Version 1.0 | 07/25/2012

D-Link



User Manual

Cloud Gigabit Router N600 with SmartBeam[™] Technology

DIR-845L

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		Description
1.0	July 6, 2012	Initial release for Revision A1

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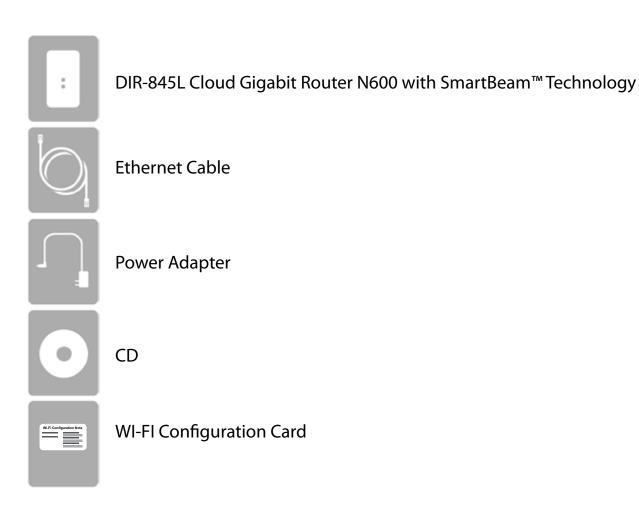
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Package Contents



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-845L will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based Cable or DSL modem 802.11a, 802.11n or 802.11g wireless clients 10/100/1000 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 the 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. The 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 realtime 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 unwelcomed guests who try to get into your wireless network and suspicious activities will be displayed right on your mydlink[™] Lite app or browser.

The D-Link Cloud Gigabit Router N600 with SmartBeam[™] Technology (DIR-845L) comes equipped with 4 Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports. It also uses 802.11n technology with multiple intelligent antennas to maximize the speed and range of your wireless signal to significantly outperform 802.11g devices.

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, applications like video streaming could pause or delay. With the D-Link Intelligent QoS Technology, wired and wireless traffic are analyzed and separated into multiple data streams.

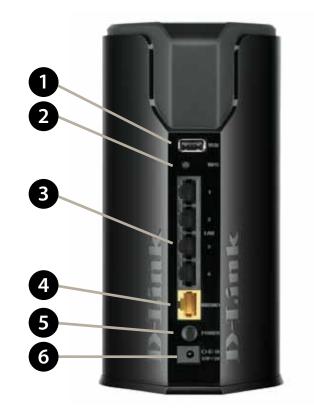
The DIR-845L supports the latest wireless security features to help prevent unauthorized access, be it from over a wireless network or the Internet. Support for WPA[™] and WPA2[™] standards ensure that you will be able to use the best possible encryption regardless of your client devices. In addition, this router utilizes Dual Active Firewalls (SPI and NAT) to prevent potential attacks from across the Internet for the ideal centerpiece for your wireless network in the home or office.

Features

- Faster Wireless Networking The DIR-845L provides up to 300Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio. The performance of this 802.11n wireless router gives you the freedom of wireless networking at speeds 14x faster than 802.11g.
- **Compatible with 802.11a/g Devices** The DIR-845L is still fully compatible with the IEEE 802.11g and 802.11a standards, so it can connect with existing 802.11g and 802.11a 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-845L can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-845L can securely access corporate networks.
- User-friendly Setup Wizard Through its easy-to-use Web-based user interface, the DIR-845L 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.

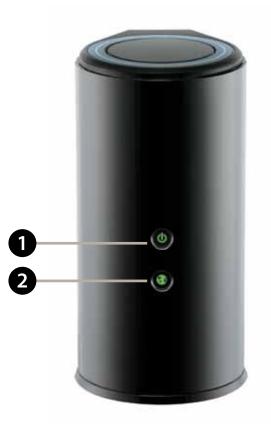
^{*} Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11g and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput 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	Reset Button	Press the button to restore the device to its original factory default settings.
3	LAN Ports(1-4)	Connect 10/100/1000 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		A solid 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.
2	Internet LED	A solid light indicates connection on the Internet port. If the LED is orange, the connection is good but the router cannot connect to 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.

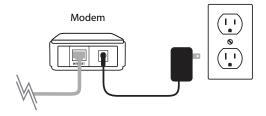
Wireless Installation Considerations

The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, 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:

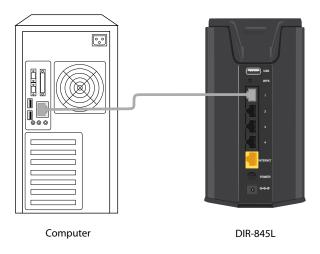
- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between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

Manual Setup

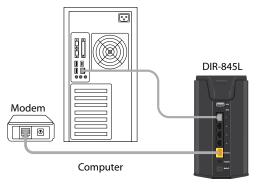
1. Turn off and unplug your cable or DSL broadband modem. This is required.



- 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.



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. If a solid 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.

Connect to an Existing Router

Note: It is strongly recommended to replace your existing router with the DIR-845L instead of using both. If your modem is a combo router, you may want to contact your ISP or manufacturer's user guide to put the router into Bridge mode, which will 'turn off' the router (NAT) functions.

If you are connecting the DIR-845L router to an existing router to use as a wireless access point and/or switch, you will have to do the following to the DIR-845L before connecting it to your network:

- Disable UPnP[™]
- Disable DHCP
- Change the LAN IP address to an available address on your network. The LAN ports on the router cannot accept a DHCP address from your other router.

To connect to another router, please follow the steps below:

- 1. Plug the power into the router. Connect one of your computers to the router (LAN port) using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the **Networking Basics** section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.
- 2. Open a web browser, enter http://dlinkrouter.local and press Enter. When the login window appears, set the user name to Admin and leave the password box empty. Click Log In to continue.
- 3. Click on Advanced and then click Advanced Network. Uncheck the Enable UPnP checkbox. Click Save Settings to continue.
- 4. Click Setup and then click Network Settings. Uncheck the Enable DHCP Server checkbox. Click Save Settings to continue.

- 5. Under Router Settings, enter an available IP address and the subnet mask of your network. Click **Save Settings** to save your settings. Use this new IP address to access the configuration utility of the router in the future. Close the browser and change your computer's IP settings back to the original values as in Step 1.
- 6. Disconnect the Ethernet cable from the router and reconnect your computer to your network.
- 7. Connect an Ethernet cable in one of the **LAN** ports of the router and connect it to your other router. Do not plug anything into the Internet (WAN) port of the D-Link router.
- 8. You may now use the other 3 LAN ports to connect other Ethernet devices and computers. To configure your wireless network, open a web browser and enter the IP address you assigned to the router. Refer to the **Configuration** and **Wireless Security** sections for more information on setting up your wireless network.

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 page 14.
- QRS Mobile App Use your iPhone, iPad, or iPod Touch to configure your router. Refer to page 21
- Manual Setup Log into the router and manually configure your router (advanced users only). Refer to page 27.

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 page 27.

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.

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

D-Link - Home	Home Office × +	
← → C f	Q	

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

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.

		-		
			Cable/xDSL Broadband Mode	m
11 (C)				1
-	1	ר 💵		

STEP 1: CONFIGURE YOUR INTERNET CONNECTION

Routers is unable to detect your I		
The story labor over 1		10
Cancel Try again	Guide me through the Internet connection settings	

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 Moderns 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 moderns use this connection type of connection.
C Username / Password Connection (PPTP) PPTP clent.
C Username / Password Connection (L2TP) L2TP dent.
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

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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.

ET USERNAME AND PASSWO	ORD CONNECTION (PPPOE)
	Il need to have a Username and Password from your Internet ave this information, please contact your ISP.
User Name :	
Password :	
	Prev Next Cancel

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

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 adress. If you do not have this information, please contact your ISP.
Address Mode : @ Dynamic IP C 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

D-Link DIR-845L User Manual

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

For both the 2.4GHz and 5GHz 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 or key entered to be able to connect to your wireless network.

Click **Next** to continue.

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.

Internet Service Provider. If yo	will need to have a complete list of IP information provided by your ou 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 Cencel

STEP 2: CONFIGURE YOUR WI-FI SECURITY	
Give your Wi-Fi network a name and password. (2.4GHz Band)	la
Wi-Fi Network Name (SSID) :	
dink.	(Using up to 32 characters)
Wi-Fi Password :	
mywfipassword	(Between 8 and 63 characters)
Give your Wi-Fi network a name and password. (SGHz Band)	la
Wi-Fi Network Name (SSID) :	
dink_media	(Using up to 32 characters)
Wi-Fi Password :	
mywfipassword	(Between 8 and 63 characters)
Prev Next	Cancel

to the Web-based configuratio a password below, and enablin	RD 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

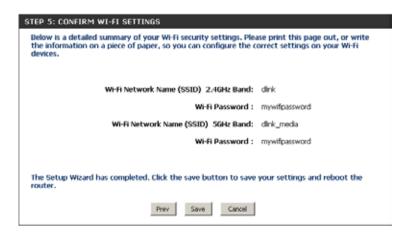
Select your time zone from the drop-down menu and click **Next** to continue.

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

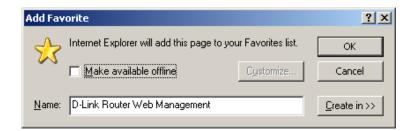
If you want to create a bookmark to the router, click **OK**. Click **Cancel** if you do not want to create a bookmark.

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-00:00) Pacific Time (U5/Canada), Tijuana			
Prev Next Cancel			







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

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

 MYDLINK REGISTRATION

 To use the features of mydlink.com and the mydlink Lite app, you will need an account with mydlink.com. If you already have an account, select Yes, I have a mydlink account and click Next to register the router with mydlink.com. 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?

 Image: The service of the mydlink account is a mydlink account.

 Image: The service of the mydlink account?

 Image: The service of the mydlink account.

 Image: The service of the mydlink account.

 Image: The service of the mydlink account is a mydlink account.

Next

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

Cancel

Please	fulfill the options	to complete the registration.	
E-mail Address (Account I	Name) :		
Pas	sword :		
Confirm Pas	saword :		
Frst	Name :		
Last	name :		

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.







dillor billes

Sign in to mydlink

QRS Mobile App

D-Link offers an app for your iPad, iPod Touch, or iPhone (iOS 4.3 or higher) 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.



Web torowser link:	Web between links
ntps//diview.tor https://102.103.01	https://dleducation.cv https://110.166.01
Definit configuration	Your configuration
(Serverse: "Admin" Resource: " Down the Robit Stanks	Utomarne: Admin Faxword
W-Fi Name (SSD) direk adla	W-Riteme (15/DL
W-FiPeniword i Adod;19368	wh-ti-Passannit-

Step 3

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



D-Link[®] SharePort[™] Plus

Introduction

The D-Link SharePort[™] Plus technology will allow you to connect a multi-function printer (MFP), scanner, or USB storage device to your SharePort[™] Plus enabled device and share the device with multiple computers^{*}. Only these devices will be supported.

SharePort[™] Plus enabled devices will allow multiple users to simultaneously connect to and share a USB disk drive.

Install the SharePort[™] Plus Utility on the computer or computers that you would like to use the USB device(s) with. Remember that the computer(s) will also need the device drivers for the USB devices connected to the router.

* For devices other than USB storage, only one user can be connected to a USB device at a time. SharePort[™] Plus has a printer autoconnect function to make sharing printers easy among multiple users as well as other features for sharing devices.

How to setup and use this function. Please refer to the content of CD "SharePort plus manual" and install SharePort plus utility.



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-845L.

2. Scan the bar code to download the **SharePort Mobile APP** from the app store to your iPhone or iPad.



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.

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CT

me

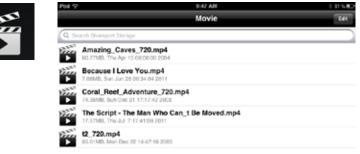


3:40 PM



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.

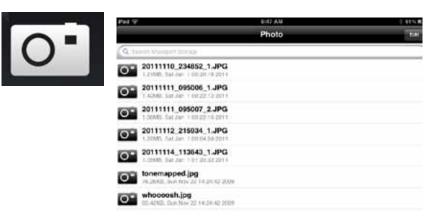


Files 5

9. For the Music section, click the music icon to play your music from your USB flash drive.



10. For the Photo section, click the Photo icon to view your photos from your USB flash drive.



11. For the Files section, click on the Files icon to view your files from your USB flash drive.

	Pol T	File	166
_	Commentations and the second s		2
_			

12. For the Folder section, click the folder icon to view your folders from your USB flash drive.



	Folder	
		1.00
Q haven newper sample		
DIR-505 Files		>
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 or http://192.168.0.1).



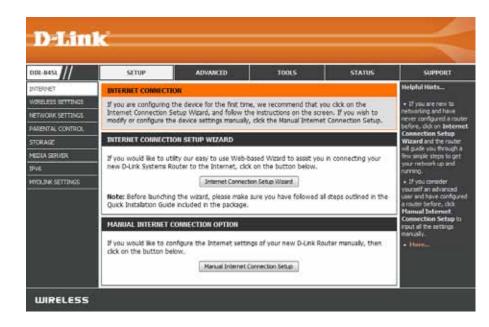
Leave the password blank by default.

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

Internet Connection Setup

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.

Next

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

Step 1: Set Your Password

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.

STEP 1: SET YOUR PASSWORD	
By default, your new D-Link Router does not have a passw the Web-based configuration pages. To secure your new no password below:	-
Password : Verify Password :	
Prev Next Cancel	Connect

Cancel

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.

Select the appropria	ite time zone for your location. This information is required to configure the	time-
based options for th		
	Time Zone : (GMT+08:00) Talpel	
	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 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 Internet Setup Provider provided you with IP Address information that has to be manually configured.

f	our Internet Connection could not be detected, please select your Internet Service Provider (ISP) rom the list below. If your ISP is not listed; select the 'Not Listed or Don't Know' option to manually onfigure your connection.
	Not Listed or Don't Know
	f your Internet Service Provider was not listed or you don't know who it is, please select the Internet onnection type below:
0	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.

Step 3: Internet Connection (Dynamic IP Address)

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

The following parameters will be available for configuration: **MAC Address:** Enter the MAC address of the Internet gateway (plugged into the Internet port of this device) here. Clone Button: If the configuration PC also acts as the Internet gateway, then click on the Clone 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 vour 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)
	Cone Your PC's MAC Address
Host Name	dinkrouter
ite: You may also need to provide a Hos P. NS SETTINGS	it Name.If you do not have or know this information, please contact y
Р.	

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 Provider. If you do not have this inform		and Password from your Internet Service ct 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:

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. PPTP usual 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. PPTP Gateway IP Address : 0.0.0.0 This option is only available if Static IP is PPTP Server IP Address : 0.0.0.0 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 : **User Name:** Enter the PPTP username used here. **Password:** Enter the PPTP password used here. Prev Cancel Next 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.

SET USERNAME AND PASSWORD CONNECTION (PPTP)

To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need PPTP IP address. If you do not have this information, please contact your ISP. Address Mode : (a) Dynamic IP (b) Static IP

(optional)

Connect

(may be same as gateway)

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 usual 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.

Address Mode L2TP IP Address	: Dynamic II	🔊 💿 Static IP
L2TP Subnet Mask		
L2TP Gateway IP Address		
L2TP Server IP Address		(may be same as gateway)
User Name	:	
Password	:	
Verify Password	:	
NS SETTINGS		
Primary DNS Address	:	
Secondary DNS Address	:	(optional)

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	
		list of IP information provided by your on and do not have this information, please
IP Address :	0.0.0.0	1
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 settings.
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. We'll discuss them from top to bottom.

At any given point the user can save the configuration done, 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.

MANUAL INTERNET CONNECTION OPTION

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

Manual Internet Connection Setup

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 you 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 :	
	e if your Internet Service Provider (ISP) didn and/or a username and password.	't provide
Host Name :	dinkrouter	
Use Unicasting :	(compatibility for some DHCP Servers)	
Primary DNS Server :		
Secondary DNS Server :	(optional)	
MTU :	1500	
MAC Address :		
	Clone Your PC's MAC Address	

.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU.

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 Clone 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. 1500 is the default MTU.
- 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	
Choose the mode to be used by the router to connect to the Internet.	
My Internet Connection is :	Static IP
STATIC IP ADDRESS INTERM	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 your PPPoE software from your computer. The software is no longer needed and will not work through a router.

My Internet Connection: Select PPPoE (Username/Password) from the drop-down	INTERNET CONNECTION TYPE
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 connection requires the use of a Dynamic or Static IP address. PPPoE usually	My Internet Connection IS : PPPoE (Username / Password)
requires a Dynamic IP configuration. IP Address: Enter the PPPoE IP address used here. This option is only	PPPOE INTERNET CONNECTION TYPE :
available if Static IP is selected.	Enter the information provided by your Internet Service Provider (ISP).
Username: Enter the PPPoE account user name used here. This information is	Address Mode : Oynamic IP Static IP
given by the ISP.	IP Address :
Password: Enter the PPPoE account password used here. This information is	Username :
given by the ISP.	Password :
Verify Password: Re-enter the PPPoE account password used here.	Verify Password :
Service Name: This optional field enables the user to enter a service name to	Service Name : (optional)
identify this Internet connection here. Reconnect Mode: Use the radio buttons to specify the reconnect mode. The user	Reconnect Mode : Always or New Schedule
can specify a custom schedule or specify the On Demand , or	On demand
Manual option. To specify a custom schedule, use the drop-	Maximum Idle Time : (minutes, 0=infinite)
down menu to select one of the schedules that has been defined	DNS Mode : Receive DNS from ISP Enter DNS Manually
in the Schedules page.	Primary DNS Server :
in the schedules page.	Secondary DNS Server : (optional)
	MTU: 1492
	MAC Address :
	Clone Your PC's MAC Address

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

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity.

DNS Mode: This option allow 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. 1492 is the default MTU.
 - 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 **Clone Your PC's MAC Address** button to replace the Internet port's MAC address with the MAC address of your Ethernet card.

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	
configuration.	PPTP INTERNET CONNECTION TYPE :
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 : O Dynamic 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. The user can specify a custom schedule or specify the On	Reconnect Mode : Always of New Schedule
Demand , or Manual option. To specify a custom schedule,	On demand C Manual
use the drop-down menu to select one of the schedules	Maximum Idle Time : (minutes, 0=infinite)
that has been defined in the Schedules page. To create a	Primary DNS Server :
new schedule, click the New Schedule button to open the	Secondary DNS Server : (optional)
Schedules page. Schedules will be discussed later.	MTU: 1400
Schedules page. Schedules will be discussed later.	MAC Address :
	Clone Your PC's MAC 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. 1400 is the default MTU.
 - 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 Clone 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 a L2TP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

INTERNET CONNECTION TVD

My Internet Select L2TP (Username/Password) from the drop-	INTERNET CONNECTION TYPE
Connection: down menu. Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static	Choose the mode to be used by the router to connect to the Internet. My Internet Connection Is : L2TP (Usemame / Password)
IP address. L2TP usual requires a Dynamic IP con- figuration.	L2TP INTERNET CONNECTION TYPE :
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 Enter the L2TP Gateway IP address used here. Address: L2TP Server IP Enter the L2TP Server IP address used here. This is Address: normally the same a the L2TP Gateway IP address. Username: Enter the L2TP username used here. Password: Enter the L2TP password used here. Verify Password: Re-enter the L2TP password used here. Verify Password: Re-enter the L2TP password used here. Reconnect Mode: 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	Enter the information provided by your Internet Service Provider (ISP). Address Mode : Dynamic IP Static IP LZTP IP Address : LZTP Subnet Mask : LZTP Gateway IP Address : LZTP Gateway IP Address : Username : Password : Passw
later.	

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. 1400 is the default MTU.
- 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 **Clone 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	INTERNET CONNECTION TYPE
address automatically. Select the Manual	Choose the mode to be used by the router to connect to the Internet.
Configuration to enter the AFTR IPv6 address in manually.	My Internet Connection Is : DS-Lite
AFTR IPv6 Address: After selecting the Manual Configuration	
option above, the user can enter the AFTR	AFTR ADDRESS INTERNET CONNECTION TYPE :
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.	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 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 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 customized the wireless network settings to fit into 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 or SSID. Enter the new **Network Name (SSID)** in the appropriate space provided.

There are seperate spaces provided for a **2.4GHz** Network Name and a **5GHz** 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) 5Ghz : dlink-media-ecba
- 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.

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 wireless clients wants to connect to this device. So please remember this key to prevent future troubleshooting.

If you want to use the same Wireless Security Password for both 2.4GHz and 5GHz bands, **tick** the option provided. If not selected, you need to input two seperate Wireless Security Passwords 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.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

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

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

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)

- Exactly 64 characters using 0-9 and A-F

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

2.4Ghz Wireless Security Password :

5Ghz Wireless Security Password :

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

Cancel

Save

Next

SETUP COMPLETE!

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

Wireless Band : 2.4GHz Band

Prev

Wireless Network Name (SSID) : dlink-ecb8

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

Next

Cancel

Save

Cipher Type : TKIP and AES

Pre-Shared Key : 2c2dbdbe54

Prev

After click 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 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 have two options to choose from. You can 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 it.

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 \odot Select this option will display the current wireless settings for you to configure the wireless device manually
Prev Next Connect

STEP 2: CONNECT YOUR WIRELESS DEVICE
There are two ways to add wireless device to your wireless network: -PIN (Personal Identification Number) -PBC (Push Button Configuration)
Image: PIN + PI
please enter the PIN from your wireless device and click the below "Connect" Button within 120 seconds
🗇 РВС
please press the push button on your wireless device and click the below "Connect" Button within 120 seconds
Prev Next Cancel Connect

Step 2: After selecting Manual, the following page will appear. On this page to 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 client are connected to this device.

End of Wizard.

STEP 2: CONNECT YOUR WIRELESS DEVICE

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

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

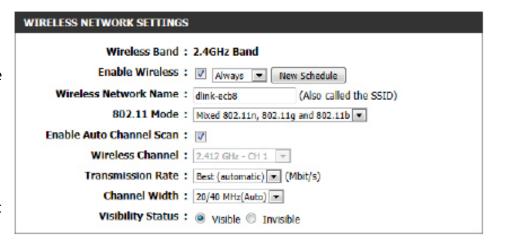
Use this section to configure the wireless settings for your D-Link router. Please note that changes made in this section may also need to be duplicated on your wireless client.

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 2.4GHz 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 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. Enable Auto Channel

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 have 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 frequency band 2.4GHz. 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 sometimes only supports 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 64Bit or a 128Bit 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

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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.

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 pass-phrase (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 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)

aprica	.,	pc	1 Bur	anu	1

Group Key Update Interval : 3600 (seconds)

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.

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 pass-phrase (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.

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 via a remote RADIUS server. RADIUS server IP Address :	router uses EAP (802.1x) to authenticate clients
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 5GHz 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 : 2	2.4GHz Band
Enable Wireless :	Always 💌 New Schedule
Wireless Network Name :	dlink-andy (Also called the SSID)
802.11 Mode :	Mixed 802.11n, 802.11g and 802.11b
Enable Auto Channel Scan :	
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. Enable Auto Channel

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 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 have an option to choose between a 20 MHz or 20/40 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 frequency band 2.4GHz. 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 sometimes only supports 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 64Bit or a 128Bit 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

	Security Mode : WEP
WEP	
and the wi bit keys yo or a letter when WEP You may a hexadecim	wireless encryption standard. To use it you must enter the same key(s) into the rout- reless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 12 u must enter 26 hex digits into each key box. A hex digit is either a number from 0 to from A to F. For the most secure use of WEP set the authentication type to "Shared K is enabled. Iso enter any text string into a WEP key box, in which case it will be converted into a al key using the ASCII values of the characters. A maximum of 5 text characters can b
If you cho (802.11B	64-bit keys, and a maximum of 13 characters for 128-bit keys. See the WEP security option this device will ONLY operate in Legacy Wireless mode (G). This means you will NOT get 11N performance due to the fact that WEP is not 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.

5	Security Mode : WPA-Personal	
WPA		
uses WPA for legac Also the strongest o mode. This mode u security. For maxim and legacy devices	y clients while maintaining highe cipher that the client supports w ses AES(CCMP) cipher and legat sum compatibility, use WPA Onl work only in this mode.	strong security and best compatibility. This moder security with stations that are WPA2 capable. ill be used. For best security, use WPA2 Only cystations are not allowed access with WPA by stations are not allowed access with WPA by. This mode uses TKIP cipher. Some gaming Only security mode (or in other words AES
	WPA Mode : Auto(WPA or	WPA2) -
	Cipher Type : TKIP and AES	
Group Key Up	date Interval : 3600	(seconds)
	1	
PRE-SHARED KEY		
Enter an 8- to 63	-character alphanumeric pas I should not be a commonly	s-phrase. For good security it should be o known phrase.

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, t via a remote RADIUS server.	the router uses EAP (802.1x) to authenticate 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.

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-845L offers the following types of security:

• WPA2 (Wi-Fi Protected Access 2)

• WPA (Wi-Fi Protected Access)

- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

What is WPA?

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

The 2 major improvements over WEP:

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

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

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

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.

ROUTER SETTINGS		
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 :		
Enable DNS Relay :		

DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DIR-845L 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-845L. 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.

	Check this box to enable the DHCP server on your router.	DHCP SERVER SETTINGS
	Uncheck to disable this function.	Use this section to configure the built-in DHCP server to assign IP address to the computers on yo network.
	Enter the starting and ending IP addresses for the DHCP server's IP assignment.	Enable DHCP Server : 👿
		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 :
	The law with a fatime family in Devidence laws. Further, the laws	Learn NetBIOS from WAN :
DHCP Lease Time:	The length of time for the IP address lease. Enter the Lease time in minutes.	NetBIOS Scope : (optional)
	time in minutes.	NetBIOS node type : Broadcast only (use when no WINS servers configured)
Alwavs	If all the computers on the LAN successfully obtain their	Point-to-Point (no broadcast)
•	IP addresses from the router's DHCP server as expected,	Mixed-mode (Broadcast then Point-to-Point)
	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.

ver to assign IP address to the computers on your

- **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, this 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), this indicates a Mixed-Mode of operation. First 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 operation 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, this 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, this 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

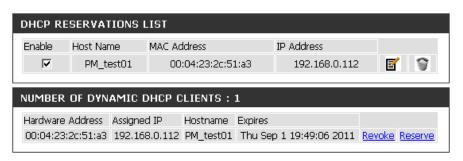
DHCP Displays any reservation entries. Displays the host nameReservations List: (name of your computer or device), MAC Address, and IP address.

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 RESERVATION		
Enable :	v	
Computer Name :	PM_test01 << PM_t	est01
IP Address :	192.168.0.112	
MAC Address :	00:04:23:2c:51:a3	
	Copy Your PC's MAC Address	
	Save	
DHCP RESERVATIONS LIST		
Enable Host Name	MAC Address	IP Address
NUMBER OF DYNAMIC DHCF	CLIENTS: 1	



Parental Control

Parental control is a free security option that provides Anti-Phishing to protect your Internet connection from fraud and navigation improvements such as auto-correction of common URL types.

PARENTAL CONTROL

Options to improve the speed and reliability of your Internet connection, to apply content filtering and to protect you from phishing sites. Choose from pre-configured bundles or register your router with OpenDNS® to choose from 50 content categories for custom blocking.

Save Settings Don't Save Settings

The following parameters will be available for configuration: Advanced DNS: Select this option to enable a fast and reliable DNS with minimal blocking of phishing sites only. No OpenDNS account required. OpenDNS® FamilyShield: Select this option to enable a fast and

OpenDNS® FamilyShield: Select this option to enable a fast and reliable DNS with non-configurable blocking of sites that are inappropriate or risky for children. No OpenDNS account required.

OpenDNS® Parental Select this option to enable a fast and Control: reliable DNS with configurable content filtering and phishing protection. This option includes an OpenDNS account. Click on the 'Manage your router' link to navigate to the OpenDNS account website, where you can either login (if you have an existing account) or you can register a new OpenDNS account.

Advanced DNS¹¹⁴

SECURITY OPTIONS

Advanced DNS makes your Internet connection safer, faster, smarter and more reliable. It blocks phishing websites to protect you from identity theft.

OpenDNS® FamilyShield[™]

Automatically block adult and phishing websites while improving the speed and reliability of your Internet connection.

OpenDNS® Parental Controls[™]

OpenDNS Parental Controls provides award-winning Web content filtering while making your Internet connection safer, faster, smarter and more reliable. With more than 50 content categories to choose from it's effective against adult content, proxies, social networking, phishing sites, malware and more. Fully configurable from anywhere there is Internet access.

Manage your router at www.opendns.com

None: Static IP or Obtain Automatically From ISP

Use the DNS servers provided by your ISP, or enter your preferred DNS servers.

Save Settings Don't Save Settings

None: Select this option to enable the option to specify the DNS servers provided via DHCP by their ISP or their own preferred DNS servers.

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

Storage

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

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

Enable SharePort Web Access : 📝

HTTP Access Port : 8181

HTTPS Access Port: 4433

Allow Remote Access :

SHAREPORT WEB ACCESS

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.

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 :	<< User name 💌		
Password :			
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

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 click 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 filed 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 :	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 the external interface of this router. If no **DDNS** account is specified on the <u>Dynamic DNS</u> 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 Unk	
Web File Access Https Link	
Save Settings Don't Save Settings	

Media Server

DLNA (Digital Living Network Alliance) is the standard for the interoperability of Network Media Devices (NMDs). The user can enjoy multi-media applications (music, pictures and videos) on your network connected PC or media devices. The iTunes server will allow iTunes software to automatically detect and play music from the router.

- **NOTE:** The shared media may not be secure. Allowing any devices to stream is recommended only on secure networks.
- **DLNA Server**: Select to enable or disable the DLNA server.
- DLNA Server Enter the DLNA server's name. Name :
- iTUNES Server: Select to enable or disable the iTunes server.
 - Folder: Specifies the folder or directory that will be shared by the iTunes/DLNA server. Select root to share all files on all volumes, or click Browse to select a specific folder.

MEDIA SERVER		
DLNA (Digital Living Network Alliance) is the standard for the interoperability of Network Media Devices (NMDs). The user can enjoy multi-media applications (music, pictures and videos) on your network connected PC or media devices. The iTunes server will allow iTunes software to automatically detect and play music from the router.		
NOTE: The shared media may not be secure. Allowing any devices to stream is recommended only on secure networks.		
Save Settings Don't Save Settings Refresh		
DLNA SERVER		
DLNA Server : Enable Disable DINA Server Name		
DLNA Server Name : DIR-845L Folder : V root		
ITUNES SERVER		
iTunes Server :		
Folder : 🖉 root		
Save Settings Don't Save Settings		

IPv6

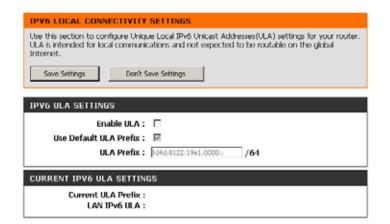
On this page, the user can configure the IPv6 Connection type. There are two ways to set up the IPv6 Internet connection. You can use the Web-based IPv6 Internet Connection Setup Wizard, or you can manually configure the connection.

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.

To configure the IPv6 local settings, click on the **IPv6 Local Connectivity Setup** button.





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.

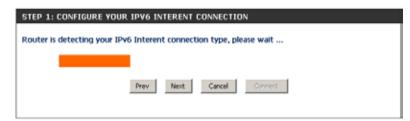
IPv6 Internet Connection Setup Wizard

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.

This wiza IPv6 Inte	ard will guide you through a setp-by-setp processs to configure a new connection to the terent.	
	itep 1: Configure your IPv6 Interent Connection itep 2: Save setting and connect	
	Prev. Next Cancel Connect	

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.



D-Link DIR-845L User Manual

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

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.

 STEP 1: CONFIGURE YOUR IPV6 INTERENT CONNECTION

 Please select your IPv6 Interent Connection type

 Choose this option if your IPv6 Interent connection requires a username and password to get online. Most DSL moderns use this type of connection.

 C 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.

 C Tunneling Connection (6rd) Choose this option if your Interent Service Provider (ISP) provided you a IPv6 Internet connection by using 6rd automatic tunneling mechanism.

 IPve
 Next
 Cancel

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.

STEP 1: CONFIG	URE YOUR	IPV6 INTERE	NT CONNECTION	
Router is unable o	detect you	IPv6 Internet o	connection type	
1	Cancel	Try again	Guide me through the JPv6 setting	
-				

IPv6 over PPPoE

After selecting the IPv6 over PPPoE option, the user will be able to configure the 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.

SET USERNAME AND PASSW	
	rill need to have a Username and Password from your IPv6 Internet have this information, please contact your ISP.
PPPoE 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-Local** The 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
	vill need to have a complete list of IPv6 information provided by your If you have a Static IPv6 connection and do not have this ir ISP.
Use Link-Local Address :	N
IPv6 Address :	FE00::210:E7FF:FE95:609F
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 : FE80::C0A8:0102/64
6rd Border Relay IPv4 Address :
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 settings and reboot the route	n Setup Wizard has completed. Click the Connect button to save your r.
	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 computers has been removed or disabled.

Auto Detection

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

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	tomatically 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 :		
LAN IPv6 ADDRESS SETTIN	15	
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.		
	again.	
Enable DHCP-PD :		
Enable DHCP-PD : LAN IPv6 Address :	R	
	₽ /64	
LAN IPv6 Address : LAN IPv6 Link-Local Address :	Ø /64 FE80::218:£7FF3FE95:689E/64	
LAN IPv6 Address :	Ø /64 FE80::218:£7FF3FE95:689E/64	
LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP	Ø /64 FE80::218:£7FF:FE95:689E/64	
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	C /64 FE80::218:E7FF#E95:689E/64 FION SETTINGS V6 Autoconfiguration to assign IP addresses to the	
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.	/64 FE80::218:E7FF#E95:689E/64 FION SETTINGS v6 Autoconfiguration to assign IP addresses to the ou can also enable DHCP-PD to delegate prefixes for	
LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IP computers on your network. router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN :	/64 FE80::218:E7FF3E95:689E/64 TION SETTINGS v6 Autoconfiguration to assign IP addresses to the ou can also enable DHCP-PD to delegate prefixes for	
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 OHCP-PD in	/64 FE80::218:E7FFFE95:689E/64 TION SETTINGS v6 Autoconfiguration to assign IP addresses to the ou can also enable DHCP-PD to delegate prefixes for	

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	v 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 SETTING	88	
	the internal network settings of your router. If you s here, you may need to adjust your PC network	
Use this section to configure change the LAN IPv6 Address	the internal network settings of your router. If you s here, you may need to adjust your PC network again.	
Use this section to configure change the LAN IPv6 Address settings to access the network	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64	
Use this section to configure change the LAN IPv6 Address settings to access the network LAN IPv6 Address :	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64	
Use this section to configure t change the LAN IPv6 Address settings to access the network LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64	
Use this section to configure t change the LAN IPv6 Address settings to access the network LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IPv computers on your network.	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS	
Use this section to configure thange the LAN IPv6 Address settings to access the network LAN IPv6 Address : LAN IPv6 Link-Local Address : ADDRESS AUTOCONFIGURAT Use this section to setup IPv computers on your network. Enable automatic IPv6	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS /6 Autoconfiguration to assign IP addresses to the	

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).

Choose the mode to be used k	by the router to the IPv6 Internet.	
choose the mode to be used by the router to the 1940 internet.		
My IPv6 Connection is :	Autoconfiguration (SLAAC/DHCPv6)	
IPv6 DNS SETTINGS		
Obtain a DNS server address at	utomatically 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 :		
	the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo	
Use this section to configure change the LAN IPv6 Addre	e the internal network settings of your router. If yo ss here, you may need to adjust your PC netwo k again.	
Use this section to configure change the LAN IPv6 Addre settings to access the network	e the internal network settings of your router. If your sour router if your sour PC netwook again.	
Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address :	e the internal network settings of your router. If your sour router if your sour PC netwook again.	
Use this section to configure change the LAN IPv6 Addre settings to access the network Enable DHCP-PD : LAN IPv6 Address :	e the internal network settings of your router. If your so here, you may need to adjust your PC network again.	
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.	e the internal network settings of your router. If your so here, you may need to adjust your PC network again.	
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. router in your LAN. Enable automatic IPv6	e the internal network settings of your router. If you so here, you may need to adjust your PC network again.	
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. router in your LAN.	e the internal network settings of your router. If you 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 the 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. 1492 is the default MTU.
 - 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 C Create a new session
Address Mode :	Dynamic IP C Static IP
IP Address :	
Username :	
Password :	
Verify Password :	
Service Name :	(Optional)
Reconnect Mode :	@ Always on @ On demand @ Manual
Maximum Idle Time :	
MTU :	1492 (bytes)MTU default = 1492
6	Shaha - Basta - Shaha - Shaha - Shaha
	Obtain a DNS server address automatically Use the following DNS address
С	Use the following DNS address
C Primary DNS Server :	Use the following DNS address
C Primary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure	Use the following DNS address
C Primary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Addres	Use the following DNS address 55 The internal network settings of your router. If you is here, you may need to adjust your PC network again.
C Primary DNS Server : Secondary DNS Server : LAN IPv6 ADDRESS SETTIN Use this section to configure change the LAN IPv6 Address settings to access the network	Use the following DNS address
C Primary 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 :	Use the following DNS address
C Primary 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 :	Use the following DNS address BS the internal network settings of your router. If you s here, you may need to adjust your PC network again. F FB0::218:E7FF:FE95:669E/64
C Primary 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 IPv6	Use the following DNS address BS the internal network settings of your router. If you s here, you may need to adjust your PC network again. F FB0::218:E7FF:FE95:669E/64
C Primary 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 IPv6 computers on your network.You router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in	Use the following DNS address
C Primary 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 Address : ADDRESS AUTOCONFIGURAT Use this section to setup IPv6 computers on your network.You router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN :	Use the following DNS address

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 by	y the router to the IPv6 Internet.
My IPv6 Connection is :	IPv6 in IPv4 Tunnel
IPv6 in IPv4 TUNNEL SETTIN	201
Enter the IPv6 in IPv4 Tunnel ir	formation provided by your Tunnel Broker.
Remote IPv4 Address :	
Remote IPv6 Address :	
Local IPv4 Address :	
Local IPv6 Address :	
IPv6 DNS SETTINGS	
Obtain a DNS server address au	tomatically or enter a specific DNS server address.
_	
	Obtain a DNS server address automatically
0	Use the following DNS address
Primary DNS Server :	
Secondary DNS Server :	
	·
Secondary DNS Server :	·
LAN IPv6 ADDRESS SETTING	35
LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Address	S the internal network settings of your router. If you s here, you may need to adjust your PC network
LAN IPv6 ADDRESS SETTING	S the internal network settings of your router. If you s here, you may need to adjust your PC network
LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Address	S the internal network settings of your router. If you s here, you may need to adjust your PC network again.
LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Address settings to access the network	the internal network settings of your router. If you s here, you may need to adjust your PC network again.
LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD :	the internal network settings of your router. If you s here, you may need to adjust your PC network again. M /64
LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address :	the internal network settings of your router. If you s here, you may need to adjust your PC network again. M /64
LAN IPv6 ADDRESS SETTING Use this section to configure change the LAN IPv6 Address settings to access the network Enable DHCP-PD : LAN IPv6 Address :	iS the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64
LAN IPv6 ADDRESS SETTING 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	iS the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS
LAN IPv6 ADDRESS SETTING 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 IPv computers on your network.Yo	iS the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64
LAN IPv6 ADDRESS SETTING 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 IPv	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS /6 Autoconfiguration to assign IP addresses to the
LAN IPv6 ADDRESS SETTING 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 IPv computers on your network.You router in your LAN.	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS /6 Autoconfiguration to assign IP addresses to the pu can also enable DHCP-PD to delegate prefixes for
LAN IPv6 ADDRESS SETTING 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 IPv computers on your network.Yo router in your LAN. Enable automatic IPv6 address assignment :	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS /6 Autoconfiguration to assign IP addresses to the
LAN IPv6 ADDRESS SETTING 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 IPv computers on your network.Yo router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS /6 Autoconfiguration to assign IP addresses to the ou can also enable DHCP-PD to delegate prefixes for
LAN IPv6 ADDRESS SETTING 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 IPv computers on your network.Yo router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN :	the internal network settings of your router. If you s here, you may need to adjust your PC network again. /64 FE80::218:E7FF:FE95:689E/64 ION SETTINGS /6 Autoconfiguration to assign IP addresses to the bu can also enable DHCP-PD to delegate prefixes for
LAN IPv6 ADDRESS SETTING 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 IPv computers on your network.Yo router in your LAN. Enable automatic IPv6 address assignment : Enable Automatic DHCP-PD in LAN :	the internal network settings of your router. If you s 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 IPv6 address information provided by your Internet Service Provider (IS	P).
6to4 Address : 2002:C0A8:0102::C0A8:0102	
6to4 Relay: 192.88.99.1	
Primary DNS Server :	
Secondary DNS Server :	
LAN IPv6 ADDRESS SETTINGS	
LAN IPYO ADDRESS SETTINGS	
Use this section to configure the internal network settings of your router. If	vni
change the LAN IPv6 Address here, you may need to adjust your PC netw	
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	
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to	the
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to computers on your network.	the
computers on your network.	the
Enable automatic IPv6	the
computers on your network. Enable automatic IPv6 address assignment :	the
Enable automatic IPv6	the

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	
Observables made to be used in	u the vertex to the TDvC Teterret
Choose the mode to be used b	y the router to the IPv6 Internet.
My IPv6 Connection is :	6rd 💌
6RD SETTINGS	
Enter the IPv6 address informa	ation provided by your Internet Service Provider (ISP).
6rd Configuration :	\odot 6rd DHCPv4 Option \odot Manual Configuration
6rd IPv6 Prefix :	/ 32
IPv4 Address :	192.168.1.2 Mask Length :
Assign IPv6 Prefix :	
Tunnel Link-Local Address : 6rd Border Relay IPv4	FE80::C0A8:0102/64
Address :	
Primary DNS Server :	
Secondary DNS Server :	
LAN IPv6 ADDRESS SETTIN	GS
	the internal network settings of your router. If you ss here, you may need to adjust your PC network ; again.
LAN IPv6 Address :	None
LAN IPv6 Link-Local Address :	FE80::218:E7FF:FE95:689E/64
ADDRESS AUTOCONFIGURA	TION SETTINGS
Use this section to setup IP computers on your network.	v6 Autoconfiguration to assign IP addresses to the
Enable automatic IPv6	
address assignment : Autoconfiguration Type :	
Router Advertisement	60 (minutes)
Lifetime:	(rimidcos)

Link-Local Connectivity

My IPv6 Connection: Select Link-Local Only from the drop-down menu.

LAN IPv6 Address Displays the IPv6 address of the router. Settings:

IPv6 CONNECTION TYPE				
Choose the mode to be used by the router to the IPv6 Internet.				
My IPv6 Connection is: Local Connectivity Only				
LAN IPv6 ADDRESS SETTINGS				
LAN IPv6 address for local IPv6 communications.				
LAN IPv6 Link-Local Address : FE80::218:E7FF:FE95:689E/64				

mydlink Settings

The DIR-865L features a new cloud service that pushes information such as firmware upgrade notifications, user activity, and intrusion alerts to the mydlink[™] app on Android and Apple mobile devices. To insure that your router is up-to-date with the latest features, mydlink[™] will notify you when an update is available for your router. You can also monitor a user's online activity with real-time website browsing history, maintaining a safe and secure environment, especially for children at home.

On this page the user can configure the mydlink[™] settings for this router. This feature will allow us to use the mydlink cloud services that includes online access and management of this router through the mydlink portal website or portable device applications like iOS apps and Android applications.

In the **mydlink** section, we can view the registration status of the mydlink account service. The **mydlink Service** field will either display **Registered** or **Non-Registered**.

In the **Register mydlink Service** section, we can register or modify a mydlink account. Click on the **Register mydlink Service** button to initiate this procedure.

After clicking the **Register mydlink Service** button, this window will appear.

Register mydlink Service Wizard: Step 1

In this section we can select one of two options.

- Select the '**Yes**, I have a mydlink account.' option if you already have a mydlink account that you want to use on this router.
- Select the 'No, I want to register and login with a new mydlink account.' option to register a new account and use it on this router.

Click the **Next** button to proceed to the next step.

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

MYDLINK SETTINGS

Setting and registering your product with mydlink will allow you to use its mydlink cloud services features, including online access and management of your device through mydlink portal website.

Save Settings Don't Save Settings

MYDLINK

mydlink Service : Non-Registered

REGISTER MYDLINK SERVICE

Register mydlink Service

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? ② Yes, I have a mydlink account. ⑧ No, I want to register and login with a new mydlink account.

Next Cancel

Register mydlink Service Wizard: Step 2

When registering a **new account**, the following page appears. The following parameters will be available for configuration:

E-mail Address (Account Enter your e-mail address here. This e-mail Name): address will also become your account name. Password: Enter your preferred password choice here. Confirm Password: Re-enter your preferred password choice here. Last Name: Enter your last name here. First Name: Enter your first name here. Accept terms and Tick this option to accept the mydlink conditions: terms and conditions.

Click the **Next** button to proceed to the next step. Click the **Prev** button to return to the previous step. Click the **Cancel** button to discard the changes made and return to the main page.

When logging in with an **existing account**, the following page appears. The following parameters will be available for configuration:

E-mail Address (Account Enter your e-mail address here. This e-mail Name): address will also be your account name. Password: Enter your preferred password choice here.

Click the **Login** button to login using these account details. Click the **Prev** button to return to the previous step. Click the **Cancel** button to discard the changes made and return to the main page.

MYDLINK REGISTRATION		
Please fulfi	II the options to complete th	ne registration.
E-mail Address (Account Name) :		
Password :		
Confirm Password :	0)
Last name :		
First Name :		
	I Accept the mydlink terms	s and conditions.
[Next Prev Cance	1

MYDLINK REGISTRATION
Please fulfill the options to complete the registration.
E-mail Address (Account Name) :
Password :
Login Prev Cancel

At any point during this wizard, we can change the prefered language used. To change the language, select the desired language option from the **Language** drop-down menu, found on the top right of this page.

End of Wizard

	Languag	e : English
English	繁體中文	Magyar
Español	簡體中文	Nederlands
Deutsch	<u>한국어</u>	Norsk
Français	Česky	Polski
Italiano	Dansk	Română
Русский	Ελληνικά	Slovenščina
Portuquês	Suomi	Svenska
日本語	Hrvatski	

Advanced Virtual Server

This will allow you to open a single port. If you would like to open a range of ports, refer to the next page.

- Name: Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.
- **IP Address:** Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), you computer will be listed in the "Computer Name" drop-down menu. Select your computer and click <<.
- Private Port/ Enter the port that you want to open next to Private Public Port: Port and Public Port. The private and public ports are usually the same. The public port is the port seen from the Internet side, and the private port is the port being used by the application on the computer within your local network.

Protocol Type: Select TCP, UDP, or Both from the drop-down menu.

- Schedule: The schedule of time when the Virtual Server Rule will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the **Tools** > Schedules section.
- Inbound Filter: Select Allow All (most common) or a created Inbound filter. You may create your own inbound filters in the Advanced > Inbound Filter page.

VIRTUAL SERVER

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

Save Settings Don't Save Settings

24	24 - VIRTUAL SERVERS LIST						
Rem	Remaining number of rules that can be created: 24						
			Port	Traffic Type			
-	Name	< Application name 💌	Public Port	Protocol Both 📼	Schedule Always 📼		
	IP Address	< Computer Name	Private Port		Inbound Filter		
[]	Name	< < Application name ■	Public Port	Protocol Both 💌	Schedule Always 💌		
	IP Address	Computer Name	Private Port		Inbound Filter		

Port Forwarding

This will allow you to open a single port or a range of ports.

- **Name:** Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.
- **IP Address:** Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the router (DHCP), you computer will be listed in the "Computer Name" drop-down menu. Select your computer and click <<.
- **TCP/UDP:** Enter the TCP and/or UDP port or ports that you want to open. You can enter a single port or a range of ports. Separate ports with a common.

Example: 24,1009,3000-4000

- Schedule: The schedule of time when the Virtual Server Rule will be enabled. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times in the **Tools** > **Schedules** section.
- Inbound Filter: Select Allow All (most common) or a created Inbound filter. You may create your own inbound filters in the Advanced > Inbound Filter page.

PORT FORWARDING

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

Save Settings Don't Save Settings

24	24 PORT FORWARDING RULES						
Ren	Remaining number of rules that can be created: 24						
			Ports to Open				
	Name	Application Name	тср	Schedule Always 💌			
	IP Address	< Computer Name 💌	UDP	Inbound Filter Allow All 💌			
	Name	Application Name	тср	Schedule Always 💌			
	IP Address	Computer Name	UDP	Inbound Filter Allow All 💌			

Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DIR-845L. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the firewall (public) ports associated with the trigger port to open them for inbound traffic.

The DIR-845L provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

- Name: Enter a name for the rule. You may select a pre-defined application from the drop-down menu and click <<.
- **Trigger:** This is the port used to trigger the application. It can be either a single port or a range of ports.
- **Traffic Type:** Select the protocol of the trigger port (TCP, UDP, or Both).
 - **Firewall:** This is the port number on the Internet side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.
- **Traffic Type:** Select the protocol of the firewall port (TCP, UDP, or Both).
 - Schedule: The schedule of time when the Application Rule will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the Tools > Schedules section.

APPLICATION RULES

The Application Rules option is used to open single or multiple ports in your firewall when the router senses data sent to the Internet on an outgoing "Trigger" port or port range. Special Application rules apply to all computers on your internal network.

Save Settings Don't Save Settings

24 APPLICATION RULES					
Remainir	ng number of ru	les that can be created: 24			
			Port	Traffic Type	Schedule
—	Name	Application	Trigger	All	Always 💌
		K Application Name	Firewall	A	Amays 1
-	Name	Application	Trigger	All 💌	Always 💌
		Application Name	Firewall	All	Annays 1

QoS Engine

The QoS Engine option helps improve your network gaming performance by prioritizing applications. By default the QoS Engine settings are disabled and application priority is not classified automatically. The QoS section contains a queuing mechanism, traffic shaping and classification. It supports two kinds of queuing mechanisms. Strict Priority Queue (SPQ) and Weighted Fair Queue (WFQ). SPQ will process traffic based on traffic priority. Queue1 has the highest priority and Queue4 has the lowest priority. WFQ will process traffic based on

QOS SETTINGS

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

Save Settings Don't Save Settings

the queue weight. Users can configure each queue's weight. The sum of all the queue's weight must be 100. When surfing the Internet, the system will do traffic shaping based on the uplink and downlink speed. The classification rules can be used to classify traffic to different queues, then SPQ or WFQ will do QoS based on the queue's priority or weight.

The following parameters will be available for configuration:

- **Enable QoS:** This option is disabled by default. Enable this option for better performance and experience with online games and other interactive applications, such as VoIP.
- Uplink Speed: The speed at which data can be transferred from the router to your ISP. This is determined by your ISP. ISP's often define speed as a download/upload pair. For example, 1.5Mbits/284Kbits. Using this example, you would enter 284. Alternatively you can test your uplink speed with a service such as www.dslreports.com.
- **Downlink Speed:** The speed at which data can be transferred from the ISP to the router. This is determined by your ISP. ISP's often define speed as a download/upload pair. For example, 1.5Mbits/284Kbits.

Using this example, you would enter 1500. Alternatively you can test your downlink speed with a service such as www.dslreports.com.

	Enable QoS: Uplink Speed: Downlink Speed:	2048	•	Select Tran Select Tran		
	Queue Type :	C Strict	Priority Que	ue 🖲 Wei	ghted I	Fair Queue
ieue ID			Queue	Weight		
	1				40	%
	2				30	%
	3				20	%
	4				10	%

Queue Type: Here the user can specify the queue type used. When choosing the option Strict Priority Queue, the router will apply QoS based on the internal specification for the queue ID's listed. When choosing the option Weight Fair Queue, the router will apply QoS based on the user defined percentage in the Queue Weight column.

Queue ID: In this column the Queue ID used will be displayed.

Queue Priority: In this column the Queue Priority used will be displayed.

Queue Weight: After choosing to use the Weight Fair Queue option, under Queue Type, the user will be able to manual enter the Queue Weight for each individual Queue ID.

After specifying the QoS framework used, in the QoS setup section, the user can now create individual rules for scenarios that require the use of traffic control and data priority manipulation.

The following parameters will be available for configuration:

Checkbox: Tick this option to enable the rule specified.

- **Name:** Enter a custom name for the rule being created here. This name is used for identification.
- Queue ID: Select the appropriate priority requirement from the drop-down menu that will be applied to this rule. Option to choose from are Highest, Higher, Normal, and Best Effort.
- **Protocol:** Select the protocol used for the application for in the drop-down menu and it will automatically place it in the Protocol field.
- Local IP Range: Enter the local IP range used here. This is the IP range of you Local Area Network. The Router's IP cannot be included in this range.
 - Remote IP Enter the remote IP range used here. This is the IP
 Range: range of the public network from the Internet Port side. To apply this rule to any IP addresses from the public side, enter the range 0.0.0.1 to 255.255.255.254.
 Application Enter the application port number used here.
 Port:

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

32 CLASSIFICATION RULES					
Rem	aining number of rules that o	an be created: 18			
	Name Youtube	Queue ID 1 - Highest	Protocol TCP << ALL 💌		
V	Local IP Range	to	Application Port		
	Remote IP Range	to	<< ALL		
	Name Google_talk	Queue ID 1 - Highest	Protocol TCP << ALL 💌		
V	Local IP Range	to	Application Port		
	Remote IP Range	to	<< ALL		
	Name Web_audio	Queue ID 1 - Highest 💌	Protocol TCP << ALL 💌		
V	Local IP Range	to	Application Port		
	Remote IP Range	to	<< ALL		
V	Name Web_video	Queue ID 2 - Higher	Protocol TCP << ALL		
	Local IP Range	to	Application Port		
	Remote IP Range	to	<< ALL		

Network Filters

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router.

Configure MACSelect Turn MAC Filtering Off, Allow MAC addressesFiltering:listed below, or Deny MAC addresses listed belowfrom the drop-down menu.

MAC Address: Enter the MAC address you would like to filter.

To find the MAC address on a computer, please refer to the *Networking Basics* section in this manual.

DHCP Client: Select a DHCP client from the drop-down menu and click << to copy that MAC Address.

onfigure MAC Filte ium MAC Filtering C emaining number	ON and ALLOW cor	nputers listed to access the n be created: 24	etwork 💌
MAC Ad	dress	DHCP Client List	Schedule
	<<	Computer Name	Always 🔻 New Schedule
	<<	Computer Name	Always 💌 New Schedule
	<<	Computer Name	Always 💌 New Schedule
	<<	Computer Name	Always 💌 New Schedule
	<<	Computer Name	Always 💌 New Schedule
	<<	Computer Name	Always 💌 New Schedule
	<<	Computer Name	Always 💌 New Schedule
	<<	Computer Name	Always 🔻 New Schedule

Access Control

The Access Control section allows you to control access in and out of your network. Use this feature as Parental Controls to only grant access to approved sites, limit web access based on time or dates, and/or block access from applications like P2P utilities or games.

Add Policy: Click the Add Policy button to start the Access Control Wizard.



Access Control Wizard

Click **Next** to continue with the wizard.

ADD NEW POLICY

This wizard will guide you through the following steps to add a new policy for Access Control.
Step 1 - Choose a unique name for your policy Step 2 - Select a schedule Step 3 - Select the machine to which this policy applies Step 4 - Select filtering method Step 5 - Select filters Step 6 - Configure Web Access Logging
Prev Next Save Cancel

D-Link DIR-845L User Manual

Enter a name for the policy and then click **Next** to continue.

STEP 1: CHOOSE POLICY NAME				
Choose a unique name for your policy.				
Policy Name : momph				
Prev Nace Server Cancel				

Select a schedule (I.E. Always) from the drop-down menu and then click **Next** to continue.

Choose a schedule	to apply to	this policy.
		Liburys x
	Details :	Real 3

Enter the following information and then click **Next** to continue.

- Address Type Select IP address, MAC address, or Other Machines.
- **IP Address** Enter the IP address of the computer you want to apply the rule to.
- Machine Address Enter the PC MAC address (i.e. 00:00.00.00.00).

Select the filtering method and then click **Next** to continue.

Select the machine to which t	tale policy applies.			
specify a metane with its IP or M	AC address, or sele	ct "Other Machines" for ma	damen that do n	ot have a policy.
Address Type :	Rp C Nic (Other Machines		
BP Address :	192.109.0.112		- (11111	
Machine Address :		ex /mparting	-	
	- Taile	THE ALTER		
	OK Cleve			
Hachine				
192 150.0.132			10	9

elect the method for filtering.	
Method :	C Log Web Access Only C Block Al Access € Block Some Access
Apply Web Filter :	
Apply Advanced Port Filters :	Г

Section 3 - Configuration

Enter the rule:

Enable - Check to enable the rule.
Name - Enter a name for your rule.
Dest IP Start - Enter the starting IP address.
Dest IP End - Enter the ending IP address.
Protocol - Select the protocol.
Dest Port Start - Enter the starting port number.
Dest Port End - Enter the ending port number.

	et Fillers Rules	access to specific IP addre	ater soleenti			
	fame	Dert IP Start	Dent P ¹ Brid	Protocol	Dest Part Start	Dect Port End
	1	pasa	210.105.105.200	NY 3	F	Free a
C		0.0.0.0	faar 100 100 200	40 -	F	1.000
r -	1	0.0.6.3	Per.244.248.241	Ny =	F	1.000
rć –	(0.0.5.2	201 201 201 201	Ny #	F	1000
r .	1	() MART	298.298.298.200	24 .	F	(Frank
E	r	60.00	238.238.238.235	44 -	F	(press)
r i	F	0.0.0.0	291.291.291.291	Ary E	F	- prove
r .	1	60.60	201.201.201.205	Tev a	F	i sone

STEP 6: CONFIGURE WEB ACCESS LOGGING Web Access Logging I C Disbled

® Enable

To enable web logging, click **Enable**.

Click **Save** to save the access control rule.

Your newly create	d policy will	l now show uj	o under Polic y	y Table.

feature as Access	sl option allows you to Controls to only grant Vor block internet acc	access to approve	d sties, limit v	web access b	ased o	
Seve Settings	Don't Save Se	Ringi Ri	iboot Now			
ENABLE						
Enable Ac	cess Control : 🛛	ti Pokcy				
Enable Ac	cess Control : 🔽	d Poky				
	cess Control : 17	HPoky Hiltening	Logged	Schedule	1 72	

Prev And Save Cancel

Website Filters

Website Filters are used to allow you to set up a list of Web sites that can be viewed by multiple users through the network. To use this feature select to **Allow** or **Deny**, enter the domain or website and click **Save Settings**. You must also select **Apply Web Filter** under the *Access Control* section.

Add Website Select either DENY computers access to ONLY Filtering Rule: these sites or ALLOW computers access to ONLY these sites.

Website URL/ Enter the keywords or URLs that you want to allow Domain: or block. Click Save Settings.

40 - WEBSITE FILTERING RULES
Configure Website Filter below:
DENY computers access to ONLY these sites
Clear the list below
Website URL/Domain
L]

Inbound Filters

The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range. Inbound Filters can be used with Virtual Server, Port Forwarding, or Remote Administration features.

Name: Enter a name for the inbound filter rule.

Action: Select Allow or Deny.

Enable: Check to enable rule.

- **Remote IP Start:** Enter the starting IP address. Enter 0.0.0.0 if you do not want to specify an IP range.
- **Remote IP End:** Enter the ending IP address. Enter 255.255.255.255 if you do not want to specify and IP range.
 - Add: Click the Add button to apply your settings. You must click Save Settings at the top to save the settings.
- Inbound Filter This section will list any rules that are created. You Rules List: may click the **Edit** icon to change the settings or enable/disable the rule, or click the **Delete** icon to remove the rule.

INBOUND FILTER

The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range.

Inbound Filters can be used for limiting access to a server on your network to a system or group of systems. Filter rules can be used with Virtual Server, Port Forwarding, or Remote Administration features.

ADD INBOUND FILTER RULE

Action :	Allow 1	•	
Remote IP Range :	Enable	Remote IP Start	Remote IP End
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
		0.0.0.0	255.255.255.255
	1	0.0.0.0	255,255,255,255

INBOUND FILTER RULES LIST				
Name	Action	Remote IP Range		
Inbound1	allow	192.168.1.0-192.168.1.254	5	

Firewall Settings

A firewall protects your network from the outside world. The DIR-845L offers a firewall type functionality. The SPI feature helps prevent cyber attacks. Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ. DMZ is short for Demilitarized Zone. This option will expose the chosen computer completely to the outside world.

- **Enable SPI:** SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol.
- Anti-Spoof Check: Enable this feature to protect your network from certain kinds of "spoofing" attacks.

NAT Endpoint Select one of the following for TCP and UDP ports:

Filtering: Endpoint Independent - Any incoming traffic sent to an open port will be forwarded to the application that opened the port. The port will close if idle for 5 minutes.

Address Restricted - Incoming traffic must match the IP address of the outgoing connection.

Address + Port Restriction - Incoming traffic must match the IP address and port of the outgoing connection.



- **DMZ IP Address:** Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains it's IP address automatically using DHCP, be sure to make a static reservation on the **Setup** > **Network Settings** page so that the IP address of the DMZ machine does not change.
 - **PPTP:** Allows multiple machines on the LAN to connect to their corporate network using PPTP protocol.
 - **IPSEC (VPN):** Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This ALG may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.
 - **RTSP:** Allows application that uses Real Time Streaming Protocol to receive streaming media from the Internet. QuickTime and Real Player are some of the common applications using this protocol.
 - **SIP:** Allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

		PROCESSION NO.
FOREWALL SETTINGS	NAT ENDPOINT FILTERING	
ROUTING	C Endpoint Independent	
ADVANCED WORELESS	UDP Endpoint Filtering : O Address Restricted	
WI-FE PROTECTED SETUP	Port And Address Restricted	
ADVANCED NETWORK		
DUNA SETTINGS	C Endpoint Independent	
TTUNES SORVER	TCP Endpoint Filtering : Address Restricted	
QUET 2018	Port And Address Restricted	
DIVE FOREWALL	ANTI-SPOOF CHECKING	
IN ROUTING	Enable anti-spoof checking 1	
	Enable anti-spoor checking 1	
	DHZ HOST	
	The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from bakind the router, then you can place the computer into the DMZ for unrestricted Internet access.	
	Notes Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.	
	Enable DMZ :	
	DMZ IP Address 1 CC	
	Computer Name w	
	APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION	
	PPTP 1 2	
	IPSec (VPN) : [2]	
	RTSP : [2]	
	SIP : [2]	
	See Settings Don't Seve Settings	

Routing

The Routing option is an advanced method of customizing specific routes of data through your network.

Name: Enter a name for your route.

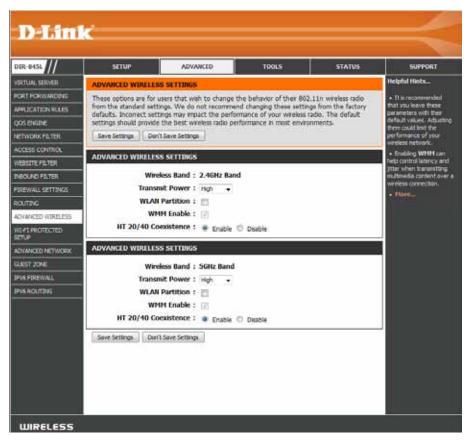
- **Destination IP:** Enter the IP address of packets that will take this route.
 - Netmask: Enter the netmask of the route, please note that the octets must match your destination IP address.
 - **Gateway:** Enter your next hop gateway to be taken if this route is used.
 - **Metric:** The route metric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

	a design of the second s	-		- 12	22000000	in straining
DIR-865L	SETUP	ADVANCED	T00L5		STATUS	SUPPORT
VIRTUAL SERVER	ROUTING	Helpful Hints				
PORT FORWARDING	The Routing option a	• Enables				
APPLICATION RIALES	Save Settings Dor	Specifies whether the entry will be enabled or				
QOS ENGINE	and the second second	daabled.				
NETWORK FILTER	32 - ROUTE LIST	 Interface: Specifies the interface — 				
ACCESS CONTROL	Remaining number of	WAN that the IP packet must use to				
WEBSITE FILTER			transit out of the router, when this route is used.			
INDOLIND FILTER	Name	Destination IP	Metric	Interface		Destination IP:
FOREWALL SETTINGS	name	Deschapon av				The IP address of packets that will take this
ROUTING	Netmask	Gateway	-1	WAN O		route.
ADVANCED WIRELESS	Contraction of the second second					Netmask: One bit in the mask
W1-F1 PROTECTED	Name	Destnation IP				specifies which bits of the IP address must match.
In the second		2120/0//	1	WAN D		Gateway: The gateway IP address
ADVANCED NETWORK	Netmask	Gateway				is the IP address of the
DUNA SETTINGS	Name	Destination IP				router, if any, used to reach the specified
ITUNES SERVER	Charling.	Pressnandoli la				destnation.

Advanced Wireless

Transmit Power: Set the transmit power of the antennas.

- WLAN Partition: This enables 802.11d operation. 802.11d is a wireless specification developed to allow implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.
 - **WMM Enable:** WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.
- **HT20/40 Coexistence:** Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz.



Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the "Initial setup" as well as the "Add New Device" processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufactures. The process is just as easy as pressing a button for the Push-Button Method or correctly entering the 8-digit code for the Pin Code Method. The time reduction in setup and ease of use are quite beneficial, while the highest wireless Security setting of WPA2 is automatically used.

Enable: Enable the Wi-Fi Protected Setup feature.

Note: if this option is unchecked, the WPS button on the side of the router will be disabled.

Lock Wireless Tick this option to lock the configured wireless security **Security Settings:** settings.

PIN Settings: A PIN is a unique number that can be used to add the router to an existing network or to create a new network. Only the Administrator ("admin" account) can change or reset the PIN.

Current PIN: Shows the current PIN.

Reset PIN to Restore the default PIN of the router. **Default:**

Generate New Create a random number that is a valid PIN. This PIN: becomes the router's PIN. You can then copy this PIN to the user interface of the wireless client.



Add Wireless This Wizard helps you add wireless devices to the wireless network. Station:

The wizard will either display the wireless network settings to guide you through manual configuration, prompt you to enter the PIN for the device, or ask you to press the configuration button on the device. If the device supports Wi-Fi Protected Setup and has a configuration button, you can add it to the network by pressing the configuration button on the device and then the on the router within 120 seconds. The status LED on the router will flash three times if the device has been successfully added to the network.

There are several ways to add a wireless device to your network. A "registrar" controls access to the wireless network. A registrar only allows devices onto the wireless network if you have entered the PIN, or pressed a special Wi-Fi Protected Setup button on the device. The router acts as a registrar for the network, although other devices may act as a registrar as well.

Add Wireless Click to start the wizard and skip to page 48. Device Wizard:

WPS Button

You can also simply press the WPS button on the side of the router, and then press the WPS button on your wireless client to automatically connect without logging into the router.

Refer to page 130 for more information.



Advanced Network Settings

- Enable UPnP: To use the Universal Plug and Play (UPnP[™]) feature click on Enabled. UPnP provides compatibility with networking equipment, software and peripherals.
 - **WAN Ping:** Checking the box will allow the DIR-845L to respond to pings. Unchecking the box may provide some extra security from hackers.
- WAN Port Speed: You may set the port speed of the Internet port to 10Mbps, 100Mbps, or Auto (recommended).

Enable IPV4 Check the box to allow multicast traffic to pass through **Multicast Streams:** the router from the Internet (IPv4).

Enable IPV6 Check the box to allow multicast traffic to pass through **Multicast Streams:** the router from the Internet (IPv6).

(R-845L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT			
RTUAL SERVER	ADVANCED NETWORK	Helpful Hats • UPvP helps other UPv LATI hosts interoperate with the iouter, Leaw the UPvP option enabled as bring as the LAV has other UPvP applications.						
ORT FORWARDING PRUICATION RULES OS ENGINE	These options are for u changing these settings of your network.							
ETWORK FILTER	Save Settings Don't							
CCESS COMMOL								
RESILTE FILTER	E FINED Universal Plug and Pby(UPnP) supports peer-to-peer Plug and Pby functionality for network							
BOUND FILTER	devices.	Response option. Ping at often used by malcou Internet users to locate active networks or PCs.						
DREWALL SETTINGS	Enable U							
OUTING								
DVANCED WIRELESS	WAN PING	usually detected automatically. If you are having problems connecting to the WAN, try selecting the speed manually.						
1 FI PROTECTED ETUP	If you enable the feature Internet that are sent to							
DVANCED NETWORK	Enable WAN Ping F	Hermany, If you are having tractile receiving index o demand trace of service from the hivitrent, male and the hivitrand Stream option is enabled. Internet[EEE], and known ad IEEE 802, 3az, is a set of enhancement to the builted pair and having athenet.						
N6 FIREWALL	WAN PORT SPEED							
NG ROUTING	WAN Po							
	IPV4 MULTICAST STR							
	Enable IPv4 Multicast							
	IPV6 MULTICAST STR	metworking standards that will allow for less						
	Enable IPv6 Multicast	power consumption during periods of low data activity,						
	Save Settings Don't	of Pinnesson						

Guest Zone

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

Enable Guest Check to enable the Guest Zone feature. Zone:

Schedule: The schedule of time when the Guest Zone will be active. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the Tools > Schedules section or click Add New.

Wireless Enter a wireless network name (SSID) that is different **Network Name:** from your main wireless network.

Enable Routing Check to allow network connectivity between the **Between Zones:** different zones created.

Security Mode: Select the type of security or encryption you would like to enable for the guest zone.



IPv6 Firewall

The DIR-845L's IPv6 Firewall feature allows you to configure which kind of IPv6 traffic is allowed to pass through the device. The DIR-845L's IPv6 Firewall functions in a similar way to the IP Filters feature.

Enable Checkbox: Check the box to enable the IPv6 firewall simple security.

Configure IPv6 Select an action from the drop-down menu. **Firewall:**

Name: Enter a name to identify the IPv6 firewall rule.

- Schedule: Use the drop-down menu to select the time schedule that the IPv6 Firewall Rule will be enabled on. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times in the **Tools** > Schedules section.
 - **Source:** Use the **Source** drop-down menu to specify the interface that connects to the source IPv6 addresses of the firewall rule.

DIR-8451	SETUP		ADVANCED BOOLS STATUS				ADVANCED TOOLS STATUS			
VIRTUAL SERVER	IPV6 FIREWAL	t.				Helpful Hints				
PORT FORMAIDING APPLICATION RULES QOS ENGINE NETWORK FILTER	through the de		the same way as P ie device.	sed to allow or deny traf Filters with additional set		 For each rule you can create a name and control the direction of traffic. You can also also or deny a range of IP Addresses, the protocol 				
ACCESS CONTROL	20 - IPVG FIR	EWALL RULES				 and a part range. an order to apply a 				
NEBSTE FILTER NEOLAO FILTER FIREWALL SETTINOS	Remaining num Configure IPv6 Turn IPv6 Piterin	schedule to a Freval rule, your oust first define a schedule on the Tools - a Schedules page.								
KOUTING ADVANCED WIRELESS	Name		Schedule			· Planta				
W1-P1 PROTECTED SETUP ADVANCED NETWORK	Source	Interface LAW •	Alvaya • IP Address Rang	Prof	tocol					
in est zone Ipv6 Firewall Ipv6 Routing	Dest	Interface LAN -	IP Address Rang		Range ~					

IP Address Range: Enter the source IPv6 address range in the adjacent IP Address Range field.

Dest: Use the Dest drop-down menu to specify the interface that connects to the destination IP addresses of the firewall rule.

Protocol: Select the protocol of the firewall port (All, TCP, UDP, or ICMP).

Port Range: Enter the first port of the range that will be used for the firewall rule in the first box and enter the last port in the field in the second box.

IPv6 Routing

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

Route List: Check the box next to the route you wish to enable.

Name: Enter a specific name to identify this route.

Destination IP/ This is the IP address of the router used to reach **Prefix Length:** the specified destination or enter the IPv6 address prefix length of the packets that will take this route.

Metric: Enter the metric value for this rule here.

- Interface: Use the drop-down menu to specify if the IP packet must use the WAN or LAN interface to transit out of the Router.
- **Gateway:** Enter the next hop that will be taken if this route is used.

IRTUAL SERVER ORT FORWARDING IPPLICATION RULES 205 DVGINE	ROUTING This Routing page around your netwo	alows you to spec				Helpful Hints				
PPLICATION RULES		alows you to spec		ROUTING						
XOS ENGENC	around your netwo	This Routing page allows you to specify custom routes that determine how data is moved								
		prk.	-11			check box riext to it, check this box if you				
-	Save Settings	Don't Save Settings				mant the route to be enabled.				
ETWORKFILTER	10 ROUTE LIS					The name field allows				
CCESS CONTRICK			244403348049			you to specify a name for identification of this				
VEBSITE FILTER	Name		Destinatio	in IPv6 / Prefix Length	1	route, e.g. Network 7				
NOOMO FILTER.	a		64			 The destination IPv6 address is the address of 				
IREWALL SETTINGS	Metric	Interface	Gateway			the host or network you with to reach.				
LOUTING		NAL	•	STREET, STREET		• The prefix length field				
OVANCED WIRELESS	Name		Destinatio	on IPvG / Prefix Length		identifies the portion of the destination IP muse.				
VI-FI PROTECTED			64		T	• The pateway IP address is the IP address				
DVANCED NETWORK	Metric	Interface	Gateway			of the router, if any,				
LIEST 20NE		NULL	•			used to reach the specified destination.				
PV6 FIREWALL	Name		Destinatio	on IPv6 / Prefix Length		• Hore				

Tools Admin

This page will allow you to change the Administrator and User passwords. You can also enable Remote Management. There are two accounts that can access the management interface through the web browser. The accounts are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes. Only the admin account has the ability to change both admin and user account passwords.

D-Link

Admin Password:	Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.
User Password:	Enter the new password for the User login. If you login as the User, you cannot change the settings (you can only view them).
Gateway name:	Enter a name for your router.
	Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.
	Check to enable HTTPS to connect to the router securely. This means to connect to the router, you must enter https://192.168.0.1 (for example) instead of http://192.168.0.1 .
	Remote management allows the DIR-845L to be configured from the Internet by a web browser. A username/password is still required to access the Web Management interface.
Remote Admin Port:	The port number used to access the DIR-845L is used in the URL. Example: http://x.x.x.8080 whereas x.x.x.x is the Internet IP address of the DIR-845L and 8080 is the port used for the Web Management interface.
	If you have enabled HTTPS Server, you must enter https:// as part of the URL to access the router remotely.

DIR-845L STATUS TOOLS ADMINISTRATOR SETTINGS De The 'admin' account can access the management interface. The admin has read/write access and can change password. a change the pa By default there is no password configured. It is highly recommended that you create a MAE SETTINGS password to keep your router secure. Save Settings Don't Save Settings NUMBER OF ADMIN PASSWORD THORO Please enter the same password into both boxes, for confirmation. IO EDUES Password : Verify Password : SYSTEM NAME Gabeway Name : DIR-845 ADMINISTRATION Enable Graphical : Authentication Enable HTTPS Server : U Enable Remote Management : // Remote Admin Port : 8000 Use HTTPS: Remote Admin Inbound Filter 1 Alow Al -Details : Alen Al Save Settings Don't Save Settings WIRELESS

Remote Admin This section will list any rules that are created. You may click the Edit icon to

Inbound Filter: change the settings or enable/disable the rule, or click the Delete icon to remove the rule. Details will display the current status.

Time

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the Time Server. Daylight Saving can also be configured to automatically adjust the time when needed.

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

- **Time Zone:** Select your Time Zone from the drop-down menu.
- **Enable Daylight** To select Daylight Saving time manually, select **Saving:** enabled or disabled, and enter a start date and an end date for daylight saving time.
- **Enable NTP Server:** NTP is short for Network Time Protocol. A NTP server will synch the time and date with your router. This will only connect to a server on the Internet, not a local server. Check the box to enable this feature.
 - **NTP Server Used:** Enter the IP address of a NTP server or select one from the drop-down menu.
 - Manual: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second and then click **Set Time**.

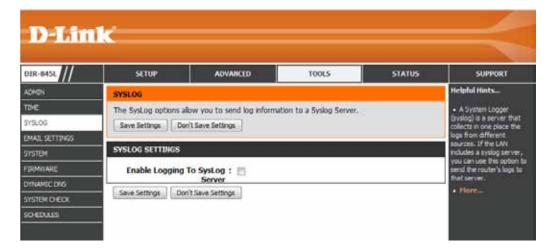
You can also click **Copy Your Computer's Time Settings** to synch the date and time with the computer you are currently on.

D-Lin	ĸ				\prec
DIR-845L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	TIME AND DATE				Helpful Hints
ADMIN TIME SYSLOG EMAA SETTINGS SYSTEM FRAMWARE DYNAMEC DWS SYSTEM OVEOK SOVEDULES	The Time and Date Con correct time on the into in and set the NTP (Ne adjust the time when n Save Settings Don't TIME AND DATE COME TIME AND DATE COME	 Either enter the time manually by clobing the Sync. Your Computers Time Settings builton on the Automatic points whole your router synchronice with a time server on the Internet Horm. 			
	Automatically synch ITP Ser The time has been succ (NTP Server Used: htp) Next time synchronizati SET THE TIME AND D/ Year T2812 + Hour T29 +	dink.com, Time: 2012/0 on: 2012/07/11 10:33:52	net time server	4	

SysLog

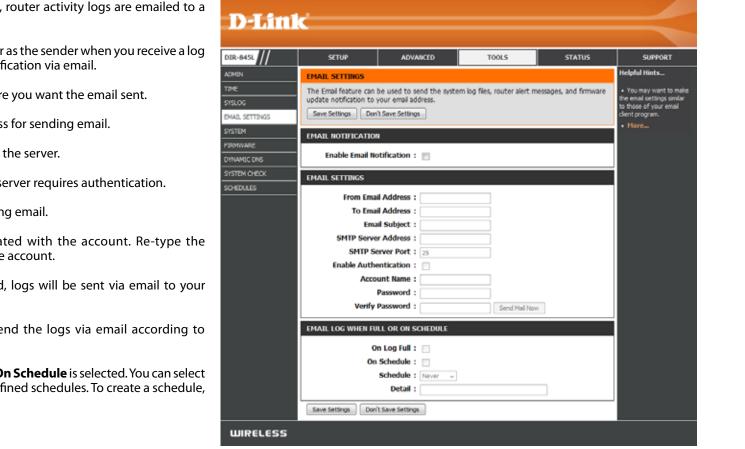
The Broadband Router keeps a running log of events and activities occurring on the Router. You may send these logs to a SysLog server on your network.

- Enable Logging to Check this box to send the router logs to a SysLog SysLog Server: Server.
 - SysLog Server IPThe address of the SysLog server that will beAddress:used to send the logs. You may also select your
computer from the drop-down menu (only if
receiving an IP address from the router via DHCP).



Email Settings

The Email feature can be used to send the system log files, router alert messages, and firmware update notification to your email address.



- **Enable Email** When this option is enabled, router activity logs are emailed to a **Notification:** designated email address.
- From Email Address: This email address will appear as the sender when you receive a log file or firmware upgrade notification via email.
 - To Email Address: Enter the email address where you want the email sent.
- SMTP Server Address: Enter the SMTP server address for sending email.

SMTP Server Port: Enter the SMTP port used on the server.

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

Account Name: Enter your account for sending email.

- **Password:** Enter the password associated with the account. Re-type the password associated with the account.
- **On Log Full:** When this option is selected, logs will be sent via email to your account when the log is full.
- **On Schedule:** Selecting this option will send the logs via email according to schedule.
 - Schedule: This option is enabled when **On Schedule** is selected. You can select a schedule from the list of defined schedules. To create a schedule, go to **Tools > Schedules**.

System

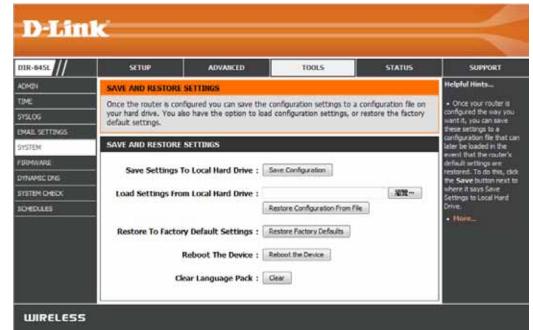
This section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created.

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

Load Settings Use this option to load previously saved router from Local Hard configuration settings. First, use the **Browse** option Drive: to find a previously saved file of configuration settings. Then, click the Load button to transfer those settings to the router.

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

Reboot Device: Click to reboot the router.



Firmware

You can upgrade the firmware of the access point here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support website for firmware updates at **http://support.dlink.com**. You can download firmware upgrades to your hard drive from this site.

- **Browse:** After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.
- **Upload:** Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the access point.

Language Pack

You can change the language of the web UI by uploading available language packs.

Browse: After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.



Dynamic DNS

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

D-Link DIR-8451 SETUP ADVANCED TOOLS STATUS SUPPORT telpful Hints... ADMIN DYNAMIC DHS TIME The Dynamic DNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a To use this feature domain name that you have purchased (www.whateveryournameis.com) with your dynamically ou must first have a SYSLOG mamic DHS account assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP on one of the provide EMAIL SETTINGS addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is. NUTEN We could also use Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com. ODNG function for JPv6 DUNWARE In the same account as Save Settings Don't Save Settings DYNAMIC DNS Hores NSTEM CHECK DYNAMIC DNS SETTINGS ONEDULES Enable Dynamic DNS : Server Address : [dirkddns.com(Free) =] Host Name : Username or Key : Password or Key : Verify Password or Key : Timeout : 567 (hours) Status : Disconnected DYNAMIC DNS FOR IPV6 HOSTS Enable : I **IPv6** Address : << Computer Name Host Name : (e.g.: pv6.mydomain.net) Salve Clear IPV6 DYNAMIC DNS LIST Enable Host Name IPv6 Address WIRELESS

Enable Dynamic Domain Name System is a method of **Dynamic DNS:** keeping a domain name linked to a changing IP Address. Check the box to enable DDNS.

Server Select your DDNS provider from the drop-down **Address:** menu or enter the DDNS server address.

- Host Name: Enter the Host Name that you registered with your DDNS service provider.
- Username or Enter the Username or key for your DDNS Key: account.
- Password or Enter the Password or key for your DDNS account. Key:

Timeout: Enter a timeout time (in hours).

Status: Displays the current connection status.

System Check

Ping Test: The Ping Test is used to send Ping packets to test if a computer is on the Internet. Enter the IP address that you wish to Ping and click **Ping**.

IPv6 Ping Test: Enter the IPv6 address that you wish to Ping and click **Ping**.

Ping Results: The results of your ping attempts will be displayed here.



Schedules

Schedules can be created for use with enforcing rules. For example, if you want to restrict web access to Mon-Fri from 3pm to 8pm, you could create a schedule selecting Mon, Tue, Wed, Thu, and Fri and enter a Start Time of 3pm and End Time of 8pm.

Name: Enter a name for your new schedule.

- Days: Select a day, a range of days, or All Week to include every day.
- Time: Check All Day 24hrs or enter a start and end time for your schedule.
- Save: You must click Save Settings at the top for your schedules to go into effect.
- Schedule Rules The list of schedules will be listed here. Click the List: Edit icon to make changes or click the Delete icon to remove the schedule.

2-845L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
8	SCHEDULES				Helpful Hints
E LOG	The Schedule config "Virtual Server", "Por	Schedules are used with a number of other features to define when			
AL SETTINGS	10 ADD SCHEDU	those features are in effect.			
TEM MWARE LAHIC DNS TEM O-EOX EDULES		Name : Day(s) : Al Week Sun N Sur N Start Time : 12 tour + Start Time : 12 tour + End Time : 11 :59 Add	Ion Tue Wed A)	 Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:000m to 9:000m, mgh be called "After School". Cick Add to add a conpleted schedule to the lat below. Cick Edition to change an existing schedule. Cick Delete icon to permanently delete a
	SCHEDULE RULES	LIST			schedule.
	Name	Day(s)	Time Fra	201541	• More

Status Device Info

This page displays the current information for the DIR-845L. It will display the LAN, WAN (Internet), and Wireless information. If your Internet connection is set up for a Dynamic IP address then a **Release** button and a **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP.

If your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

General: Displays the router's time and firmware version.

WAN: Displays the MAC address and the public IP settings

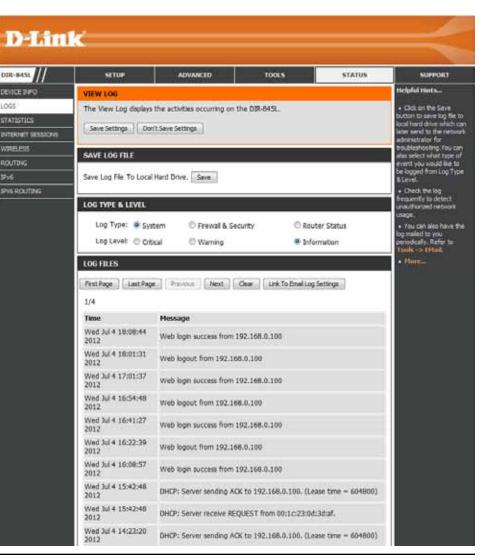
- LAN: Displays the MAC address and the private (local) IP settings for the router.
- **Wireless LAN1:** Displays the 2.4GHz wireless MAC address and your wireless settings such as SSID and Channel.
- **Wireless LAN2:** Displays the 5GHz wireless MAC address and your wireless settings such as SSID and Channel.
- LAN Computers: Displays computers and devices that are connected to the router via Ethernet and that are receiving an IP address assigned by the router (DHCP).

HINE	ABANCID	10865		10.016	5010
DIVILS DROKE		11000			In SAUTHIN
	et and hetwork commentant bed	eb are displayed on	the seat.	The fermale	+ Hofeart
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	nyillinik Servez 1 Non Angolar	ed .			
whe					
	enertion Pype : D+O* Cleve				
	Cable status : Connected				
1.1.1	stwork Status : Connected.				
	8744	Amer			
Koon	action No time : # Coy / Hou				
	HAC Address : 34/08/04/ce	\$7.66			
	IP Address 1 172.17.5.7 Salaset Hask : 355.231.207				
	fault Galariany : 172.17.5.25				
	vy DNS.Sever : 192.308.508				
Second	ay DNS Server 1 192,398,298	(201			
LAR					
1	HACAddress 2 3100 Price	S244			
	IP Address 1 102.000.01				
	Subout Hark 1 255-235-235				
	OHCP Server : Esited	_			
WIRELESS LAW	2				
	Wireless Radio : Enabled				
	HAC Address : 34.08 blue		100		
	803.11 Maile Mirel 812.1	in, 852.13g and 842	5.716		
	Channel Width : 23/404/9 Channel : 8				
100.00	h Baser (SSE) : dan sterted Setup : Endedling	Contraction of the local distribution of the			
	Security : Doubled	or of the second se			
famil Zone	Weekees Radio : Drochet				
	hetwork Name 1 dbill-goad				
2.5	(snit)				
Gand	Zone Security : Durket				
WINELESS LANC	1.				
	Weekens Radio : Exclud				
	MAC Address : 34 DE Block				
	803.11 Hode : Hond 812.11	14 \$16 BUD.118			

Logs

The router automatically logs (records) events of possible interest in it's internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. The Logs option allows you to view the router logs. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

- Log Options: You can select the types of messages that you want to display from the log. System Activity, Debug Information, Attacks, Dropped Packets, and Notice messages can be selected. Click Apply Log Settings Now to activate your settings.
 - **Refresh:** Updates the log details on the screen so it displays any recent activity.
 - First Page: Click to go to the first page.
 - Last Page: Click to go to the last page.
 - Previous: Click to go back one page.
 - **Next:** Click to go to the next page.
 - Clear: Clears all of the log contents.
 - **Email Now:** This option will send a copy of the router log to your email address configured in the **Tools** > **Email Settings** screen.
 - Save Log: This option will save the router log to a file on your computer.



Statistics

The screen below displays the **Traffic Statistics**. Here you can view the amount of packets that pass through the DIR-845L on both the WAN, LAN ports and the wireless segments. The traffic counter will reset if the device is rebooted.

D-Lini	Č							
DIR-845L	SETUP	ADV	ANCED	TOOLS		STATUS	SUPPORT	
DEVICE INFO	TRAFFIC STATISTICS						Helpful Hints	
LOGS	Traffic Statistics displays	Receive ar	nd Transmit pa	ackets passing through the	device		• This is a summary displaying the number	r of
STATISTICS	Refresh Statistics Reset Statistics					packets that have pas	ssed	
INTERNET SESSIONS	LAN STATISTICS						between the Internet and the LAN since the	
WIRELESS	LAW STATISTICS						router was last initializ	zed.
		Sent :	642518	Receiv		254292	- Horem	
IPv6	TX Packets Dro		0	RX Packets Drop		0		
IPV6 ROUTING	Coll	isions :	0	Err	ors :	0		
	WAN STATISTICS							
		Sent :	281382	Receiv	ed :	1124973		
	TX Packets Dro		0	RX Packets Dropp		0		
	Coll	lisions :	0	Erro	ors :	0		
	WIRELESS STATISTIC	S - 2.4GH	IZ BAND					
		Sent :	0	Receiv	ved :	0		
	TX Packets Dro	opped :	0	RX Packets Drop	ped :	0		
	Coll	isions :	0	Err	ors :	0		
	WIRELESS STATISTIC	S - 5GHZ	BAND					
		Sent :	0	Recei	ved :	0		
	TX Packets Dro	opped :	0	RX Packets Drop	ped :	0		
	Coll	lisions :	0	Err	ors :	0		
WIRELESS	1							

Internet Sessions

The Internet Sessions page displays full details of active Internet sessions through your router. An Internet session is a conversation between a program or application on a LAN-side computer and a program or application on a WAN-side computer.

D-Lini	<				
DIR-845L	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
DEVICE INFO	INTERNET SESSIONS				Helpful Hints
LOGS	This page displays Sour	ce and Destination session	ns passing through the (device.	• This is a list of all
STATISTICS	Refresh				active conversations between WAN computers
INTERNET SESSIONS					 and LAN computers. More
WIRELESS	IP	TCP Cour	t upp	Count	• Hore
ROUTING	192.168.0.100	26	0	Counc	
IPv6	192.108.0.100	20	v		
IPV6 ROUTING					
WIRELESS					

Routing

This page will display your current routing table.

IR-845L	SETUP	ADV	ANCED	TOOLS		STATUS	SUPPO
ICE INFO	ROUTING						Helpful Hints.
ISTICS	Routing Table This page display	s the routing deta	ils configured for you	ur router.			This is a list o routing rules on More
ERNET SESSIONS	- ROUTING TABL	E					• Hore
ELESS	Destination	Gateway	Genmask	Metric	Iface	Creator	
IING	192.168.0.0	0.0.0.0	255.255.255.0	0	LAN	SYSTEM	
ROUTING	172.17.5.0	0.0.0	255.255.255.0	0	INTERNET	SYSTEM	
	239.0.0.0	0.0.0	255.0.0.0	0	LAN	SYSTEM	
	0.0.0	172.17.5.254	255.255.255.255	100	INTERNET	SYSTEM	

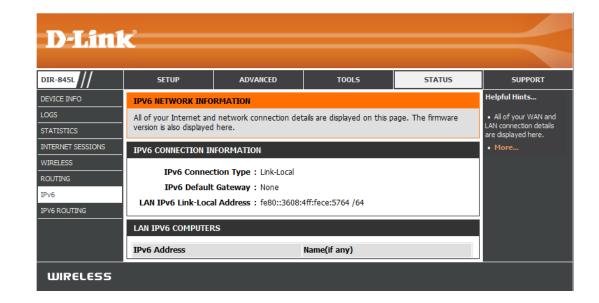
Wireless

The wireless client table displays a list of current connected wireless clients. This table also displays the connection time and MAC address of the connected wireless clients.



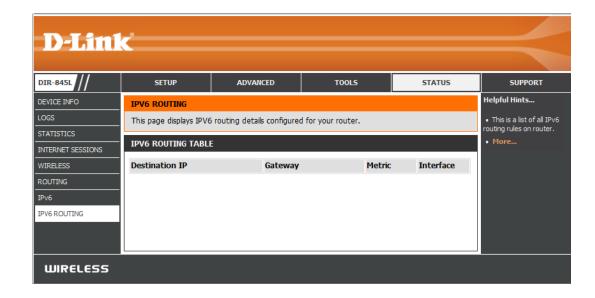
IPv6

The IPv6 page displays a summary of the Router's IPv6 settings and lists the IPv6 address and host name of any IPv6 clients.

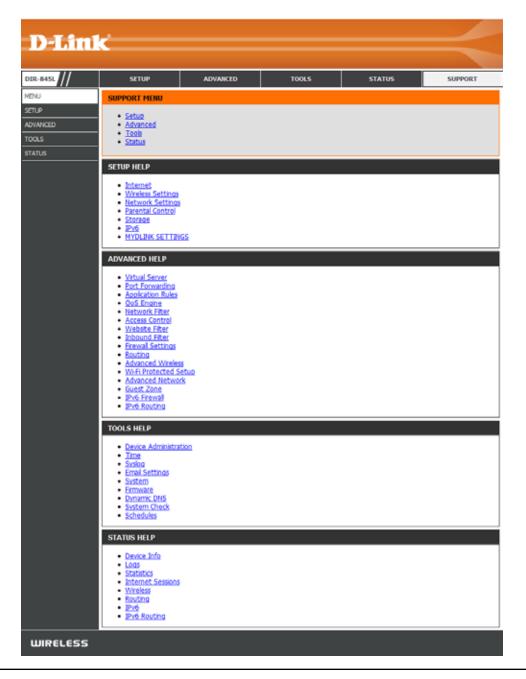


IPV6 Routing

This page displays the IPV6 routing details configured for your router.



Support



Connect a Wireless Client to your Router WPS Button

The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-845L router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DIR-845L for about 1 second. The Internet LED on the front will start to blink.



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

Windows[®] 7 WPA/WPA2

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

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



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



Section 4 - Security

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

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

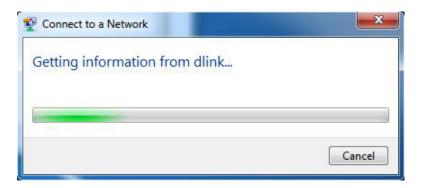
4. The following window appears while your computer tries to connect to the router.

հն Wireless Network Connection ^ -1 dlink Connect automatically Connect kay2690_24 james2690g ALPHA dlink 888 SD6 WLAN -11 DAP-2690g Open Network and Sharing Center

Not connected

Connections are available

44



Section 4 - Security

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

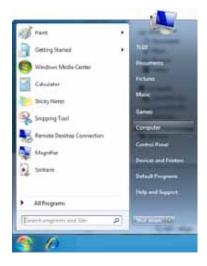
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.

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

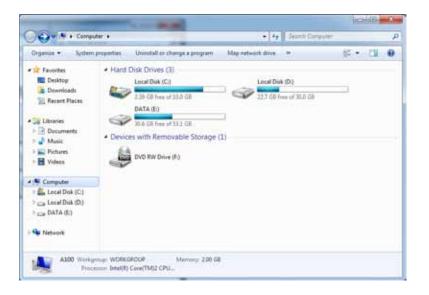
WPS

The WPS feature of the DIR-845L can be configured using Windows[®] 7. Carry out the following steps to use Windows[®] 7 to configure the WPS feature:

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



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



3. Double-click the DIR-845L.



4. Input the WPS PIN number (displayed in the WPS window on the Router's LCD screen or in the **Setup** > **Wireless Setup** menu in the Router's Web UI) and click **Next**.

🕞 😵 Set 1	Up a Network	
You can router o	t up a network, type the 8-digit PIN from the In find the numeric PIN on a label attached to the or in the printed information that came from the acturer.	router label
		Net Cancel

5. Type a name to identify the network.

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

Click Next to continue.

Your net	our network a name		
character	vork needs a unique name se s or less) and recognizable.	o that it can be easily identified. It is best to keep the n	ame short (25
Type you	r network name:	Security-enabled network	
D-Link_	per a su de la construction de la c	Your network is being set up using WP/	A2-Personal.
Change p Security I	(도 12) 공간 전 문 관심	i encryption type (advanced): Security level:	
f6mm-g	1zb-9vev	WPA2-Personal (Recommended)	- N
Conne V	ect automatically	Encryption type:	
		AES (Recommended)	-
😌 Vagu	ide of replace the router usin	ig the network settings stored on this computer	

7. The following window appears while the Router is being configured.

Wait for the configuration to complete.



8. The following window informs you that WPS on the router has been setup successfully.

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

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

-Link_Net has be	en successfully set up	
o add an older wireles	device to this network; you might need	to provide this security key
	894g-eyd5-g5wb	
ou can <u>print these net</u>	ork settings for future reference.	
or gaming consoles or asier set up.	computers running Windows XP, <u>copy I</u>	the network profile to a US8 deve

Windows Vista®

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

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

or

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

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

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



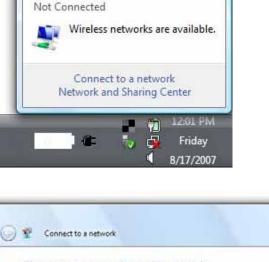


WPA/WPA2

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

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

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





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

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

Тур	the network security key or passphrase for Candy
The	person who setup the network can give you the key or passphrase.
Secu	nity key or passphrase:
ED	lisplay characters
ø	If you have a USE flash drive with network settings for Candy, insert it now.

WPS/WCN 2.0

The router supports Wi-Fi protection, referred to as WCN 2.0 in Windows Vista[®]. The following instructions for setting this up depends on whether you are using Windows Vista[®] to configure the router or third party software.

When you first set up the router, Wi-Fi protection is disabled and unconfigured. To enjoy the benefits of Wi-Fi protection, the router must be both enabled and configured. There are three basic methods to accomplish this: use Windows Vista's built-in support for WCN 2.0, use software provided by a third party, or manually configure.

If you are running Windows Vista[®], log into the router and click the **Enable** checkbox in the **Basic** > **Wireless** section. Use the Current PIN that is displayed on the **Advanced** > **Wi-Fi Protected Setup** section or choose to click the **Generate New PIN** button or **Reset PIN to Default** button.

PIN SETTINGS	
Current PIN : 53468734	
Reset PIN to Default	Generate New PIN

If you are using third party software to set up Wi-Fi Protection, carefully follow the directions. When you are finished, proceed to the next section to set up the newly-configured router.

Windows® XP

Windows[®] XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows[®] XP utility as seen below.

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

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

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

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



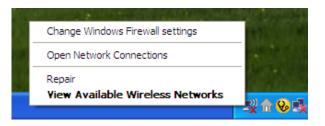


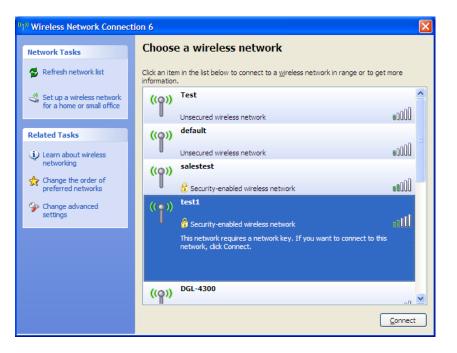


WPA/WPA2

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

- 1. Open the Windows[®] XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.
- 2. Highlight the Wi-Fi network (SSID) you would like to connect to and click **Connect**.





Section 5 - Connecting to a Wireless Network

3. The Wireless Network Connection box will appear. Enter the WPA-PSK Wi-Fi password and click Connect.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The Wi-Fi password must be exactly the same as on the wireless router.

Wireless Network Conn	ection 🔀
	a network key (also called a WEP key or WPA key). A network intruders from connecting to this network.
Type the key, and then click	Connect.
Network <u>k</u> ey:	1
Confirm network key:	
	<u>C</u> onnect Cancel

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-845L. Read the following descriptions if you are having problems. The examples below are illustrated in Windows[®] XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer[®] 7 and higher
 - Mozilla Firefox 3.5 and higher
 - Google[™] Chrome 8 and higher
 - Apple Safari 4 and higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows[®] XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

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

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

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

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

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

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

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

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

Example: ping yahoo.com -f -l 1472

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

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

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

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

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

Wireless Basics

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

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Router is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

Why D-Link Wireless?

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

How does wireless work?

Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home

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

Small Office and Home Office

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

Where is wireless used?

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

Using a D-Link Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-Hoc Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more DIR-845L wireless network Cardbus adapters.

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

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

Networking Basics

Check your IP address

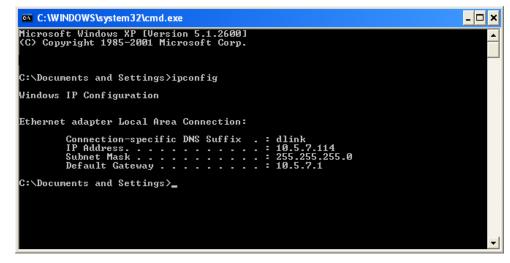
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

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

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

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



Statically Assign an IP address

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

Step 1

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

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

- Windows[®] XP Click on **Start** > **Control Panel** > **Network Connections**.
- Windows[®] 2000 From the desktop, right-click **My Network Places** > **Properties**.

Step 2

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

Step 3

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

Step 4

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

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

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

Step 5

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

eneral	
	l automatically if your network support ed to ask your network administrator f
O Obtain an IP address autom	atically
() Use the following IP address	•
IP address:	192.168.0.52
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
C Obtain DNS server address	automaticalle
() Use the following DNS serv	er addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
	Advanced

Technical Specifications

Hardware Specifications

- LAN Interface: Four 10/100/1000Mbps LAN ports
- WAN Interface: One 10/100/1000Mbps Internet port
- Wireless Interface (2.4Ghz): IEEE 802.11b/g/n
- Wireless Interface (5Ghz): IEEE 802.11a/n
- USB Interface: Complaint USB 2.0

Operating Voltage

- Input: 100~240V (±20%), 47~63Hz
- Output: DC12V, 2A

Temperature

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

Humidity

- Operating: 10% 90% non-condensing
- Non-Operating: 5% 95% non-condesing

Wireless Frequency Range

- IEEE 802.11a: 5180 MHz~5240 MHz, 5745 MHz~5825 MHz
- IEEE 802.11b: 2400 MHz~2483 MHz
- IEEE 802.11g: 2400 MHz~2484 MHz
- IEEE 802.11n: 2400 MHz~2484 MHz, 5180 MHz~5240 MHz, 5745 MHz~5825 MHz

Wireless Bandwidth Rate

- IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11b: 11, 5.5, 2, and 1 Mbps
- IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11n: 6.5 to 300 Mbps

Wireless Channel Numbers

- IEEE 802.11a: Channels 36~64 and Channels 149~165
- IEEE 802.11b: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan)
- IEEE 802.11g: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan)
- IEEE 802.11n: Channels 1~11 (USA), 1~13 (Europe), 1~14 (Japan), Channels 36~64 (Channels 149~165 for IEEE 802.11an)

Antenna Type

• Six Internal Antennas (Two 2.4 GHz Antennas, Two 5 GHz Antennas)

Wireless Security

 64/128bit WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise, WPS (PIN & PBC)

Certifications

• FCC, CE, C-Tick.

Dimensions

- W=9.9 cm
- L=11.9 cm
- H=19.15cm

Warranty

• 2 years