automatically

IPv6 DNS Settings	
DNS Type:	Use the following DNS address
Primary DNS Server:	
Secondary DNS Server:	

LAN IPv6 Address Settings	
Enable DHCP-PD: Enabled	
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
	Advanced Settings

LAN IPv6 Address Settings	
Enable DHCP-PD: Disabled	
LAN IPv6 Address:	/64
LAN IPv6 Link-Local Address: fe80::8226:89ff;fe5f;fefa	
	Advanced Settings

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Auto Detection (continued)

Advanced Settings - Address Autoconfiguration Settings

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

Enable Automatic Enable or disable DHCP-PD for other IPv6 routers connected to the DHCP-PD in LAN: LAN interface.

Note: This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

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

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

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

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

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):**

dress Autoconfiguration Settings
Enable Automatic IPv6 Address Assignment: Enabled
Enable Automatic DHCP-PD in LAN: Enabled
Autoconfiguration Type: SLAAC+RDNSS 🗸
Router Advertisement Lifetime: 60 minutes

Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Enable Automatic DHCP-PD in LAN:	Enabled
Autoconfiguration Type:	SLAAC+Stateless DHCP V
Router Advertisement Lifetime:	60 minutes

Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment: Enabled	
Enable Automatic DHCP-PD in LAN: Enabled	
Autoconfiguration Type: Stateful DHCPv6	
IPv6 Address Range (Start): fff:: 00 1	
IPv6 Address Range (End): fff:: 00 99	

Static IPv6

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

- Use Link-Local Enable or disable link-local address use. Address:
- **Default Gateway:** Enter the default gateway for your IPv6 connection.
 - Primary DNS Enter the primary DNS server address. Server:
 - Secondary DNS Enter the secondary DNS server address. Server:

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

IPv6 Address: Enter the address supplied by your ISP.

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

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-867 HW:A1 FW:1.00	Home		Settings	Features	Management
6	IPv6 All of your IPv6 Internet and	network conner	ction details are displa	ayed on this page.	
Settings >> Internet >>	IPv6		VLAN	IPv4	Save
	My Internet Connection is:	Static IPv6		~	
	Use Link-Local Address:	Enabled			
	IPv6 Address:	fe80::8226:89	ff:fe5f:fefd		
	Subnet Prefix Length:	64			
	Default Gateway:				
	Primary DNS Server:				

My Internet Connection is:	Static IPv6	
Use Link-Local Address:	Disabled	
IPv6 Address:	fe80::8226:89ff:fe5f:fefd Please enter a valid IPv6 address. (e.g. 2001::1)	
Subnet Prefix Length:	64	
Default Gateway:		
Primary DNS Server:		
Secondary DNS Server:		
LAN IPv6 Address Settings		
LAN IPv6 Address:		/64
LAN IPv6 Link-Local Address:	fe80::8226:89ff:fe5f:fefa	
		Advanced Settings

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Static IPv6 (continued)

Advanced Settings - Address Autoconfiguration Settings

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

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

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

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

Lifetime:

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

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):

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

Address Autoconfiguration Settings	
duress Autocomgulation Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Autoconfiguration Type:	SLAAC+RDNSS V
Router Advertisement Lifetime:	30 minutes

Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Autoconfiguration Type:	SLAAC+Stateless DHCP V
Router Advertisement Lifetime:	30 minutes

Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Autoconfiguration Type:	Stateful DHCPv6
IPv6 Address Range (Start):	mm: 00
IPv6 Address Range (End):	fff:: 00
IPv6 Address Lifetime:	10080 minutes

Auto Configuration (SLAAC/DHCPv6)

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

IPv6 DNS Settings

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

If Use the following DNS address is selected:

- Primary DNS Enter the primary DNS server address. Server:
- Secondary DNS Enter the secondary DNS server address. Server:

LAN IPv6 Address Settings

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

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

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

LAN IPv6 Address: Enter a valid LAN IPv6 address.

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

D-Link DIR-867 HW:A1 FW:1.00	Home	Settings	Features	Management
IPve				
All of your	IPv6 Internet and network co	onnection details are displa	yed on this page.	

IPv6 DNS Settings		
DNS Type	Obtain a DNS server address automatically	~
IPv6 DNS Settings		
IPV6 DNS Settings		
DNS Type:	Use the following DNS address	~
Primary DNS Server:		
Secondary DNS Server:		

LAN IPv6 Address Settings	
Enable DHCP-PD: Enabled	
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
	Advanced Settings

LAN IPv6 Address Settings	
Enable DHCP-PD: Disabled	
LAN IPv6 Address:	/64
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
	Advanced Settings

Section 4 - Configuration

Auto Configuration (SLAAC/DHCPv6) (continued)

Advanced Settings - Address Autoconfiguration Settings

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

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

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

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

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

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

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

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):**

ADDRESS AUTOCONFIGURATION SETTINGS	
Enable Automatic IPv6 Address Assignment: Enabled	
Enable Automatic DHCP-PD in LAN: Enabled	
Autoconfiguration Type: SLAAC+Stateless DHCP	~
Router Advertisement Lifetime: minutes	

ADDRESS AUTOCONFIGURATION SETTINGS	
Enable Automatic IPv6 Address Assignment:	Enabled
Enable Automatic DHCP-PD in LAN:	Enabled
Autoconfiguration Type:	SLAAC+RDNSS V
Router Advertisement Lifetime:	minutes
Address Autoconfiguration Settings	_
Enable Automatic IPv6 Address Assignment:	Enabled
Enable Automatic DHCP-PD in LAN:	Enabled
Autoconfiguration Type:	Stateful DHCPv6
IPv6 Address Range (Start):	fff:: 00 1
IPv6 Address Range (End): t	99 99

Auto Configuration (SLAAC/DHCPv6) (continued)

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

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):**

IPv6 Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Address Autoconfiguration Settings		
Enable Automatic IPv6 Address Assignment:	Enabled	
Autoconfiguration Type:	Stateful DHCPv6	~
IPv6 Address Range (Start):	: mm:: 00	
IPv6 Address Range (End):	: ffff:: 00	
IPv6 Address Lifetime:	10080 minutes	

PPPoE

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

MTU

- **PPPoE Session:** Choose **Share with IPv4** to re-use your IPv4 PPPoE username and password, or **Create a new session**.
- Address Mode Select Static IP if your ISP assigned you an IP address. In most cases, select Dynamic IP.
 - **MTU** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

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

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

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

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

- **Username:** Enter the username provided by your ISP.
- **Password:** Enter the password provided by your ISP.
- Address Mode: Select either Dynamic IP or Static IP.
- Service Name: Enter the ISP service name (optional).

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

D-Link DIR-867 HW:A1 FW:1.00	Home		Settings	Features	Management
IP	v6				
All of	your IPv6 Internet and	network conn	ection details are disp	olayed on this page.	
Settings >> Internet >> IPv6			VLAN	IPv4	Save
Settings >> Internet >> IPv6	nternet Connection is:	PPPoE	VLAN	IPv4	Save
	nternet Connection is:	PPPoE Share with IF			Save
				~	Save

PPPoE Session:	Share with IPv4	/
Address Mode:	Static IP	
IP Address:		
MTU:	1492 bytes	

PPPoE Session:	Create a new session
Username:	
Password:	
·	
Address Mode:	Dynamic IP
Service Name:	
Reconnect Mode:	Always on 🗸
MTU:	1492 bytes

PPPoE (continued)

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

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

- IP Address Enter the IP address provided by your ISP
- Service Name Enter the ISP service name (optional).
- **Reconnect Mode** Select either **Always-on** or **Manual**.
 - **MTU** Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

IPv6 DNS Settings

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

If Use the following DNS address is selected:

- Primary DNS Enter the primary DNS server address. Server:
- Secondary DNS Enter the secondary DNS server address. Server:

LAN IPv6 Address Settings

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

LAN IPv6 Address Settings	
Enable DHCP-PD: Enabled	
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
	Advanced Settings

Address Mode:	Static IP	\sim
IP Address:		
Service Name:		
Reconnect Mode:	Always on	\sim
MTU:	1492 bytes	

IPv6 DNS Settings		
DNS T	obtain a DNS server address automatically	\sim

IPv6 DNS Settings	
DNS Type:	Use the following DNS address
Primary DNS Server:	
Secondary DNS Server:	

PPPoE (continued)

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

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

- LAN IPv6 Address: If DHCP-PD disabled or static address mode is selected, enter the LAN (local) IPv6 address for the router.
 - LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Advanced Settings - Address Autoconfiguration Settings

- Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. IPv6 Address Assignment:
- If DHCP-PD is enabled in LAN IPv6 Address Settings:
- **Enable Automatic** DHCP-PD in LAN: Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. *Note:* This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.
- Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6. Type:

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

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

LAN IPv6 Address Settings	
Enable DHCP-PD: Disabled	
LAN IPv6 Address:	/64
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
	Advanced Settings

DRESS AUTOCONFIGURATION SETTINGS	
Enable Automatic IPv6 Address Assignment:	Enabled
Enable Automatic DHCP-PD in LAN:	Enabled
Autoconfiguration Type:	SLAAC+Stateless DHCP V
Router Advertisement Lifetime:	minutes
DDRESS AUTOCONFIGURATION SETTINGS	
DDRESS AUTOCONFIGURATION SETTINGS Enable Automatic IPv6 Address Assignment:	Enabled
	Enabled
Enable Automatic IPv6 Address Assignment: Enable Automatic DHCP-PD in LAN:	Enabled

PPPoE (continued)

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



Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Autoconfiguration Type:	Stateful DHCPv6
IPv6 Address Range (Start):	rm:: 00
IPv6 Address Range (End):	fff:: 00
IPv6 Address Lifetime:	10080 minutes

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):**

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

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):**

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

IPv6 in IPv4 Tunnel

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

- Remote IPv4 Enter the IPv4 remote address you will use. Address:
- **Remote IPv6** Enter the IPv6 remote address you will use. Address:
 - Local IPv4 Displays the current local IPv4 address. Address:
 - **Local IPv6** Enter the IPv6 local address you will use. Address:
- Subnet Prefix Enter the subnet prefix length supplied by your ISP. Length:

IPv6 DNS Settings

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

If Use the following DNS address is selected:

Primary DNS Enter the primary DNS server address. Server:

Secondary DNS Enter the secondary DNS server address. Server:

D-Link DIR-867 HW:A1 FW:1.00	1	Home		Settings	Features	Management
	IPv6					
6	All of your IPv6 Internet	t and networl	k connect	ion details are disp	layed on this page.	
Settings >> Internet >>	IPv6			VLAN	IPv4	Save
	My Internet Connectio	n is: IPV6 I	n IPV4 tu	nnel	~	
	Remote IPv4 Addr	ess:				
	Remote IPv6 Addr	ess:				
	Remote IPv6 Addr Local IPv4 Addr		5.33			
		ess: 172.17.	5.33			

DNS Type:	Obtain a DNS server address automatically

IPv6 DNS Settings

IPv6 DNS Settings		
DNS Type:	Use the following DNS address	
Primary DNS Server:		
Secondary DNS Server:		

IPv6 in IPv4 Tunnel (continued)

LAN IPv6 Address Settings

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

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

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

- LAN IPv6 Address: If DHCP-PD disabled or static address mode is selected, enter the LAN (local) IPv6 address for the router.
 - LAN IPv6 Link- Displays the router's LAN link-local address. Local Address:

Advanced Settings - Address Autoconfiguration Settings

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

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

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

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

LAN IPv6 Address Settings	
Enable DHCP-PD: Enabled	
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
Advanced Settings.	

LAN IPv6 Address Settings	
Enable DHCP-PD: Disabled	
LAN IPv6 Address:	/64
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f;fefa	
	Advanced Settings

ADDRESS AUTOCONFIGURATION SETTINGS	
Enable Automatic IPv6 Address Assignment:	Enabled
Enable Automatic DHCP-PD in LAN:	Enabled
Autoconfiguration Type:	SLAAC+Stateless DHCP V
Router Advertisement Lifetime:	minutes

IPv6 in IPv4 Tunnel (continued)

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

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

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

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):**

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

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):**

IPv6 Enter the IPv6 address lifetime (in minutes).

Lifetime:

ADDRESS AUTOCONFIGURATION SETTINGS
Enable Automatic IPv6 Address Assignment: Enabled
Enable Automatic DHCP-PD in LAN: Enabled
Autoconfiguration Type: SLAAC+RDNSS V
Router Advertisement Lifetime: minutes
Address Autoconfiguration Settings
Enable Automatic IPv6 Address Assignment: Enabled
Enable Automatic DHCP-PD in LAN: Enabled
Autoconfiguration Type: Stateful DHCPv6
IPv6 Address Range (Start): fff:: 00 1
IPv6 Address Range (End): ffff:: 00 99

Address Autoconfiguration Settings		
Enable Automatic IPv6 Address Assignment:	Enabled	
Autoconfiguration Type:	Stateful DHCPv6	
IPv6 Address Range (Start):	mm:: 00	
IPv6 Address Range (End):	ffff:: 00	
IPv6 Address Lifetime:	10080 minutes	

6to4

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

6to4 Address: Displays the 6 to 4 address.

- 6to4 Relay: Enter the 6 to 4 relay supplied by your ISP.
- **Primary DNS** Enter the primary DNS server address. **Server:**
- Secondary DNS Enter the secondary DNS server address. Server:

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-867 HW:A1 FW:1.00	Home		Settings	Features	Management
	IPv6				
6	All of your IPv6 Internet and r	network connection	on details are dis	played on this page.	
Settings >> Internet >> IP	v6		VLAN	IPv4	Save
	My Internet Connection is:	6to4		~	
	6to4 Address: 2	002:ac11:521::1			
	6to4 Relay:	192.88.99.1]	
	Primary DNS Server:				
	-				
	Secondary DNS Server:				
LAN IPv6 Address Setting					
LAN IPv6 Address Setting		002:ac11:521::		/64	

6to4 (continued)

Advanced Settings - Address Autoconfiguration Settings

- Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. IPv6 Address Assignment:
- Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6. Type:

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

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):**

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

Enabled
SLAAC+RDNSS V
30 minutes
Enabled
Enabled SLAAC+Stateless DHCP V

ddress Autoconfiguration Settings
Enable Automatic IPv6 Address Assignment: Enabled
Autoconfiguration Type: Stateful DHCPv6
IPv6 Address Range (Start): ffff:: 00
IPv6 Address Range (End): fff:: 00
IPv6 Address Lifetime: 10800 minutes

6rd

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

Assign IPv6 Prefix: Currently unsupported.

- Primary DNS Enter the primary DNS server address. Server:
- Secondary DNS Enter the secondary DNS server address. Server:

6rd Manual Configuration

- **Enable Hub and** Enable if you want to minimize the number of routes to the destination **Spoke Mode:** by using a hub and spoke method of networking.
- **6rd Configuration:** Choose the **6rd DHCPv4 Option** to automatically discover and populate the data values, or **Manual Configuration** to enter the settings yourself.

If you selected Manual configuration

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

WAN IPv4 Address Displays the router's IPv4 address.

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

LAN IPv6 Address Settings

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

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

D-Link DIR-867 HW:A1 FW:1.00	Home		Settings	Features	Management
IF	Pv6				
All	of your IPv6 Internet and ne	twork connec	ion details are displa	ayed on this page.	
Settings >> Internet >> IPv6			VLAN	IPv4	Save
M	Internet Connection is: 6	rd		~	
	Assign IPv6 Prefix: No	t Available			
	Primary DNS Server:				
	20 L				

6rd Manual Configuration				
Enable Hub and Spoke Mode:	Enabled			
6rd Configuration:	6rd DHCPv4 Option			

ſ	6rd Manual Configuration
	Enable Hub and Spoke Mode: Enabled
	6rd Configuration: Manual Configuration
	6rd IPv6 Prefix: /
	WAN IPv4 Address: 172.17.5.33 /
	6rd Border Relay IPv4 Address:

LAN IPv6 Address Settings	
LAN IPv6 Address: Not Available	
LAN IPv6 Link-Local Address: fe80::8226:89ff:fe5f:fefa	
	Advanced Settings

6rd (continued)

Advanced Settings - Address Autoconfiguration Settings

- Enable Automatic Enable or disable the Automatic IPv6 Address Assignment feature. IPv6 Address Assignment:
- Autoconfiguration Select SLAAC+RDNSS, SLAAC+Stateless DHCP, or Stateful DHCPv6. Type:

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

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

- **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):**

IPv6 Enter the IPv6 address lifetime (in minutes).

Advertisement

Lifetime:

Click	Save	when	vou are	e done.
CIICIN		vviicii.	,00 01	c donc.

Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Autoconfiguration Type:	SLAAC+RDNSS V
Router Advertisement Lifetime:	30 minutes
Address Autoconfiguration Settings	
Address Autoconfiguration Settings Enable Automatic IPv6 Address Assignment:	Enabled

Address Autoconfiguration Settings	
Enable Automatic IPv6 Address Assignment:	Enabled
Autoconfiguration Type:	Stateful DHCPv6
IPv6 Address Range (Start):	fff:: 00
IPv6 Address Range (End):	mm:: 00
IPv6 Address Lifetime:	10800 minutes

Local Connectivity Only

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

Advanced Settings

IPv6 ULA Settings

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

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

If you selected Enable ULA and disabled Default ULA Prefix:

ULA Prefix: Enter your own ULA prefix.

Current IPv6 ULA Settings

Current ULA	Displays the current ULA prefix.
Prefix:	

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

IPv6 All of your IPv8 Internet and network connection details are displayed on this page. Settings >> Internet >> IPv6		> IPv6		VLAN	IPv4	Save
All of your IPv6 Internet and network connection details are displayed on this page.						
	6	IPv6 All of your IPv6 Intern	net and network co	onnection details are displa	yed on this page.	

IPv6 ULA Settings	
Enable ULA	Enabled
Use Default ULA Prefix	Enabled

IPv6 ULA Settings	
Enable ULA: Enabled	
Use Default ULA Prefix: Disabled	
ULA Prefix:	/64

Current IPv6 ULA Settings	
Current ULA Prefix: Not Available	
LAN IPv6 ULA: Not Available	

VLAN

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

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

Triple-Play

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

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

If Status is enabled:

- Internet VLAN ID Enter the VLAN ID for your Internet connection as provided by your ISP.
 - **IPTV VLAN ID** Enter the VLAN ID for your digital cable as provided by your ISP.
 - **VOIP VLAN ID:** Enter the VLAN ID for your Voice over IP network as provided by your ISP.

If Priority ID is enabled:

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

D-Link DIR-867 HW:A1 FW:1.00	Hom	÷	Settings	Features	Management
	Internet				
	A Triple-Play (VLAN) is a sv application, without regard t be assigned to a VLAN, and devices in the same VLAN.	o the physical lo	cation of the users. Ye	ou can configure whic	h hardware port will
Settings >> Internet >>	> VLAN		IPv6	IPv4	Save
Triple-Play					
	Status:	Enabled			
	Priority ID:	Enabled			
	Internet VLAN ID:			Priority ID:	0 ~
	IPTV VLAN ID:			Priority ID:	0 ~
	VOIP VLAN ID:			Priority ID:	0 🗸
Interface Traffic Type S	etting				
	LAN Port 1	Internet	~		
	LAN Port 2	Internet	~		

Interface Traffic Type Setting

LAN 1-4, Wireless, Guest Zone: From the drop-down menu, you can select the type of data (Internet, digital cable, or Voice over IP) coming from the WAN connection to each interface on the DIR-867.

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

Wireless

From this page you can configure your wireless network settings.

Smart Connect

- **Smart Connect:** Enable or disable the Smart Connect Feature. When enabled, only a few configuration options are available to simplify configuration.
- Wi-Fi Name (SSID): Create a name for your wireless network using up to 32 characters.
 - **Password:** Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the network.

Advanced Settings

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

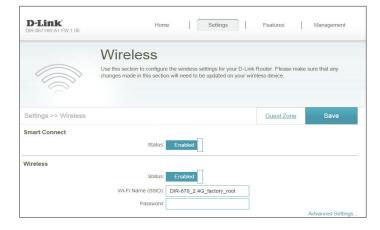
- Transmission Select the desired wireless transmission power. Power:
 - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **74** for more information.

Wi-Fi Protected Setup

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

- WPS-PBC Status: Enable or disable WPS-PBC fuctionality.
- WPS-PIN Status: Enable or disable WPS-PIN fuctionality.

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



Security Mode:	None	\sim
Transmission Power:	High	\sim
Schedule:	Always Enable	\sim

Wi-Fi Protected Setup	
WPS-PBC Status:	Enabled
WPS-PIN Status:	Enabled

Wireless - Smart Connect Disabled

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

2.4GHz / 5GHz

- Status: Enable or disable the 2.4 GHz / 5 GHz wireless network.
- Wi-Fi Name (SSID): Create a name for your wireless network using up to 32 characters.
 - **Password:** Create a password to use for wireless security.

Advanced Settings

- Security Mode: Choose None or WPA/WPA2-Personal (recommended).
 - 802.11 Mode Select the desired wireless networking standards to use.
 (2.4 GHz): The available options for the 2.4 GHz wireless network are Mixed
 802.11b/g/n, Mixed 802.11g/n, 802.11n only.
 - 802.11 Mode Select the desired wireless networking standards to use.
 (5 GHz): The available options for the 5 GHz wireless network are Mixed 802.11a/n/ac, Mixed 802.11n/ac, 802.11ac only, Mixed 802.11a/n, Mixed 802.11n only, or 802.11a only.
- Wi-Fi Channel: Select the desired channel. The default is Auto (recommended).
- Transmission Select the desired wireless transmission power. Power:
- 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, select Auto 20/40 if you are using 802.11n and 802.11a devices, or select 20 MHz if you are only using 802.11a devices.

Smart Connect	
Status:	Disabled
2.4GHz	
Status:	Enabled
Wi-Fi Name (SSID):	DIR-878_2.4G_factory_root
Password:	
	Advanced Settings
Security Mode:	None
802.11 Mode:	Mixed 802.11b/g/n
Wi-Fi Channel:	6 🗸
Transmission Power:	High 🗸
Channel Width:	Auto 20/40 MHz 🗸
HT20/40 Coexistence:	Disabled
Visibility Status:	Visible 🗸
Schedule:	Always Enable
5GHz	
Status:	Disabled
Wi-Fi Name (SSID):	DIR-878_5G_factory_root
Password:	
	Advanced Settings
Security Mode:	None
802.11 Mode:	Mixed 802.11a/n/ac
Wi-Fi Channel:	Auto
Transmission Power:	High
Channel Width:	Auto 20/40/80 MHz
Visibility Status:	Visible
Schedule:	Always Enable

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

- Visibility Status: The default setting is Visible. Select Invisible if you do not want to broadcast the SSID of your wireless network.
 - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **74** for more information.

Wi-Fi Protected Setup

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

- **WPS-PBC Status:** Enable or disable WPS-PBC fuctionality.
- WPS-PIN Status: Enable or disable WPS-PIN fuctionality.

Smart Connect	
Status:	Disabled
2.4GHz	
Status:	Enabled
Wi-Fi Name (SSID):	DIR-878_2.4G_factory_root
Password:	
	Advanced Settings
Security Mode:	None
802.11 Mode:	Mixed 802.11b/g/n
Wi-Fi Channel:	6 ~
Transmission Power:	High 🗸
Channel Width:	Auto 20/40 MHz 🗸
HT20/40 Coexistence:	Disabled
Visibility Status:	Visible
Schedule:	Always Enable 🗸

Wi-Fi Protected Setup	
	WPS-PBC Status: Enabled
	WPS-PIN Status: Enabled

Guest Zone

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

Note: If Smart Connect is enabled, Guest Zone is unavailable.

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

2.4 GHz / 5 GHz

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

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

Password: Create a password to use for wireless security.

Home Network Access

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

D-Link DIR-867 HW:A1 FW:1.00	Home	• [Settings]	Features	I	Management
	Guest Zor	e					
	This page lets you enable ar communicate or detect devic Network Access.						
Settings >> Wireless >>	⊳ Guest Zone				<u>Wi-Fi</u>		Save
2.4GHz							
	Status:	Enabled					
	Wi-Fi Name (SSID):	DIR-878_2.	4G_factory_vap	1			
	Password:						
5GHz							
	Status:	Enabled					
	Wi-Fi Name (SSID):	DIR-878_50	G_factory_vap1				
	Password:						
Home Network Access							
	Internet Access Only:	Enabled					

Network

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

Network Settings

- LAN IP Address: Enter the IP address of the router. The default IP address is **192.168.0.1**. If you change the IP address, once you click **Save**, you will need to enter the new IP address in your browser to get back into the configuration utility.
 - Subnet Mask: Enter the subnet mask of the router. The default subnet mask is 255.255.255.0.
 - ManagementThe default address to access the router's configuration isLink: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.

D-Link DIR-867 HW:A1 FW:1.00	Home Settings Feature	es Anagement
	Network	
	Use this section to configure the network settings for your device. You can the management link field, and use the link to access web UI in a web brows the management link if there are more than one D-Link devices within the network devices within the network of the section o	ser. We recommend you change
Settings >> Network		Save
Network Settings		
	LAN IP Address: 192.168.0.1	
	Subnet Mask: 255.255.255.0	
	Management Link: http:// dlinkrouter .local/	
	Local Domain Name:	
	Enable DNS Relay: Enabled	
		Advanced Settings

Network (continued)

DHCP Server

Status: Enable or disable the DHCP 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.

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

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

Advanced Settings

- WAN Port Speed: You may set the port speed of the Internet port to 10 Mbps, 100 Mbps, 100 Mbps, or Auto (recommended).
 - **UPnP:** Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software, and peripherals.
 - IPv4 Multicast Enable to allow IPv4 multicast traffic to pass through the router from Stream: the Internet.
 - IPv6 Multicast Enable to allow IPv6 multicast traffic to pass through the router from Stream: the Internet.

Features QoS Engine

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

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

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

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

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

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

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

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

005	Engin	0					
	ients can be assign		et access priori	v. Click and	drag client	cards ir	nto open slots.
OOO				,			
dvanced >> QoS Engine						1	Save
dvanced >> QoS Engine	speed (Mbps): 30	0		0			Save

OC247PCWIN7 HON HAI PRECISIO 192.158.0.118
Linbort Linb Modium

Firewall Settings

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

- **Enable DMZ:** Enable or disable Demilitarized Zone (DMZ). This completely exposes the client to threats over the Internet, and is not recommended in ordinary situations.
- **DMZ IP Address:** If you enabled DMZ, enter the IP address of the client you wish to expose, or use the drop-down menu to quickly select it.
- **Enable SPI IPv4:** Enabling Stateful Packet Inspection (SPI) helps to prevent cyber attacks by validating that the traffic passing through the session conforms to the protocol.
- Enable Anti-Spoof Enable this feature to protect your network from certain kinds of Checking: "spoofing" attacks.
 - IPv6 Simple Enable or disable IPv6 simple security. Security:
 - IPv6 Ingress Enable or disable IPv6 ingress filtering. Filtering:

D-Link DIR-867 HW:A1 FW:1.00	Home	1	Settings		Features	Management
Your	rewall Set	irewall feat	ure continuously	monit	ors Internet traffic,	protecting your network
Advanced >> Firewall Settings	>> Advanced		IPv4 Rule	S	IPv6 Rules	Save
	Enable DMZ:	nabled]			
	DMZ IP Address:				<< Computer Name	e 🗸
	Enable SPI IPv4:	nabled				
Enable	Anti-spoof Checking:	nabled]			
1	IPv6 Simple Security:	nabled]			
i	Pv6 Ingress Filtering:	nabled]			
						Advanced Settings

Firewall Settings (continued)

Advanced Settings - Application Level Gateway (ALG) Configuration

- **PPTP:** Allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.
- **IPSec (VPN):** Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.
 - **RTSP:** Allows applications that uses Real Time Streaming Protocol (RTSP) to receive streaming media from the Internet.
 - SIP: Allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Application Level Gateway (ALG) Configuration	
PPTP:	Enabled
IPSec (VPN):	Enabled
RTSP:	Enabled
SIP:	Enabled

IPv4/IPv6 Rules

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

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

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

Name: Enter a name for the rule.

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

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

- Protocol & Port Select the protocol of the traffic to allow or deny (Any, TCP, or UDP) Range: and then enter the range of ports that the rule will apply to.
 - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Refer** to **Schedule** on page **74** for more information.



	Create New Rule		×	
	Name:			ecial adjustment
HT	Source IP Address Range:	WAN		
	Destination IP Address Range:	LAN 🗸		
Advanced >>	Protocol & Port Range:	тср 🗸		Save
Turn IPv6 Filte	Schedule:	Always Enable		
Nat		Apply		

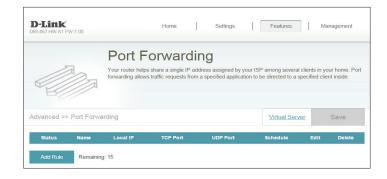
Port Forwarding

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

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

Name: Enter a name for the rule.

- Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- **TCP Port:** Enter the TCP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- **UDP Port:** Enter the UDP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to **Schedule** on page **74** for more information.





Virtual Server

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

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

- Name: Enter a name for the rule. Alternatively, select the protocol/Application from the drop-down menu.
- Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- Protocol: Select the protocol of the traffic to allow or deny (TCP, UDP, Both, or Other).
- Protocol Number: If you entered Other above, enter the protocol number.
 - External Port: Enter the public port you want to open.
 - Internal Port: Enter the private port you want to open.
 - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to Always Enable, or you can create your own schedules in the Schedules section. Refer to Schedule on page 74 for more information.





Website Filter

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

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

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

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

D-Link DIR-867 HW:A1 FW:1.00	Home Settings Features Management
	Website Filter
	The website filters feature allows rules to be set that restrict access to a specified web address (URL) or blocks specified keywords in the URL. You can use Website Filter to restrict access to potentially harmfu and inappropriate websites.
Advanced >> Website	Pilter Save
DENY clients access to O	NLY these sites
	INCT DIESE SILES
	Website URL/Domain Delete
	Website URL/Domain Delete

Static Routes

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

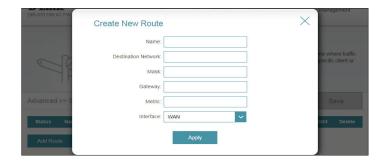
In the Features menu on the bar on the top of the page, click **Static Routes**. To configure IPv6 rules, click **IPv6** and refer to **IPv6** on page **68**. To return to the main IPv4 static routes page, click **IPv4**.

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

Name: Enter a name for the rule.

- **Destination** Enter the IP address of packets that will take this route. **Network:**
 - Mask: Enter the subnet mask of the route.
 - **Gateway:** Enter your next hop gateway to be taken if this route is used.
 - Metric: The route metric is a value from 1 to 16 that indicates the cost of using this route. A value of 1 is the lowest cost and 15 is the highest cost.
 - **Interface:** Select the interface that the IP packet must use to transit out of the router when this route is used.

	Static Ro	utes					
R	Once connected to the Intershould be sent. Static rout location.						
dvanced >> Static I	Routes >> IPv4				<u>IPv6</u>	S	ave
Status Name	Destination Network	Mask	Gateway	Metric	Interface	Edit	Dele



IPv6

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

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

Name: Enter a name for the rule.

- **DestNetwork:** This is the IP address of the router used to reach the specified destination.
 - **PrefixLen:** Enter the IPv6 address prefix length of the packets that will take this route.
 - Gateway: Enter your next hop gateway to be taken if this route is used.
 - Metric: Enter the metric value for this rule here.
 - **Interface:** Select the interface that the IP packet must use to transit out of the router when this route is used.

DIR-867 HW:A1 FW:1.00					
	Static	Routes			
R R	should be sent.	to the Internet, your Static routes can ove			
	location.				
Advensed 22 Chefis	Deutee SS IDuC			in.d	0
Advanced >> Static	Routes >> IPv6			IPv4	Save



Dynamic DNS

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

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

- **Enable Dynamic** Enable or disable dynamic DNS. Enabling this feature will reveal **DNS:** further configuration options.
 - Status: Displays the current dynamic DNS connection status.
- Server Address: Enter the address of your dynamic DNS server, or select one from the drop-down menu.
 - **Host Name:** Enter the host name that you registered with your dynamic DNS service provider.
 - User Name: Enter your dynamic DNS username.
 - Password: Enter your dynamic DNS password.
 - Time Out: Enter a timeout time (in hours).
 - Click Save when you are done.

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to **IPv6 Host** on page **70**.

D-Link DIR-867 HW:A1 FW:1:00	Home	e Settings	Features	Management
[]http://Betty.dlink.com/		vice allows your router to associa th the regularly changing IP addre		
Advanced >> Dynamic D	NS			Save
	Enable Dynamic DNS:	Enabled		
	Status: Server Address:	Disconnected dlinkddns.com	dlinkddns.com	~
	Host Name:			
	User Name:			
	Password:			
	Time Out:	24	hours	
Status	Host Name	IPv6 Address	Edit	Delete
Add Record Remaining	r. 10			

IPv6 Host

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

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

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

Chttp://Betty.c	Create New Record		\times	nain name such as Service provider.
NE	Host Name:			
Advanced >> E	Address:	<< Computer Name	~	Save
	At	pply		

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

Quick VPN

This page will help you configure the Quick VPN feature of your router. For more information refer to Quick VPN on page **88**. Before proceeding, ensure that your Internet connection is working properly. We recommend configuring Dynamic DNS before proceeding with Quick VPN setup. If your router is assigned an IP address from your ISP using DHCP, it may frequently change, requiring clients credentials to be set up again and a simple DDNS address will be easier than an IP address.

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

Configure the following options:

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

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

Username: Enter a username between 1 and 20 characters.

Password Enter a username between 1 and 20 characters.

PSK Enter a passkey between 6 and 64 characters.

D-Link DIR-867 HW:A1 FW:1.00	Hom	e	Settings	1	Features	Management
	Quick VPN	V				
	Quickly and easily create a p be used to configure other d					
Features >> Quick VPN					<u>User</u>	Save
General						
	L2TP over IPSec:	Enabled				
	Username:	vpn				
	Password:	vpn				
	PSK:	zqBUb54395				
						Advanced Setting

Quick VPN (continued)

Advanced Settings - Address Autoconfiguration Settings

AuthenticationChoose the authentication protocol type: MSCHAPv2, PAP, or CHAP.Protocol:MSCHAPv2 is the default.

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

Advanced		
Authentication Protocol:	MSCHAPv2	~
MPPE:	RC4-40	\sim

Management Time & Schedule Time

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

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

Time Configuration

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

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

Enable Daylight Enable or disable daylight saving time. Saving:

Automatic Time Configuration

Update TimeEnable or disable to allow an NTP server on the Internet to synchronizeUsing an NTPthe time and date with your router. If you enable this option, selectServer:an NTP server from the drop-down menu. To configure the router'stime and date manually, disable this option and use the drop-down
menus that appear to input the time and date.

Click Save when you are done.

To configure and manage your schedules, click **Schedule** and refer to **Schedule** on page **74**.

D-Link DIR-867 HW:A1 FW:1.00	Home	I	Settings	I	Features	Management
Т	me					
	router's internal clock is hronized with a public tim					date and time can be
Management >> System Time	9				Schedule	Save
Time Configuration						
	Time Zone: (GMT) Greer	wich Mean Ti	me : Dubl	in, Edinburgh, Lisb	on, 🗸 🗸
	Time: 19	70/01/03 01	:10:18 AM			
E	nable Daylight Saving:	Enabled				
Automatic Time Configuration						
Update Time	Using an NTP Server:	Enabled				
	NTP Server:	D-Link NTP	Server		D-Link NTP Serve	r 🗸
	COP	YRIGHT © 201	6 D-Link			

Automatic Time Configuration			
Update Time Using an NTP Server:	Enabled		
NTP Server:	D-Link NTP Server	D-Link NTP Server	\sim

Automatic Time Configuration	
Update Time Using an N	TP Server: Disabled
Manual Time Configuration	
	Date: 2017 V 03 V 15 V (Year/ Month/ Day)

Schedule

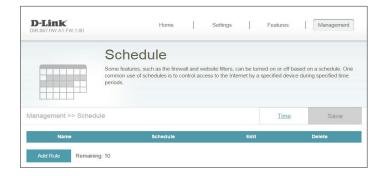
Some router functions can be controlled through a pre-configured schedule. To create, edit, or delete schedules, from the Time page click **Schedule**. To return to the Time page, click **Time**.

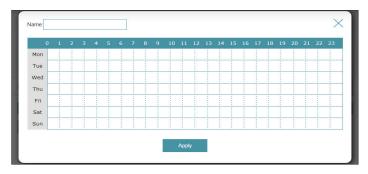
If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done. If you edit or create a rule, the following screen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

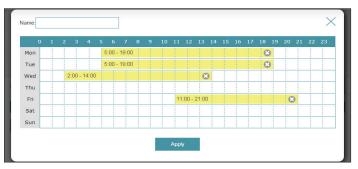
First, enter the name of your schedule in the Name field.

Each box represents one hour, with the time at the top of each column. To add a time period to the schedule, simply click on the starting hour and drag to the ending hour. You can add multiple days to the schedule, but only one period per day.

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







System Log

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

Log Settings

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

SysLog Settings

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

If Logging to the Syslog Server is Enabled:

Syslog Server IPEnter the IP address for the Syslog server. If the Syslog server is
connected to the extender, select it from the drop-down menu to
automatically populate the field.

Email Settings

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

If E-mail notification is **Enabled**:

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

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

SMTP Server Enter your SMTP server address. Address:

Management >> System Log					Save
	orded in the system tomer Support resc		can be used to	diagnose common p	roblems or help
: On-	board diagnostics r	un continually		the health of your rou	
S	ystem	Log			

SysLog Settings		
Enable Logging to Syslog Server:	Enabled	
SysLog Server IP Address:		<< Computer Name
E-mail Settings		
Enable E-mail Notification:	Enabled	
From E-mail Address:		
To E-mail Address:		
SMTP Server Address:		
SMTP Server Port:		
Enable Authentication:	Enabled	
Account Name:		
Password:		
E-mail Log When Full or On Schedule		
Send When Log Full:	Enabled	
Send on Schedule:	Enabled	
Schedule:	Always Enable	

System Log (continued)

SMTP Server Port: Enter your SMTP server port.

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

Account Name: Enter your SMTP account name.

Password: Enter your SMTP account's password

E-mail Log When Full or On Schedule

- Send When Log If enabled, this option will set the router to send the log when it is full. Full:
- Send on Schedule: If enabled, this option will set the router to send according to a set schedule.
 - Schedule: If you enable Send On Schedule, use the drop-down menu to select a schedule to apply. The schedule may be set to Always Enable, or you can create your own schedules in the Schedules section. Refer to Schedule on page 74 for more information.

SysLog Settings	
Enable Logging to Syslog Server:	Enabled
SysLog Server IP Address:	<< Computer Name
E-mail Settings	
Enable E-mail Notification:	Enabled
From E-mail Address:	
To E-mail Address:	
SMTP Server Address:	
SMTP Server Port:	
Enable Authentication:	Enabled
Account Name:	
Password:	
E-mail Log When Full or On Schedule	
Send When Log Full:	Enabled
Send on Schedule:	Enabled
Schedule:	Always Enable

System Admin

This page will allow you to change the administrator (Admin) password and enable remote management. In the Management menu on the bar on the top of the page, click **Admin**. To load, save, reset settings, or reboot the router, click **System** and refer to **Schedule** on page **74**.

Admin Password

- **Password:** Enter a new password for the administrator account. You will need to enter this password whenever you configure the router using a web browser.
- Enable Graphical Authentication (CAPTCHA):Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.

Advanced Settings - Administration

- Enable HTTPS
 Check to enable HTTPS to connect to the router securely. Instead of using
 Server: http://dlinkrouter.local./, you must use https://dlinkrouter.local./ in order to connect to the router.
- **Enable Remote** Management: Remote management allows the DIR-867 to be configured from the Internet by a web browser. A password is still required to access the web management interface.
- Remote Admin The port number used to access the DIR-867 is used in the URL. Example:
 Port: http://x.x.x.8080 where x.x.x. is the Internet IP address of the DIR-867 and 8080 is the port used for the web management interface.
 Note: If you enabled Use HTTPS and wish to access the router remotely and securely, you must enter https:// at the beginning of the address.

D-Link DIR-867 HW:A1 FW:1.00	Home	Settings	5	Features	Management
The	dmin e admin account can change ount a strong password.	all router settings. To	keep your rout	er secure, you sh	ould give the admin
Management >> Admin				System	Save
Admin Password Enable Graphical Aut		Enabled			Advanced Settings.
Administration		Enabled Enabled	Use HTTPS	Enabled	
	COPYF	NGHT @ 2016 D-Link			

System

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

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

System



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

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

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

Auto Reboot Configuration

- **Reboot The** Click to reboot the router immediately. **Device:**
- Auto Reboot: You may set the DIR-867 to automatically reboot at a set time. The options are Never, Daily, Weekly. You may set the hour using a 24 hour format, the minute, and the day you wish to have the DIR-867 automatically reboot.

D-Link DIR-867 HW:A1 FW:1.00	Home	Settings	5 F	eatures	Management
Sy	/stem				
router	age lets you save your rou to factory default settings, Its will erase all settings, ind	or reboot the device.	Please note that		
Management >> System				Admin	Save
System					
Save Settings	To Local Hard Drive:	Save			
Load Settings Fr	om Local Hard Drive:	Select File			



Auto Reboot Configuration				
	Reboot The Device:		Reboot	
	Auto Reboot:	Daily	\sim	
	Time:	00	✓ 0	00



Upgrade

This page will allow you to upgrade the router's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from **http://support. dlink.com**.

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

Firmware Information

- **Current Firmware** The current firmware's version and date will be displayed. **Version/Date :**
 - **Check for New** Click this button to prompt the router to automatically check for a new **Firmware:** firmware version. If a newer version is found, it will prompt you to install it.

Upgrade Manually

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

D-Link DIR-867 HW:A1 FW:1.00	Home Settings Features Management
	Upgrade
EINI ST	Your router can automatically detect firmware updates, but requires your authorization to install them. It is also possible to check for new firmware manually, upgrade firmware from a local file.
FW	Firmware may use code that is subject to the GPL licenses. For more information, visit http://tsd.dlink.com.tw/GPL.asp.
Management >> Upgr	ade
Firmware Information	
	Current Firmware Version: 1.00
	Current Firmware Date: 2017-02-15 21:05:39
	Check for New Firmware
Upgrade Manually	
	Upgrade Firmware: Select File
	COPYRIGHT © 2016 D-Link

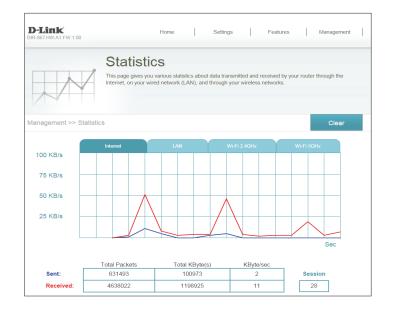
Statistics

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

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

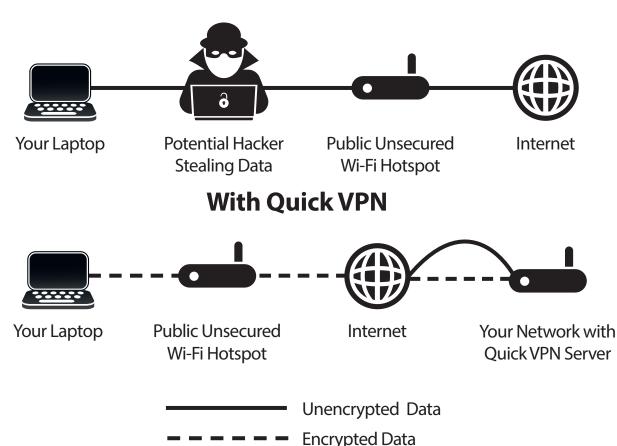
You can view the **Internet**, **LAN**, **Wi-Fi 2.4 GHz**, or **Wi-Fi 5 GHz** by clicking on the respective tabs at the top. The graph will update in real time. To clear the information on the graph, click **Clear**.

The traffic counter will reset if the device is rebooted.



Quick VPN

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



Without Quick VPN

Important Information

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

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

Quick VPN Server Setup Instructions

Configure the following options:

- L2TP over IPSec: Enable or disable the Quick VPN server.
- If you enable **Quick VPN**, the following options are available:
 - Username: Enter a username between 1 and 20 characters
 - **Password:** Enter a password between 1 and 20 characters.
 - **PSK:** Enter a passkey between 6 and 64 characters.
 - AuthenticationChoose the authentication protocol type: MSCHAPv2, PAP, or CHAP.Protocol:MSCHAPv2 is the default.
 - MPPE: Select the encryption cipher strength: **none**, **RC4-40**, or **RC4-128**. **RC4-128** is the default.

Click **Save** when you are done.

	Quick VPI	V		
		profile for secure remote access to a levices to connect to your LAN via a		(LAN). This profile o
Features >> Quick VPN			User	Save
General				
	L2TP over IPSec:	Enabled		
	Username:	vpn		
	Password:	vpn		
	PSK:	zqBUb54395		
				Advanced Setting

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

iOS Devices VPN Setup Instructions

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

Open the e-mail containing your Quick VPN profile.

Open the attachment.





Enter your device's passcode when prompted.

VPN Setup Instructions (Continued)

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

The network traffic of your iPad may be secured, filtered, or monitored by a VPN server.

Warning

UNSIGNED PROFILE

Cancel

VPN

The profile is not signed.

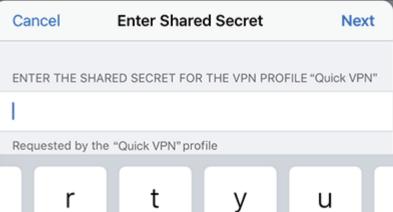
		Install Profile	
	I	Enter Passcod	e Cancel
	E	nter your passcoo	le
Signed by	_		_
Description			
Contains			
More Details	1	<u>2</u> авс	3 Def

Install

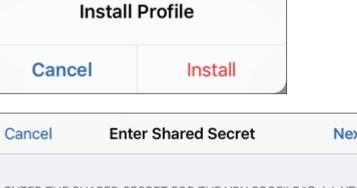
Acknowledge the disclaimer by tapping **Install** in the upper right hand corner. Tap the red **Install** button.

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

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



	Profile Installed	Done
	Quick VPN	
Signed by	Not Signed	
Description	D-Link Quick VPN Profile	
Contains	VPN Settings	
More Detai	s	>



Connect or Disconnect

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

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





Mac OS X VPN Setup Instructions

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

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

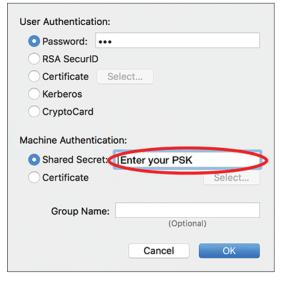
Enter your user account password when prompted. Close the **Profiles** dialog.

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



	Location:	Automatic		0
• Wi-Fi Connected		Status:	Not Connected	
• USB 10/00 LAN Not Connected	$\langle \cdots \rangle$	Configuration:	Default	0
Bluetooth PAN Not Connected	8		IP/DNS Address of Your Quick VPN Us	
Thundet Bridge Not Connected	$\langle \cdots \rangle$	Account Name.	Authentication Set	
Quick VPN Not Connected		Show VPN status in	Connect	Advanced
+ - *				

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



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

Connect or Disconnect

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

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





Windows 7 VPN Setup Instructions

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

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

Control Panel (1)	
Set up a virtual private network (VP	N) connection
₽ See more results	
vpn ×	Shut down 🔸
All Programs	Theip and support
Search programs and files	Shut down 🕨
📀 🤗 😭 🥖	

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

😋 🌆 Connect to a Workpla	ice
Type the Internet a	ddress to connect to
	tor can give you this address.
Internet address:	enter your IP or DDNS address here
Destination name:	Quick VPN Connection
🔲 Use a smart card	
	le to use this connection rs anyone with access to this computer to use this connection.
📝 Don't connect no	w; just set it up so I can connect later
	Next Cancel

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



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

Connect to a Workplace		
Type your user name	and password	
User name:	Enter your username	
Password:		
	Show characters	
	Remember this password	
Domain (optional):		
		Create Cancel

Control Panel (6)
View network connections
₽ See more results
view network connections × Shut down >
😰 🤗 👸 🧷

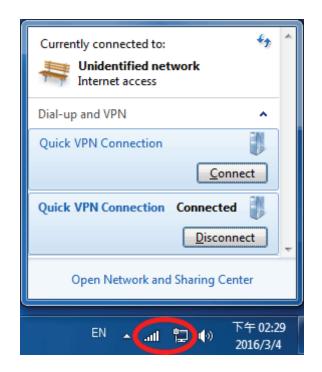
Click Advanced settings. Enter your Passkey in the Key text box under Use preshared key for authentication. Click OK to close Advanced Properties and click OK to close Quick VPN Connection Properties.

QuickVPN Connection Properties				
General Options Security Networking Sharing				
Type of VPN:				
Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)				
Data encryption:				
Require encryption (disconnect if server declines)				
Advanced Properties				
L2TP				
Use preshared key for authentication				
Key: Enter your PSK				
Use certificate for authentication				
Verify the Name and Usage attributes of the server's certificate				
OK Cancel				
OK Cancel				

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

Connect or Disconnect

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



Windows 8.1/8 VPN Setup Instructions

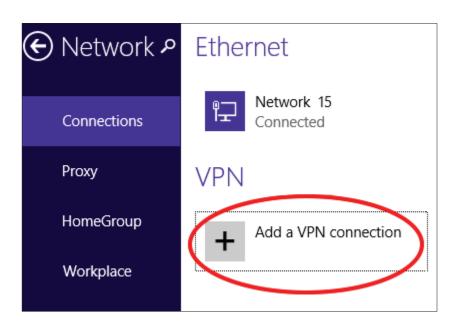
This section provides Quick VPN setup instructions for Windows 8.1/8

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

Select Manage virtual private networks.

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

Sear	ch	
Everywi	here 🗸	
vpn	م	
۵	Manage virtual private networks (VPN)	

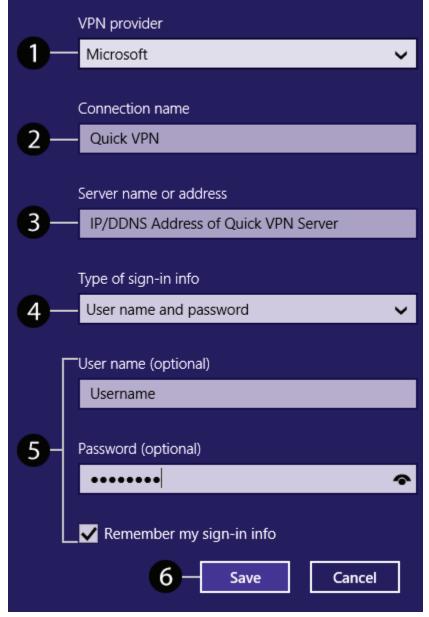


Add a VPN Connection

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

5

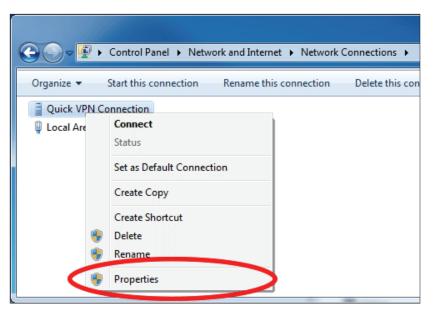
Add a VPN connection



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

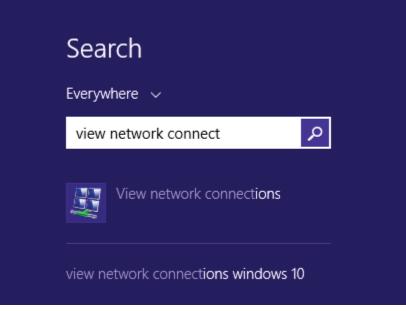
Select the **Security** tab. For the **Type of VPN**, select **Layer 2 Tunneling with IPsec** (L2TP/IPSec).

QuickVPN Connection Properties				
General Options Security Networking Sharing				
Type of VPN:				
Automatic 🔹				
Automatic Point to Point Tunneling Protocol (PPTP)				
Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec) Secure Socket Tunneling Protocol (SSTP) IKEv2				
Authentication				
Use Extensible Authentication Protocol (EAP)				
				



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

Select View network connections.



Right-click your **Quick VPN Connection** and left-click **Properties**. Select the **Security** tab.

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



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

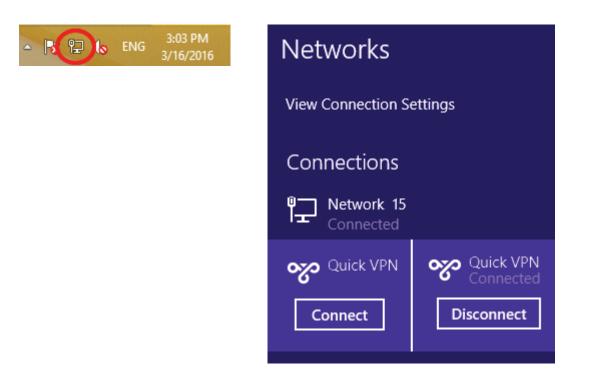
Click OK to close Advanced Properties and click OK to close Quick VPN Properties.

QuickVPN Properties				
General Options Security Networking Sharing				
Type of VPN:				
Layer 2 Tunneling Protocol with IPsec (L2TP/IPsec) V				
Data encryption:				
Optional encryption (connect even if no encryption)				
Authentication				
O Use Extensible Authentication Protocol (EAP)				
Advanced Properties ×				
LZTP				
Use preshared key for authentication				
Key: passkey				
Use certificate for authentication				
✓ <u>V</u> erify the Name and Usage attributes of the server's certificate				
OK Cancel				
OK Cancel				

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

Connect or Disconnect

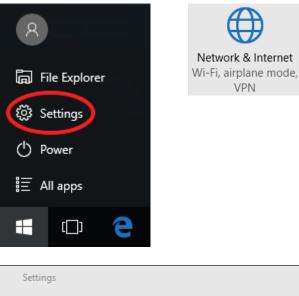
To connect to or disconnect from your Quick VPN server, click on the **Network Settings** icon in the notification area of the Windows taskbar. Click on your Quick VPN connection and click on the **Connect** or **Disconnect** button.



Windows 10 **VPN Setup Instructions**

This section provides Quick VPN setup instructions for Windows 10.

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



 \leftarrow

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Wi-Fi

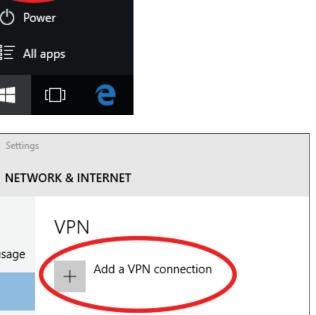
VPN

Dial-up

Ethernet

Proxy

Data usage



VPN Advanced Settings

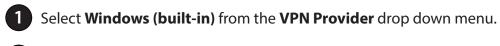
Allow VPN to connect while Roaming

O On

On 🚺

Allow VPN connections over Metered networks

Add a VPN Connection



- Create a name for your VPN connection.
- Enter your **IP/DDNS address** of your Quick VPN server.
- 4 Select L2TP/IPSec with pre-shared key from VPN type.
- Enter the **Passkey.**



Select User name and password from Type of sign-in info.

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

7

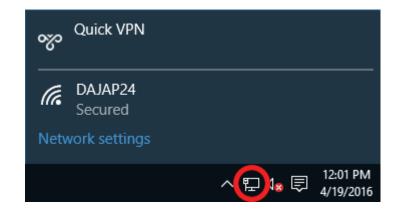
Choose **Save**.

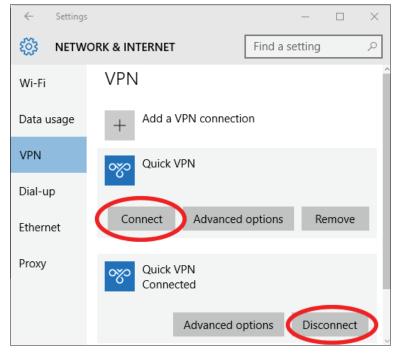
Your Windows 10 system is now configured to connect to your Quick VPN server.

Add a VPN connection VPN provider 1 Windows (built-in) Connection name 2 Quick VPN Server name or address 3 IP/DDNS Address of Quick VPN Server VPN type 4 L2TP/IPsec with pre-shared key Pre-shared key 5 Passkey Type of sign-in info User name and password User name (optional) 6 Username Password (optional) Remember my sign-in info Save Cancel

Connect or Disconnect

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



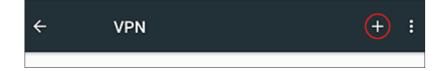


Android VPN Setup Instructions

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

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

Settings	Settings	ୟ : More	:
	Wireless & networks	Airplane mode	
	Wi-Fi Bluetooth	NFC Allow data exchange when the tablet touches another device	
	O Data usage More Device	Android Beam Ready to transmit app content via NFC	
		VPN	



Edit VPN Profile

1

Enter a name for your VPN connection.

2 Select L2TP/IPSec PSK for Type.



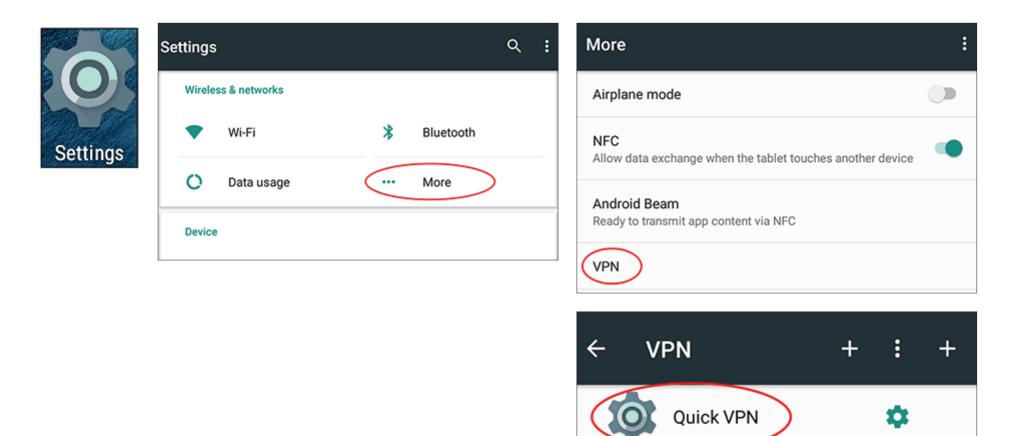
- 4 Enter your **Passkey** in **IPSec pre-shared key** field.
- 5 Choose Save.

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

VPN	
	Edit VPN profile
	Name
1	-Quick VPN
2	Type — L2TP/IPSec PSK
3	Quick VPN IP/DDNS address
	L2TP secret
	(not used)
	IPSec identifier
	(not used)
	IPSec pre-shared key
4	
	Show advanced options
	CANCEL SAVE

Connect or Disconnect

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



Connect or Disconnect (Continued)

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

ONNECT

Username

Your Quick VPN Username

Connect to Quick VPN

Password

□ Save account information

CANCEL CONNECT

VPN is connected		
Duration: Sent:	Quick VPN 00:00:09 97 bytes / 5 packets 64 bytes / 4 packets	
DISCONNECT		CANCEL

To disconnect, select **DISCONNECT**.

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-867 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-867 for about 1 second. The LED on the front will start to blink.



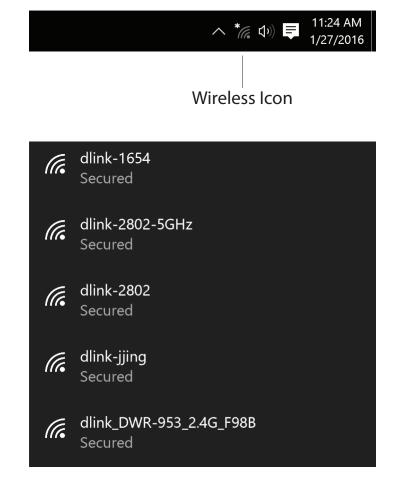
- **Step 2** Within 2 minutes, press the WPS button on your wireless device (or launch the software utility and start the WPS process).
- **Step 3** Allow up to 1 minute for your connection to be configured. Once the Internet light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 10

When connecting to the DIR-867 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise refer to the product label for the default Wi-Fi network SSID and password, or enter the Wi-Fi credentials set during the product configuration.

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

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

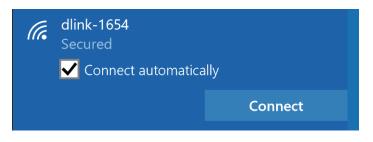


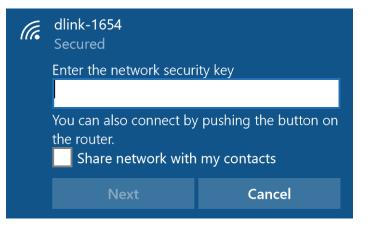
To connect to the SSID, click **Connect.**

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.



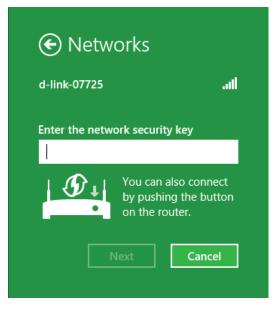


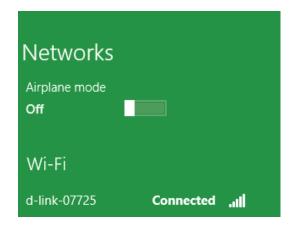
Section 6- Connecting a Wireless Client

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

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

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





Windows[®] 7 WPA/WPA2

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

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



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



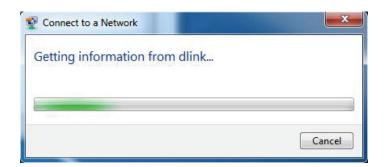
Section 6- Connecting a Wireless Client

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.



Section 6- Connecting a Wireless Client

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

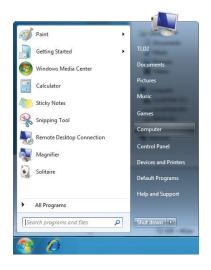
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.

P Connect to a Network
Type the network security key
Security key:
Hide characters
You can also connect by pushing the button on the router.
OK Cancel

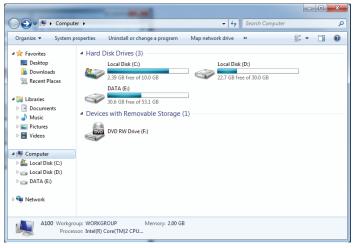
WPS

The WPS feature of the DIR-867 can be configured using Windows[®] 7. Carry out the following steps to use Windows[®] 7 to configure the WPS feature:

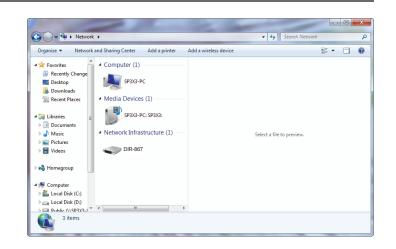
1. Click the **Start** button and select **Computer** from the Start menu.



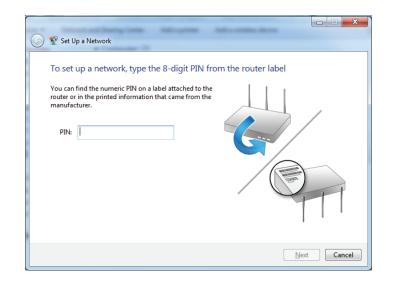
2. Click **Network** on the left side.



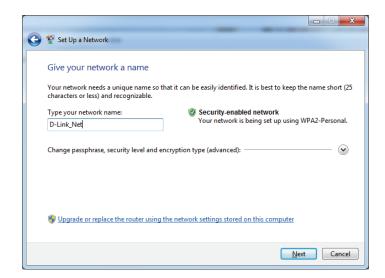
3. Double-click the DIR-867.



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



5. Type a name to identify the network.



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

Click Next to continue.

\bigcirc	😰 Set Up a Network	
	Give your network a name	
	Your network needs a unique name so that it car characters or less) and recognizable.	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 Security key:	n type (advanced): Security level:
	f6mm-gizb-9vmv	WPA2-Personal (Recommended)
	Connect automatically	Encryption type:
		AES (Recommended)
	Opgrade or replace the router using the network of the network	ork settings stored on this computer
		Next Cancel

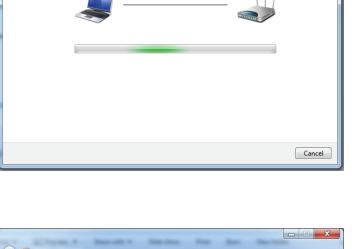
Section 6- Connecting a Wireless Client

- 7. The following window appears while the DIR-867 is being configured.
 - Wait for the configuration to complete.

8. The following window informs you that WPS on the DIR-867 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

Setting up D-Link_Net...

🍚 💇 Se	t Up a Network
D-Li	nk_Net has been successfully set up
To ad	d an older wireless device to this network, you might need to provide this security key
	894g-eyd5-g5wb
	an <u>print these network settings</u> for future reference. Iming consoles or computers running Windows XP, <u>copy the network profile to a USB drive</u> for
easier	set up.
	Close

- - X

Windows Vista®

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

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

or

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

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

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





WPA/WPA2

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

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**.





Section 6- Connecting a Wireless Client

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.

Туре	the network security key or passphrase for Candy
The pe	erson who setup the network can give you the key or passphrase.
Securit	ty key or passphrase:
🔲 Dis	play characters
	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-867. Read the following descriptions if you are having problems. The examples below are illustrated in Windows[®] XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer® 10 or higher
 - Mozilla Firefox 28 or higher
 - Google[™] Chrome 28 or higher
 - Apple Safari 6 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and Windows[®] XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
 - Go to Start > Settings > Control Panel. Double-click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults.
 - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
 - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
 - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for your web management.
- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. This process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.0.1**. When logging in, leave the password box empty.

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

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

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

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

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

Example: ping yahoo.com -f -l 1472

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

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

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

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

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

Wireless Basics

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

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people 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 networksl: Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home Uses/Benefits

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

Small Office and Home Office Uses/Benefits

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or access point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-hoc Directly connecting to another computer for peer-to-peer communication using wireless network adapters on each computer, such as two or more DIR-867 wireless network USB adapters.

An Infrastructure network contains an access point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-hoc network contains only clients, such as laptops with wireless USB adapters. All the adapters must be in Ad-hoc mode to communicate.

Networking Basics

Check your IP address

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

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

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

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

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

🛤 C:\WINDOWS\system32\cmd.exe	- 5]:	×
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.			•
C:\Documents and Settings>ipconfig			_
Windows IP Configuration			
Ethernet adapter Local Area Connection:			
Connection-specific DNS Suffix . : dlink IP Address : 10.5.7.114 Subnet Mask : 255.255.20 Default Gateway : 10.5.7.1			
C:\Documents and Settings>_			
			•

Statically Assign an IP address

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

Step 1

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

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

Network

Connections.

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

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

Step 2

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

Step 3

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

Step 4

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

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

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

Step 5

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

○ Obtain an IP address automatically		
💿 Use the following IP address: —		
IP address:	192.168.0.52	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:	192.168.0.1	
Obtain DNS server address auto	matically	
O Use the following DNS server ad	dresses:	
Preferred DNS server:	192.168.0.1	
Alternate DNS server:		

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-867 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

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

Antenna Types

• Four external antennas

Standards

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

Security

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

Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 1.5 A

Temperature

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

Humidity

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

Certifications

- FCC
- lC

Dimensions & Weight

- L x W x H: 285x196x48mm
- 576g

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-867 does not include 5.25-5.35 GHz & 5.47-5.725 GHz in some regions.

Regulatory Statements

Federal Communication Commission Interference Statement

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

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

Non-modifications Statement:

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

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

Caution:

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

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

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

Note

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

IMPORTANT NOTICE:

FCC Radiation Exposure Statement

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

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

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

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

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

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

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

(1) l'appareil ne doit pas produire de brouillage, et

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

Caution :

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

(iii) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;

(iii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement

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

Déclaration d'exposition aux radiations

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