D-Link[®]



User Manual

Wireless AC1000 Dual Band Cloud Router

DIR-820L

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
2.0	March 27, 2014	Initial release for Revision B1

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Package Contents



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

Note: Using a power supply with a different voltage rating than the one included with the DIR-820L will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based Cable or DSL modem IEEE 802.11ac, 802.11a, 802.11n or 802.11g wireless clients 10/100 Ethernet
Web-based Configuration Utility Requirements	 Computer with the following: Windows®, Macintosh, or Linux-based operating system An installed Ethernet adapter Browser Requirements: Internet Explorer 7 or higher Firefox 3.5 or higher Safari 4 or higher Chrome 8 or higher
	Windows [®] Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
mydlink Requirements	 iPhone/iPad/iPod Touch (iOS 3.0 or higher) Android device (1.6 or higher) Computer with th following browser requirements: Internet Explorer 7 or higher Firefox 3 or higher Safari 5 or higher Chrome 5 or higher iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc.

Introduction

Now you can monitor and manage your home network right from your laptop, iPhone[®], iPad[®], or Android[™] device. This cloudenabled router can be configured to send an email to keep you informed anywhere, anytime when new devices are connecting to your network or unwanted access is detected. Monitor in real time websites that are being visited with recent browser history displayed on the mydlink[™] Lite app – which is great for parents. The D-Link Cloud Service can detect and block unwelcome guests who try to access your wireless network, and suspicious activities will be displayed right on your mydlink[™] Lite app or browser.

The D-Link DIR-820L is an IEEE 802.11ac compliant device that delivers speeds up to three times faster than 802.11n while staying backward compatible with 802.11a/g/b devices. Connect the DIR-820L to a Cable or DSL modem and provide high-speed Internet access to multiple computers, game consoles, and media players. Create a secure wireless network to share photos, files, music, videos, printers, and network storage. Powered by 802.11ac technology and equipped with four internal antennas, this router provides superior wireless coverage for larger homes and offices, or for users running bandwidth-intensive applications. The DIR-820L also includes a 4-port 10/100 Fast Ethernet switch that connects wired devices to enjoy lag-free Internet gaming and faster file transfers.

D-Link has created SharePort[™] technology to bring more flexibility to your network. With SharePort[™] technology, you can connect a USB printer and share it throughout your network. You can also share a USB storage device, providing network storage for everyone to share.

With some routers, all wired and wireless traffic, including VoIP, Video Streaming, Online Gaming, and Web browsing are mixed together into a single data stream. By handling data this way, bandwidth intensive applications like video streaming could pause or delay. With D-Link Intelligent QoS Technology, wired and wireless traffic are analyzed and separated into multiple data streams.

The DIR-820L supports the latest wireless security features to help prevent unauthorized access, be it over a wireless network or the Internet. Support for WPA[™] and WPA2[™] standards ensures that you will be able to use the best possible encryption regardless of your client devices. In addition, this router utilizes Dual Active Firewalls (SPI and NAT) to prevent potential attacks from across the Internet making it the ideal centerpiece for your wireless network in the home or office.

Features

- Ultimate Fast Wireless Networking The DIR-820L provides a wireless connection of up to 300Mbps in the 2.4GHz band, and 900Mbps in the 5GHz band with other 802.11ac and 802.11n wireless clients. This capability allows users to simulatneously engage in video streaming, online gaming, and real-time calling. The performance of this 802.11ac wireless router gives you the freedom of wireless networking at speeds three times faster than 802.11n.
- **Compatible with 802.11a/g/n Devices** The DIR-820L is still fully compatible with the IEEE 802.11a/g/n standards, so it can connect with existing 802.11a, 802.11g, and 802.11n PCI, USB, and Cardbus adapters.
- Advanced Firewall Features The Web-based user interface displays a number of advanced network management features including:
 - Content Filtering Easily-applied content filtering based on MAC Address, URL, and/or Domain Name.
 - **Filter Scheduling** These filters can be scheduled to be active on certain days or for a duration of hours or minutes.
 - Secure Multiple/Concurrent Sessions The DIR-820L can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-820L can securely access corporate networks.
- User-friendly Setup Wizard Through its easy-to-use web-based user interface, the DIR-820L lets you control what information is accessible to those on the wireless network, whether from the Internet or from your company's server. Configure your router to your specific settings within minutes.

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

Hardware Overview Connections



1	USB Port	Connect a USB flash drive to share content throughout your network.
2	WPS Button	Press to start the Wi-Fi Protected Setup process. The Internet LED will start to blink.
3	LAN Ports (1-4)	Connect Fast Ethernet devices such as computers, switches, storage (NAS) devices, and game consoles.
4	Internet Port	Using an Ethernet cable, connect your broadband modem to this port.
5	Power Button	Press the power button to power on and off.
6	Power Receptor	Receptor for the supplied power adapter.

Hardware Overview LEDs



1	Power LED	A solid green light indicates a proper connection to the power supply. The light will blink green during the WPS process. The light will blink orange during boot up.
2	Internet LED	A solid green light indicates a connection to the Internet. If the LED is orange, a cable is connected but the router can not communicate with the Internet.

Installation

This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, or in the attic or garage.

Before you Begin

- Please configure the router with the computer that was last connected directly to your modem.
- You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet).
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoet, Broadjump, or Enternet 300 from your computer or you will not be able to connect to the Internet.

Wireless Installation Considerations

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

- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 1-30 meters (3-90 feet). Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 0.5 meters at a 45-degree angle appears to be almost 1 meter thick. At a 2-degree angle it looks over 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 in not in use.

Hardware Setup

1. Turn off and unplug your cable or DSL broadband modem. This is required.



- 2. Position your router close to your modem and a computer. Place the router in an open area of your intended work area for better wireless coverage.
- 3. Unplug the Ethernet cable from your modem (or existing router if upgrading) that is connected to your computer. Plug it into the LAN port labeled **1** on the back of your router. The router is now connected to your computer.



Computer

4. Plug one end of the included blue Ethernet cable that came with your router into the yellow port labeled INTERNET on the back of the router. Plug the other end of this cable into the Ethernet port on your modem.



- 5. Reconnect the power adapter to your cable or DSL broadband modem and wait for two minutes.
- 6. Connect the supplied power adapter into the power port on the back of the router and then plug it into a power outlet or surge protector. Press the power button and verify that the power LED is lit. Allow 1 minute for the router to boot up.



7. 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 enter a web site. A solid green light indicates connection on the Internet port and the router can connect to the Internet. If the LED is orange, the connection is good but the router cannot connect to the Internet. It may need to be configured. See next page.

Configuration

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 "Quick Setup Wizard" on page 12.
- **QRS Mobile App** Use your iOS or Android device to configure your router. Refer to "QRS Mobile App" on page 19.
- Manual Setup Log into the router and manually configure your router (advanced users only). Refer to "Internet" on page 25.

Quick Setup Wizard

If this is your first time installing the router, open your web browser. You will automatically be directed to the **Wizard Setup Screen**. If not, enter "**http://dlinkrouter.local.**" then press Enter.

If you have already configured your settings and you would like to access the configuration utility, please refer to "Web-based Configuration Utility" on page 24.

If this is your first time logging into the router, this wizard will start automatically.

This 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.

D-Link - Home &	Home Office ×
← → C #	٩.

WELCOME TO THE D-LINK SETUP WIZARD
This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.
 Step 1: Configure your Internet Connection Step 2: Configure your Wi-Fi Security Step 3: Set your Password Step 4: Select your Time Zone Step 5: Confirm WI-Fi settings Step 6: mydlink registration
Next Cancel

STEP 1: CONFIGURE YOUR INTE	RNET CONNECTION
Router is detecting your Internet	connection type, please wait
	Prev Next Cancel

If the router does not detect a valid Ethernet connection from the Internet port, this screen will appear. Connect your broadband modem to the Internet port and then click **Try Again**.

If the router detects an Ethernet connection but does not detect the type of Internet connection you have, this screen will appear. Click Guide me through the Internet Connection Settings to display a list of connection types to choose from.

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

D-Link Wi-Fi Router
Cancel Prev Connect
STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Routers is unable to detect your Internet connection type.

Try again

Cancel

Cable/xDSL

Q.

STEP 1: CONFIGURE YOUR INTERNET CONNECTION
Please select your Internet connection type below:
OHCP Connection (Dynamic IP Address) Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.
O Username / Password Connection (PPPoE) Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this connection type of connection.
C Username / Password Connection (PPTP) PPTP client.
© Username / Password Connection (L2TP) L2TP client.
© Static IP Address Connection Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.
Prev Next Cancel



Guide me through the Internet connection settings



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Section 3 - Configuration

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 **PPTP**, enter your PPTP username, password, and other information supplied by your ISP. Click **Next** to continue.

If the router detected or you selected **L2TP**, enter your L2TP username, password, and other information supplied by your ISP. Click **Next** to continue.

SET USERNAME AND PASSWI	JRD CUNNECTION (PPPOE)
To set up this connection you w Service Provider. If you do not h	ill need to have a Username and Password from your Internet ave this information, please contact your ISP.
User Name :	
Password :	
	Prev Next Cancel

Address Mode :	O Dynamic IP	Static IP
PPTP IP Address :	0.0.0.0	
PPTP Subnet Mask :	0.0.0.0]
PPTP Gateway IP Address :	0.0.0.0	
PPTP Server IP Address (may be same as gateway) :		
User Name :		
Password :]
Verify Password :		
NS SETTINGS		
Primary DNS Address :]
Secondary DNS Address :		

SET USERNAME AND PASSWORD CONNECTION	(L2TP)
To set up this connection you will need to have a U Service Provider. You also need L2TP IP adress. If yo your ISP.	sername and Password from your Internet ou do not have this information, please contact
Address Mode : O Dynamic IP	Static IP
L2TP IP Address : 0.0.0.0	
L2TP Subnet Mask : 0.0.0.0	
L2TP Gateway IP Address : 0.0.0.0	
L2TP Server IP Address (may be same as gateway) :	
User Name :	
Password :	
Verify Password :	
DNS SETTINGS	
Primary DNS Address :	
Secondary DNS Address :	
Prev Next	Cancel

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

SET STATIC IP ADDRESS CONNECTION
To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.
IP Address : 0.0.0.0
Subnet Mask : 0.0.0.0
Gateway Address : 0.0.0.0
DNS SETTINGS
Primary DNS Address :
Secondary DNS Address :
Prev Next Cancel

For both the 2.4 GHz and 5 GHz segments, create a Wi-Fi network name (SSID) using up to 32 characters.

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

Click **Next** to continue.

STEP 2: CONFIGURE YOUR WI-FI SECURITY	
Give your Wi-Fi network a name ar password. (2.4GHz Band)	d a
Wi-Fi Network Name (SSID) :	
dlink	(Using up to 32 characters)
Wi-Fi Password :	
mywifipassword	(Between 8 and 63 characters)
Give your Wi-Fi network a name ar password. (5GHz Band)	d a
Wi-Fi Network Name (SSID) :	_
dlink_media	(Using up to 32 characters)
Wi-Fi Password : mywifipassword	(Between 8 and 63 characters)
Prev Next	Cancel

In order to secure your router, please enter a new password. Check the Enable Graphical Authentication box to enable CAPTCHA authentication for added security. Click **Next** to continue.

STEP 3: SET YOUR PASSWO	RD
By default, your new D-Link Ro to the Web-based configuration a password below, and enablin protection to prevent unautho settings.	uter does not have a password configured for administrator access n pages. To secure your new networking device, please set and verify g CAPTCHA Graphical Authentication provides added security rized online users and hacker software from accessing your network
Password:	
Verify Password :	
Enable Graphical Authentication :	
	Prev Next Cancel

Select your time zone from the drop-down menu and click **Next** to continue.

The Setup Complete window will display your Wi-Fi settings. Click **Save and Connect** to continue.

If you want to create a bookmark to the router, click **OK**. Click **Cancel** if you do not want to create a bookmark.

If you clicked **Yes**, a window may appear (depending on what web browser you are using) to create a bookmark.

STEP 4: SELECT YOUR TIME ZONE Select the appropriate time zone for your location. This information is required to configure the time-based options for the router. (GMT-08:00) Pacific Time (US/Canada), Tijuana Prev Next Cancel

STEP 5: CONFIRM WI-FI SETTINGS	
Below is a detailed summary of your Wi-Fi security settings. Plea the information on a piece of paper, so you can configure the c devices.	ase print this page out, or write orrect settings on your Wi-Fi
Wi-Fi Network Name (SSID) 2.4GHz Band:	dlink
Wi-Fi Password :	mywifipassword
Wi-Fi Network Name (SSID) 5GHz Band:	dlink_media
Wi-Fi Password :	mywifipassword
The Setup Wizard has completed. Click the save button to save router.	your settings and reboot the
Prev Save Cancel	





To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select if you do have a mydlink account or if you need to create one. Click **Next** to continue.

If you do not want to register at this time, click **Cancel**.

If you clicked **Yes**, enter your mydlink account name (email address) and password. Click **Login** to register your router.

If you clicked **No**, fill out the requested information and click **Sign Up** to create your mydlink account.

MYDLINK REGISTRATION
To use the features of <u>mydlink.com</u> and the mydlink Lite app, you will need an account with <u>mydlink.com</u> . If you already have an account, select Yes, I have a mydlink account and click Next to register the router with <u>mydlink.com</u> . If you do not have an account, select No, I want to register and login with a new mydlink account and click Next to create an account. If you do not wish to sign up for the mydlink service, please click Cancel.
Do you have mydlink account?
Ves, I have a mydlink account.
No, I want to register and login with a new mydlink account.
Next Cancel

STEP 6: MYDLINK REGISTRATION
E-mail Address (Account Name): mydlinkaccount
Password: *****
Login Prev Cancel

STEP 6: MYDLINK REGISTRATION	
Please fulfill th	e options to complete the registration.
E-mail Address (Account Name) :	
Password :	
Confirm Password :	
First filame :	
Last name :	
5	LAccept the mydink terms and conditions.

The mydlink App will allow you to receive notices, browse network users, and configure your router from an iPhone/iPad/iPod Touch (iOS 3.0 or higher), Android device (1.6 or higher).

To download the "mydlink lite" app, visit the Apple Store, Android Market or **http://mydlink.com/Lite**.



PC and Mac users can use the mydlink portal at **http://mydlink.com**.



QRS Mobile App

D-Link offers an app for your iOS/Android device to install and configure your router.

Step 1

From your iPad, Touch, or iPhone, go to the iTunes Store and search for 'D-Link'. Select **QRS Mobile** and then download it.

You may also scan this code to download.





Step 2

Once your app is installed, you may now configure your router. Connect to the router wirelessly by going to your wireless utility on your device. Scan for the Wi-Fi name (SSID) as listed on the supplied info card. Select and then enter your Wi-Fi password.

Step 3

Once you connect to the router, launch the QRS mobile app and it will guide you through the installation of your router.



Walt farineser link;	Wirds Exrovicean Tanks;
hegs://illenkesseker.or https://1902.1046.03	Notpe://dlivik.enutor.or https://190.1080.01
Definuit configuration	Vour configuration
Username: "Advise" Password: " (have the field blank)	University: Administry Parameters
W-IN Name 55901 Jilen altha W-P(Present)	Wi-FilMerre (1587)



SharePort Mobile App

The SharePort Mobile app will allow you to access files from a USB thumb drive that is plugged into your router. You must enable file sharing from the **Setup** > **Storage** page (refer to page 68) for this app to work properly.

1. Insert your USB flash drive into DIR-820L.

2. Scan the QR code to download the **SharePort Mobile** app to your iOS or Android device.



3. From your iOS mobile device, click Settings.



4. Click **Wi-Fi**, select the Wi-Fi Network Name (SSID) that you created in the setup and then enter your Wi-Fi password.

5. Once connected, click on the SharePort Mobile icon.

6. The following screen will appear.

--TARK BOOM 17.0 * 6 Dama WER AT * 0 170 17.0 4+ 0 170 47 0





7. Click on **Settings** icon located on the right top corner of the screen. Click **Edit** to enter your User Name and Password. Once you finish, click **Done** to continue.



8. For the Movie section, click the movie icon to play your movie from your USB flash drive. Supported video formats are mp4, mov, and m4v.

9. For the Music section, click the music icon to play your music from your USB flash drive. Supported audio formats are mp3, wav, and m4a

10. For the Photo section, click the Photo icon to view your photos from your USB flash drive. Supported image formats are bmp, jpg, and png.

11. For the Files section, click on the Files icon to view your files from your USB flash drive. Supported formats for iOS are Microsoft Office and Adobe Acrobat. Supported formats for Android vary by device.







12. To upload a file from your mobile device to your USB drive, go to the **Folder** section, select **Upload** from the menu, (Android users may need to press a "…" button to create the menu.) and then select the "+" at the top-right corner. This will give you a direct view of your device's files and folders. Browse for the file you want to upload, and select it. Your file will then be copied from your mobile device to your USB drive.

In **Folder** you may also explore the various folders on the USB drive without separating the content by type of file.

13. To permanently download a file to your mobile device, select the **"Star"** icon next to it while browsing the categories (listed below). This will save it as a **Favorite** and make the file available to you even when not connected to the USB drive. If a file is not added as a favorite, then it will not be saved to your mobile device.

14. You can access files on a USB drive from a web browser: http://shareport.local.

Note: If you change your device/admin password, you will need to use the new password in the SharePort Mobile app.

	Pail P	2.48.8.07	1.015.00
_		Folder	141
	Q		
	DIR-505 Files		6
	found.000		





Web-based Configuration Utility

To access the configuration utility, open a web-browser such as Internet Explorer and enter address of the router (**http://dlinkrouter.local.**).

You may also connect by typing **http://192.168.0.1** in the address bar.

🕘 D-I	.ink -	Micro	soft Inte	rnet Exp	lorer
<u> </u>	<u>E</u> dit	⊻iew	F <u>a</u> vorites	<u>T</u> ools	Help
	Back 🔻	\bigcirc	- 🗶	2 🏠) 🔎 Search
] A <u>d</u> dre	ess 🦉	192.16	58.0.1		💌 🄁 Go 🔰

Leave the password blank by default.

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

Setup Internet

Click **Manual Internet Connection Setup** to configure your connection manually and continue to the next page.

If you want to configure your router to connect to the Internet using the wizard, click **Internet Connection Setup Wizard**. You will be directed to the Quick Setup Wizard.



Internet Connection Setup Wizard

When configuring the router for the first time, we recommend that you click use the **Internet Connection Setup Wizard**, and follow the instructions on the screen. This wizard is designed to assist user with a quick and easy method to configure the Internet connectivity of this router.

Anytime during the Internet Connection Setup Wizard, the user can click on the **Cancel** button to discard any changes made and return to the main Internet page. Also the user can click on the **Prev** button, to return to the previous window for reconfiguration.

Welcome:

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

INTERNET CONNECTION

If you are configuring the device for the first time, we recommend that you click on the Internet. Connection Setup Wizard, and follow the instructions on the screen. If you wish to modify or configure the device settings manually, click the Manual Internet Connection Setup.

INTERNET CONNECTION SETUP WIZARD

If you would like to utility our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.

Internet Connection Setup Wizard

Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

WELCOME TO THE D-LINK INTERNET CONNECTION SETUP WIZARD

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

Cancel

Connect

Next

•	Step	1:	Set	your	Password	

- Step 2: Select your Time Zone
 Step 3: Configure your Internet Connection
- Step 3: Configure your Internet Connection
 Step 4: Source Settings and Connect

•	Step 4:	Save	Settings	and	connect	

<u>S</u>	t	<u>e</u>	р	1	:	5	et	t 1	(0	U	Ir	P	a	S	S	W	0	r	d
_			-																

By default, the D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please enter and verify a password in the spaces provided. The two passwords must match.

Click Next to continue.

By default, your new D-Link Pouter de	es not have a nacew	and configured for administrator access to
the Web-based configuration pages. To password below:	secure your new n	etworking device, please set and verify a
Password :		
Verify Password :		
		Connect

Step 2: Select Your Time Zone

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

Click Next to continue.

STEP 2: SELECT YOUR TIME ZONE
Select the appropriate time zone for your location. This information is required to configure the time- based options for the router.
Time Zone : (GMT+08:00) Taipel
Prev Next Cancel Connect

Step 3: Internet Connection

Here the user will be able to configure the Internet connectivity used by this device. If your Internet Service Provider (ISP) connection is listed in the drop-down menu select it and click **Next**. If your ISP connection is not listed then you can proceed to select any of the other manual Internet connection methods listed below.

The following parameters will be available for configuration:

- **Dynamic IP Address:** Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.
 - **PPPoE:** Choose this option if your Internet connection requires a PPPoE username and password to get online. Most DSL modems use this type of connection.
 - **PPTP:** Choose this option if your Internet connection requires a PPTP username and password to get online.
 - **L2TP:** Choose this option if your Internet connection requires an L2TP username and password to get online.
 - **Static IP Address:** Choose this option if your ISP provided you with IP Address information that has to be manually configured.

STEP 3: CONFIGURE VOUR INTERNET CONNECTION Your Internet Connection could not be detected, please select your Internet Service Provider (ISP) from the list below. If your ISP is not listed; select the 'Not Listed or Don't Know' option to manually configure your connection. Not Listed or Don't Know 💌 If your Internet Service Provider was not listed or you don't know who it is, please select the Internet connection type below: DHCP Connection (Dynamic IP Address) Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection. Username / Password Connection (PPPoE) Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection. Username / Password Connection (PPTP) Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection. Username / Password Connection (L2TP) Choose this option if your Internet connection requires a username and password to get online. Most DSL modems use this type of connection. Static IP Address Connection Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured. Connect

Step 3: Internet Connection (Dynamic IP Address)

After selecting the Dynamic IP Address Internet connection method, the following page will appear.

The following parameters wil	l be available for configuration:
MAC Address:	Enter the MAC address of the Internet gate-
	way (plugged into the Internet port of this
	device) here.
Clone Button:	If the configuration PC also acts as the Inter-
	net gateway, then click on the Copy Your PC's
	MAC Address button to copy the PC's MAC
	address into the space provided. If you're not
	sure, leave the MAC Address field blank.
Host Name:	Enter the host name used here. You may also
	need to provide a Host Name. If you do not
	have or know this information, please contact
	your ISP.
Primary DNS Address:	Enter the Primary DNS IP address used here.
Secondary DNS Address:	Enter the Secondary DNS IP address used
	here. This field is normally optional. Only
	one DNS address is required for a functional
	Internet connection, but using a second DNS
	address provides more stability.

	MAC Address :	(optional)	
		Clone Your PC's MAC Address	
	Host Name :	dlinkrouter	
lote: You may als SP. DNS SETTINGS	so need to provide a Host	Name.If you do not have or know	this information, please contact yo
iote: You may als SP. DNS SETTINGS PI	so need to provide a Host rimary DNS Address :	Name.If you do not have or know	this information, please contact yo

Click Next to continue.

Step 3: Internet Connection (PPPoE)

After selecting the PPPoE Internet connection method, the following page will appear:

The following parameters will be available for configuration: **User Name:** Enter the PPPoE account user name used here. This information is given by the ISP. **Password:** Enter the PPPoE account password used here. This information is given by the ISP.

SET USERNAME AND PASSWORD CONNECTION (PPPOE)

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

Click Next to continue.

Step 3: Internet Connection (PPTP)

After selecting the PPTP Internet connection method, the following page will appear:

SET USERNAME AND PASSWORD CONNECTION (PPTP) The following parameters will be available for configuration: To set up this connection you will need to have a Username and Password from your Internet Service Address Mode: Here the user can specify whether this Provider. You also need PPTP IP address. If you do not have this information, please contact your ISP. Internet connection requires the use of a Address Mode :
 Dynamic IP
 Static IP Dynamic or Static IP address. PPTP usually PPTP IP Address : 0.0.0.0 requires a Dynamic IP configuration. PPTP Subnet Mask : 0.0.0.0 **PPTP IP Address:** Enter the PPTP IP address used here. This PPTP Gateway IP Address : 0.0.0.0 option is only available if Static IP is PPTP Server IP Address : 0.0.0.0 (may be same as gateway) selected. User Name : **PPTP Subnet Mask:** Enter the PPTP Subnet Mask used here. Password : PPTP Gateway IP Address: Enter the PPTP Gateway IP address used Verify Password : here. PPTP Server IP Address: Enter the PPTP Server IP address used DNS SETTINGS here. This is normally the same a the PPTP Primary DNS Address : Gateway IP address. Secondary DNS Address : (optional) User Name: Enter the PPTP username used here. Password: Enter the PPTP password used here. Connect Prev Next Cancel Verify Password: Re-enter the PPTP password used here. Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

Click Next to continue.

Step 3: Internet Connection (L2TP)

After selecting the L2TP Internet connection method, the following page will appear:

The following parameters will be available for configuration: Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static IP address. L2TP usually requires a Dynamic IP configuration. L2TP IP Address: Enter the L2TP IP address used here. This option is only available if Static IP is selected. L2TP Subnet Mask: Enter the L2TP Subnet Mask used here. L2TP Gateway IP Address: Enter the L2TP Gateway IP address used here. L2TP Server IP Address: Enter the L2TP Server IP address used here. This is normally the same a the L2TP Gateway IP address. User Name: Enter the L2TP username used here. **Password:** Enter the L2TP password used here. Verify Password: Re-enter the L2TP password used here. Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

Click Next to continue.

SET USERNAME AND PASSWORD CONNECTION (L2TP)

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

Address Mode	: 🖲 Dynamic IP 🖱 St	tatic IP
L2TP IP Address	0.0.0.0]
L2TP Subnet Mask	0.0.0.0]
L2TP Gateway IP Address	0.0.0.0]
L2TP Server IP Address	: 0.0.0.0	(may be same as gateway)
User Name	:	
Password	:]
Verify Password	:]
DNS SETTINGS		
Primary DNS Address	:	
Secondary DNS Address	:	(optional)
Prev	Next Cancel	Connect

Step 3: Internet Connection (Static IP Address)

After selecting the Static IP Address Internet connection method, the following page will appear:

The following parameters will be available for configuration: IP Address: Enter the Static IP address provided by the ISP here. Subnet Mask: Enter the Subnet Mask provided by the ISP here. Gateway Address: Enter the Gateway IP address provided by the ISP here. Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

SET STATIC IP ADDRESS CONNECTION	N	
To set up this connection you will need Internet Service Provider. If you have contact your ISP.	d to have a complete a Static IP connectio	list of IP information provided by your on and do not have this information, please
IP Address :	0.0.0.0]
Subnet Mask :	0.0.0.0	
Gateway Address :	0.0.0.0]
DNS SETTINGS		
Primary DNS Address :	0.0.0.0	
Secondary DNS Address :	0.0.0.0	(optional)
Prev	Next Cancel	Connect

Click **Next** to continue.

Setup Complete!

This is the last page of the Internet Connection Setup Wizard.

Click the **Connect** button to save your settings.

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

Internet (Manual)

On this page the user can configure the Internet connection settings manually. To access the Manual Internet Connection Setup page, click on the **Manual Internet Connection Setup** button. On this page there a multiple parameters that can be configured regarding the Internet connection setup.

MANUAL INTERNET CONNECTION OPTION

If you would like to configure the Internet settings of your new D-Link Router manually, then click on the button below.

Manual Internet Connection Setup

At any given point the user can save the configuration on this page by clicking on the **Save Settings** button. If you choose to discard the changes made, click on the **Don't Save Settings** button.

WAN

Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, and L2TP. If you are unsure of your connection method, please contact your Internet Service Provider.

Note : If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Save Settings Don't Save Settings
Internet Connection Type

In this section, the user can select from a list of Internet connection types that can be configured and used on this router. Options to choose from are **Static IP**, **Dynamic IP**, **PPPOE**, **PPTP**, **L2TP**, and **DS-Lite**.

After selecting a specific Internet connection type, this page will automatically refresh and provide unique fields to configure related to the specified Internet connection type.

My Internet Connection is: Dynamic IP (DHCP)

The default WAN configuration for this router is Dynamic IP (DHCP). This option allows the router to obtain an IP address automatically from the device that is connected to the Internet port.

Note: If you're not sure about the type of Internet connection you have, please contact your Internet Service Provider (ISP) for assistance.

After selecting Dynamic IP, the following parameters will be available for configuration:

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

- Use Unicasting: Tick this option if your ISP uses the unicast method to provide IP addresses.
- **Primary DNS:** Enter the Primary DNS IP address used here.
- Secondary DNS: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

INTERNET CONNECTION TYPE
Choose the mode to be used by the router to connect to the Internet.
My Internet Connection Is : Dynamic IP (DHCP)

DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE :				
Use this Internet connection type you with IP Address information	a if your Internet Ser and/or a username a	vice Provider (ISP) didn't provide and password.		
Host Name :	dlinkrouter			
Use Unicasting :	(compatibility for :	some DHCP Servers)		
Primary DNS Server :				
Secondary DNS Server :		(optional)		
MTU :	1500			
MAC Address :				
	Clone Your PC's MAC A	ddress		

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. MAC Address: The default MAC address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Copy Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

Manual Internet Setup Static (assigned by ISP)

Select **Static IP Address** if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The router will not accept the IP address if it is not in this format.

My Internet Connection: Select Static IP to manually enter the IP settings supplied by your ISP.

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

Subnet Mask: Enter the Subnet Mask assigned by your ISP.

- Default Gateway: Enter the Gateway assigned by your ISP.
 - **DNS Servers:** The DNS server information will be supplied by your ISP (Internet Service Provider.)
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your specific ISP.
 - MAC Address: The default MAC address is set to the Internet port's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Copy Your PC's MAC** Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

INTERNET CONNECTION TYPE	E
Choose the mode to be used b	y the router to connect to the Internet.
My Internet Connection is :	Static IP
STATIC IP ADDRESS INTERN	NET CONNECTION TYPE
Enter the static address inform (ISP).	ation provided by your Internet Service Provider
IP Address :	0.0.0.0
Subnet Mask :	0.0.0.0
Default Gateway :	0.0.0.0
Primary DNS Server :	0.0.0.0
Secondary DNS Server :	0.0.0.0
MTU :	1500 (bytes) MTU default = 1500
MAC Address :	00:18:E7:95:68:9F
	Copy Your PC's MAC Address

Internet Setup PPPoE (DSL)

Choose **PPPoE** (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove any PPPoE software from your computer. This software is no longer needed and will not work through a router.



To create a new schedule, click the **New Schedule** button to open the Schedules page. Schedules will be discussed later.

card.

 Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. DNS Mode: This option allows the router to obtain the DNS IP addresses from the ISP, when Receive DNS from ISP is selected, or allows the user to enter DNS IP address manually when Enter DNS Manually is selected.
 Primary DNS Server: Enter the Primary DNS IP address used here.
 Secondary DNS Server: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.
 MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP.
 MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Copy Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet

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Internet Setup PPTP

Choose **PPTP** (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

My Internet Connection: Select PPTP (Username/Password) from the drop-	INTERNET CONNECTION TYPE
down menu.	Choose the mode to be used by the router to connect to the Internet.
Address Mode: Here the user can specify whether this Internet	My Internet Connection is : PPTP (Username / Password)
connection requires the use of a Dynamic or Static	
IP address. PPTP usually requires a Dynamic IP	PPTP INTERNET CONNECTION TYPE :
configuration.	
PPTP IP Address: Enter the PPTP IP address used here. This option is	Enter the information provided by your Internet Service Provider (ISP).
only available if Static IP is selected.	Address Mode : Organic IP Static IP
PPTP Subnet Mask: Enter the PPTP Subnet Mask used here.	PPTP IP Address :
PPTP Gateway IP Address: Enter the PPTP Gateway IP address used here.	PPTP Subnet Mask :
PPTP Server IP Address: Enter the PPTP Server IP address used here. This is	PPTP Gateway IP Address :
normally the same a the PPTP Gateway IP address.	PPTP Server IP Address :
Username: Enter the PPTP username used here.	Username :
Password: Enter the PPTP password used here.	Password :
Verify Password: Re-enter the PPTP password used here.	Verify Password :
Reconnect Mode: Use the radio buttons to specify the reconnect mode.	Reconnect Mode : Always of New Schedule
The user can specify a custom schedule or specify	On demand C Manual
the On Demand , or Manual option. To specify a	Maximum Idle Time : (minutes, 0=infinite)
custom schedule, use the drop-down menu to select	Primary DNS Server :
one of the schedules that has been defined in the	Secondary DNS Server : (optional)
Schedules page. To create a new schedule, click the	MTU: 1400
New Schedule button to open the Schedules page	MAC Address :
Schedules will be discussed later	Clone Your PC's MAC Address
Maximum Idle Time: Enter a maximum idle time during which the Internet of	production is maintained during inactivity. To disable this

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.

Primary DNS Server: Enter the Primary DNS IP address used here.

Secondary DNS Server: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the broadband router. It

is not recommended that you change the default MAC address unless required by your ISP. You can use the **Copy** Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. - - -

- -

Internet Setup L2TP

Choose L2TP (Layer 2 Tunneling Protocol) if your ISP uses an L2TP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

My Interne	t Select L2TP (Username/Password) from the drop-	INTERNET CONNECTION TYP
Connection Address Mode	: down menu. : Here the user can specify whether this Internet connection requires the use of a Dynamic or Static	Choose the mode to be used My Internet Connection
	IP address. L2TP usual requires a Dynamic IP con- figuration.	L2TP INTERNET CONNECTION
L2TP IP Address L2TP Subnet Mask L2TP Gateway II Address L2TP Server II Address Username Password Verify Password Reconnect Mode	 Enter the L2TP IP address used here. This option is only available if Static IP is selected. Enter the L2TP Subnet Mask used here. Enter the L2TP Gateway IP address used here. Enter the L2TP Server IP address used here. This is normally the same a the L2TP Gateway IP address. Enter the L2TP username used here. Enter the L2TP password used here. Re-enter the L2TP password used here. Use the radio buttons to specify the reconnect mode. The user can specify a custom schedule or specify the On Demand, or Manual option. To specify a custom schedule, use the drop-down menu to select one of the schedules that has been defined in the Schedules page. To create a new schedule, click the New Schedule button to open the Schedules page. Schedules will be discussed later. 	Enter the information provide Address Mod L2TP IP Addres L2TP Subnet Mas L2TP Gateway IP Addres L2TP Server IP Addres Usernam Passwor Verify Passwor Reconnect Mod Maximum Idle Tim Primary DNS Serve Secondary DNS Serve MTT MAC Addres

INTERNET CONNECTION TO

by the router to connect to the Internet.

IS: L2TP (Usemame / Password)

N TYPE :

Address Mode :	Ovnamic IP	Static IP
L2TP IP Address :	S Dynamic Ir 4	Stock a
L2TP Subnet Mask :		
L2TP Gateway IP Address :		
L2TP Server IP Address :		
Username :		
Password :		
Verify Password :		
Reconnect Mode :	C Always o	New Schedule
	On demand (B Manual
Maximum Idle Time :	(mi	nutes, 0=infinite)
Primary DNS Server :		
Secondary DNS Server :		(optional)
MTU :	1400	
MAC Address :		
	Clone Your PC's	PIAC Address

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.

Primary DNS Server: Enter the Primary DNS IP address used here.

Secondary DNS Server: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

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

MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Copy Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

Internet Setup DS-Lite

Another Internet connection type is DS-Lite.

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

DS-Lite Configuration: Select the DS-Lite DHCPv6 option to let the router allocate the AFTR IPv6 address automatically. Select the Manual Configu- ration to enter the AFTR IPv6 address in manually.	INTERNET CONNECTION TYPE Choose the mode to be used by the router to connect to the Internet. My Internet Connection Is : DS-Lite
 AFTR IPv6 Address: After selecting the Manual Configuration option above, the user can enter the AFTR IPv6 address used here. B4 IPv4 Address: Enter the B4 IPv4 address value used here. WAN IPv6 Address: Once connected, the WAN IPv6 address will be displayed here. IPv6 WAN Default Gateway Once connected, the IPv6 WAN Default Gateway address will be displayed here. 	AFTR ADDRESS INTERNET CONNECTION TYPE : Enter the AFTR address information provided by your Internet Service Provider (ISP). DS-Lite Configuration : DS-Lite DHCPv6 Option Manual Configuration AFTR IPv6 Address : B4 IPv4 Address : 192.0.0. (optional) WAN IPv6 Address : IPv6 WAN Default Gateway :
Click on the Save Settings button to accept the changes made. Click on the Don't Save Settings button to discard the changes made.	

Wireless Settings Wireless Connection Setup wizard

On this page the user can configure the Wireless settings for this device. There are 3 ways to configure Wireless using this router. Firstly, the user can choose to make use for the quick and easy **Wireless Connection Setup Wizard**. Secondly, the user can choose to make use of Wi-Fi Protected Setup. Lastly, the user can configure the Wireless settings manually.

Wireless Settings: Wireless Connection Setup Wizard

The Wireless Connection Setup Wizard is specially designed to assist basic network users with a simple, step-by-step set of instructions to configure the wireless settings of this router. It is highly recommended to customize the wireless network settings to fit your environment and to add higher security.

To initiate the **Wireless Connection Setup Wizard**, click on the Wireless Connection Setup Wizard button.

Step 1: In this step, the user must enter a custom Wireless Network Name (also called SSID). Enter the new **Network Name (SSID)** in the appropriate space provided.

There are seperate spaces provided for a **2.4 GHz** Network Name and a **5 GHz** Network Name.

Secondly, the user can choose between two wireless security wizard configurations. The user can select '**Automatically assign a network key**', by which the router will automatically generate a WPA/WPA2 pre-shared key using the TKIP and AES encryption methods; or the user can select '**Manually assign a network key**', by which the user will be prompt to manually enter a WPA/WPA2 pre-shared key using the TKIP and AES encryption methods.

Click on the **Prev** button to return to the previous page. Click on the **Next** button to continue to the next page. Click on the **Cancel** button to discard the changes made and return to the main wireless page.

WIRELESS SETTINGS

The following Web-based wizards are designed to assist you in your wireless network setup and wireless device connection.

Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

WIRELESS NETWORK SETUP WIZARD

This wizard is designed to assist you in your wireless network setup. It will guide you through stepby-step instructions on how to set up your wireless network and how to make it secure.

Wireless Connection Setup Wizard

Note: Some changes made using this Setup Wizard may require you to change some settings on your wireless client adapters so they can still connect to the D-Link Router.

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

Give your network a name, using up to 32 characters.

Network Name (SSID) 2.4GHz	:	dlink-ecb8
Network Name (SSID) 5Gbz		dials and a solution

Automatically assign a network key (Recommended)

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

Cancel

Save

Manually assign a network key

Use this options if you prefer to create our own key.

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

Step 2: This step will only be available if the user selected '**Manually** assign a network key' in the previous step. Here the user can manually enter the WPA/WPA2 pre-shared key in the **Wireless Security Password** space provided. The key entered must be between 8 and 63 characters long. Remember, this key will be used when other wireless devices want to connect to this router.

If you want to use the same Wireless Security Password for both 2.4 GHz and 5 GHz bands, tick the option provided. If not selected, you need to input two seperate **Wireless Security Passwords** (network key) for each individual wireless band.

Click on the **Prev** button to return to the previous page. Click on the **Next** button to continue to the next page. Click on the **Cancel** button to discard the changes made and return to the main wireless page.

Setup Complete: On this page the user can view the configuration made and verify whether they are correct.

Click on the **Prev** button to return to the previous page. Click on the **Cancel** button to discard the changes made and return to the main wireless page. Click on the **Save** button to accept the changes made.

пу	STEP 2: SET YOUR WIRELESS SECURITY PASSWORD
nually	You have selected your security level - you will need to set a wireless security password.
sword	The WPA (Wi-Fi Protected Access) key must meet one of following guidelines:
s want	- Between 8 and 63 characters (A longer WPA key is more secure than a short one)
5 Wallt	- Exactly 64 characters using 0-9 and A-F
	Use the same Wireless Security Password on both 2.4GHz and 5GHz band
.4 GHz	2.4Ghz Wireless Security Password
ed to	5Ghz Wireless Security Password :
or each	Note: You will need to enter the same password as keys in this step into your wireless clients in order to enable proper wireless communication.
he tton to	Prev Next Cancel Save
n	Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.
he	Wireless Band : 2.4GHz Band
in	Wireless Network Name (SSID) : dlink-ecb8
ide.	Security Mode : Auto (WPA or WPA2) - Personal
	Cipher Type : TKIP and AES
	Pre-Shared Key : 2c2dbdbe54
	Wireless Band : 5GHz Band
	Wireless Network Name (SSID) : dlink-media-ecba
	Security Mode : Auto (WPA or WPA2) - Personal
	Cipher Type : TKIP and AES
	Pre-Shared Key : 2c2dbdbe54

After clicking the **Save** button the device will save the settings made and return to the main wireless page.

End of Wizard.

SAVING	
	The settings are being saved and are taking effect.
	Please wait

Wi-Fi Protected Setup (WPS) Wizard

Wireless Settings: Wi-Fi Protected Setup Wizard

If your Wireless Clients support the WPS connection method, this Wi-Fi Protected Setup Wizard can be used to initiate a wireless connection between this device and Wireless clients with a simple click of the WPS button. The Wi-Fi Protected Setup Wizard is specially designed to assist basic network users with a simple, step-by-step set of instructions to connect wireless clients to this router using the WPS method.

To initiate the Wi-Fi Protected Setup Wizard click on the **Add Wireless Device with WPS** button.

Step 1: In this step the user has two options to choose from. Choose **Auto** if the wireless client supports WPS, or **Manual** if the wireless client does not support WPS.

Click on the **Prev** button to return to the previous page. Click on the **Next** button to continue to the next page. Click on the **Cancel** button to discard the changes made and return to the main wireless page.

Step 2: After selecting **Auto**, the following page will appear. There are two ways to add a wireless device that supports WPS. Firstly, there is the Personal Identification Number (**PIN**) method. Using this method will prompt the user to enter a PIN code. This PIN code should be identical on the wireless client. Secondly, there is the Push Button Configuration (**PBC**) method. Using this method will allow the wireless client to connect to this device by similarly pressing the PBC button on both the router and the client.

Click on the **Prev** button to return to the previous page. Click on the **Next** button to continue to the next page. Click on the **Cancel** button to discard the changes made and return to the main wireless page.

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

This wizard is designed to assist you in connecting your wireless device to your wireless router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the button below to begin.

Add Wireless Device with WP5

STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK	
Please select one of following configuration methods and click next to continue.	
Auto Select this option if your wireless device supports WPS (Wi-Fi Protected Setup) Manual Select this option will display the current wireless settings for you to configure the wireless device manually	
Prev Next Connect	

TEP 2: CONNECT YOUR WIRELESS DEVICE	
here are two ways to add wireless device to your wireless network: PIN (Personal Identification Number) PBC (Push Button Configuration)	
PIN :	

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

PBC

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

Denue	Head	Grand	Connet
Piev	IVEXL	Cancer	Connect

Step 2 (continued): After selecting **Manual**, the following page will appear. On this page the user can view the wireless configuration of this router. The wireless clients should configure their wireless settings to be identical to the settings displayed on this page for a successful connection. This option is for wireless clients that can't use the WPS method to connect to this device.

Click on the **Prev** button to return to the previous page. Click on the **Next** button to continue to the next page. Click on the **Cancel** button to discard the changes made and return to the main wireless page. Click on the **Wireless Status** button to navigate to the Status > Wireless page to view what wireless clients are connected to this device.

End of Wizard.

STEP 2: CONNECT YOUR WIRELESS DEVICE

2.4 Ghz Frequency	
SSID: dlink-ecb8	
Security Mode: Auto (WPA o	r WPA2) - Personal
Cipher Type: TKIP and AES	
Pre-shared Key: 24key24key	
5 Ghz Frequency	
SSID: dlink-media-ecba	
Security Mode: Auto (WPA o	r WPA2) - Personal
Cipher Type: TKIP and AES	
Pre-shared Key: 50key50key	

Manual Wireless Network Setup

Wireless Settings: Manual Wireless Network Setup

The manual wireless network setup option allows users to configure the wireless settings of this device manually. This option is for the more advanced user and includes all parameters that can be configured for wireless connectivity.

To initiate the Manual Wireless Setup page, click on the **Manual Wire-less Connection Setup** button.

On this page the user can configure all the parameters related to the wireless connectivity of this router.

MANUAL WIRELESS NETWORK SETUP

If your wireless network is already set up with Wi-Fi Protected Setup, manual configuration of the wireless network will destroy the existing wireless network. If you would like to configure the wireless settings of your new D-Link Systems Router manually, then click on the Manual Wireless Network Setup button below.

Manual Wireless Connection Setup

WIRELESS NETWORK

Use this section to configure the wireless settings for your D-Link router. Please note that changes made in this section may also need to be duplicated on your wireless client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2.

Save Settings Don't Save Settings

The following parameters will be available for configuration:

- Wireless Band: Displays the wireless band being configured. In this option we find that the following parameters will be regarding the 2.4 GHz band.
- Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all wireless functions. Select the time frame that you would like your wireless network enabled. The schedule may be set to Always. Any schedule you create will be available in the drop-down menu. Click New Schedule to create a new schedule.

WIRELESS NETWORK SETTINGS				
Wireless Band :	2.4GHz Band			
Enable Wireless :	Always 💌 New Schedule			
Wireless Network Name :	dink-ecb8 (Also called the SSID)			
802.11 Mode :	Mixed 802.11n, 802.11g and 802.11b			
Enable Auto Channel Scan:	V			
Wireless Channel :	2.412 GHz - CH 1 💌			
Transmission Rate : Best (automatic) (Mbit/s)				
Channel Width: 20/40 MHz(Auto)				
Visibility Status :	Visible Invisible			

Wireless Network Name: The Service Set Identifier (SSID) is the name of your wireless network. Create a name using up to 32 characters. The SSID is case-sensitive.

802.11 Mode: Here the user can manually select the preferred frequency band to use for this wireless network.

- Enable Auto Channel Scan: The auto channel selection setting can be selected to allow this device to choose the channel with the least amount of interference.
 - Wireless Channel: By default the channel is set to 1. The channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Selection, this option will be greyed out. Transmission Rate: Select the transmit rate. It is strongly suggested to select Best (Automatic) for best performance.
 - Channel Width: When using the 802.11n frequency band, the user has an option to choose between a 20MHz or 20/40MHz bandwidth.
 - Visibility Status: The Invisible option allows you to hide your wireless network. When this option is set to Visible, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network. When Invisible mode is enabled, you must enter the Wireless Network Name (SSID) on the client manually to connect to the network.

By default the wireless security of this router will be disabled. In this next option the user can enabled or disable wireless security for the 2.4 GHz frequency band. There are two types of encryption that can be used: WEP or WPA/WPA2.

Wireless Security Mode: WEP

Wired Equivalent Privacy (WEP) is the most basic form of encryption that can be used for wireless networks. Even though it is known as a 'weak' security method, it is better than no security at all. Older wireless adapters may only support WEP encryption and thus we still find this encryption method used today.

The following parameters will be available for configuration:

WEP Key Length: Here the user can specify to either use a 64-bit or a 128-bit encrypted key. Authentication: Authentication is a process by which the router verifies the identity of a network device that is attempting to join the wireless network. There are two types authentication for this device when using WEP. **Open System** allows all wireless devices to communicate with the router before they are required to provide the encryption key needed to gain access to the network. Shared Key requires any wireless device attempting to communicate with the router to provide the encryption key needed to access the network before they are allowed to communicate with the router.

WIRELESS SECURITY MODE

Security Mode : None

WIRELESS SECURITY MODE

Security Mode : WEP

WEP

WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 128bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.

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You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.

If you choose the WEP security option this device will **ONLY** operate in **Legacy Wireless mode** (802.11B/G). This means you will **NOT** get 11N performance due to the fact that WEP is not supported by the Draft 11N specification.

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

WEP Key 1: Enter the WEP key used here. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.

Wireless Security Mode: WPA-Personal

Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP). Personal requires only the use of a passphrase (Shared Secret) for security.

The following parameters will be available for configuration:

WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the WPA2 option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the WPA2 Only option, the router associates only with clients that also support WPA2 security.

- **Cipher Type:** Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (**TKIP**), Advanced Encryption Standard (**AES**), and Both (**TKIP and AES**).
- **Group Key Update Interval:** Enter the amount of time before the group key used for broadcast and multicast data is changed.
 - **Pre-Shared Key:** Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully.

WIRELESS SECURITY MODE

Security Mode : WPA-Personal 💌

WPA

Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).

WPA Mode : Auto(WPA or WPA2)

Cipher Type : TKIP and AES 💌

Group Key Update Interval : 3600

PRE-SHARED KEY

Enter an 8- to 63-character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

(seconds)

Pre-Shared Key :

Wireless Security Mode: WPA-Personal

Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP). Personal requires only the use of a passphrase (Shared Secret) for security.

The following parameters will be available for configuration:

- WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the WPA2 option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the WPA2 **Only** option, the router associates only with clients that also support WPA2 securitv. **Cipher Type:** Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (TKIP and AES).
- **Group Key Update Interval:** Enter the amount of time before the group key used for broadcast and multicast data is changed.
- RADIUS Server IP Address: When the user chooses to use the EAP authentication framework, the RADIUS server's IP address can be entered here.

WIRELESS SECURITY MODE

Security Mode : WPA-Enterprise

WPA

Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy dients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use WPA2 Only security mode (or in other words AES opher).

WPA Mode : Auto(WPA or WPA2)

Cipher Type : TKIP and AES 💌

Group Key Update Interval : 3600

EAP (802.1X)	
When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate via a remote RADIUS server.	e clients
RADIUS server IP Address :	
RADIUS server Port : 1812	
RADIUS server Shared Secret :	
Advanced >>	

(seconds)

- **RADIUS Server Port:** When the user chooses to use the EAP authentication framework, the RADIUS server's port number can be entered here.
- RADIUS Server Shared Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to Secret: be able to connect to the wireless network successfully.

The following parameters will be available for configuration:

- Wireless Band: Displays the wireless band being configured. In this option we find that the following parameters will be regarding the 5 GHz band.
- Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions. Select the time frame that you would like your wireless network enabled. The schedule may be set to Always. Any schedule you create will be available in the drop-down menu. Click New Schedule to create a new schedule.

WIRELESS NETWORK SETTINGS				
Wireless Band :	5GHz Band			
Enable Wireless :	Always 💌 New Schedule			
Wireless Network Name :	dlink-media-ecba (Also called the SSID)			
802.11 Mode :	Mixed 802.11ac			
Enable Auto Channel Scan:	V			
Wireless Channel: 5.180 GHz - CH 36 💌				
Transmission Rate : Best (automatic) (Mbit/s)				
Channel Width: 20/40/80 MHz(Auto)				
Visibility Status :	Visible Invisible			

Wireless Network Name: The Service Set Identifier (SSID) is the name of your wireless network. Create a name using up to 32 characters. The SSID is case-sensitive.

802.11 Mode: Here the user can manually select the preferred frequency band to use for this wireless network.

- Enable Auto Channel Scan: The auto channel selection setting can be selected to allow this device to choose the channel with the least amount of interference.
 - Wireless Channel: By default the channel is set to 36. The channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Selection, this option will be disabled. Transmission Rate: Select the transmit rate. It is strongly suggested to select Best (Automatic) for best performance.
 - **Channel Width:** When using the 802.11n frequency band, the user has an option to choose between a 20 MHz, 20/40 MHz, or 20/40/80 MHz bandwidth.
 - Visibility Status: The Invisible option allows you to hide your wireless network. When this option is set to Visible, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network. When Invisible mode is enabled, you must enter the Wireless Network Name (SSID) on the client manually to connect to the network.

By default the wireless security of this router will be disabled. In this next option the user can enabled or disable wireless security for the 5 GHz frequency band. There are two types of encryption that can be used. WEP or WPA/WPA2.

Wireless Security Mode: WEP

Wired Equivalent Privacy (WEP) is the most basic form of encryption that can be used for wireless networks. Even though it is known as a 'weak' security method, it is better than no security at all. Older wireless adapter may only support WEP encryption and thus we still find this encryption method used today.

The following parameters will be available for configuration:

WEP Key Length: Here the user can specify to either use a 64-bit or a 128-bit encrypted key. Authentication: Authentication is a process by which the router verifies the identity of a network device that is attempting to join the wire less network. There are two types authen tication for this device when using WEP. Open System allows all wireless devices to communicate with the router before they are required to provide the encryption key needed to gain access to the network. Shared Key requires any wireless device attempting to communicate with the router to provide the encryption key needed to access the network before they are allowed to communicate with the router.

WIRELESS SECURITY MODE

Security Mode : None

Security Mode : WEP
WEP
WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 128- bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.
You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.
If you choose the WEP security option this device will ONLY operate in Legacy Wireless mode (802.118/6). This means you will NOT get 11N performance due to the fact that WEP is not supported by the Draft 11N specification.
WEP Key Length: 64 bit (10 hex digits) 💌 (length applies to all keys)
Authentication : Both
WEP Key 1 :

WEP Key 1: Enter the WEP key used here. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.

Wireless Security Mode: WPA-Personal

Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP).

The following parameters will be available for configuration:

- WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the WPA2 option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the WPA2 Only option, the router associates only with clients that also support WPA2 security.
- **Cipher Type:** Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (**TKIP**), Advanced Encryption Standard (**AES**), and Both (**TKIP and AES**).
- **Group Key Update Interval:** Enter the amount of time before the group key used for broadcast and multicast data is changed.

WIRELESS SECURITY MODE

Security Mode : WPA-Personal

WPA

Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy dients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).

WPA Mode : Auto(WPA or WPA2) -

Cipher Type : TKIP and AES

Group Key Update Interval : 3600

PRE-SHARED KEY

Enter an 8- to 63-character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

(seconds)

Pre-Shared Key :

Pre-Shared Key: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully.

Wireless Security Mode: WPA-Enterprise

Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP).

The following parameters will be available for configuration:

- **WPA Mode:** WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the WPA2 option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the WPA2 Only option, the router associates only with clients that also support WPA2 security. **Cipher Type:** Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (TKIP and AES). Group Key Update Interval: Enter the amount of time before the group key used for broadcast and multicast data is changed. RADIUS Server IP Address: When the user chooses to use the EAP authentication framework, the RADIUS server's IP address can be entered here.
- WIRELESS SECURITY MODE

Security Mode : WPA-Enterprise 💌

WPA

Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy dients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.

To achieve better wireless performance use WPA2 Only security mode (or in other words AES opher).

WPA Mode : Auto(WPA or WPA2)

Cipher Type: TKIP and AES 💌

Group Key Update Interval : 3600

EAP (802.1X)	
When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server.	
RADIUS server IP Address :	
RADIUS server Port : 1812	
RADIUS server Shared Secret :	
Advanced >>	

(seconds)

- RADIUS Server Port: When the user chooses to use the EAP authentication framework, the RADIUS server's port number can be entered here.
- RADIUS Server Shared Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to Secret: be able to connect to the wireless network successfully.

Wireless Security Mode: Enable WEP Wireless Security (basic)

Wired Equivalent Privacy (WEP) is the most basic form of encryption that can be used for wireless networks. Even though it is known as a 'weak' security method, it is better than no security at all. Older wireless adapter sometimes only supports WEP encryption and thus we still find this encryption method used today.

The following parameters will be available for configuration: Authentication: Authentication is a process by which the

> router verifies the identity of a network device that is attempting to join the wireless network. There are two types authentication for this device when using WEP. **Open System** allows all wireless devices to communicate with the router before they are required to provide the encryption key needed to gain access to the network. **Shared Key** requires any wireless device attempting to communicate with the router to provide the encryption key needed to access the network before they are allowed to communicate with the router.

WEP Encryption: Here the user can specify to either use a 64-bit or a 128-bit encrypted key.

Security Mode : Enable WEP Wireless Security (basic) . WEP WEP is the wireless encryption standard. To use it you must enter the same key(s) into the AP and the wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys, Authentication : Open -WEP Encryption : 64Bit -Default WEP Key : WEP Key 1 WEP Key : (5 ASCII or 10 HEX)

Save Settings Don't Save Settings

WIRELESS SECURITY MODE

Default WEP Key: Select the default WEP key number that will be used for the encryption.

WEP Key: Enter the WEP key used here. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.

Wireless Security Mode: Enable WPA/WPA2 Wireless Security (enhanced)

Wi-Fi Protected Access (WPA) is a more advanced and up to date wireless encryption method used today. This is the recommended wireless security option.

The following parameters will be available for configuration:

Cipher Type: Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (Auto TKIP and AES). Network Key: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully.

Click on the **Save Settings** button to accept the changes made. Click on the **Don't Save Settings** button to discard the changes made.

WIRELESS SECURITY MODE				
Security Mode : Enable	WPA/WPA2 Wireless Security (enhanced)			
WPA/WPA2				
WPA/WPA2 requires stations to use high grad Cipher Type : AUTO(Network Key : (8~63)	REP/AES)			
Save Settings Don't Save Settings				

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-820L 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 EAP. EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings.

Router Settings

Router IP Address: Enter the IP address of the router. The default IP address is 192.168.0.1.

If you change the IP address, once you click **Save Settings**, you will need to enter the new IP address in your browser to get back into the configuration utility.

- Subnet Mask: Enter the Subnet Mask. The default subnet mask is 255.255.255.0.
- Device Name: Enter a name for the router.

Local Domain: Enter the Domain name (Optional).

Enable DNS Relay: Uncheck the box to transfer the DNS server information from your ISP to your computers. If checked, your computers will use the router for a DNS server.

use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management.				
interface. If you change the IP Address here, you may need to adjust your PC's network				
settings to access the network again.				
Router IP Address :	192.168.0.1			
Subnet Mask :	255.255.255.0			
Device Name :	dlinkrouter			
Local Domain Name :				
	_			

DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DIR-820L has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DIR-820L. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

Enable DHCP Server:	Check this box to enable the DHCP server on your router. Uncheck to disable this function.	DHCP SERVER SETTINGS	
DHCP IP Address	Enter the starting and ending IP addresses for the DHCP	Use this section to configure the buil network.	t-In DHCP server to assign IP address to the computers on your
Range:	server's IP assignment.	Enable DHCP Server :	V
		DHCP IP Address Range :	100 to 199 (addresses within the LAN subnet)
	Note: If you statically (manually) assign IP addresses to your	DHCP Lease Time :	10080 (minutes)
	computers or devices, make sure the IP addresses are outside	Always broadcast :	(compatibility for some DHCP Clients)
	of this range or you may have an IP conflict.	NetBIOS announcement :	
		Learn NetBIOS from WAN :	
DHCP Lease Time:	. The length of time for the IP address lease. Enter the Lease	NetBIOS Scope :	(optional)
	time in minutes.	NetBIOS node type :	 Broadcast only (use when no WINS servers configured)
Always	If all the computers on the LAN successfully obtain their		Point-to-Point (no broadcast)
Broadcast:	IP addresses from the router's DHCP server as expected		Mixed-mode (Broadcast then Point-to-Point)
Dioudcusti	this option can remain disabled. However, if one of the		 Hybrid (Point-to-Point then Broadcast)
	computers on the LAN fails to obtain an IP address from the	Primary WINS IP Address :	
	router's DHCP server, it may have an old DHCP client that	Secondary WINS IP Address :	
	incorrectly turns off the broadcast flag of DHCP packets.		

Enabling this option will cause the router to always broadcast its responses to all clients, thereby working around the problem, at the cost of increased broadcast traffic on the LAN.

NetBIOS Check this box to allow the DHCP Server to offer NetBIOS configuration settings to the LAN hosts. NetBIOS allow LAN hosts to Announcement: discover all other computers within the network, e.g. within Network Neighborhood.

Learn NetBIOS If NetBIOS announcement is switched on, it will cause WINS information to be learned from the WAN side, if available. Turn this from WAN: setting off to configure manually.

- **NetBIOS Scope:** This is an advanced setting and is normally left blank. This allows the configuration of a NetBIOS 'domain' name under which network hosts operate. This setting has no effect if the 'Learn NetBIOS information from WAN' is activated.
- **NetBIOS Node:** This field indicates how network hosts are to perform NetBIOS name registration and discovery. H-Node indicates a Hybrid-State of operation. First WINS servers are tried, if any, followed by local network broadcast. This is generally the preferred mode if you have configured WINS servers. M-Node (default) indicates a Mixed-Mode of operation. First a broadcast operation is performed to register hosts and discover other hosts, if broadcast operation fails, WINS servers are tried, if any. This mode favours broadcast operations which may be preferred if WINS servers are reachable by a slow network link and the majority of network services such as servers and printers are local to the LAN. P-Node indicates to use WINS servers ONLY. This setting is useful to force all NetBIOS operation to the configured WINS servers. You must have configured at least the primary WINS server IP to point to a working WINS server. B-Node indicates to use local network broadcast ONLY. This setting is useful where there are no WINS servers available, however, it is preferred you try M-Node operation first. This setting has no effect if the 'Learn NetBIOS information from WAN' is activated.

WINS IP Enter your WINS Server IP address(es). **Address:**

DHCP Reservation

If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device.

Note: This IP address must be within the DHCP IP Address Range.

Enable: Check this box to enable the reservation.

- **Computer Name:** Enter the computer name or select from the drop-down menu and click <<.
 - **IP Address:** Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

MAC Address: Enter the MAC address of the computer or device.

Copy Your PC's If you want to assign an IP address to the computer you **MAC Address:** are currently on, click this button to populate the fields.

Save: Click Save to save your entry. You must click Save Settings at the top to activate your reservations.

DHCP Reservations List

DHCP Displays any reservation entries. Displays the host nameReservations List: (name of your computer or device), MAC Address, and IP address.

Enable: Check to enable the reservation.

Edit: Click the edit icon to make changes to the reservation entry.

Delete: Click to remove the reservation from the list.

ADD DHCP RESER	VATION			
Comput IP MAC	Enable : ter Name : Address : PM_test01 Address : 00:04:23:2c:51:a3 Copy Your PC's Save Clear	< PM test01		
DHCP RESERVATIONS LIST Enable Host Name MAC Address IP Address				
NUMBER OF DYNAMIC DHCP CLIENTS : 1				
Hardware Address A: 00:04:23:2c:51:a3 1	ssigned IP Hostname Expire 92.168.0.112 PM_test01 Thu	es Sep 1 19:49:06 2011	<u>Revoke</u> <u>Reserve</u>	



Storage

This page allows the user to use a web browser to remotely access files stored on USB storage drive plugged into the router.

You can access the storage device at **http://shareport.local.** when you enable SharePort Web Access

STORAGE

Web File Access allows you to use a web browser to remotely access files stored on an SD card or USB storage drive plugged into the router. To use this feature, check the Enable Web File Access checkbox, then create user accounts to manage access to your storage devices or use the Admin or Guest account (Guest/guest) to access the Guest Folder. After plugging in an SD card or USB storage drive, the new device will appear in the list with a link to it. You can then use this link to connect to the drive and log in with a user account.

Save Settings Don't Save Settings

The following parameters will be available for configuration:
Enable SharePort Web Tick this option to enable the share port
Access: web access feature.
HTTP Access Port: Enter the HTTP Access Port number used
here. By default, this value is 8181.
HTTPS Access Port: Enter the HTTPS Access Port number used
here. By default, this value is 4433.

SHAREPORT WEB ACCESS	
Enable SharePort Web Access :	7
HTTP Access Port :	8181
HTTPS Access Port :	4433
Allow Remote Access :	

Allow Remote Access: Tick this option the allow remote access to this router.

In the User Creation section, the user can create and modify usernames and passwords.

The following parameters will be available for configuration:

User Name: In the User Name field we can enter the new username that will be created. Alternatively, if we want to modify an existing user account, select a username from the drop-down menu. It will automatically be added to the User Name field for modification.

10 USER CREATION		
User Name : Password :	<< User name	
Verify Password :	Add/Edit	

Password: In the **Password** field, the user can enter the password that will be associated with the user account. **Verify Password:** In the **Verify Password** field, the user can re-enter the password that will be associated with the user account.

Click the Add/Edit button the add a new user account or modify an existing account.

In the User List section, the user can modify or delete different user settings for each account.

The following parameters will be available in the display.

No. Displays the number of the entry in the user list.
User Name: Displays the user name of the entry in the list.
Access Path: Displays the access path of the entry in the list.
Permission: Displays the permission settings of the list.

Permission: Displays the permission settings of the entry in the list.

Click the **Edit** icon to edit the access path and permission, for each user. Click the **Delete** icon to delete an account from the list.

After clicking on the Edit button, this window will appear.

The following parameters will be available for configuration:

- User Name: This field will display the current user name that will be modified. Folder: This field will display the access path that this user will have access to, after logging in. Click the Browse button to navigate to a folder located on the USB storage device.
- Permission: Here the user can select the appropriate permission setting for this user account. Permissions available for selection, from the drop-down menu are Read Only and Read/Write.

USER LIST					
No.	User Name	Access Path	Permission	Edit	Delete
1	admin	root	Read/Write		
2	Guest	USB:/Pictures	Read Only	3	
3	NewAccount	USB:/Video	Read/Write	3	9

APPEND NEW FOLDER	
User name :	Guest
Folder :	none Browse
Permission :	Read Only
	Append
	OK Cancel

Read Only permission will only allow this account to read data stored on the USB storage device within the constrains of the access path specified. **Read/Write** permission will allow this account to read and write data to and from the USB storage device within the constrains of the access path specified.

Click the Append button to add a blank account with the access path and permission specified.

Click the **OK** button to accept the changes made for the existing account.

Click the **Cancel** button to discard the changes made.

In the Number Devices section, the user can view information about the external USB storage devices inserted into the USB port of this router.

The following parameters will be available in the display

Number of Devices: This field will display the number of USB storage devices that are attached to the USB port of the router. Device: This field will display the USB storage device's name.

NUMBER DEVICES:1		
Device	Total Space	Free Space
USB	2 GB	1.9 GB

Total Space: This field will display the total space that is available on the USB storage device attached. **Free Space:** This field will display the free space that is available on the USB storage device attached.

In the HTTP Storage Link section, the user can use this link to connect to the drive remotely after logging in with a user account.

Notice the path of the link(s) provided will point to the external interface of this router. If no DDNS account is specified on the Dynamic DNS page, the WAN IP address will be used. If, however, a DDNS account is specified, then the domain name will be used.

Click on the **Save Settings** button to accept the changes made. Click on the **Don't Save Settings** button to discard the changes made.

HTTP STORAGE LINK	
You can then use this link to connect to the drive and log in with a user account.	
Web File Access Http Link	
Web File Access Https Link	
Save Settings Don't Save Settings	

IPv6

On this page, the user can configure the IPv6 Connection type. There are two ways to set up the IPv6 Internet connection. You can use the Web-based IPv6 Internet Connection Setup Wizard, or you can manually configure the connection.

For the beginner user that has not configured a router before, click on the **IPv6 Internet Connection Setup Wizard** button and the router will guide you through a few simple steps to get your network up and running.

For the advanced user that has configured a router before, click on the **Manual IPv6** Internet Connection Setup button to input all the settings manually.





IPV6 LOCAL CONNECTIVITY SETTINGS
Use this section to configure Unique Local IPv6 Unicast Addresses(ULA) settings for your router. ULA is intended for local communications and not expected to be routable on the global Internet. Save Settings Don't Save Settings
IPV6 III & SETTINGS
Enable ULA :
Use Default ULA Prefix : 🔽 ULA Prefix : fid4d:8122:19e1:0000:: /64
CURRENT IPV6 ULA SETTINGS
Current ULA Prefix : LAN IPv6 ULA :

IPv6 Internet Connection Setup Wizard

On this page, the user can configure the IPv6 Connection type using the IPv6 Internet Connection Setup Wizard.

Click the **IPv6 Internet Connection Setup Wizard** button and the router will guide you through a few simple steps to get your network up and running.

IPV6 INTERNET CONNECTION SETUP WIZARD

If you would like to utilize our easy to use Web-based Wizard to assist you in connecting your new D-Link Systems Router to the IPv6 Internet, click on the button below.

IPv6 Internet Connection Setup Wizard

Note: Before launching the wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

Click **Next** to continue to the next page. Click **Cancel** to discard the changes made and return to the main page.



The router will try to detect whether its possible to obtain the IPv6 Internet connection type automatically. If this succeeds then the user will be guided through the input of the appropriate parameters for the connection type found.



However, if the automatic detection fails, the user will be prompted to either **Try again** or to click on the **Guide me through the IPv6 settings** button to initiate the manual continual of the wizard.

STEP 1: CONFIGURE YOUR IPV6 INT	ERENT CONNECTION
Router is unable detect your IPv6 Inter	net connection type
Cancel Try again	Guide me through the IPv6 setting

There are several connection types to choose from. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider.

Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computers has been removed or disabled. The 3 options available on this page are **IPv6 over PPPoE, Static IPv6 address and Route**, and **Tunneling Connection**.

Choose the required IPv6 Internet Connection type and click on the **Next** button to continue. Click on the **Prev** button to return to the previous page. Click on the **Cancel** button to discard all the changes made and return to the main page.

STE	P 1: CONFIGURE YOUR IPV6 INTERENT CONNECTION
Plea	ise select your IPv6 Interent Connection type
\odot	IPv6 over PPPoE
	Choose this option if your IPv6 Interent connection requires a username and password to get online. Most DSL modems use this type of connection.
$^{\circ}$	Static IPv6 address and Route
	Choose this option if your Interent Service Provider (ISP) provided you with IPv6 address information that has to be manually configured.
o	Tunneling Connection (6rd)
	Choose this option if your Interent Service Provider (ISP) provided you a IPv6 Internet connection by using 6rd automatic tunneling mechanism.
	Prev Next Cancel Connect

Click on the **Next** button to continue. Click on the **Prev** button to return to the previous page.

Click on the **Cancel** button to discard all the changes made and return to the main page.

IPv6 over PPPoE

After selecting the IPv6 over PPPoE option, the user will be able to configure an IPv6 Internet connection that requires a username and password to get online. Most DSL modems use this type of connection.

The following parameters will be available for configuration:

- **PPPoE Session:** Select the PPPoE Session value used here. This option will state that this connection shares it's information with the already configured IPv6 PPPoE connection, or the user can create a new PPPoE connection here.
 - **User Name:** Enter the PPPoE username used here. If you do not know your user name, please contact your ISP.
 - **Password:** Enter the PPPoE password used here. If you do not know your password, please contact your ISP.
- Verify Password: Re-enter the PPPoE password used here.
 - **Service Name:** Enter the service name for this connection here. This option is optional.

To set up this connection you w Service Provider. If you do not l	vill need to have a Username and Password from your IPv6 Internet have this information, please contact your ISP.
PPPoE Session:	Share with IPv4 C Create a new session
Username :	
Password :	
Verify Password :	
Service Name :	(Optional)
Note: You may also need to provid contact your ISP.	e a Service Name. If you do not have or know this information, please
[Prev Next Cancel Connect
Static IPv6 Address Connection

This mode is used when your ISP provides you with a set IPv6 addresses that does not change. The IPv6 information is manually entered in your IPv6 configuration settings. You must enter the IPv6 address, Subnet Prefix Length, Default Gateway, Primary DNS Server, and Secondary DNS Server. Your ISP provides you with all this information.

- Use Link-LocalThe Link-local address is used by nodes and routers when
communicating with neighboring nodes on the same link.
This mode enables IPv6-capable devices to communicate
with each other on the LAN side.
- IPv6 Address: Enter the WAN IPv6 address for the router here.
- **Subnet Prefix** Enter the WAN subnet prefix length value used here. **Length:**
- Default Gateway: Enter the WAN default gateway IPv6 address used here.
- **Primary IPv6 DNS** Enter the WAN primary DNS Server address used here. **Address:**
 - **Secondary IPv6** Enter the WAN secondary DNS Server address used here. **DNS Address:**
- LAN IPv6 Address: These are the settings of the LAN (Local Area Network) IPv6 interface for the router. The router's LAN IPv6 Address configuration is based on the IPv6 Address and Subnet assigned by your ISP. (A subnet with prefix /64 is supported in LAN.)

SET STATIC IPV6 ADDRESS	CONNECTION	
To set up this connection you v IPv6 Internet Service Provider. information, please contact you	vill need to have a complete If you have a Static IPv6 co ır ISP.	list of IPv6 information provided by your nnection and do not have this
Use Link-Local Address :		
IPv6 Address :	FE80::218:E7FF:FE95:689F]
Subnet Prefix Length :	64	
Default Gateway :]
Primary DNS Address :]
Secondary DNS Address :]
LAN IPv6 Address :		/64
	Prev Next Cancel	Connect

Tunneling Connection (6rd)

After selecting the Tunneling Connection (6rd) option, the user can configure the IPv6 6rd connection settings.

The following parameters will be available for configuration: **6rd IPv6 Prefix:** Enter the 6rd IPv6 address and prefix value used here. **IPv4 Address:** Enter the IPv4 address used here.

Mask Length: Enter the IPv4 mask length used here.

Assigned IPv6 Prefix: Displays the IPv6 assigned prefix value here.

6rd Border Relay IPv4 Enter the 6rd border relay IPv4 address used here. Address: IPv6 DNS Server: Enter the primary DNS Server address used here.

SET UP 6RD TUNNELING CONNECTION
To set up this 6rd tunneling connection you will need to have the following information from your IPv6 Internet Service Provider. If you do not have this information, please contact your ISP.
6rd IPv6 Prefix : / 32
IPv4 Address: 192.168.1.2 Mask Length: 0
Assign IPv6 Prefix : None Tunnel Link-Local Address : FERD::CDA8:0102/64
6rd Border Relay IPv4
IPv6 DNS Server :
Prev Next Cancel Connect

The IPv6 Internet Connection Setup Wizard is complete.

Click on the **Connect** button to continue. Click on the **Prev** button to return to the previous page. Click on the **Cancel** button to discard all the changes made and return to the main page.

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

IPv6 Manual Setup

There are several connection types to choose from: Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IPv4 Tunnel, 6to4, 6rd, and Link-local. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider.

Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computer has been removed or disabled.

Auto Detection

Select **Auto Detection** to have the router detect and automatically configure your IPv6 settings from your ISP.

IPv6 CONNECTION TYPE	
Choose the mode to be used by the router to the IPv6 Internet.	
My IPv6 Connection is :	Auto Detection
IPv6 DNS SETTINGS	
Obtain a DNS server address au	itomatically or enter a specific DNS server address.
۲	Obtain a DNS server address automatically
0	Use the following DNS address
Primary DNS Server :	
Secondary DNS Server :	
Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Address : FE80::218:E7FF:FE95:689E/64	
ADDRESS AUTOCONFIGURA	TION SETTINGS
Use this section to setup IP computers on your network.Y router in your LAN.	v6 Autoconfiguration to assign IP addresses to the ou can also enable DHCP-PD to delegate prefixes for
Enable automatic IPv6	
address assignment : Enable Automatic DHCP-PD in	
LAN :	
Autoconfiguration Type : SLAAC + Stateless DHCPv6 🔽	
Router Auverusement	1440 (minutes)

Static IPv6

My IPv6 Connection: Select Static IPv6 from the drop-down menu.

WAN IPv6 Address Enter the address settings supplied by your Internet provider Settings: (ISP).

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

LAN Link-Local Address: Displays the Router's LAN Link-Local Address.

Enable Check to enable the Autoconfiguration feature. **Autoconfiguration:**

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

- IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your Start: local computers.
- **IPv6 Address Range** Enter the end IPv6 Address for the DHCPv6 range for your **End:** local computers.

IPv6 Address Lifetime: Enter the IPv6 Address Lifetime (in minutes).

IPv6 CONNECTION TYPE	
Choose the mode to be used by the router to the IPv6 Internet.	
My IPv6 Connection is : Static IPv6	
WAN IPv6 ADDRESS SETTINGS	
Enter the IPv6 address information provided by your Internet Service Provider (ISP)).
Use Link-Local Address : 🔽	
IPv6 Address : FE80::218:E7FF:FE95:689F	
Subnet Prefix Length: 64	
Default Gateway :	
Primary DNS Server :	
Secondary DNS Server :	
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If yo change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.	ou ork
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If yo change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. LAN IPv6 Address :/64	ou Jrk
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. LAN IPv6 Address :/64 LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64	ou Jrk
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. LAN IPv6 Address : //64 LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64 ADDRESS AUTOCONFIGURATION SETTINGS	ou ork
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If yo change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. LAN IPv6 Address :	ou ork he
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. LAN IPv6 Address : //64 LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64 ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. Enable automatic IPv6 Address : //	ou ork
LAN IPv6 ADDRESS SETTINGS Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again. LAN IPv6 Address : /64 LAN IPv6 Link-Local Address : /64 ADDRESS AUTOCONFIGURATION SETTINGS Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network. Enable automatic IPv6 address : Autoconfiguration Type : SLAAC + Stateless DHCPv6	ou ork

Autoconfiguration

My IPv6 Connection: Select Autoconfiguration (Stateless/DHCPv6) from the drop-down menu.

IPv6 DNS Settings: Select either Obtain DNS server address automatically or Use the following DNS Address.

Primary/Secondary DNS Enter the primary and secondary DNS server addresses. Address:

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

LAN Link-Local Address: Displays the Router's LAN Link-Local Address.

Enable Check to enable the Autoconfiguration feature. **Autoconfiguration:**

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

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your Start: local computers.

IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your End: local computers.

IPv6 Address Lifetime: Enter the IPv6 Address Lifetime (in minutes).

IPv6 CONNECTION TYPE	
Chaose the mode to be used k	with a resistant to the IDuG Internet
choose the mode to be used t	by the router to the 1946 Internet.
My IPv6 Connection is :	Autoconfiguration (SLAAC/DHCPv6)
IPv6 DNS SETTINGS	
Obtain a DNR coruer address a	utomotically or optor a specific DNR server address
	atomatically of effect a specific DNG server address.
o	Obtain a DNS server address automatically
0	Use the following DNS address
Primary DNS Server :	_
Cocondary DNC Corver	
WELL FROM THE WAY WELF ALL PROPERTY AND A STREET AND A ST	
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network	GS the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo < again.
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network	GS the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo < again.
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD :	GS the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo k again.
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addres settings to access the network Enable DHCP-PD : LAN IPv6 Address :	GS the internal network settings of your router. If your ss here, you may need to adjust your PC netwo k again. /64 EERD::219:EZEE:EEDS:620E/64
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addres settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address :	GS the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo k again. /64 FE80::218:E7FF:FE95:689E/64
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURA	GS the internal network settings of your router. If your ss here, you may need to adjust your PC netwo k again. /64 FE80::218:E7FF:FE95:689E/64 TION SETTINGS
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Address : ADDRESS AUTOCONFIGURA Use this section to setup IF computers on your network. router in your LAN.	GS the internal network settings of your router. If your so here, you may need to adjust your PC netwook again. To set the set of t
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Address : ADDRESS AUTOCONFIGURA Use this section to setup IF computers on your network. router in your LAN. Enable automatic IPv6	GS the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo (again. /64 FE80::218:E7FF:FE95:689E/64 TION SETTINGS Pv6 Autoconfiguration to assign IP addresses to th You can also enable DHCP-PD to delegate prefixes f
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addres settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURA Use this section to setup IF computers on your network. router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in	GS the internal network settings of your router. If your so here, you may need to adjust your PC netwook again.
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Address : ADDRESS AUTOCONFIGURA Use this section to setup IF computers on your network A router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN :	GS the internal network settings of your router. If your so here, you may need to adjust your PC network again.
LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURA Use this section to setup IF computers on your network A router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN : Autoconfiguration Type : Router Advertisement	GS the internal network settings of your router. If your so here, you may need to adjust your PC network again.

PPPoE

My IPv6 Connection: Select PPPoE from the drop-down menu.

- **PPPoE:** Enter the PPPoE account settings supplied by your Internet provider (ISP).
- Address Mode: Select Static if your ISP assigned you an IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic.

IP Address: Enter the IP address (Static PPPoE only).

User Name: Enter your PPPoE user name.

Password: Enter your PPPoE password and then retype the password in the next box.

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

Reconnection Mode: Select either Always-on, On-Demand, or Manual.

- **Maximum Idle Time:** Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.
 - **MTU:** Maximum Transmission Unit you may need to change the MTU for optimal performance with your specific ISP.
- IPv6 DNS Settings: Select either Obtain DNS server address automatically or Use the following DNS Address.
- Primary/Secondary DNS Enter the primary and secondary DNS server addresses. Address:

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

LAN Link-Local Address: Displays the Router's LAN Link-Local Address.

Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

IPv6 CONNECTION TYPE	
Choose the mode to be used b	y the router to the IPv6 Internet.
My IPv6 Connection is :	PPPoE 💌
PPPOE	
Enter the information provided	l by your Internet Service Provider (ISP).
PPPoE Session:	Share with IPv4 ○ Create a new session
Address Mode :	💿 Dynamic IP 🔿 Static IP
IP Address :	
Username :	
Password :	
Verify Password :	
Service Name :	(Optional)
Reconnect Mode :	Always on On demand Manual
Maximum Idle Time :	5 (minutes, 0=infinite)
MTU :	1492 (bytes)MTU default = 1492
© C Primary DNS Server : Secondary DNS Server :	Obtain a DNS server address automatically Use the following DNS address
LAN IPv6 ADDRESS SETTIN	ចទ
Use this section to configure change the LAN IPv6 Addres settings to access the network	the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Enable DHCP-PD :	
LAN IPv6 Address :	/64
LAN IPv6 Link-Local Address :	FE80::218:E7FF:FE95:689E/64
ADDRESS AUTOCONFIGURA	TION SETTINGS
Use this section to setup IPv6 computers on your network.Yc router in your LAN.	Autoconfiguration to assign IP addresses to the w can also enable DHCP-PD to delegate prefixes for
Enable automatic IPv6	
address assignment : Enable Automatic DHCP-PD in	-
LAN :	
Autoconfiguration Type :	SLAAC + Stateless DHCPv6
Router Advertisement Lifetime:	1440 (minutes)

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

IPv6 Address Range Start: Enter the start IPv6 Address for the DHCPv6 range for your local computers.

IPv6 Address Range End: Enter the end IPv6 Address for the DHCPv6 range for your local computers.

IPv6 Address Lifetime: Enter the IPv6 Address Lifetime (in minutes).

IPv6 in IPv4 Tunneling

My IPv6 Select IPv6 in IPv4 Tunnel from the drop-down menu. Connection:

- IPv6 in IPv4 Tunnel Enter the settings supplied by your Internet provider (ISP). Settings:
- LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.
 - LAN Link-Local Displays the Router's LAN Link-Local Address. Address:

Enable Check to enable the Autoconfiguration feature. **Autoconfiguration:**

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

IPv6 Address Enter the start IPv6 Address for the DHCPv6 range for your local **Range Start:** computers.

- **IPv6 Address** Enter the end IPv6 Address for the DHCPv6 range for your local **Range End:** computers.
- **Pv6 Address** Enter the Router Advertisement Lifetime (in minutes). Lifetime:

IPv6 CONNECTION TYPE	
Choose the mode to be used b	y the router to the IPv6 Internet.
My IPv6 Connection is :	IPv6 in IPv4 Tunnel
IPv6 in IPv4 TUNNEL SETTI	NGS
Enter the IPv6 in IPv4 Tunnel i	nformation provided by your Tunnel Broker.
Remote IPv4 Address :	
Remote IPv6 Address :	
Local IPv4 Address :	192.168.1.2
Local IPv6 Address :	
IPv6 DNS SETTINGS	
Obtain a DNS server address au	tomatically or enter a specific DNS server address.
e	Obtain a DNS server address automatically
0	Lise the following DNS address
Brimaru DNR Soruar :	
PUILIALY DING OPLYPE	
Secondary DNS Server :	
Secondary DNS Server :	GS
Secondary DNS Server : LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Addres settings to access the network	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Addres settings to access the network Enable DHCP-PD :	GS the internal network settings of your router. If you as here, you may need to adjust your PC network again.
Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addres settings to access the network Enable DHCP-PD : LAN IPv6 Address :	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address :	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network.Y router in your LAN.	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network.Y router in your LAN. Enable automatic IPv6	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network.Y router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic IPv6	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network.Y router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN :	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network.Y router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN : Autoconfiguration Type :	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.
Secondary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTINI Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network.Y router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN : Autoconfiguration Type : Router Advertisement	GS the internal network settings of your router. If you is here, you may need to adjust your PC network again.

6 to 4 Tunneling

My IPv6 Connection: Select 6 to 4 from the drop-down menu.

6 to 4 Settings: Enter the IPv6 settings supplied by your Internet provider (ISP).

Primary/Secondary Enter the primary and secondary DNS server addresses. DNS Address:

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

LAN Link-Local Displays the Router's LAN Link-Local Address. Address:

Enable Check to enable the Autoconfiguration feature. **Autoconfiguration:**

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

IPv6 Address Range Enter the start IPv6 Address for the DHCPv6 range for your local Start: computers.

IPv6 Address Range Enter the end IPv6 Address for the DHCPv6 range for your local End: computers.

IPv6 Address Enter the IPv6 Address Lifetime (in minutes). Lifetime:

	IPv6 CONNECTION TYPE
	Choose the mode to be used by the router to the IPv6 Internet.
	My IPv6 Connection is : 6to4
	6to4 SETTINGS
	Enter the IDu6 address information provided by your Internet Service Provider (ISD)
	Enter the 1940 autress information provided by your internet befaite Provider (159).
	6to4 Address : 2002:C0A8:0102::C0A8:0102
	6to4 Relay : [192.88.99.1
	Secondary DNS Server :
	LAN IPv6 ADDRESS SETTINGS
5	Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.
	LAN IPv6 Address : 2002:C0A8:0102:0001 ::1/64
'	LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64
	ADDRESS AUTOCONFIGURATION SETTINGS
I	Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.
	Enable automatic IPv6 🖂 address assignment :
	Autoconfiguration Type : SLAAC + Stateless DHCPv6 -
	Router Advertisement Lifetime: 60 (minutes)

6rd

My IPv6 Connection: Select 6rd from the drop-down menu.

6RD Settings: Enter the address settings supplied by your Internet provider (ISP).

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

LAN Link-Local Address: Displays the Router's LAN Link-Local Address.

Enable Check to enable the Autoconfiguration feature. **Autoconfiguration:**

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

Router Advertisement Enter the Router Advertisement Lifetime (in minutes). Lifetime:

IPv6 CONNECTION TYPE
Choose the mode to be used by the router to the IPv6 Internet.
My IPv6 Connection is : 6rd
Enter the IPv6 address information provided by your Internet Service Provider (ISP).
6rd Configuration : 💿 6rd DHCPv4 Option 🔿 Manual Configuration
6rd IPv6 Prefix : / 32
IPv4 Address: 192.168.1.2 Mask Length:
Assign IPv6 Prefix : None Tumpel Link Local Address : FERBUCGAD(0102)(64
6rd Border Relay IPv4
Address :
Secondary DNS Server :
LAN IPv6 ADDRESS SETTINGS
Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC network settings to access the network again.
LAN IPv6 Address : None
LAN IPv6 Link-Local Address: FE80::218:E7FF:FE95:689E/64
ADDRESS AUTOCONFIGURATION SETTINGS
Her Alsis suching the suching TDurf. Asthermotion which the section TD sub-
computers on your network.
Enable automatic IPv6 🖂
address assignment :
Autocomiguration Type: Staac + Stateless DHCPV6
Router Advertisement