Version 1.00 | 10/20/2015





User Manual

TAIPAN AC3200 Ultra Wi-Fi Modem Router DSL-4320L

Preface

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

Manual Revisions

Revision	Date	Description	
1.00	October 20, 2015	Initial release	

Trademarks

D-Link and the D-Link logo are trademarks or registered trademarks of D-Link Corporation or its subsidiaries in the United States or other countries. All other company or product names mentioned herein are trademarks or registered trademarks of their respective companies.

Apple[®], Apple logo[®], Safari[®], iPhone[®], iPad[®], iPod touch[®] and Macintosh[®] are trademarks of Apple Inc., registered in the U.S. and other countries. App StoreSM is a service mark of Apple Inc.

Chrome[™] browser, Google Play[™] and Android[™] are trademarks of Google Inc.

Internet Explorer[®], Windows[®] and the Windows logo are trademarks of the Microsoft group of companies.

Copyright © 2015 by D-Link Corporation, Inc.

All rights reserved. This publication may not be reproduced, in whole or in part, without prior expressed written permission from D-Link Corporation, Inc.

Power Usage

ErP Power Usage

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

Network Standby: 11.612 watts

Switched Off: .02 watts

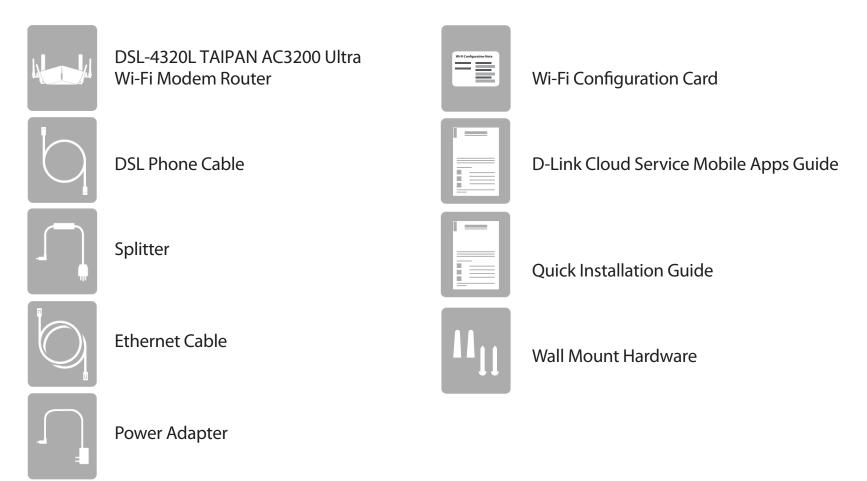
Table of Contents

Preface	i
Product Overview	1
Package Contents	
System Requirements	
Introduction	
Features	
Antenna Setup	5
Hardware Overview	б
Connections	б
LEDs	7
Installation	Q
Before you Begin	
Wireless Installation Considerations	
Manual Setup	10
Getting Started	13
Setup Wizard	14
mydlink SharePort	22
Using the mydlink SharePort™ app for iPad®,	
iPhone [®] , and iPod touch [®]	22
Main Menu	27
Documents	28
Pictures	30
Videos	32
Music	
Folders	37

Favorites40
Using the mydlink SharePort™ app for Android™41
Main Menu46
Documents47
Pictures
Videos51
Music53
Folders
Favorites60
Configuration61
Home
Internet62
DSL-4320L63
Connected Clients64
USB Device
Settings67
Wizard67
Internet67
IPv469
DSL
ATM79
PTM80
IPv681
Wireless95
Guest Zone97
Network

Windows® 7125
WPA/WPA2125
WPS128
Windows Vista [®] 132
WPA/WPA2
Windows® XP135
WPA/WPA2136
Troubleshooting138
Wireless Basics142
What is Wireless?143
Tips145
Wireless Modes146
Networking Basics147
Check your IP address147
Statically Assign an IP address
Wireless Security149
What is WPA?149
Technical Specifications150

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 DSL-4320L will cause damage and void the warranty for this product.

System Requirements

 An Ethernet-based cable or DSL modem 802.11ac, n, g, b, or a wireless or Ethernet port 	
 Computer with the following: Windows[®], Macintosh, or Linux-based operating system An installed Ethernet adapter Browser Requirements: Internet Explorer 9 or higher Firefox 20 or higher Safari 5.1 or higher 	
• Chrome 25 or higher Windows [®] Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.	
 iPhone/iPad/iPod touch (iOS 6.0 or higher) Android device (2.3 or higher) Computer with the following browser requirements: Internet Explorer 9 or higher Firefox 20 or higher Safari 5.1 or higher Chrome 25 or higher 	

Introduction

The D-Link DSL-4320L TAIPAN AC3200 Ultra Wi-Fi Modem Router shares your DSL Internet connection over a blazing-fast Wireless AC connection using advanced AC beamforming technology to maximize the speed and range of your wireless signal to significantly outperform 802.11n and other 802.11ac devices. It also comes equipped with four Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports. With the addition of Advanced Quality of Service (QoS), data streams are separated, which helps organize and prioritize your network traffic so your video streaming, gaming, and VoIP calls run smoother over both your wired and wireless network.

The TAIPAN AC3200 Ultra Wi-Fi Modem Router is mydlink-enabled, which gives you access to your home network no matter where you go. Now you can monitor and manage your home network right from your laptop, iPhone[®], iPad[®], or Android[™] device. mydlink-enabled routers can be configured to send an email to keep you informed anywhere, anytime when new devices are connecting to your network or unwanted access is detected. Monitor in real-time websites that are being visited with recent browser history displayed on the mydlink[™] Lite app – which is great for parents.

SharePort technology lets you take advantage of the USB 3.0 port found on the back of your DSL-4320L (as well as an additional USB 2.0 port). Plug in a USB storage drive and you can use the mydlink SharePort[™] app for iPad[®], iPhone[®], iPod touch[®], and Android[™] device to access files, stream videos, view photos, or listen to music on your laptop or mobile devices.

The DSL-4320L TAIPAN AC3200 Ultra Wi-Fi Modem Router provides incredible speeds, smart antenna technology, fast ports, cloud features, and terrific security features. It also features an innovative design and easy installation options.

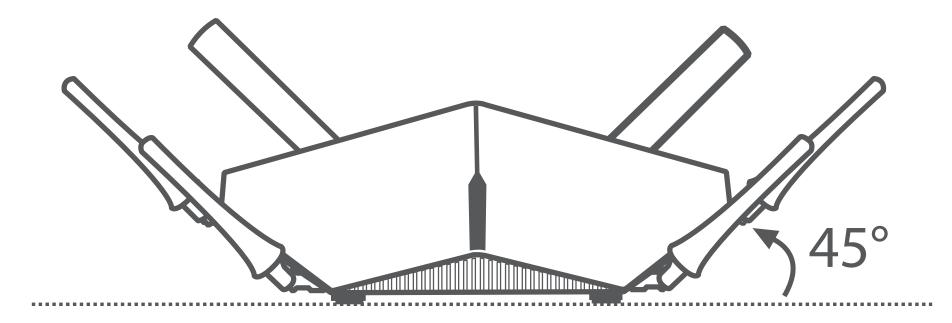
Features

- Faster Wireless Networking The DSL-4320L introduces Smart Connect, a new D-Link feature which when combined with an additional 5 Ghz antenna can provide up to a full 3200 Mbps^{*} wireless connection with concurrent 801.11ac and 802.11n wireless clients . It also operates on both the 2.4 GHz and 5 GHz bands to allow separation of traffic so users can participate in high-bandwidth activities, such as video streaming, online gaming, and real-time audio, without affecting low-priority traffic like email and web surfing.
- **Cloud Features** The DSL-4320L is mydlink-enabled so you can remotely access and mange your DSL-4320L from a mobile device using the mydlink Lite app. The mydlink SharePort[™] app can be used to share files, stream videos, view photos, and play music. SharePort Plus lets you share a printer.
- **Compatible with 802.11n/g/b/a Devices** The DSL-4320L is still fully compatible with the 802.11n, IEEE 802.11g and 802.11a standards, so it can connect with existing 802.11n, 802.11g, 802.11b, and 802.11a wireless devices.
- 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.
 - **Scheduling** The Firewall, wireless, and port forwarding features can be scheduled to be active on certain days, or for a duration of a set number of hours.
 - Secure Multiple/Concurrent Sessions The DSL-4320L can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DSL-4320L can securely access corporate networks.
- User-friendly Setup Wizard Through its easy-to-use web-based user interface, the DSL-4320L 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, 802.11b, 802.11g, 802.11n, and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Antenna Setup

The DSL-4320L is designed to give you the fastest, most stable network connection possible. In order to maximize performance, orient the antennas at an angle, pointing outward and away from the base unit.



NOTE: Attach the antennas to the router before powering it on.



1	DSL Port Connect to an DSL-enabled telephone line and with the supplied microfilter/splitter.	
2	USB 3.0 Port	Connect a USB flash drive to share content, or connect it to a USB printer to share it on your network.
3	USB 2.0 Port	Connect a USB flash drive to share content , or connect it to a USB printer to share it on your network.
4	4 Reset Button Insert a paperclip in the hole and wait for several seconds to reset the router to default settings	
5	WPS Button	Press to start the WPS process and automatically create a secure connection to a WPS client.
6	Gigabit LAN Ports (1-4)	Connect Ethernet devices such as computers, switches, storage (NAS) devices and game consoles.
7	Power Button	Press the power button to power on and off.
8	Power Connector	Connector for the supplied power adapter.



1	Power LED	A solid green light indicates a proper connection to the power supply. The light will be solid red during boot up.
2 USB 3.0/2.0 LED A solid green light indicates that a USB device was detected in the USB 3.0 port. A solid orange light indicates that a USB device was detected in the USB 2.0 port.		
3	Wireless (2.4 GHz) LED	A solid green light indicates that the 2.4 GHz wireless band is enabled.
4	4 Wireless (5 GHz) LED A solid green light indicates that the 5 GHz wireless band is enabled.	
5	DSL LED	A solid green light indicates a proper connection to a DSL enabled telephone line.
6	Internet LED	A solid green light indicates a proper connection to a broadband service.

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, attic, or garage.

Note: This installation section is written for users who are setting up their home Internet service with the DSL-4320L TAIPAN AC3200 Ultra Wi-Fi Modem Router for the first time. If you are replacing an existing DSL modem and/or router, you may need to modify these steps.

Before you Begin

- Make sure to have your DSL service information provided by your Internet Service Provider handy. This information is likely to include your DSL account's Username and Password. Your ISP may also supply you with additional WAN configuration settings which are necessary to establish a connection. This information may include the connection type (DHCP IP, Static IP, PPPoE, or PPPoA) and/or ATM PVC details.
- If you are connecting a considerable amount of networking equipment, it may be a good idea to take the time to label each cable or take a picture of your existing setup before making any changes.
- We suggest setting up your DSL-4320L from a single device and verifying that it is connected to the Internet before connecting additional devices.
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE connection software such as WinPoET, BroadJump, or EnterNet 300 from your computer as the DSL-4320L will be providing this functionality.

Wireless Installation Considerations

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

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

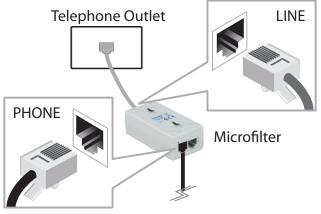
Manual Setup

Position your router close to a wall jack which provides DSL service. Place the router in an open area of your intended work area for better wireless coverage.



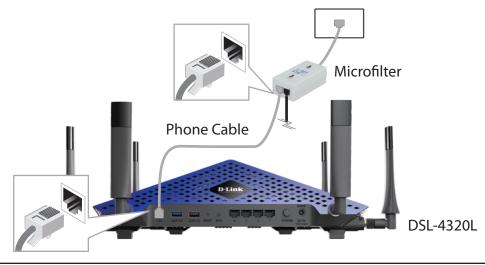
Connect your existing phone cable from a telephone outlet to the LINE port on the Microfilter and your telephone handset into the PHONE port.

Caution: - To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.





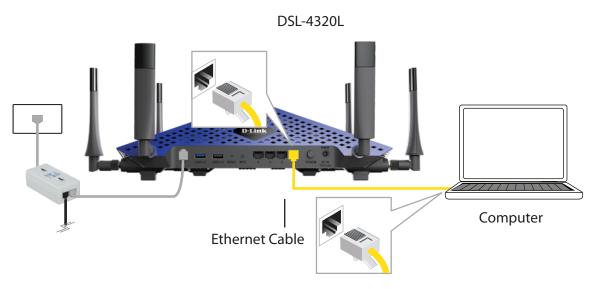
Connect the Phone cable from the DSL port on the Microfilter to the ADSL port of the modem router.





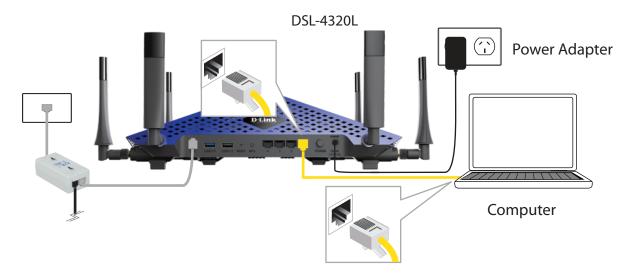
5

If you wish to use a wired connection, connect the Ethernet cable from a LAN port of the DSL-4320L to the Ethernet port on your computer.



Plug the power adapter into your modem router and connect to an available power outlet or surge protector.

Caution: - Use only the included power adapter with this product.



6 Press the power button and verify that the power LED is lit. Allow 1 minute for the router to boot up.



7

If connecting to the DSL-4320L wirelessly, access the wireless utility on your computer or mobile device. Scan for available Wi-Fi networks (SSID). Select and join a Wi-Fi network and use the password which corresponds to the information on the supplied Wi-Fi Configuration Card.



Getting Started

There are two 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 "Setup Wizard" on page 14.
- Manual Setup Log into the router and manually configure your router. Refer to "Configuration" on page 61.

Setup Wizard

If this is your first time installing the router, open your web browser and enter **http://dlinkrouter.local./** in the address bar. Alternatively, enter the IP address of the router (default: **http://192.168.1.1**).

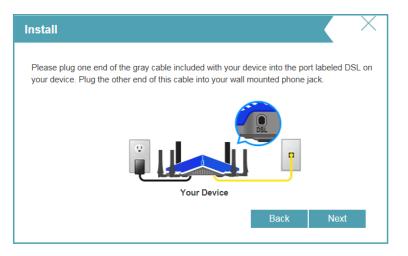
The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click Next to continue.

Ensure that your DSL phone cable is connected to both the router and the wall jack.

Click Next to continue.

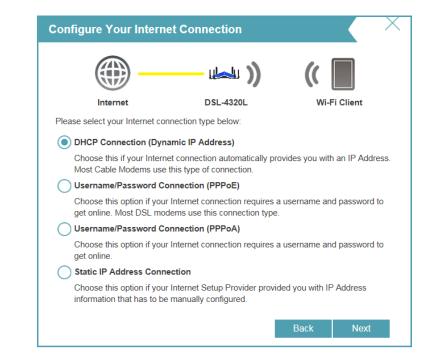






If the router does not detect a valid Internet connection, a list of connection types to choose from will be displayed.

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



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.

PPPoE			X		
	- uladu))	((
Internet	DSL-4320L	Wi-Fi Client			
To setup this Internet connection, you will need to have a User Name from your Internet Service Provider. If you do not have this information, please contact your ISP.					
Pass	word:				
		Back Nex	t		

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

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

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

	Username: Password:		
		Back	Next
Static IP			X

4

Internet

information, please contact your ISP.	atic IP connection	and do not have	this
IP Address:]
Subnet Mask:]
Gateway Address:]
Primary DNS Address]
Secondary DNS Address]
		Back	Next

DSL-4320L

To set up this conncetion you will need to have a complete list of IP information by your

Wi-Fi Clien

PPPoA

You may be prompted to confirm the Asynchronous Transfer Mode Permanent Virtual Circuit (ATM PVC) settings. We suggest using the default Virtual Path Identifier (VPI), Virtual Channel Identifier (VCI), and Logical Link Control (LLC) encapsulation settings unless directed by your ISP.

These settings may be adjusted later from the Web Configuration Utility. For more information refer to "ATM" on page 79.

Click **Next** to continue.

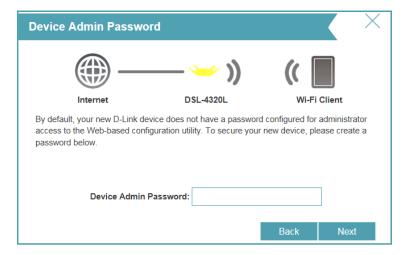
Create a Wi-Fi password (between 8-63 characters). Your wireless clients will need to have this passphrase or key entered to be able to connect to your wireless network.

Click Next to continue.

Configure Your Internet Connection				
		((
Internet	DSL-4320L	Wi-Fi Client		
Please select your country below	v to configure a ATM PVC.			
Others	VPI:	8		
Configure	PVC manaully. VCI:	35		
Please select th	he encapsulation mode below	V.		
	\bigcirc	VC Mux		
		Back Nex	ct	

Wi-Fi Settings			X
······	⊨ ⊎))	<mark>((</mark>	
Internet DS	L-4320L	Wi-Fi (Client
To setup a Wi-Fi network you will need to gi password.	ive your Wi-Fi ne	etwork a name(SS	ID) and
2.4GHz Wi-Fi Network Name:	DSL-4320L		
Primary 5GHz Wi-Fi Network Name:	DSL-4320L]
Secondary 5GHz Wi-Fi Network Name:	DSL-4320L]
The Wi-Fi Network Name is up to 32 chara using this Network Name (SSID).	acters. You will r	need to join your W	/i-Fi network
2.4GHz Wi-Fi Password:	abcdefgh		
Primary 5GHz Wi-Fi Password:	abcdefgh]
Secondary 5GHz Wi-Fi Password:	abcdefgh]
The password must contain at least 8 char using this password.	acters. You will	need to join your \	Vi-Fi network
		Back	Next

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



The Summary window will display your settings. Click **Next** if you are satisfied, or click **Back** to make changes to them.

Summary		×
	— ukalu))	(🔲
Internet	DSL-4320L	Wi-Fi Client
Below is a summary of your Wi- note of your settings and click "N		ord settings. Please make a
	Connection Type: Dynamic I	P (DHCP)
2.4GHz Wi-	Fi Network Name: DSL-4320	L_2G
2.4GHz	z Wi-Fi Password: abcdefgh	
5GHz Wi-l	Fi Network Name: DSL-4320	L_2G
5GHz	z Wi-Fi Password: abcdefgh	
Device	Admin Password: 12345678	90
		Back Next

To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select **Yes** if you have a mydlink account already, or **No** if you want to create one. Click **Next** to continue.

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

mydlink Re	gistration		
	my	dlink	
network through	mydlink-enabled, which allow gh the mydlink.com website, ter this device with your existi	vs you to remotely monitor or through the mydlink mo	bile app.
	Do you have an exist	ting mydlink account?	
	Yes, I have a my	dlink account.	

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

mydlink Registration	
myd	llink
E-mail Address (Account Name): Password:	
	Back Next

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

mydlink Registration		
	mydlink	
E-mail Address (Account Name):		
Password:		
First Name:		
Last Name:		
	I accept the mydlink terms and con- conditions.	<u>ditions.</u> terms and
	Bad	k Next

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

Congratulations	
	levice has been configured. You can now connect to your Wi-Fi ew Wi-Fi Network Name and Password you created.
	Connection Type: Dynamic IP (DHCP)
 ✓ 	Device Admin Password: 1234567890
✓ 📕	2.4GHz Wi-Fi Network Name: DSL-4320L_2G 2.4GHz Wi-Fi Password: abcdefgh 5GHz Wi-Fi Network Name: DSL-4320L_2G 5GHz Wi-Fi Password: abcdefgh
X mydlink	Status: Unregistered
	Finish

The mydlink App will allow you to receive notices, browse network users, and configure your router from an iPhone/iPad/iPod touch (iOS 6.0 or higher), or Android device (2.3 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**.





mydlink SharePort

Using the mydlink SharePort[™] app for iPad[®], iPhone[®], and iPod touch[®]

The mydlink SharePort[™] app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage device connected to your router. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access your photos, videos, music, and documents. It allows you to create your own personal cloud storage. You can upload files and photos from your mobile device to the removable storage via the app from anywhere in the world!

Note: In order to ensure smooth streaming performance, you will need a minimum of 2 Mbit/s upload bandwidth for your router's Internet connection. Streaming performance will vary depending on the quality of your Internet connection.

If you choose to skip the mydlink SharePort registration during the initial setup of your DSL-4320L, you may begin the registration process anytime by accessing the mydlink SharePort feature from within the router configuration menu. Refer to page 102 for details on how to begin the mydlink shareport registration process.

- 1. If you are connecting remotely through the mydlink SharePort[™] app from the Internet, you will need a **mydlink** account.
- 2. Make sure the device is powered on. Then plug your USB drive into a USB port on the device.

Note: If you connect a removable storage device with several thousand files, it may take a while for the router to scan and catalog them.



Plug your removable storage device in either the USB 2.0 or 3.0 port.

D-Link DSL-4320L User Manual

Section 3 - Getting Started

3. Use your iPhone, iPad or iPod touch to search for and download the free **mydlink SharePort** app from the App Store.

If you have a QR code reader, you can scan the code for **mydlink SharePort** to the right.

4. Tap the mydlink SharePort icon, and the app will load.

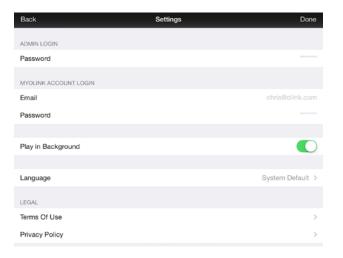
5. Tap **Set up** to go to Settings and enter the Admin password and your mydlink Account Login information when the pop-up displays. Tap **Done** when your information is entered. (The Admin password is only for local access, if you can connect through the Internet, then you can leave the Admin password blank)











D-Link DSL-4320L User Manual

1. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit green to indicate you are connected to the router through Remote Access. If you need to change your settings, tap the gear icon at the top right corner to enter the settings page.

2. If you have more than one device registered to your mydlink account, you can tap **Device List** (in the top-left corner) and you will be prompted to select the device you wish to use.

Note: A red wireless icon indicates that your router's network environment may not be optimal for streaming media and you may experience slow downs or otherwise degraded performance.



		mydlink SharePort	\$
I	DIR-845L DIR-845L/ 22025791		0
_	DIR-862L		0

Using mydlink SharePort on a local network:

- 1. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.
- **Note:** If you connect a removable storage device with several thousand files, it may take a while for the router to scan and catalog them.
- 2. Use your iPhone, iPad or iPod touch to search for and download the free **mydlink SharePort** app from the App Store.

If you have a QR code reader, you can scan the code for **mydlink SharePort** to the right.

3. On your mobile device, go to your Wi-Fi settings and connect to your router's wireless network using the default Wi-Fi settings. Locate the Wi-Fi name (SSID) and password for your device as printed on the included Wi-Fi Configuration Card.

4. Tap the **mydlink SharePort** icon, and the app will load.





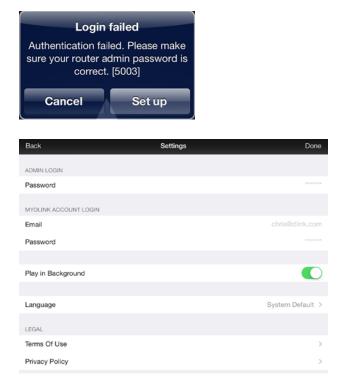
Settings Wi-Fi Networks		
Wi-Fi	ON	
Choose a Network	July 10	
_top_of_the_list	📀 🤶 🗎	
0-dd-wrt-2.4g	₽∻ 📀	
1650_D	£ ? ₪	
166524	ی ج 🛯	
845neutrino	£ ? ₪	
868newUI	₽ 🗢 🜔	
✓ aDlinkRouter	ی ج 🔒	



1. Tap **Set up** to enter the Admin password for your router when the pop-up displays.

2. Enter your Admin Login in the Password field and tap **Done**.

- 3. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit blue to indicate a Local Access connection. If you need to change your settings, tap the gear icon at the top right corner to enter the settings page.
- **Note:** A red wireless icon indicates that your router's network environment may not be optimal for streaming media and you may experience slow downs or otherwise degraded performance.





Main Menu

The mydlink SharePort main menu has different sections that let you see all the documents, photos, movies, or music stored on your removable storage. Tap < or >, or swipe left or right to move between the different sections. The Wi-Fi icon at the bottom indicates an active local network connection (blue) or remote connection (green/red). Tap **Log In** if it is not lit, or **Log Out** to return to the login page.



Tap on the document icon to view documents.



Tap the camera icon to view photos.



Tap on the movie icon to play videos.



Tap on the music icon to play audio files.



Tap on the folder icon to browse all files in a folder view.



Tap on the star icon to access your favorite files.



Documents

The Documents section allows you to share, print, and view documents streamed from your DSL-4320L to your mobile device. Tap the document icon on the main menu to browse the documents on your mobile device.

Search Bar: Enter a filename here to search your storage.



Tap to mark files for deletion.

Tap the star icon next to each file to download it to your device and add it into your Favorites section.

- Tapping this icon gives you additional options:
 - Mail: Tap to e-mail the file.
 - **iCloud**: Tap to store the file on iCloud.
 - AirPrint: Tap to print the file.
 - Open In...: Tap to use a third-party app to open the file.

The bottom menu bar includes these options:



Tap to go back to the main menu.



Tap to update the list of files.



Tap to reorder the files alphabetically.



	Documents	Ed
SI	earch Shareport Storage	
Ì	Giftbox Editing.pptx 720.04K8, 2009-10-15.10.40.34	介 (
Ì	Network Storage - DAS, NAS, SAN.ppt 6.94M8, 2009-06-24-06:52:38	介(
Ì	Network Storage - NAS.ppt 3.84M8, 2009-03-18 02:44:30	合 (
5	Switch - D-View 6 Introduction.ppt 1.99MB, 2009-03-20 09-35-10	合 (
Ì	Switch - Switch Basics.ppt 1.20M8. 2009-03-12 03:42:10	介(
	Wireless - Antenna Concepts.ppt 17.08MB, 2006-03-20 06:06:36	<u>i</u>
	Wireless - Wireless Access Point.ppt 3.65M8, 2009-03-11 06:51:46	合 (
	20090514 GPON introduction.ppt 6.80M8, 2009-05-17 14:04:28	六 (
	20090714_CableModem.ppt 8.25MB, 2009-07-01 00:58:54	介(
Ì	20090911_CableModem.ppt 7.51MB, 2009-10-20 10:34-20	六(
1	UTM Firewall Management.pdf 726.70K8, 2009-01-15.06/47.02	合 (
	Second Constation D Hick Groop Switcher 2000 01 12 and	

Tap on a file to start the document viewer. In the viewer:



Tap to add/remove the file from your Favorites.

Tap to bring up the same options as >.

Note: Some files may require a third-party app to view them.

D-Link Building Networks for People	DAP-1320 Wireless Range Extender N300
	(° II
Technical Specifications	
General	Room V V V V V V
General	Roure Roure Rest batten
General Devce interfaces	Roore Roore Weeks Decks House Lings & writes • MC 11mg & writes • Virgitation · Virgitation
General Device interfaces LED	• SR211n1g b writess • Rest button • SR21nng b writess • Rest button • StrawWite • StrawWite
General Device Interfaces LED Standards	• 862.11 mg to services • Reset button • 962.11 mg to services • Reset button • 969.000195 • • \$482.800195 •

Pictures

The Pictures section allows you to stream images from your DSL-4320L to your mobile device. Tap the camera icon on the main menu to browse your photo collection on your removable storage.

Search Bar: Enter a filename here to search your storage.



Tap to mark files for deletion.

Tap the star icon next to each file to download it to your device and add it into your Favorites section.



Tapping this icon gives you additional options:

- Mail: Tap to e-mail the image.
- iCloud: Tap to store the image on iCloud.
- AirPrint: Tap to print the image.
- Facebook: Tap to upload the image to your Facebook account.
- Twitter: Tap to upload the image to your Twitter account.
- Open In...: Tap to use a third-party app to open the file.

The bottom menu bar includes these options:



Tap to go back to the main menu.

Tap to start a slideshow of your photos. Tap the screen again to bring up the menu.



Tap to update the list of files.



Tap to reorder the files alphabetically.



Pictures	Edt
Q Search Shareport Storage	
IMG_0054.JPG 2.51M8, 2009-01-09 15:47:58	÷ 0
1MG_0048.JPG 2.25M8, 2009-01-09 11:53:10	六 0
D IMG_0055.JPG 2.27/M8, 2009-01-09 15:48:08	÷ 0
10 10 10 10 10 10 10 10 10 10 10 10 10 1	÷ 0
IMG_0057.JPG 2.38M8, 209-01-09 15:48:40	÷ 0
1.23048, 2099-01-09 15:48:52	10
IMG_0059.JPG 2.1548, 2009-01-00 15:50.06	÷ 0
43348, 2009-01-09 15:53:26	÷ 0
IMG_0061.JPG 4.05M8, 209-01-09 15:54:16	1 0
IMG_0062.JPG 4.00M8.2099-01-09.15/54:32	숚 🧕
IMG_0063.JPG 4 92M8, 2009-01-09 15:55:12	A 0
	≜

Tap on a file to start the photo viewer. In the viewer:



Tap to add/remove the current image from your Favorites.

Tap to start the slideshow.

ightarrow Tap to bring up the same options as >.



Videos

The Videos section allows you to stream video clips and movies from your DSL-4320L to your mobile device. Tap the movie icon on the main menu to browse your videos on your removable storage.



Search Bar: Enter a filename here to search for a specific file.



Tap to mark files for deletion.

Tap the star icon next to a file to download it to your device and add it into your Favorites section.

- Tapping this icon gives you additional options:
 - Mail: Lets you e-mail the file.
 - iCloud: Lets you store the file on iCloud.
 - Open In...: Lets you use a third-party app to open the file.

The bottom menu bar includes these options:



Tap to go back to the main menu.



Tap to update the list of files.



↑↓ Tap to reorder the files alphabetically.

Videos		Edit
Q. Search Shareport Storage		
20130509_110404_IMG_0240.MOV s.02Mit, 2009-12-31 17:28:56	*	
DIR-865L Introduce Flash.mp4	/m	•
DIR-865L Introduce Video.mp4 12.83MB, 2912-07-17 21.30.00	<u>,</u>	
DIR-505 Introduce Flash.mp4 5.10M8, 2012-05-22 02:14:22	1	
DIR-505_Sales_Video.mp4 98.97MB.2012-08-22 02:59:24	1	
Dlink_SharePort Video_DUS.mp4 9.13M8, 2012-07-17 20:20:00	1	•
DIR-505_Setup_Video.mp4 125.39MB, 2012-08-21.07.52:14	1-	e
Movie1.mp4 22.67848, 2011-12-06 17:08:46	六	•
Movie2.mp4 7.81MB, 2011-12-06 17:19:16	1	•
Movie3.mp4 24.978B, 2011-12-06 17;14:18	合	•
Movie4.mp4 23.80MB, 2011-12-06 17:19:00	<u></u>	
MouleE med		

Section 3 - Getting Started

Tap on a file to start playing it. In the player:



Tap to play/pause the video. You can scroll to any time on the time line by holding and sliding your finger.



Tap to enter/exit fullscreen mode.

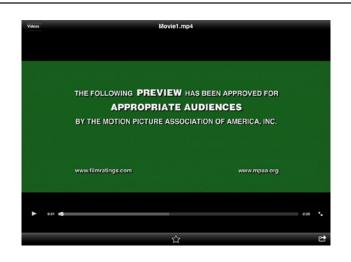


Tap to add/remove the file from your Favorites.



Tapping this icon gives you additional options: • **Mail**: Lets you e-mail the video.

- iCloud: Lets you store the video on iCloud.
- Open In...: Lets you use a third-party app to open the file.



Music

The Music section allows you to stream songs from your DSL-4320L to your mobile device. Tap the music icon on the main menu to browse your music collection on your removable storage.

Search Bar: Enter a filename here to search your storage.



Tap to create a playlist and mark files for deletion.

Tap the star icon next to each file to download it to your device and add it into your Favorites section.

- Tapping this icon gives you additional options:
 - Mail: Lets you e-mail the file.
 - iCloud: Lets you store the file on iCloud.
 - Open In...: Lets you use a third-party app to open the file.

The bottom menu bar includes these options:



Tap to go back to the main menu.



Tap to update the list of files.



Tap to reorder the files alphabetically.



Section 3 - Getting Started

Tap on a file to start playing it. In the player:



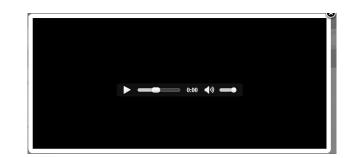
Tap to repeat all. Tap again to repeat a single song.



Tap to skip to the previous/next song.



Tap to enable/disable shuffle mode.



To create a playlist: •Tap Edit > Add Playlist.

•Enter a name for the playlist, then tap **Save.**

•The name of the playlist will appear in the browser next to the icon.





To add songs to a playlist:

•Tap the playlist in the browser.

•Tap Add Music... to add songs to the current playlist.

•Tick the songs you wish to add and tap **Done**.

To delete songs from the playlist:

•Tap **Edit** in the playlist browser and mark the files to be deleted.

•Tap **Delete**.



Folders

You can browse your removable storage in a folder view in the folders section. Tapping the filename will open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the removable storage attached to your router.

Search Bar: Enter a filename here to search your storage.



Tap to take you to the editing screen where you can add a folder and mark files for deletion or copying.



Tap the star icon next to each file to download it to your device and add it into your Favorites section.

Tapping the > icon gives you additional options depending on the file type.

The bottom menu bar includes these options:



Tap to go back to the main menu.



Tap to upload files from your device to your removable storage.



Tap to update the list of files.





Folde	rs usb_b1		Edit
Q 54	arch Shareport Storage		
	[Training Materials]		>
	test		>
	Global Marketing Digital Lib		>
0	Martina.jpg 117.47/08, 2009-12-31 2019:50	六	Ð
0	beyonce-the-destroyer.jpg 103.54K8, 2013-02-02.01.35.22	介	۲
	_dpl		>
	Programs		>
Ē	Global Marketing Team Contact List_2013.xlsx 12.6748, 2013-02-22 08:08:02	介	0
	testa		>
Ē	图镜保設建東黎明書1020301.pdf 2097 Fir8L 2015-03-06 05:32:10	介	۲
	友识图植保脸名同,pdf 229 02408, 2013-03-06 05:32:16	介	۲

Section 3 - Getting Started

To delete files:

- •Tap **Edit** at the top right.
- •Tick the circle next to a file to mark it for deletion.
- •Tap on **Delete** at the bottom to delete the file.

To copy files:

- •Tap on **Copy** to bring up a window where you can select the folder to copy to.
- •Browse to the directory you want to copy the marked files to and tap **Paste**.
- •You can also tap Add Folder to create a new folder.

To create a new folder:

- •Browse to the directory you wish to create a new folder in.
- •Tap **Edit** at the top right.
- •Tap Add Folder to add a new folder.
- •Enter the name of the new folder, then tap **Save**.
- •Tap **OK** to confirm folder creation.

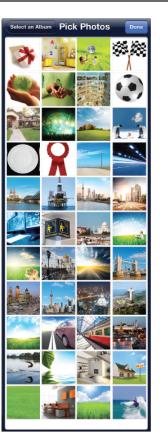
	usb_b1	¢,
Q. Search :	Shareport Storage	
0	[Training Materials]	
ି 💼	Global Marketing Digital Lib	
ି 🖥	DIR508LQ/Gv111US.pdf 1.7048, 2013 03-13 18 90-88	
0	Martina.jpg 117.47/83, 2010-01-01-04.99:50	
ಂ	20130419_143348_IMG_0101.PNG 265.15K8, 2010-01-01-04-38-12	
ಂ	beyonce-the-destroyer.jpg 103.54/8, 2013-02-22-09-33-22	
ି 🖥	DIR-506L_A2_Manual_v1.20(EU).pdf = 05MB, 2013-01-15 14:18-48	
ं 💼	_dpi	
ಂ	20130418_164200_IMG_0095.PNG 84.4256, 2019-01-01 31 05-26	
ି 💼	Programs	
ି 🗄	Global Marketing Team Contact List_2013.xlsx 12.87K8.2013-02-02 160802	
- 630	20130418_164200_IMG_0096_IPG	

1	usb_b1	Cancel
_		
	[Training Materials]	>
	Global Marketing Digital Lib	>
	_dpl	>
	Programs	>
	DSDC1300029	>
	DSDC1300026	>
	Email Templates	>
	DIR-508L	>
	test	>
	Add Folder Paste	



To upload images and videos from your mobile device:

- •Browse to the folder you wish to upload to.
- •Tap **Upload** at the bottom.
- •Select the photos/videos you wish to upload.
- •Tap **Done**.



During the upload process, the size of the file and the upload progress will be displayed.

To upload more files, tap the + icon at the top right and repeat the steps listed above.

		Upload	+
0	20130627_150400_IMG_0005.JPG Calculating, 0.0% uploaded		
0	20130627_150400_IMG_0006.JPG waiting to upload		
0.	20130627_150400_IMG_0007.JPG waiting to upload		
0	20130627_150400_IMG_0008.JPG waiting to upload		
0.	20130627_150400_IMG_0009.JPG waiting to upload		
0.	20130627_150400_IMG_0010.JPG waiting to upload		
0	20130627_150400_IMG_0012.JPG waiting to upload		
0	20130627_150400_IMG_0013.JPG waiting to upload		
0	20130627_150400_IMG_0014.JPG waiting to upload		
0	20130627_150400_IMG_0015.JPG waiting to upload		
0-	20130627_150400_IMG_0016.JPG waiting to upload		
0	20130627_150400_IMG_0017.JPG waiting to upload		

Favorites

The Favorites section allows you to quickly access your most often used files, no matter what file type, in a special section. Files added to the Favorites section will be copied here for playback in a centralized location.



- Tap to mark files for deletion from the local storage in Favorites. The file will still be accessible in other mydlink SharePort sections.
- Tapping this icon gives you additional options depending on the file type.

The bottom menu bar includes these options:



- Tap to go back to the main menu.
- - Tap to update the list of files.



Tap to reorder the files alphabetically.

Tap on a file to start the file viewer. In the viewer:



- Tap to add/remove the file from your Favorites.
- Tap to bring up additional options.

Note: The file options available will vary depending on the file type.



		Favorites	Edit
Dow	nloaded		
0.	20130509_115547_IMG_0242.JPG 317.52K8, 2009-12-31 18:20:32		۲
0.	dir636.JPG 1.46M8, 2009-12-31 18:37:22		۲
Ē	Network Storage - DAS, NAS, SAN.ppt 6.94M8, 2009-06-24 06:52:38		۲
¥₩ ►	20130509_110404_IMG_0240.MOV 5.02M8, 2019-12-31 17:28:56		۲
5	03.Pretty Boy.mp3 6.10M8, 2011-08 23 20:57:12		۲

Using the mydlink SharePort[™] app for Android[™]

The mydlink SharePort[™] app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage device connected to your router. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access your photos, videos, music, and documents. It allows you to create your own personal cloud storage. You can upload files and photos from your mobile device to the removable storage via the app from anywhere in the world!

- **Note:** In order to ensure smooth streaming performance, you will need a minimum of 2 Mbit/s upload bandwidth for your router's Internet connection. Streaming performance will vary depending on the quality of your Internet connection.
- **Note:** If you choose to skip the mydlink SharePort registration during the initial setup of your DSL-4320L, you may begin the registration process anytime by accessing the mydlink SharePort feature from within the router configuration menu. Refer to page 102 for details on how to begin the mydlink shareport registration process.
- 1. If you are connecting remotely through the mydlink SharePort[™] app from the Internet, you will need a **mydlink** account.
- 2. Make sure the device is powered on. Then plug your USB drive into a USB port on the device.
- **Note:** If you connect a removable storage device with several thousand files, it may take a while for the router to scan and catalog them.



Plug your removable storage device in either the USB 2.0 or 3.0 port.

D-Link DSL-4320L User Manual

Section 3 - Getting Started

3. Use your Android mobile device to search for and download the free **mydlink SharePort** app from Google Play[™].

If you have a QR code reader, you can scan the code for **mydlink** SharePort to the right.

- 4. Tap the mydlink SharePort icon, and the app will load.
- 5. Tap Set up to go to Settings and enter the Admin password and your mydlink Account Login information when the pop-up displays. Tap Apply when your information is entered. (The Admin password is only for local access, if you can connect through the Internet, then you can leave the Admin password blank)











7. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit green to indicate you are connected to the router through Remote Access.

- 8. If you have more than one device registered to your mydlink account, you can tap **Device List** (in the top-left corner) and you will be prompted to select the device you wish to use.
- **Note:** A red wireless icon indicates that your router's network environment may not be optimal for streaming media and you may experience slow downs or otherwise degraded performance.



mydlink SharePort	*
DIR-850L DIR-850L/44445528	0
Authentication failed	0

Using mydlink SharePort in a local network:

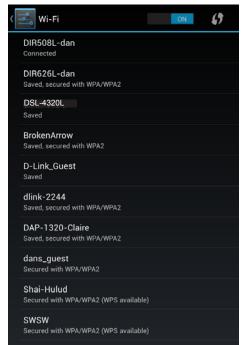
- 1. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.
- **Note:** If you connect a removable storage with many files or a large capacity, it may take a while for the router to scan and catalog your files.
- 2. Use your Android mobile device to search for and download the free **mydlink SharePort** app from Google Play[™].

If you have a QR code reader, you can scan the code for **mydlink SharePort** to the right.

3. On your mobile device, go to your Wi-Fi settings and connect to your router's wireless network using the default Wi-Fi settings. Locate the Wi-Fi name (SSID) and password for your device as printed on the included Wi-Fi Configuration Card.







d-link-07725 Secured with WPA/WPA2 (WPS available)

- 4. Tap the **mydlink SharePort** icon, and the app will load.
- 5. Tap **Set up** to enter the Admin password for your router when the pop-up displays.
- 6. Enter your Admin Login in the Password field and tap **Apply**. You will be taken back to the device list where you can select the device for use with mydlink SharePort.

7. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit blue to indicate a Local Access connection.

Note: A red wireless icon indicates that your router's network environment may not be optimal for streaming media and you may experience slow downs or otherwise degraded performance.









Main Menu

The mydlink SharePort main menu has different sections that let you see all the documents, photos, movies, or music stored on your removable storage. Tap < or >, or swipe left or right to move between the different sections. The Wi-Fi icon at the bottom indicates an active local network connection (blue) or remote connection (green/red). Tap **Log In** if it is not lit, or **Log Out** to return to the login page.



Tap on the document icon to view documents.



Tap the camera icon to view pictures.



Tap on the movie icon to play videos.



Tap on the music icon to play audio files.



Tap on the folder icon to browse all files in a folder view.



Tap on the star icon to access your favorite files.

Note: Available features may differ depending on the Android OS version of your device.



Documents

The Documents section allows you to share, print, and view documents streamed from your DSL-4320L to your mobile device. Tap the document icon on the main menu to browse the files on your mobile device.





Tap to return to the main menu.



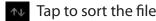
Tap to refresh, sort, or mark files for deletion.

Tap the star icon next to each file to download it to your device and add it into your Favorites section.

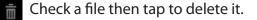
for additional options: Tap



- Tap to return to the main menu.
- Tap to update the list of files.



Tap to sort the files by name, size, type, or date.





Ê.	Documents	
بكر	UTM Firewall Management.pdf 728.69KB,15/01/2009 02:47:02PM	*
P	Second Generation D-Link Green Switches_2009-01-13.ppt 1.23MB.13/01/2009 05:29:00PM	*
P	Switch Market Share Y08Q1-3.ppt 1.00MB.15/01/2009 02:50:34PM	*
人	L2 Managed Switch CLI Reference Manual Sample (DES-3028_3052 Series).pdf 1.52MB.09/01/2009 02:50:00PM	*
人	L2 Managed Switch User Manual Sample (DES-3028_3052 Series).pdf 8.80MB,12/01/2009.06:50:56PM	*
人	L3 Managed Switch CLI Manual Sample (xStack DES-3800 Series).pdf 3.55MB.13/01/2009 10:12:28AM	*
人	L3 Managed Switch User Manual Sample (xStack DES-3800 Series).pdf 15.11MB,13/01/2009 10:13:28AM	*
人	Managed Switch Getting Started Guide Sample.pdf 2.38MB.13/03/2008 04:47:18PM	*
人	Unmanaged Switch QIG Sample.pdf 1.15MB.14/04/2008 04:35:34PM	*

Ê	Documents
	Q
لحر	DAP-2690_B1_Datasheet_03(H0).pdf
人	DCS-7010L_A1_Datasheet_03(HQ).pdf 687.74KB,12/11/2012 02:54:54PM
لحر	DGE-560SX_B1_Datasheet_01(HQ).pdf 581.26KB.19/11/2012 05:01:44PM
人	DIR-850L_A1_Datasheet 01(HQ).pdf 745.46K8.03/12/2012 02:20:48PM
人	DIR-865L A1 Datasheet_A1_02(HO).pdf 706.60KB.03/12/2012 11:53:32AM
٨	DSL-2750R_C1_Datasheet_01(WW).pdf 722.68KB,12/11/2012.05:34:58PM
人	DWL-6600AP_A1_Datasheet_02(HQ).pdf 929.05KB.26/11/2012 02:26:44PM
لحر	Media_Converters_Standalone_Datasheet_01(HQ).pdf
	C

Tap on a file to start the document viewer. In the viewer:

•Tap the screen to bring up zoom in/out buttons.

•Drag the screen up or down to scroll between pages.

•Tap : to perform File, Find, Zoom, Reading View, Go To Page, and Bookmarks actions.

Note: Available actions may differ depending on your Android OS.



Pictures

The Pictures section allows you to view images streamed from your DSL-4320L to your mobile device. Tap the camera icon on the main menu to browse your photo collection on your removable storage.



Search Bar: Type in the name of a file to search for it.



Tap to return to the main menu.



Tap to start a slideshow.

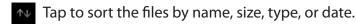


Tap to refresh, sort, or mark files for deletion.

Tap the star icon next to each file to download it to your device and add it into your Favorites section.

Tap **for additional options:**

- Tap to return to the main menu.
- C Tap to update the list of files.





A	Pictures	
		Q
image001.jpg 38.04KB,04/03/2013 06:02:44PM		*
20130422_180026_IMG_0190.JPG 47.92KB.01/01/2010.12:20:50AM		*
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:09:56AM		*
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 12:10:22AM		*
20130423_172941_IMG_0201.PNG 203.86KB,01/01/2010 11:39:10PM		*
20130422_180106_IMG_0199.PNG 40.31KB,01/01/2010 11:32:22PM		*
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 11:38:22PM		*
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 11:38:22PM		*
20130423_172941_IMG_0201.PNG 203.86KB,01/01/2010 11:40:56PM		*
\Leftrightarrow		

A	Pictures		
- Inc			
image001.jpg 38.04KB,04/03/2013 06:02:44PM			
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:20:50AM			
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 12:09:56AM			
20130422_180050_IMG_0009.JPG 1.28MB,01/01/2010 12:10:22AM			
20130423_172941_IMG_0201.PNG 203.86KB,01/01/2010 11:39:10PM			
20130422_180106_IMG_0199.PNG 40.31KB,01/01/2010 11:32:22PM			
20130422_180026_IMG_0190.JPG 47.92KB,01/01/2010 11:38:22PM			
20130422_180050_IMG_0009.JPG 1.28MB.01/01/2010 11:38:22PM			
C		$\downarrow \uparrow$	
\leftarrow			

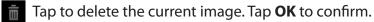
Section 3 - Getting Started

Tap on an image file to start the image viewer. In the viewer:



Tap the star icon to download it to your device and add it into your Favorites section.

Tap to start a slideshow. Tap the image to stop the slideshow.



- Tap to bring up additional options using other applications.
- Tap to access the image editor.

Note: This function may vary depending on the version of your Android OS.



Videos

The Videos section allows you to stream video clips and movies from your DSL-4320L to your mobile device. Tap the movie icon on the main menu to browse your videos on your removable storage.



Search Bar: Type in the name of a file to search for it.



Tap to return to the main menu.



Tap to refresh, sort, or mark files for deletion.

Tap the star icon next to a file to download it to your device and add it into your Favorites section.

Tap for additional options:

- Tap to return to the main menu.
- Tap to update the list of files.



Check a file then tap this icon to delete it.

f	Videos	Ξ
5#i ►	20130509_110404_IMG_0240.MOV 5.01MB.01/01/2010 01:28:56AM	
₩. ►	DIR-865L Introduce Flash.mp4 27.36MB.10/08/2012 05:00:00PM	
5₩ ►	DIR-865L Introduce Video.mp4 12.82MB.18/07/2012 05:30:00AM	
₩. ►	DIR-505 Introduce Flash.mp4 5.09MB;22/05/2012 10:14:22AM	
8#1 ►	DIR-505_Sales_Video.mp4 98.96M8.22/08/2012 10:59:24AM	k
577 ►	Dlink_SharePort Video_DUS.mp4 9.13MB,18/07/2012 04:20:00AM	
7## ▶	DIR-505_Setup_Video.mp4 125.38M8.21/08/2012 03.52.14PM	k
5#¥	Movie1.mp4 22.56M8.07/12/2011 01:08:46AM	
5## ►	Movie2.mp4 7.81MB.07/12/2011 01:10:16AM	

f	Videos	1
₩. ►	20130509_110404_IMG_0240.MOV 5.01MB.01/01/2010 01:28:56AM	
\ }	DIR-865L Introduce Flash.mp4 27.36M8.10/08/2012 05.00.00PM	
\$## ►	DIR-865L Introduce Video.mp4 12.82MB.18/07/2012 05:30:00AM	
₩. ►	DIR-505 Introduce Flash.mp4 5.09M8,22/05/2012 10:14:22AM	
₩1 ►	DIR-505_Sales_Video.mp4 98.96M8.22/08/2012 10:59:24AM	
8#1 ▶	Dlink_SharePort Video_DUS.mp4 9.13MB,18/07/2012 04:20:00AM	
₩1 ▶	DIR-505_Setup_Video.mp4 125.38MB.21/08/2012 03:52:14PM	
₩1 ►	Movie1.mp4 22.56M8.07/12/2011 01:08:46AM	
	C	

Tap on a file to start playing it. Tap on the screen to bring up the scroll bar, pause button, and play button.

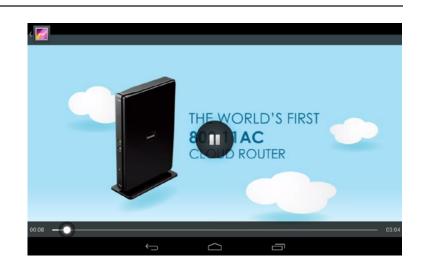


Tap to resume playback.



Tap to pause the video.

Note: Available features may vary depending on the Android OS version installed on your device.



Music

The Music section allows you to stream songs from your DSL-4320L to your mobile device. Tap the music icon on the main menu to browse your music collection on your removable storage.



Search Bar: Type in the name of a file to search for it.



Tap to return to the main menu.



Tap to refresh, sort, or mark files for deletion.

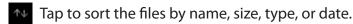


Tap to browse your playlists.

Tap the star icon next to a file to download it to your device and add it into your Favorites section.

Tap **for** additional options:

- Tap to return to the main menu.
- C Tap to update the list of files.



Check a file then tap this icon to delete it.

f	Music	
5	alert.wav 22.76KB,13/02/2013 12:44:54PM	*
5	login.wav 187.90KB,13/02/2013 12:44:54PM	*
5	logout.wav 152.23KB,13/02/2013 12:44:54PM	*
5	receive.wav 53.71KB,13/02/2013 12:44:54PM	*
5	send.wav 56.09KB,13/02/2013 12:44:54PM	*
5	01-lorena-maniac.mp3 5.31MB,21/11/2008 02:01:52AM	*
5	01.The Day You Went Away.mp3 4.84MB,24/08/2011 04:56:38AM	*
5	02-lorena-i_ve_had_the_time_of_my_life.mp3 5.62MB,21/11/2008 02:01:44AM	*
	02.Mirror Mirror.mp3 4.33MB.24/08/2011 04:56:56AM	*

1 A			Music			
alert.wav 22.76KB.13/02/201	3 12 44 54PM					
login.wav 187.90KB,13/02/20						
152.23KB,13/02/20	13 12:44:54PM					
53.71KB,13/02/201	3 12:44:54PM					
send.wav 56.09KB,13/02/201						
01-lorena-mani	ac.mp3					
•	Went Away.mp3					
	had_the_time_of_m	y_life.mp3				
	C				$\uparrow \downarrow$	
	¢		\Box	Ū		

Tap on a file to start playing it. In the player:



Tap on the up/down arrow to show/hide the player controls.



Tap to repeat all. Tap again to repeat a single song.



Tap to skip to the previous/next song.



Tap to play or pause the song.



Tap to enable/disable shuffle mode.

To create a playlist:



- •Tap Add new playlist...
- •Enter a name for the playlist, then tap **OK**. The name of the playlist will appear in the browser next to the icon.
- •You can tap 🚦 then C to refresh the playlist page.

A			Music		≡ :
					0
152.23KB,13	/ 02/2013 12:44:54PM				*
53.71KB,13/	V 02/2013 12:44:54PM				1
56.09KB,13/	02/2013 12:44:54PM				
	maniac.mp3 1/2008 02:01:52AM				1
	y You Went Away.r 8/2011 04:56:38AM	np3			1
	i_ve_had_the_time		\bigtriangledown		-
01.The D	ay You Went A	way.mp3			
00:02 / 0	ay You Went A 3:43				
			_		
🚽 🚽 sarana 🗖 🗖	1/2008 02:01:40AM	11		NNI	
03.Pretty 6.10MB,24/0	Boy.mp3 8/2011 04:57:12AM		••		
		Û,	\bigtriangleup		

A		Music		
🚊 Last added				
🖹 list1				
🖹 playlist2				
🖹 playlist3				
🖹 playlist4				
🖹 dans playlist				
E dribblePANetration				
🖹 test				
Ê tt				
Add new playlist				
	Û	\Box		

To add songs to a playlist:

- •Tap a playlist to see its contents.
- •Tap Add Music... to add songs to the current playlist.
- •Tick the songs you wish to add and tap 🔳 to save.

To delete songs from the	ne nlavlist

- •Tap **Edit** in the playlist browser and mark the files to be deleted.
- •Tap 💼 then tap **OK** to confirm.

A		Music	
01-lorena-maniac. 5.31MB,21/11/2008 02			
01.The Day You We 4.84MB,24/08/2011 04			
02-lorena-i_ve_had	d_the_time_of_my_life. :01:44AM	mp3	
02.Mirror Mirror.mj 4.33MB,24/08/2011 04			
03-lorena-i_say_a_ 3.91MB,21/11/2008 02			
03.Pretty Boy.mp3 6.10MB,24/08/2011 04			
04-lorena-i_don_t_ 5.37MB,21/11/2008 02	want_to_miss_a_thing :01:34AM	.mp3	
04.Don't Say You L 4.81MB,24/08/2011 04			
	Ĵ	\Box	

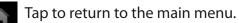
ń	Music	
1	alert.wav 22.77KB.2013-02-13.12.44.54	~
5	receive.wav 53.72KB,2013-02-13.12:44.54	\checkmark
-	01-lorena-maniac.mp3 5.31NB,2008-11-21 02.01:52AM	✓
	02-lorena-i_ve_had_the_time_of_my_life.mp3 5.62MB,2008-11-21 02-01:444M	
-	03.Pretty Boy.mp3 6.10MB,2011-08-24.04:57:12AM	
	04.Don't Say You Love Me.mp3 4.81NB,2011-08-24 04:57:30AM	
	05.What You Do About Me.mp3 4.01NB.2011-08-24.04:57:48AM	
Γ	07.Girl In Your Dreams.mp3 4 65NB 2011-08-24 04:58:20AM	
	â	

In the file browser:

Folders

You can browse your removable storage in a folder view in the folders section. Tapping the filename will open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the removable storage attached to your router.

Search Bar: Type in the name of a file to search for it.



Tap to access file options.

Tap to return to the main menu.

Tap to refresh, sort, create a new folder, or mark files for deletion and

Tap to upload files.

copying.

Folders

ń	usb_b1/
	[Training Materials]
	test
	Global Marketing Digital Lib
	_dpl
	Programs
	testing
	testa
	Email Templates
	DIR-508L

 \Box

Ū





Section 3 - Getting Started

- Tap **to** select files and perform the following actions: Tap to update the list of files.
 - Tap to sort the files by name, size, type, or date.
 - Tap to create a new folder.
 - Mark a file then tap this icon to delete it.
 - Mark a file then tap this icon to copy it.

<u>۴</u>		test/		
test2				
test				
testadd				
20130422_180026_IMG, 47.92KB,01/01/2010 12:09:56				
20130422_180050_IMG				
20130423_172941_IMG				
Screenshot_2013-07-03				
Screenshot_2013-07-04				
C		$\uparrow \downarrow$	63	
	Ĵ	\Box		

To delete files:	
------------------	--

Tap on **and tick the box next to a file for deletion**.

Tap on **t** to delete your selected files. Tap **OK** to confirm.

To copy files:

Tap on to select files for copying. Tick the box next to each file for copying.

Tap on **to browse to the destination**.

ff -		usb_b1/		★ E
O [•] 20130503_154642 343.35KB,01/01/2010	2_IMG_0226.JPG 01:23:48AM			
20130503_154642 376.10KB,01/01/2010	2_IMG_0227.JPG 01:23:52AM			
20130503_154642 315.81KB.01/01/2010	2_IMG_0228.JPG 01:23:54AM			
20130503_154643 367.67KB,01/01/2010	2_IMG_0229.JPG 01:23:56AM			✓
20130503_154642 405.08KB,01/01/2010	2_IMG_0230.JPG 01:24:00AM			
20130503_154642 390.82KB.01/01/2010	2_IMG_0231.JPG 01:24:02AM			✓
20130503_154642 434.72KB.01/01/2010	2_IMG_0232.JPG			
20130503_154642 381.39KB,01/01/2010	2_IMG_0233.JPG			
			[]`	
	Ĵ	\Box		

•Tap Paste or Cancel.

•You can also tap **New Folder** if you wish to create a folder in the current directory.

A		usb_b1/		
		Copy 1 to	_	
Training Materials]		Copy 1 to		
test				
Global Marketing Digital L	.ib			
_dpl				
Programs				
testing				
testa				
Email Templates				
New Folder		Paste		Cancel
	<u> </u>		_	
	()		<u> </u>	

To create a new folder:

•Browse to the directory you wish to create a new folder in.

•Tap 🚺 then 🖽.

•Enter the name of the folder in the box, then tap **OK**.



To upload images and videos from your mobile device:

- •Browse to the folder you wish to upload to.
- •Tap And browse to the file or files you wish to upload from the local device.
- •Tick the box next to each of the files you wish to upload.
- •Tap Upload.

ft .	Upl	oad			
Screenshot_2013-07-03-16-49-27.png 337.20KB,03/07/2013 04:49:29PM					
O* Screenshot_2013-07-04-14-14-52.png 177.73KB,04/07/2013 02:14:53PM					V
O ^{Screenshot_2013-07-03-17-26-44.png 138.17KB,03/07/2013 05:26:45PM}					V
C Screenshot_2013-07-03-17-26-50.png 138.44KB,03/07/2013 05:26:51PM					
O [•] Screenshot_2013-07-03-17-27-05.png 79.64KB,03/07/2013 05:27:06PM					
O [•] Screenshot_2013-07-03-17-27-09.png 79.42KB.03/07/2013 05:27:10PM					
Screenshot_2013-07-03-17-28-08.png 113.91KB.03/07/2013 05:28:09PM					
Caracteristics Screenshot_2013-07-03-17-38-24.png 34.05KB,03/07/2013 05:38:24PM					
Upload				Cancel	
<u> </u>		~	<u> </u>		

During the upload process, the size of the file and the upload progress will be displayed under the file name.

To remove a file from the upload queue, tap the X next to it.

â Upload	
Screenshot_2013-07-03-17-26-44.png	<u> </u>
Screenshot_2013-07-03-17-26-50.png 138.44KB, waiting to upload	×
Screenshot_2013-07-03-17-27-05.png 79.64KB, waiting to upload	×
Screenshot_2013-07-03-17-27-09.png 79.42KB, waiting to upload	×
Screenshot_2013-07-03-17-28-08.png 113.91KB, waiting to upload	×
Screenshot_2013-07-03-17-38-24.png 34.05KB, waiting to upload	×

4	_		

Section 3 - Getting Started

Favorites

The Favorites section allows you to quickly access your most often used files, no matter what file type, in a special section. Files added to the Favorites section will be copied here for playback in a centralized location.



Search Bar: Type in the name of a file to search for it.



Tap to return to the main menu.

Tap to refresh, sort, or mark files for deletion.

Tap **for additional options:**



Tap to return to the main menu.

- C Tap to update the list of files.
- Tap to sort the files by name, size, type, or date.
- Check a file then tap to delete it.

Ê	Favorites
₩ ►	
	IMG_0099.JPG 3.71M8,04/07/2013 02:36:15PM
	1315.jpg 350.70KB,05/07/2013 12:19:19PM
5.	20130628_144730_IMG_0002.JPG 171.10KB.04/07/2013 02:17:47PM
5	20130422_180106_IMG_0199.PNG 40.31KB,04/07/2013 02:17:49PM
5	20130422_180026_IMG_0190-1.JPG 47.92KB,04/07/2013 02:17:50PM
).	20130423_172941_IMG_0201-1.PNG 203.86KB.04/07/2013 02:17:56PM
P	Giftbox Editing.pptx 720.04KB,04/07/2013 02:39:34PM
۶.	L2 Managed Switch CLI Reference Manual Sample (DES-3028_3052 Series).pdf 1 52M8.04/07/2013 02:39:37PM

Ê		Favorites			:
¥##	Movie1-1.mp4 23.98MB,03/07/2013 05:49:32PM				
0	IMG_0099.JPG 3.71MB,04/07/2013 02:36:15PM				
0	1315.jpg 350.70KB,05/07/2013 12:19:19PM				
0	20130628_144730_IMG_0002.JPG 171.10KB,04/07/2013 02:17:47PM				
0					
0	20130422_180026_IMG_0190-1.JPG 47.92KB,04/07/2013 02:17:50PM				
0	20130423_172941_IMG_0201-1.PNG 203.86KB,04/07/2013 02:17:56PM				
P	Giftbox Editing.pptx 720.04KB,04/07/2013 02:39:34PM				
	C			${}^{ \uparrow \downarrow}$	
	¢	\Box	Ū		

Configuration

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

Windows and Mac users may also connect by typing the IP address of the router (by default this is **http://192.168.1.1**) in the address bar.

Enter your password. If you previously followed the setup wizard (see page 14), please use the admin password you entered during the wizard. Otherwise, leave the password blank. Click **Log In** to proceed.

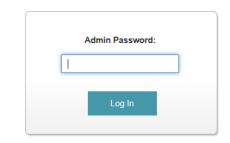
Note: If you cannot remember your password and cannot log in, press the reset button (see page 6) to restore the router to its default settings.

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

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

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





Interne	et Connected		
	m in the diagram for more information	1	Connected Clients: 2
0.000 0.000 0.000			\frown
			(🛯 🔲)
	Internet	DSL-4320L	
	\frown	\sim	
		100	
	\smile		USB Device
ternet			USB Device
	Connected	MAC Address:	DSL / IPv4 / IPv6
DSL Status:	Connected 56178/123453 Kbos	MAC Address: IP Address:	
DSL Status: Link Rate:	Connected 56178/123453 Kbps Dynamic IP (DHCP)		DSL / IPv4 / IPv6 00:90:4C:17.F0.1C
DSL Status: Link Rate: Connection Type:	55178/123453 Kbps	IP Address:	DSL / IPV4 / IPV6 00:90.4C:17.F0.1C 192.160.10.96
DSL Status: Link Rate: Connection Type: Network Status:	55178/123453 Kbps Dynamic IP (DHCP)	IP Address: Subnet Mask:	DSL / IPV4 / IPV6 00:00:4C:17:F0:1C 192:168:10:96 255:255:255:0 192:168:10:1
	55178/123453 Kbps Dynamic IP (DHCP) Connected	IP Address: Subnet Mask: Default Gateway:	DSL / IPV4 / IPV6 00:90:4C:17:F0:1C 192:168:10:36 255:255:255:0 192:168:10.1 168:95:1.1

Home

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

Internet

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

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

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

To reconfigure the Internet settings, refer to "Internet" on page 62.





DSL-4320L

Click on the **DSL-4320L** icon to view details about the router and its wireless settings.

Here you can see the router's current wireless settings, as well as its MAC address and IPv4/IPv6 addresses.

To reconfigure the network settings, either click **Go to settings** on the lower left, or click **Settings** (at the top of the page) and then **Network** on the menu that appears. Refer to page 98 for more information.

To reconfigure the wireless settings, either click **Go to settings**, on the lower right, or click **Settings** (at the top of the page) and then **Wireless** on the menu that appears. Refer to page 95 for more information.

Internet Connected Click on any item in the diagram for more informat	tion.
	DSL-4320L
DSL-4320L	USB Device
DSL-4320L	
IPv4 Network MAC Address: 00.90.4C:17.F0.18	₩I-FI Status: Enabled
Pv4 Network MAC Address: 00.90.4C:17.F0.18 Router IP Address: 192.168.1.1	WI-FI Status: Enabled Wi-Fi Name (SSID): DSL-4320L
Pv4 Network MAC Address: 00.90.4C:17.F0.18 Router IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0	WI-FI Status: Enabled Wi-Fi Name (SSID): DSL-4320L
	WI-FI Status: Enabled Wi-Fi Name (SSID): DSL-4320L
	WI-FI Status: Enabled Wi-Fi Name (SSID): DSL-4320L

Connected Clients

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

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

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

<complex-block><complex-block><complex-block></complex-block></complex-block></complex-block>	D-Link DSL-4320L HWA1 FWAU_1.00.11	Home Settings	Features Management
Click on any ifem in the diagram for more information. Internet USL-4320L USB Device USB Device USB Device USB Device Connected Clients Click on the "Pencil" icon to manage devices access or change nickname. You can block a device from accessing your network completely. Click on the "Pencil" icon to manage devices access or change nickname. You can block a device from accessing your network completely. Del 192.108.10 Del 192.108.10 Parental Controt: Disabled Parental Controt: Disabled	Internet Connect	ted	
Internet DSL-4320L USB Device USB Device USB Device USB Device Connected Clients USB Device Click on the "Pencil" icon to manage devices access or change nickname. You can block a device from accessing your network completely. Click on the "Pencil" icon to manage devices access or change nickname. You can block a device from accessing your network completely. Del 00009-PC 2.0Hz Del 192:100.10 192:100.1.102 Parental Contro: Disabled Parental Contro: Disabled	Click on any item in the diagram for me	ore information.	Connected Clients: 2
USB Device USB Device USB Device Connected Clients Click on the "Pencil" icon to manage devices access or change nickname. You can block a device from accessing your network completely. Tota device from accessing your network completely. Del 192:100.10 Del 192:100.10 Parental Contro: Disabled	Internet	DSL-4320L	(
Connected Clients Click on the "Pencil" icon to manage devices access or change nickname. You can block a device from accessing your network completely. O7804NBWIN7N Dea 192.108.1.0 Parental Controt: Disabled Dea Parental Controt: Disabled Control: Disabled Dea Parental Controt: Disabled			Ŭ
Connected Clients	\bigcirc		USB Device
You can block a device from accessing your network completely.	Connected Clients		
Dell 192.160.1.0 Parental Control: Disabled Parental Control: Disabled			
	_	2.4GHz	+
COPYRIGHT © 2015-2016 D-Link	Parental Control: Disabled	Parental Control: Disabled	
COPYRIGHT @ 2015-2016 D-Link			
		COPYRIGHT @ 2015-2016 D-Link	

Name: Enter a custom name for this client.

Vendor: Displays the vendor of the device.

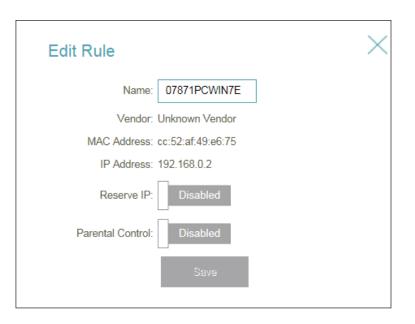
MAC Address: Displays the MAC address of the device.

IP Address: Enter a specific IP address for this client.

Reserve IP: Enable to reserve this IP address for this client.

Parental Allow or Block access to the router. Control:

Click **Save** when you are done.



USB Device

Click on the **USB Device** icon to view details about the currently connected USB device, DLNA media server, SharePort, and Windows File Sharing.

If you have a USB device connected, you can see its name and how much free space it has.

To configure your SharePort settings, click **Go to settings** and refer to page 100 for more information.

D-Link DSL-4320L HWA1 FWAU_100.11	Settings Features Management
Internet Disconnected Click on any item in the diagram for more information	Connected Clients: 1
USB Device	USB Device
VSB Port: Not Available No USB device detected	DLNA Media Server Status: Enabled Service Name: dinkrouter_DMS SharePort Status: Enabled Windows File Sharing Status: Enabled
Соругая	Go to settings ④

Settings Wizard

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

Internet

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options. Click **Advanced Settings...** to expand the list and see all of the options.

You will see the settings for your IPv4 connection.

To configure the advanced DSL settings, click the **DSL** link. Refer to **DSL on page 78**.

To configure the ATM settings, click the **ATM** link. Refer to **ATM on page 79**.

To configure the PTM settings, click the **PTM** link. Refer to **PTM on page 80**.

To configure an IPv6 connection, click the IPv6 link. Refer to IPv6 on page 81.

	ternet				
from meth	this section to configur Static IP, DHCP, PPP iod, please contact you ove or disable any PPP	oE, PPPoA, PPTP, I ur Internet Service Pr	2TP, and Bridge. If ovider. Note: If usin	you are unsure	of your connection
Settings >> Internet>> IPv4	DSL	ATM	PTM	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	v 0		
	PVC:	PVC-1 (8/35)	\sim		
					Advanced Setting:
	Enable Tagged Vlan:	Enabled			
	VLAN ID:	-1			
	VLAN Priority:	-1			
			_		
My	Internet Connection is:	Dynamic IP (DHCF) ~		
					Advanced Setting
	Host Name:	dlinkrouter			
	Primary DNS Server:				
5	econdary DNS Server:				
	MTU:	Auto	\sim		

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options. Click **Advanced Settings...** to expand the list and see all of the options.

WAN Access Select whether the device should act as an **xDSL Router** or a Type: Residential Gateway.

PVC: Use the default setting unless otherwise instructed by your ISP.

Ether WAN Port: If you selected **Residential Gateway**, sselect the Ethernet port that will connect to the WAN. Use this setting if you do not intend to use the built-in DSL modem.

Enable Tagged Enable or disable tagged VLAN. Vlan:

VLAN ID: Enter the VLAN ID.

VLAN Priority: Enter the VLAN Priority from the default 0 (lowest) to 7 (highest).

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

For Dynamic IP (DHCP) refer to Dynamic IP (DCHP) on page 69.

For Static IP refer to Static IP on page 70.

For **PPPoE** refer to **PPPoE on page 71.**

For **PPPoA** refer to **PPPoA on page 72.**

For **PPTP** refer to **PPTP on page 73.**

For L2TP refer to L2TP on page 75.

For Bridge refer to Bridge on page 77.

In	ternet				
from metho	his section to configur Static IP, DHCP, PPP od, please contact you ve or disable any PPP	oE, PPPoA, PPTP, I ur Internet Service P	L2TP, and Bridge. If rovider. Note: If usin	you are unsure of y	our connection
Settings >> Internet>> IPv4	DSL	ATM	<u>PTM</u>	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	v Ø		
	PVC:	PVC-1 (8/35)	\sim		
				A	dvanced Setting
	Enable Tagged Vlan:	Enabled			
	VLAN ID:	-1			
	VLAN Priority:	-1			
My	internet Connection is:	Dynamic IP (DHCF	P) ~		
				A	dvanced Setting
	Host Name:	dlinkrouter			
	Primary DNS Server:				
S	econdary DNS Server:				

IPv4

Dynamic IP (DCHP)

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

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

In	ternet				
from metho	his section to configur Static IP, DHCP, PPP od, please contact you ve or disable any PPP	oE, PPPoA, PPTP, I ur Internet Service P	2TP, and Bridge. If rovider. Note: If usin	you are unsure of	your connection
Settings >> Internet>> IPv4	DSL	ATM	PTM	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	v ()		
	PVC:	PVC-1 (8/35)	\sim		
					Advanced Settings
	Enable Tagged Vlan:	Enabled			
	VLAN ID:	-1			
	VLAN Priority:	-1			
Mv	Internet Connection is:	Dynamic IP (DHC)			
		ojnanie ir (orior			
					Advanced Settings
	Host Name:	dlinkrouter			
	Primary DNS Server:				
S	econdary DNS Server:				
8			~		

Static IP

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

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

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

Default Enter the default gateway address provided by your ISP. **Gateway:**

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

In	ternet				
from meth	this section to configure Static IP, DHCP, PPPr od, please contact you ve or disable any PPP	E, PPPoA, PPTP, I Internet Service P	2TP, and Bridge. If rovider. Note: If usin	you are unsure of	your connection
Settings >> Internet>> IPv4	DSL	ATM	<u>PTM</u>	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	~ Ø		
	PVC:	PVC-1 (8/35)	~		
My	Internet Connection is:	Static IP	~		
Му	Internet Connection is:	Static IP	~		
My	IP Address:	Static IP	~		
My		Static IP			
My	IP Address: Subnet Mask:	Static IP			
Му	IP Address: Subnet Mask: Default Gateway:	Static IP			Advanced Setting
	IP Address: Subnet Mask: Default Gateway:	Static IP			Advanced Setting
	IP Address: Subnet Mask: Default Gateway: Primary DNS Server:	Static IP			Advanced Setting

PPPoE

Select **PPPoE** if your Internet connection requires you to enter a PPPoE username and password. This information is provided by your Internet Service Provider (ISP).

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

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

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

IP Address: Enter the IP address provided by your ISP (Static IP only).

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

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

1	nternet				
Us fro	e this section to configur m Static IP, DHCP, PPP ethod, please contact you move or disable any PPF	oE, PPPoA, PPTP, I ur Internet Service P	2TP, and Bridge. If y rovider. Note: If using	you are unsure of yo	our connection
Settings >> Internet>> IPv4	DSL	ATM	PTM	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	~ Ø		
	PVC:	PVC-1 (8/35)	\sim		dvanced Setting
N	ly Internet Connection is:	PPPoE	~		
	Username:				
	Password:				
	Reconnect Mode:	Always on	~		
				A	dvanced Setting
		Dynamic IP	~		
	Address Mode:				
	Address Mode: Service Name:				
	Service Name:				

PPPoA

Choose **PPPoA** if your Internet connection requires you to enter a PPPoA username and password. This information is provided by your Internet Service Provider (ISP).

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

- **Reconnect** Select either **Always-on**, **On-Demand**, or **Manual**. **Mode:**
- Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic IP.

IP Address: Enter the IP address provided by your ISP (Static IP only).

- **Primary DNS** Enter the primary DNS server IP address assigned by your ISP. Server:
- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:

In	ternet				
from the method	his section to configure Static IP, DHCP, PPPo od, please contact you ve or disable any PPP	oE, PPPoA, PPTP, L r Internet Service Pr	2TP, and Bridge. If ovider. Note: If usin	you are unsure of	of your connection
Settings >> Internet>> IPv4	DSL	ATM	<u>PTM</u>	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	~ (0		
	PVC:	PVC-1 (8/35)	\sim		Advanced Settings.
					Autoriced Securitys.
My !	Internet Connection is:	PPP0A	~		
	Username:				
	Password:				
	Reconnect Mode:	Always on	\sim		
					Advanced Settings
	Primary DNS Server:				
8/	econdary DNS Server:				
	COP	YRIGHT © 2015-2016 D	Link		

PPTP

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

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

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

- **Reconnect** Select either **Always-on**, **On-Demand**, or **Manual**. **Mode:**
- Maximum Idle Enter a maximum idle time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Autoreconnect.
- Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

PPTP IP Enter the IP address provided by your ISP (Static IP only). Address:

- **PPTP Subnet** Enter the subnet mask provided by your ISP (Static IP only). Mask:
- PPTP Gateway Enter the gateway IP address provided by your ISP (Static IP only). IP Address:
- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:

In	ternet				
from met	this section to configur Static IP, DHCP, PPP iod, please contact you ove or disable any PPP	oE, PPPoA, PPTP, I ur Internet Service P	2TP, and Bridge. If y rovider. Note: If using	ou are unsure of y	your connection
Settings >> Internet>> IPv4	DSL	ATM	PTM	IPv6	Save
	WAN Access Type:	xDSL Router	v ()		
	PVC:	PVC-1 (8/35)	\sim		
					Advanced Setting
My	Internet Connection is:	РРТР	~		
Му	Internet Connection is:	РРТР	~		
My	Internet Connection is:	рртр	¥		
	Internet Connection is: PTP Server IP Address:	РРТР	¥		
	PTP Server IP Address:	РРТР	¥		
	PTP Server IP Address: Username:	РРТР	×		
	PTP Server IP Address:	рртр 	×		
	PTP Server IP Address: Username:		 <		
	PTP Server IP Address: Username: Password:		 <td>,</td><td>Advanced Setting</td>	,	Advanced Setting
	PTP Server IP Address: Username: Password:		× 	,	Advanced Setting
	PTP Server IP Address: Username: Password: Reconnect Mode:	Always on	 ▼ ▼ 		Advanced Setting
Pł	PTP Server IP Address: Username: Password: Reconnect Mode: Address Mode:	Always on	 ▼ ▼ 	,	Advanced Setting

- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

	nternet				
fm m	Ise this section to configur om Static IP, DHCP, PPP nethod, please contact you emove or disable any PPP	oE, PPPoA, PPTP, L ur Internet Service Pr	2TP, and Bridge. If y ovider. Note: If using	ou are unsure of yo	ur connection
Settings >> Internet>> IPv4	4 <u>DSL</u>	ATM	PTM	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	v ()		
	PVC:	PVC-1 (8/35)	\sim		
	My Internet Connection is:	РРТР	~		
	PPTP Server IP Address:				
	PPTP Server IP Address: Username:				
	Username:				
	Username: Password:		~	۵	tvanced Settion
	Username: Password:			Ac	dvanced Setting
	Username: Password:	Always on		Ac	lvanced Setting
	Username: Password: Reconnect Mode:	Always on Dynamic IP		Ac	dvanced Setting
	Username: Password: Reconnect Mode: Address Mode:	Always on Dynamic IP	✓	Ac	dvanced Setting

L2TP

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

- L2TP Server IP Enter the L2TP server IP address provided by your ISP. Address:
 - Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

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

- Maximum Idle Enter a maximum idle time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Autoreconnect.
- Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

L2TP IP Enter the IP address provided by your ISP (Static IP only). **Address:**

- L2TP Subnet Enter the subnet mask provided by your ISP (Static IP only). Mask:
- L2TP Gateway Enter the gateway IP address provided by your ISP (Static IP only). IP Address:
- Primary DNS Enter the primary DNS server IP address assigned by your ISP. Server:

In	ternet				
Use the from the method	his section to configur Static IP, DHCP, PPP od, please contact you ve or disable any PPP	oE, PPPoA, PPTP, I ir Internet Service P	2TP, and Bridge. If y rovider. Note: If using	ou are unsure of yo	ur connection
Settings >> Internet>> IPv4	DSL	ATM	PTM	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	v Ø		
	PVC:	PVC-1 (8/35)	\sim		vanced Setting
L2'	TP Server IP Address:				
L2'	TP Server IP Address: Username: Password:				
L2	Username:	Always on			
L2	Username: Password:	Always on	•	Ad	vanced Setting
L2	Username: Password:	Always on Dynamic IP	✓	Ad	vanced Setting
	Username: Password: Reconnect Mode:		✓	Ad	vanced Setting

- Secondary DNS Enter the secondary DNS server IP address assigned by your ISP. Server:
 - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.

In	ternet				
from meth	this section to configur Static IP, DHCP, PPP od, please contact you ve or disable any PPP	oE, PPPoA, PPTP, L Ir Internet Service Pr	2TP, and Bridge. If y ovider. Note: If using	ou are unsure of y	our connection
Settings >> Internet>> IPv4	DSL	ATM	<u>PTM</u>	<u>IPv6</u>	Save
	WAN Access Type:	xDSL Router	v ()		
	PVC:	PVC-1 (8/35)	\sim		
				A	dvanced Setting
My	Internet Connection is:	L2TP	×		
L2	TP Server IP Address:				
	Usemame:				
	Password:				
	Reconnect Mode:	Always on	\sim		
				A	dvanced Setting
	Address Mode:	Dynamic IP	\sim		
	Address Mode: Primary DNS Server:	Dynamic IP	~		
s	Primary DNS Server:	Dynamic IP			
S		Dynamic IP			

Bridge

Choose **Bridge** to configure the device as a network bridge.

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

Use th from S metho	is section to configur static IP, DHCP, PPP d, please contact you e or disable any PPP	e, PPPoA, PPTP, L Internet Service Pr	2TP, and Bridge. If ovider. Note: If usin	you are unsure of y	our connection
Settings >> Internet>> IPv4	DSL	ATM	PTM	<u>IPv6</u>	Save
My Ir	WAN Access Type: PVC:	xDSL Router PVC-1 (8/35) Bridge	 Ø ✓ 	٩	dvanced Settings.
	MTU:	Auto			dvanced Settings.

DSL

On this page you can configure your DSL settings. If you are unsure, you can obtain these settings from your ISP.

DSL Select whether to enable or disable each DSL modulation option. Modulation: Usually it is best to leave these at their defaults, unless otherwise instructed by your ISP.

	SL is section to configu	re your DSL Setting			
Settings >> Internet >> DSL	ATM	PTM	<u>IPv6</u>	IPv4	Save
DSL Modulation					
G.dmt	Enabled		G.lite: Enabl	ed	
T1.413	Enabled		ADSL2: Enabl	ed	
AnnexL	Enabled		ADSL2+: Enab	ed	
AnnexM	Enabled		VDSL2: Enab	ed	
					Advanced Settings
Bitswap	Enabled	AnnexL Upstr	ream PSD: M1 an	1 M2	~
SRA	Enabled				
8a	Enabled		12a: Enab	ed	
8b	Enabled		12b: Enab	ed	
80	Enabled		17a: Enabl	ed	
8d	Enabled				
US0	Enabled				

ATM

On this page you can configure your Asynchronous Transfer Mode (ATM) settings. If you are unsure, you can obtain these settings from your ISP.

nterface:	Select the	ATM interface	from the	drop-down	menu.
-----------	------------	---------------	----------	-----------	-------

VPI: Enter the Virtual Path Indicator (0 - 255).

VCI: Enter the Virtual Channel Indicator (32 - 65535).

Latency: Select the latency from the drop-down menu.

Encapsulation: Select the method of encapsulation provided by your ISP. You can select **LLC** or **VCMUX**.

ATM QoS: Select the Quality of Service type from the drop-down menu.

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hom	ie S	ettings	Features	Management
AT Use th	s section to configur	re your ATM Setting	L		
Settings >> Internet >> ATM	DSL	PTM	IPv6	IPv4	Save
	Interface:	PVC-1 (8/35)	~ Ø		
	VCI:	35			
	Latency:		~		
	Encapsulation:	LLC	~	A	dvanced Settings
	ATM QoS:	Realtime VBR	~		
	Peak Cell Rate:	0			
8	ustainable Cell Rate:	0			
,	Maximum Burst Size:	0			
	CO	PYRIGHT © 2015-2016	D-Link		

PTM

On this page you can configure your Packet Transfer Mode (ATM) settings. If you are unsure, you can obtain these settings from your ISP.

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

Latency: Select the latency from the drop-down menu.

PT Use this		re your PTM Setting.			
()					
Settings >> Internet >> PTM	DSL	ATM	<u>IPv6</u>	IPv4	Save
	Interface.	PTM-1	< Ø		
	Latency:	Path0	\sim		

IPv6

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

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

For Auto Detection refer to Auto Detection on page 82.

For Static IPv6 refer to Static IPv6 on page 83.

For Auto Configuration (SLAAC/DHCPv6) refer to Auto Configuration (SLAA	C /
DHCPv6) on page 85.	

For **PPPoE** refer to **PPPoE on page 87**.

For IPv6 in IPv4 Tunnel refer to IPv6 in IPv4 Tunnel on page 89.

For 6 to 4 refer to 6 to 4 on page 91.

For **6rd** refer to **6rd on page 92.**

For Local Connectivity Only refer to Local Connectivity Only on page 94.

IF	°v6				
All of	f your IPv6 Internet an	id network connectio	n details are displaye	d on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	IPv4	Save
Му	Internet Connection is:	Auto Detection	~		
IPv6 DNS SETTINGS			_		
IPv6 DNS SETTINGS	DNS Type	Obtain a DNS serv	ver address 🗸		
IPv6 DNS SETTINGS	3		ver address		
	LAN IPv6 Address	Not Available	ver address 🗸		
LAN IPv6 ADDRESS SETTINGS	3	Not Available	ver address 🗸		Advanced Setting:
LAN IPv6 ADDRESS SETTINGS	LAN IPv6 Address	Not Available	ver address V		Advanced Settings
LAN IPv6 ADDRESS SETTINGS LAN IP ADDRESS AUTOCONFIGURAT	LAN IPv6 Address	Not Available	ver address		Advanced Setting:
LAN IPv6 ADDRESS SETTINGS LAN IP ADDRESS AUTOCONFIGURAT Enable Automatic IPv	LAN IPv6 Address V6 Link-Local Address	Not Available Not Available Enabled	ver address V		Advanced Setting
LAN IPv6 ADDRESS SETTINGS LAN IP ADDRESS AUTOCONFIGURAT Enable Automatic IPv Enable Autom	LAN IPv6 Address V6 Link-Local Address ION SETTINGS 6 Address Assignment	Not Available Not Available	er address 🗸		Advanced Setting

Auto Detection

Auto Detection mode (not Auto-Configuration mode) automatically detects IPv6 the connection method used by your Internet Service Provider (ISP). If your ISP provides an IPv6 service and Auto Detection failed to detect it, the user must manually select another IPv6 connection type (such as PPPoE, Auto Configuration, 6rd, DS-Lite etc.)

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

Enable Automatic Enable or disable automatic DHCP-PD services. **DHCP-PD in LAN:**

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

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

	v6 rour IPv6 Internet an	d network connectio	n details are display	ed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	IPv4	Save
My Ir	iternet Connection is:	Auto Detection	~		
IPv6 DNS SETTINGS	DNS Type:	Obtain a DNS serv	ver address 🗸		
LAN IPv6 ADDRESS SETTINGS	LAN IPv6 Address: 5 Link-Local Address:			A	dvanced Settings
ADDRESS AUTOCONFIGURATIO	N SETTINGS				
Enable Automatic IPv6	Address Assignment:	Enabled			
Enable Automa	tic DHCP-PD in LAN:	Enabled			
Au	toconfiguration Type: Ivertisement Lifetime:	SLAAC+RDNSS	\checkmark		

Static IPv6

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

- Use Link-Local Enable or disable a link-local address. Address:
- IPv6 Address: If you disabled Use Link-Local Address, enter the address supplied by your ISP.
- Subnet Prefix If you disabled Use Link-Local Address, enter the subnet prefix Length: length supplied by your ISP.

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

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

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

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

Enable Check to enable the Automatic IPv6 Address Assignment feature. Automatic IPv6 Address Assignment:

IP	v6				
All of y	rour IPv6 Internet an	d network connection	details are display	ed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	<u>IPv4</u>	Save
My Ir	iternet Connection is:	Static IPv6	~		
Us	e Link-Local Address:	Enabled			
	Default Gateway:				
	Primary DNS Server:				
Se	condary DNS Server:				
LAN IPv6 ADDRESS SETTINGS					
	LAN IPv6 Address:			/64	
LAN IPv	6 Link-Local Address:	Not Available			Advanced Setting
ADDRESS AUTOCONFIGURATIO	N SETTINGS				
Enable Automatic IPv6	Address Assignment:	Enabled			
			_		
Au	toconfiguration Type:	SLAAC+Stateless D	HCP 🗸		

Section 4 - Configuration

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

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

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Horr	ne Se	ettings	Features	Management
IP	v6				
All of	your IPv6 Internet an	d network connectio	n details are display	ed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	<u>IPv4</u>	Save
My I	nternet Connection is:	Static IPv6	~		
Us	e Link-Local Address:	Enabled			
	Default Gateway:				
	Primary DNS Server.				
Se	condary DNS Server.				
LAN IPv6 ADDRESS SETTINGS					
	LAN IPv6 Address:			/64	
LAN IPv	6 Link-Local Address:	Not Available		A	dvanced Settings
ADDRESS AUTOCONFIGURATIO	ON SETTINGS				
Enable Automatic IPv6	Address Assignment	Enabled			
A	utoconfiguration Type:	SLAAC+Stateless	DHCP 🗸		
Router A	dvertisement Lifetime:	60 minutes			
	COF	PYRIGHT © 2015-2016 [-Link		

Auto Configuration (SLAAC/DHCPv6)

This is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to make some settings on your side before your router can connect to the IPv6 Internet.

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

- Primary DNS If you selected Use the following DNS address above, enter the Server: primary DNS server address.
- Secondary DNS If you selected Use the following DNS address above, enter the Server: secondary DNS server address.
 - Enable DHCP- Enable or disable prefix delegation services. PD:

LAN IPv6 If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the Address: router.

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

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

Enable Enable or disable automatic DHCP-PD services. Automatic DHCP-PD in LAN:

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hon	ne Se	ttings	Features	Management
	vour IPv6 Internet an	d network connection	n details are display	ed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	<u>PTM</u>	IPv4	Save
My I	nternet Connection is:	Auto Configuration	~		
IPv6 DNS SETTINGS	DNS Type:	Obtain a DNS serv	er address 🗸		
LAN IPv6 ADDRESS SETTINGS	Enable DHCP-PD: 6 Link-Local Address:			4	Advanced Settings.
ADDRESS AUTOCONFIGURATIO	ON SETTINGS				
Enable Automatic IPv6 Enable Automa	Address Assignment				
	stoconfiguration Type:		DHCP		
	COF	PYRIGHT © 2015-2016 D	-Link		

Section 4 - Configuration

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

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

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hom	ne Se	ttings	Features	Management
	V6 your IPv6 Internet an	d network connectior	ı details are displaye	d on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	IPv4	Save
My I	nternet Connection is:	Auto Configuration	×		
IPv6 DNS SETTINGS					
	DNS Type:	Obtain a DNS serve	er address 🗸 🗸		
LAN IPv6 ADDRESS SETTINGS					
	Enable DHCP-PD:	Enabled			
LAN IPv	6 Link-Local Address:	Not Available			
				A	dvanced Settings
ADDRESS AUTOCONFIGURATIO		Enabled			
	tic DHCP-PD in LAN:				
	utoconfiguration Type: dvertisement Lifetime:		рнор		
Router A	uverusement Litelime.	minutes			

PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet Service Provider (ISP).

- **PPPoE Session:** Choose **Share with IPv4** to re-use your IPv4 PPPoE username and password, or **Create a new session**.
 - Username: If you selected **Create a new session** above, enter the PPPoE username provided by your ISP here.
 - Password: If you selected **Create a new session** above, enter the PPPoE password provided by your ISP here.
- Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic IP.
 - IP Address: Enter the IP address provided by your ISP (Static IP only).
 - MTU: Maximum Transmission Unit you may need to change the MTU for optimal performance with your ISP.
 - **DNS Type:** Select either **Obtain DNS server address automatically** or **Use the following DNS address**.
 - Primary DNS If you selected Use the following DNS address above, enter the Server: primary DNS server address.
- Secondary DNS If you selected Use the following DNS address above, enter the Server: secondary DNS server address.
 - Enable DHCP- Enable or disable prefix delegation services. PD:

		d network connectio	n details are displayed	f on this page.	
Settings >> Internet >> IPv6	DSL	ATM	РТМ	<u>IPv4</u>	Save
My In	ernet Connection is:	PPP0E	~		
	PPPoE Session:	Share with IPv4	~		
	Address Mode:	Static IP	~		
	IP Address:				
	MTU:	1492 bytes			
IPv6 DNS SETTINGS	DNS Type:	Obtain a DNS sen	ver address		
LAN IPv6 ADDRESS SETTINGS					
	LAN IPv6 Address:			/64	
LAN IPv6	Link-Local Address:	Not Available		Ad	avanced Settings
ADDRESS AUTOCONFIGURATIO	N SETTINGS				
Enable Automatic IPv6 A	ddress Assignment:	Enabled			
Aut	oconfiguration Type:	SLAAC+Stateless	DHCP V		
Router Ad	vertisement Lifetime:	minutes			

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

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

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

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

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

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

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

IP	v6				
All of y	rour IPv6 Internet an	d network connectio	n details are displaye	d on this page.	
Settings >> Internet >> IPv6	<u>DSL</u>	ATM	PTM	IPv4	Save
My Ir	itemet Connection is:	PPPoE	~		
	PPPoE Session:	Share with IPv4	~		
	Address Mode:	Static IP	×		
	IP Address: MTU:				
IPv6 DNS SETTINGS	DNS Type:	Obtain a DNS serv	er address 🗸		
LAN IPv6 ADDRESS SETTINGS					
	LAN IPv6 Address:			/64	
LAN IPv	3 Link-Local Address:	Not Available		A	dvanced Setting
ADDRESS AUTOCONFIGURATIO	N SETTINGS				
Enable Automatic IPv6	Address Assignment:	Enabled			
Au	toconfiguration Type:	SLAAC+Stateless	DHCP 🗸		
	toconfiguration Type:		DHCP 🗸		

IPv6 in IPv4 Tunnel

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

- **Remote IPv4** Enter the IPv4 remote address you will use. Address:
- **Remote IPv6** Enter the IPv6 remote address you will use. Address:
 - Local IPv4 Enter the IPv4 local address you will use. Address:
 - Local IPv6 Enter the IPv6 local address you will use. Address:
- Subnet Prefix Enter the subnet prefix length supplied by your ISP. Length:
 - **DNS Type:** Select either **Obtain DNS server address automatically** or **Use the following DNS address**.
- Primary DNS If you selected Use the following DNS address above, enter the Server: primary DNS server address.
- Secondary DNS If you selected Use the following DNS address above, enter the Server: secondary DNS server address.
- Enable DHCP- Enable or disable prefix delegation services. PD:

AN IPv6	If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the
Address:	router.

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hom	e Se	ttings	Features	Management
-	v6 your IPv6 Internet and	d network connection	ı details are display	ed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	<u>IPv4</u>	Save
My I	nternet Connection is:	IPV6 in IPV4 tunne	×		
1	Remote IPv4 Address:				
F	Remote IPv6 Address:				
	Local IPv4 Address:	192.168.10.95			
	Local IPv6 Address:				
	Subnet Prefix Length:				
IPv6 DNS SETTINGS					
	DNS Type:	Use the following D	INS address 🗸		
	Primary DNS Server:				
Se	condary DNS Server:				
LAN IPv6 ADDRESS SETTINGS					
	Enable DHCP-PD:	Enabled			
LAN IPv	6 Link-Local Address:	Not Available			
					Advanced Settings
ADDRESS AUTOCONFIGURATIO	ON SETTINGS				
Enable Automatic IPv6	Address Assignment:	Enabled			
Enable Automa	tic DHCP-PD in LAN:	Enabled			
A	toconfiguration Type:	SLAAC+Stateless	онср 🗸		
Router A	dvertisement Lifetime:	60 minutes			
	COP	YRIGHT © 2015-2016 D	Link		

Section 4 - Configuration

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

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

Enable Enable or disable automatic DHCP-PD services. Automatic DHCP-PD in LAN:

Auto Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless Configuration DHCPv6.

Type:

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

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Home	e Se	tings	Features	Management
	v6 your IPv6 Internet and	I network connectior	details are display	ed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	<u>PTM</u>	<u>IPv4</u>	Save
My I	nternet Connection is:	IPV6 in IPV4 tunne	~		
5	Remote IPv6 Address: Remote IPv6 Address: Local IPv6 Address: Local IPv6 Address: Subnet Prefix Length:	192.168.10.95			
Pv6 DNS SETTINGS	DNS Type: Primary DNS Server: condary DNS Server:	Use the following D	NS address 🗸		
LAN IPv6 ADDRESS SETTINGS	Enable DHCP-PD: 6 Link-Local Address:			٩	Advanced Setting:
ADDRESS AUTOCONFIGURATIO		Enabled			
A	ttic DHCP-PD in LAN: utoconfiguration Type: dvertisement Lifetime:	Enabled SLAAC+Stateless (60 minutes	онср 🗸		

6 to 4

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

6 to 4 Address: Displays the 6 to 4 address.

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

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

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

Enable Automatic

IPv6 Address Check to enable the Automatic IPv6 Address Assignment feature. **Assignment:**

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

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

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hom	ne Se	ettings	Features	Management
IP	v6				
All of	your IPv6 Internet an	d network connectio	n details are displa	yed on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	IPv4	Save
My	Internet Connection is:	6to4	~		
	6to4 Address:	192.168.10.95			
	6to4 Relay:	192.88.99.1			
	Primary DNS Server:				
8	econdary DNS Server:				
LAN IPv6 ADDRESS SETTINGS					
	LAN IPv6 Address:	FFFF:FFFF:FFFF:	::1 /6	34	
LAN IP	/6 Link-Local Address:	Not Available			Advanced Settings
ADDRESS AUTOCONFIGURATI	ON SETTINGS				
Enable Automatic IPv6	Address Assignment:	Enabled			
A	utoconfiguration Type:	SLAAC+Stateless	DHCP 🗸		
Router A	dvertisement Lifetime:	minutes			
	008	YRIGHT © 2015-2016 D	HLink		

6rd

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

Assign IPv6 Enter the IPv6 prefix. Prefix:

Primary DNS Enter the primary DNS server address. Server:

Secondary DNS Enter the secondary DNS server address. Server:

Enable Hub and Enable if you want to minimize the number of routes to the **Spoke Mode:** destination by using a hub and spoke method of networking.

6rd Choose the 6rd DHCPv4 Option to automatically discover and Configuration: populate the data values, or Manual Configuration to enter the settings yourself.

6rd IPv6 Prefix: Enter the 6rd IPv6 prefix and mask length supplied by your ISP (manual configuration only).

6rd Border Enter the 6rd border relay IPv4 address settings supplied by your ISP **Relay IPv4** (manual configuration only). **Address:**

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

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

IP	v6				
All of	your IPv6 Internet and	d network connection	details are displaye	d on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	IPv4	Save
My I	nternet Connection is:	6rd	~		
	Assign IPv6 Prefix:				
	Primary DNS Server:				
S	condary DNS Server:				
6RD MANUAL CONFIGURATION	1				
Enable	lub and Spoke Mode:	Enabled			
	6rd Configuration:	Manual Configuratio	n 🗸		
	6rd IPv6 Prefix:		· [32	
	WAN IPv4 Address:	192.168.10.95	· [
6rd Borde	r Relay IPv4 Address:				
LAN IPv6 ADDRESS SETTINGS					
LAN IPv	LAN IPv6 Address: 6 Link-Local Address:				
				,	Advanced Setting
ADDRESS AUTOCONFIGURATIO	ON SETTINGS	_			
Enable Automatic IPv6	Address Assignment:	Enabled			
A	utoconfiguration Type:	SLAAC+Stateless D	нср 🗸		

Enable Automatic Check to enable the Automatic IPv6 Address Assignment feature. IPv6 Address Assignment:

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

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

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hom	e Se	ttings	Features	Management
IP	v6				
	your IPv6 Internet and	d network connectio	n details are display	red on this page.	
Settings >> Internet >> IPv6	DSL	ATM	PTM	IPv4	Save
My I	nternet Connection is:	6rd	~		
	Assign IPv6 Prefix:				
	Primary DNS Server:				
Se	econdary DNS Server:				
6RD MANUAL CONFIGURATION	I				
Enable I	Hub and Spoke Mode:	Enabled			
	6rd Configuration:	Manual Configurat	ion 🗸		
	6rd IPv6 Prefix:		1	32	
	WAN IPv4 Address:	192.168.10.95	1		
6rd Borde	r Relay IPv4 Address:				
LAN IPv6 ADDRESS SETTINGS					
LANUE	LAN IPv6 Address: 6 Link-Local Address:				
LANIP	o Link-Local Address.	NULAVAIIADIC		1	Advanced Settings
ADDRESS AUTOCONFIGURATIO	ON SETTINGS				
Enable Automatic IPv6	Address Assignment:	Enabled			
A	utoconfiguration Type:	SLAAC+Stateless	рнср 🗸		
Router A	dvertisement Lifetime:	minutes			
	COP	YRIGHT © 2015-2016 D	-Link		

Local Connectivity Only

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

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

Use Default Checking this box will automatically configure the ULA prefix for **ULA Prefix:** the default setting.

ULA Prefix: If you wish to choose your own ULA prefix, enter it here.

Current IPv6 This section will display the current settings for your IPv6 ULA. **ULA Settings:**

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Hom	ne Set	ttings F	eatures	Management
	V6 your IPv6 Internet and	d network connection	i details are displaye	d on this page.	
Settings >> Internet >> IPv6	<u>DSL</u>	ATM	PTM	IPv4	Save
My I	nternet Connection is:	Local Connectivity	Only 🗸		
				Ac	vanced Settings
IPv6 ULA SETTINGS		_			
	Enable ULA:	Enabled			
U	se Default ULA Prefix:	Enabled			
CURRENT IPv6 ULA SETTINGS					
	Current ULA Prefix:				
	LAN IPv6 ULA:	Not Available			

Wireless

In the Settings menu on the bar on the top of the page, click **Wireless** to see the wireless configuration options. To configure the router's guest zone, click the **Guest Zone** link. Refer to 97 for details. Click **Advanced Settings...** to expand the list and see all of the options. The following options apply to both the 2.4 GHz and the 5 GHz wireless frequency bands:

Smart Connect: Enable this option to have the DSL-4320L automatically manage the 2.4 Ghz and 5 Ghz wireless networks. Disable this option if you want to manually configure the 2.4 Ghz and 5 Ghz wireless networks.

Status: Enable or disable the wireless frequency band.

- Wi-Fi Name Create a name for your wireless network using up to 32 characters. (SSID):
- **Password:** Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the network.

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

- **802.11 Mode:** Select the desired wireless networking standards to use. The available options will depend on the wireless frequency band, as well as the currently selected security mode.
- Wi-Fi Channel: Select the desired channel. The default is Auto (recommended).

Transmission Select the desired wireless transmission power. Power:

Channel Width: Select Auto 20/40 if you are using both 802.11n and non-802.11n wireless devices, or select 20 MHz if you are not using any 802.11n wireless clients.

D-Link DSL-4320L HW:A1 FW:AU_1.	.00.11 Hom	e Settings	Features	Management
	Wireless			
		e the wireless settings for your D-Lini on will need to be updated on your wi		ake sure that any
Settings >> Wireless			Guest Zone	Save
Smart Connect	Smart Connect:	Disabled		
2.4GHz				
	Status:	Enabled		
	WI-FI Name (SSID):	DSL-4320L_2G		
	Password:	abcdefgh		Advanced Settings
	Security Mode:	WPA/WPA2-Personal		
	802.11 Mode:	Mixed 802.11b/g/n		
	Wi-Fi Channel:	Auto 🗸		
	Transmission Power:	High 🗸		
	Channel Width:	Auto 20/40 MHz V		
	HT20/40 Coexistence:	Enabled		
	Visibility Status:	Visible 🗸		
	Schedule:	Always Enable		

- Visibility Status: The default setting is Visible. Select Invisible if you do not want to broadcast the SSID of your wireless network.
 - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to Always Enable, or you can create your own schedules in the Schedules section. Refer to page 115 for more information.

Status:	Enabled	
Wi-Fi Name (SSID):	dlink-9000-5GHz-lo	
Password:	1234567890	
	·	Advanced Settings.
Security Mode:	WPA/WPA2-Personal	
Security Mode:	WPA/WPA2-Personal	
802.11 Mode:	Mixed 802.11a/n/ac 🗸	
Wi-Fi Channel:	Auto 🗸	
Transmission Power:	High 🗸	
Channel Width:	Auto 20/40/80 MHz	
Visibility Status:	Visible 🗸	
Schedule:	Always Enable	
Status: Wi-Fi Name (SSID):	Enabled dlink-9000-5GHz-hi	
Wi-Fi Name (SSID):	dlink-9000-5GHz-hi	
Password:	1234567890	
		Advanced Settings.
Security Mode:	WPA/WPA2-Personal V	
802.11 Mode:	Mixed 802.11a/n/ac 🗸	
Wi-Fi Channel:	149 🗸	
Transmission Power:	High 🗸	
Channel Width:	Auto 20/40/80 MHz 🗸	
	Visible 🗸	
Visibility Status:		
Visibility Status: <u>Schedule</u> :	Always Enable	

Guest Zone

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

In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link. Click **Advanced Settings...** to expand the list and see all of the options. The following options apply to both the 2.4 GHz and the 5 GHz wireless frequency bands:

Status: Enable or disable the guest zone for each wireless frequency band.

- Wi-Fi Name Enter a wireless network name (SSID) that is different from your main (SSID): wireless network.
- Password: Create a password to use for wireless security. Wireless clients will need to enter this password to successfully connect to the guest zone.
- Internet Access Enabling this option will confine connectivity to the Internet, Only: disallowing guests from accessing other local network devices.

	Guest Zone		
	This page lets you enable and configure a Wi-Fi Guest Zone. communicate or detect devices on your home network unless Home Network Access.		
Settings >> Wireless >>	> Guest Zone	<u>Wi-Fi</u>	Save
Smart Connect	_		
	Status: Enabled		
	WI-FI Name (SSID): D-Link DSL-4320L_GUEST		
	Password:		
Home Network Access			

Network

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

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

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

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

Management The default address to access the router's configuration is Link: http://dlinkrouter.local./ Here, you can replace dlinkrouter with a name of your choice.

Local Domain Enter the domain name (optional). Name:

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

Status: Enable or disable the DHCP server.

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

Note: If you statically (manually) assign IP addresses to your computers or devices, make sure the IP addresses are outside of this range or you may have an IP conflict.

	Network		
	the management link field,	e the network settings for your device. You can en and use the link to access web UI in a web browse nk if there are more than one D-Link devices within	r. We recommend you
Settings >> Network			Save
Network Settings			
	LAN IP Address:	192.168.1.1	
	Subnet Mask:	255.255.255.0	
	Management Link:	http:// dlinkrouter .local/	
	Local Domain Name:		
	Enable DNS Relay:	Enabled	
DHCP Server			Advanced Setting
	Status:	Enabled	
	DHCP IP Address Range:	192.168.1. 2 to 192.168.1. 254	
	DHCP Lease Time:	1440 minutes	
	Always Broadcast	Enabled (compatibility for some DHCP Clients)	
Advanced Settings			
	UPnP:	Enabled	
	IPv4 Multicast Streams:	Enabled	
		Enabled	

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

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

- **UPnP:** Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software and peripherals.
- IPv4 Multicast Enable to allow IPv4 multicast traffic to pass through the router from Stream: the Internet.
- IPv6 Multicast Enable to allow IPv6 multicast traffic to pass through the router from Stream: the Internet.

D-Link DSL-4320L HW:A1 FW:AU_1	1.00.11 Hom	ne Settings Features	Management
	Network		
	the management link field,	re the network settings for your device. You can enter a and use the link to access web UI in a web browser. We ink if there are more than one D-Link devices within the r	e recommend you
Settings >> Network			Save
Network Settings			
	LAN IP Address:	192.168.1.1	
	Subnet Mask:	255.255.255.0	
	Management Link:	http:// dlinkrouter .local/	
	Local Domain Name:		
	Enable DNS Relay:	Enabled	
			Advanced Setting
DHCP Server			
	Status:	Enabled	
	DHCP IP Address Range:	192.168.1. 2 to 192.168.1. 254	
	DHCP Lease Time:	1440 minutes	
	Always Broadcast:	Enabled (compatibility for some DHCP Clients)	
Advanced Settings			
	UPnP:	Enabled	
	IPv4 Multicast Streams:	Enabled	
	IPv6 Multicast Streams:	Enabled	
	n to manyart du carrer	Lindoled	

SharePort

This page will allow you to set up access to files on an external USB device plugged into the router. You can do this through the local network or from the Internet using either a web browser or an app on your smartphone or tablet. In the Settings menu on the bar on the top of the page, click **SharePort**.

- **Status:** Check to enable the media server functions, allowing connected clients access to media files over the network.
- UPnP Media Choose a name for your media server so that it can be found. Server:

Windows Choose either Allow all users to access (no password) or Require File Sharing router's admin password to specify whether the router's password (SAMBA): will be required for access.

- Web File Access: Enable remote access to files stored on a USB device plugged into the router through a web browser.
 - Direct Links: This area will display the HTTP and HTTPS links to connect to your SharePort drive through a web browser from a device on your network.
- FTP File Access: To allow file access via FTP, ensure that the Status is Enabled. Enable Remote FTP Access allows users to access files from outside the network via FTP. If this is enabled, enter the Remote FTP Port, Maximum Users, Login Timeout, and the Maximum Idle Time.

Click Save when you are done.

To manage user accounts for SharePort access, click **Create User** and refer to the next page for details.

D-Link Hor DSL-4320L HWAI FWAU_1.00.11	e Settings	Features Management
SharePort	t	
PCs, smartphones, tablets,		I photos stored on an attached USB drive to ces on your network. Web File Access allows b browser.
Settings >> SharePort		Create User Save
UPnP Media Server		
Status:	Enabled	
UPnP Media Server:	dlinkrouter_DMS	
Windows File Sharing (SAMBA)		
Status:	Enabled	
Windows File Sharing:	Require router's admin passwo	rd 🗸
Web File Access		
Status:	Enabled	
Enable Remote SharePort Web Access:	Disabled	
Direct Links:	http://shareport.local/	
	https://shareport.local/	
FTP File Access	_	
Status:	Enabled	
Enable Remote FTP Access:	Enabled	
Remote FTP Port:	2121	
Maximum Users:	15	
Login Timeout:	2	minutes
Maximum Idel Time:		minutes
FTP Direct Links:	Not Available	
COP	YRIGHT © 2015-2016 D-Link	

Create User

The Create User page allows you to manage your SharePort user accounts. The current list of user accounts will be displayed, along with their current permissions and access path. If they do not have an account set up, users will be restricted to guest access; only having access to the "Guest" folder on the media server. The router can store a maximum of ten accounts (including the "Admin" account).

If you wish to remove an account, click on its trash can icon in the Delete column. If you wish to edit an account, click on its pencil icon in the Edit column. If you wish to create a new account, click the **Create User** button. If you edit or create a user, the following options will appear:

:	SharePort			
P.I.I	Create User" allows you to manage an new device will appear in the list with a with a user account. Click here for help	link to it. You can then use this		
ttings >> SharePort >>	Create User	S	narePort	Save
User Name	Access Path	Permission	Edit	Delete
Admin	root	Read/Write		-

User Name: Enter the desired user name for the new account.

- **Password:** Enter the password which the user will need to enter when logging in.
- **Permission:** Select either **Read Only** or **Read/Write** to control whether the user can edit, add, or delete files on the device.
 - **Folder:** Choose the parent folder that the user will be able to access. Files and folders on a higher level will be unavailable. "root" means that the user can access all files on the device. To change the selected folder, click **Browse** and browse to the desired folder.

Click **OK** when you are done. The new user should be added to the list of user accounts. To save the new list, click **Save**. To return to the SharePort page, click **SharePort**.



mydlink

Enabling mydlink will allow you to access and manage the mydlink-compatible devices on your network. This can be done either through a web browser or via a smartphone app.

This page allows you to sign in to an existing mydlink account, or sign up for a new mydlink account. In the Settings menu on the bar on the top of the page, click **mydlink**.

If you do not already have a mydlink account, click **No, I want to create a new mydlink account**. Fill out your email address (which will also function as your username), choose a password, and enter your first and last name. Then, click **Sign Up** to create your new mydlink account.

If you already have a mydlink account, click **Yes, I have a mydlink account**. Enter your email address (which is also your username) and your password. Then, click **Sign In** to register your existing mydlink account with your router.

D-Link	Home	Settings	Advanced	Management
	mydlink			
mydlink	Creating a mydlink account a manage your network on you allows you to plug in a USB d Android apps as well as the v	r smartphone or tablet, as w rive and access the stored fi	ell as through the secure les from anywhere in the	web portal. It also
Settings >> mydlink				Sign Up
mydlink Registration				
Do you hav	e an existing mydlink account?	Yes, I have a mydlink ac	count.	
	(No, I want to create a ne	w mydlink account.	
E	mail Address (Account Name):			
	Password:			
	First Name:		1	
	Last Name:		า้	
	2	I accept the mydlink terms	and conditions,	
	COP	YRIGHT @ 2013 D-Link		

	Home Settings Advanced Management
	mydlink
mydlink	Creating a mydlink account and registering your router with mydlink will allow you to remotely monitor an manage your network on your smartphone or tablet, as well as through the secure web portal. It also allows you to plug in a USB drive and access the stored files from anywhere in the world through iOS and Android apps as well as the web browser on your computer. <u>Click here for help</u> .
Settings >> mydlink	Sign In
mydlink Registration	
Do you hav	e an existing mydlink account? 💿 Yes, I have a mydlink account.
	No, I want to create a new mydlink account.
E	mail Address (Account Name):
	Password:

Features QoS Engine

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

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

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

A maximum of one device can be assigned Highest priority.

A maximum of two devices can be assigned High priority.

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

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

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

D-Link DSL-4320L HW:A1 FV	V.AU_1.00.11 Hon	ne Sett	ngs Feature	s Management
<u>1000</u>	QoS Eng		ss priority. Click and drag o	client cards into open slots.
Advanced >> QoS	Engine			Save
	Uplink Speed(kbps). Downlink Speed(kbps).			
		a cards above to the priority	boxes below.	
	co	PYRIGHT © 2015-2016 D-	ink	
	Highest 07896PCWin7E UNKNOWN VENDOR 192.168.0.135	Drag	High	to the priority box

Firewall Settings

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

Enable DMZ: Enable or disable Demilitarized Zone (DMZ). This completely exposes the client to threats over the Internet, and is not recommended in ordinary situations.

DMZ IP If you enabled DMZ, enter the IP address of the client you wish to **Address:** expose, or use the drop-down menu to quickly select it.

Enable SPI IPv4: Enabling Stateful Packet Inspection (SPI) helps to prevent cyber attacks by validating that the traffic passing through the session conforms to the protocol.

Enable Enable this feature to protect your network from certain kinds of **Anti-Spoof** "spoofing" attacks. **Checking:**

- IPv6 Simple Enable or disable IPv6 simple security. Security:
- IPv6 Ingress Enable or disable IPv6 ingress filtering. Filtering:
 - **PPTP:** Allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.

	E			
	Firewall Setti	ngs		
H-H-H	Your router's high-performance firer network and connected devices from			protecting your
Advanced >> Firewall Set	tings >> Advanced	IPv4 Rules	IPv6 Rules	Save
	Enable DMZ: Enab	led		
	DMZ IP Address:		<< Computer Name	~
	Enable SPI IPv4: Enab	led		
	Enable Anti-spoof Checking: Enab	led		
	IPv6 Simple Security: Enab	led		
	IPv6 Ingress Filtering: Enab	led		
				Advanced Setting
Application Level Gateway	(ALG) Configuration	_		
	PPTP: Enab	led		
	IPSec (VPN): Enab	led		
	RTSP: Enab	led		
	SIP: Enab	led		

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

Click **Save** when you are done.

D-Link DSL-4320L HW:A1 FW:AU_1.00.11	Home	Settings		Features	Management
Firewa	ll Settir	ngs			
Your router's high-		all feature contin		nitors Internet traffic,	protecting your
Advanced >> Firewall Settings >> Advanced	ced	<u>IPv</u>	Rules	IPv6 Rules	Save
Enal	ble DMZ: Enable	d			
DMZ IP	Address:			<< Computer Name	~
Enable 5	SPI IPv4: Enable	d			
Enable Anti-spoof C	hecking: Enable	d			
IPv6 Simple	Security: Enable	d			
IPv6 Ingress	Filtering: Enable	d			
					Advanced Setting
Application Level Gateway (ALG) Configur	ation	_			
	PPTP: Enable	d			
IPSe	(VPN): Enable	d			
	RTSP: Enable	d			
	SIP: Enable	d			

IPv4/IPv6 Rules

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

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

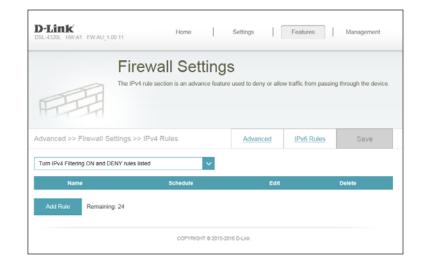
If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options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

Name: Enter a name for the rule.

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

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

- **Port Range:** Select the protocol of the traffic to allow or deny (**Any**, **TCP**, or **UDP**) and then enter the range of ports that the rule will apply to.
 - Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to page 115 for more information.





Port Forwarding

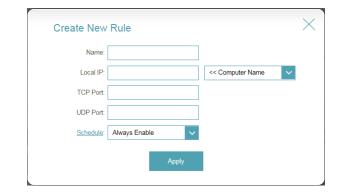
Port forwarding allows you to specify a port or range of ports to open for specific devices on the network. This might be necessary for certain applications to connect through the router. In the Features menu on the bar on the top of the page, click **Port Forwarding**.

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

		Port F	orwardi	ng			
1	A				ur ISP among several o ication to be directed to		
		Port forwarding inside.	allows traffic requests	rom a specified appl	ication to be directed to	o a specin	ed client
E	//						
/anced >	> Port Forw	arding			Virtual Server		Save
Status	Name	Local IP	TCP Port	UDP Port	Schedule	Edit	Delete

Name: Enter a name for the rule.

- Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- **TCP Port:** Enter the TCP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- **UDP Port:** Enter the UDP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).
- Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to 115 for more information.



Virtual Server

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

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

•0		Your r clients	s in your home. V	e a single IP address a: firtual servers are prese c to a specified client in:	t port mappings for p			
dvanced >	> Virtual	I Server			E	ort Forwarding	Sa	ave
Status	Name	Local IP	Protocol	External Port	Internal Port	Schedule	Edit	Delete

Name: Enter a name for the rule.

- Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.
- Protocol: Select the protocol of the traffic to allow or deny (TCP, UDP, Both, or Other).

Protocol If you entered **Other** above, enter the protocol number. **Number:**

External Port: Enter the public port you want to open.

Internal Port: Enter the private port you want to open.

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the Schedules section. Refer to page 115 for more information.



Website Filter

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

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

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

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

Click **Save** when you are done.

D-Link DSL-4320L HW:A1 FW:AU_	1.00.11 Home Settings Features	Management
	Website Filter	
	The website filters feature allows rules to be set that restrict access to a specified we blocks specified keywords in the URL. You can use Website Filter to restrict access t and inappropriate websites.	
Advanced >> Website	Filter	Save
DENY clients access to ON	LY these sites	
	Website URL/Domain	Delete
Add Rule Remain	ing: 24	
	COPYRIGHT © 2015-2016 D-Link	

Static Routes

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

In the Features menu on the bar on the top of the page, click **Static Routes**. To configure IPv6 rules, click **IPv6** and refer to page 111 for more information. To return to the main IPv4 static routes page, click **IPv4**.

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

	Sta	atic Rou	ites					
		connected to the Inte be sent. Static route						
- TE	location							
	~							
vanced >> Sta	tic Routes >> I	Pv4				IPv6	S	ave
Status Name	Destin	ation Network	Mask	Gateway	Metric	Interface	Edit	Delet
atatus name								
	Remaining: 24							

Name: Enter a name for the rule.

Destination IP: Enter the IP address of packets that will take this route.

Netmask: Enter the netmask of the route.

Gateway: Enter your next hop gateway to be taken if this route is used.

- **Metric:** The route metric is a value from 1 to 16 that indicates the cost of using this route. A value 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.

Create New Route	×
Name:	
Destination Network:	
Mask:	
Gateway:	
Metric:	
Interface:	WAN
	Apply

IPv6

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

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

	Static	Routes					
	should be sent. 8 location.	to the Internet, your Static routes can ove			fic to be directed	i to a spec	ific client o
vanced >> Stati	c Routes >> IPv6				IPv4	S	ave
Status Name	DestNetwork	PrefixLen	Gateway	Metric	Interface	Edit	Delete

Name: Enter a name for the rule.

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

Create New Route	×
Name:	
DestNetwork:	
PrefixLen:	
Gateway:	
Metric:	
Interface:	WAN
	Apply

Dynamic DNS

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

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

Enable Enabling dynamic DNS will reveal further configuration options. **Dynamic DNS:**

Status: Displays the current dynamic DNS connection status.

- Server Address: Enter the address of your dynamic DNS server, or select one from the drop-down menu.
 - Host Name: Enter the host name that you registered with your dynamic DNS service provider.

User Name: Enter your dynamic DNS username.

Password: Enter your dynamic DNS password.

Time Out: Enter a timeout time (in hours).

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to 113 for more information.

Dhttp://Betty.dlink.com/	as [YourDomainName].com	DNS rvice allows your router to asso with the regularly changing IP pful when running a virtual serv	address assigned by your	
Advanced >> Dynamic [DNS			Save
	Enable Dynamic DNS:	Enabled		
	Server Address:	dlinkddns.com	dlinkddns.com	\sim
	Host Name:			
	User Name:			
	Password:			
	Time Out:	24	hours	
Status	Host Name	IPv6 Address	Edit	Delete

Click **Save** when you are done.

IPv6 Host

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

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

Status	Host Name	IPv6 Address	Edit	Delete
Add Record	Remaining: 10			
	c	OPYRIGHT © 2013 D-Link		

Create New Record				\times
Host Name:				
IPv6 Address:		<< Computer Name	~	
	Apply			

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

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

Management Time & Schedule Time

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

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

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

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

Daylight Enable or disable daylight saving time. **Saving:**

Update Time Enable or disable to allow an NTP server on the Internet to Using an NTP synchronize the time and date with your router. If you enable this Server: option, select an NTP server from the drop-down menu. To configure the router's time and date manually, disable this option and use the drop-down menus that appear to input the time and date.

Click **Save** when you are done.

To configure and manage your schedules, click **Schedule** and refer to page 115 for more information.

	īme				
	our router's internal clock nchronized with a public				ite and time can
lanagement >> System Ti	ne			Schedule	Save
me Configuration					
	Time Zone:	(GMT+08:00) Taipei			\sim
		2015/09/01 05:17:10 PM	1		
	Enable Daylight Saving:	Disabled			
utomatic Time Configuratio	n				
Update Ti	me Using an NTP Server:	Enabled			
	NTP Server:	D-Link NTP Server		D-Link NTP Server	\sim
	COP	YRIGHT © 2015-2016 D-Lin	ik		

Schedule

Some configuration rules can be set according to a pre-configured schedule. To create, edit, or delete schedules, from the Time page click **Schedule**. To return to the Time page, click **Time**.

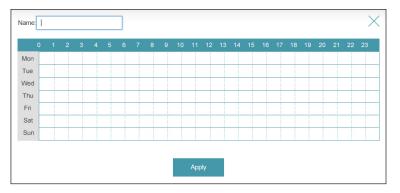
If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, click on its pencil icon in the Edit column. If you wish to create a new rule, click the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following screen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

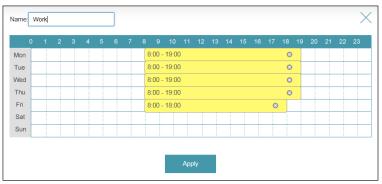
First, enter the name of your schedule in the Name field.

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

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

DSL-4320L HW:A1 FW:/	AU_1.00.11 Home Setting	s Features	Management
	Schedule		
	Some features, such as the firewall and website filter common use of schedules is to control access to the periods.		
Management >> Sch	nedule	Time	Save
Name	Schedule	Edit	Delete
test	Mon : 5:00 - 17:00 Tue : 5:00 - 17:00 Wed : 5:00 - 17:00 Thu : 5:00 - 17:00 Fri : 5:00 - 17:00	1	
Add Rule Rem	haining: 9		





System Log

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

Enable Logging Check this box to send the router logs to a SysLog Server. If this is to Syslog disabled, there will be no other options on this page. Server:

Syslog Server IP Enter the IP address for the Syslog server. If the Syslog server is Address: connected to the router, select it from the drop-down menu to automatically populate the field.

Enable Email If you want the logs to be automatically sent to an email address, **Notification:** enable this option.

Enter the settings for your email account. These are obtained from your email service provider.

- **On Log Full:** If email notification is enabled, this option will set the router to send the log by email when the log is fully.
- **On Schedule:** This option can be enabled to send an email according to a preconfigured schedule. See below.
 - Schedule: If you enable **On Schedule** is enabled, use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section. Refer to page 115 for more information.

Click **Save** when you are done.

D-Link Hor DSL-4520L HWRAT FWAU_1.00.11	ne Settings Features Management
	or unually in the background to monitor the health of your router. The results a log if it is enabled. This info can be used to diagnose common problems or
Management >> System Log	Save
SysLog Settings	
Enable Logging to Syslog Server	Enabled
SysLog Server IP Address	< Computer Name V
E-mail Settings	
Enable E-mail Notification	Enabled
From E-mail Address	
To E-mail Address	
SMTP Server Address	
SMTP Server Port	25
Enable Authentication	Enabled
Account Name	
Password	:
E-mail Log When Full or On Schedule	
Send When Log Full	Enabled
Send on Schedule	Enabled
Schedule	Always Enable
	PYRIGHT © 2015-2016 D-Link

Admin

This page will allow you to change the administrator (Admin) password and enable remote management.

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

Password: Enter a new password for the administrator account. You will need to enter this password whenever you configure the router using a web browser.

Enable Enables a challenge-response test to require users to type letters or
 Graphical numbers from a distorted image displayed on the screen to prevent
 Authentication online hackers and unauthorized users from gaining access to your
 (CAPTCHA): router's network settings.

- Enable HTTPS Check to enable HTTPS to connect to the router securely. This means Server: to connect to the router, you must enter https://dlinkrouter.local./ instead of http://dlinkrouter.local./
- **Enable Remote** Remote management allows the DIR-860L to be configured from the **Management:** Internet by a web browser. A password is still required to access the web management interface.

Remote Admin The port number used to access the DIR-860L is used in the URL.
 Port: Example: http://x.x.x.8080 where x.x.x.x is the Internet IP address of the DIR-860L and 8080 is the port used for the web management interface.

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

D-Link Hon DSL-4320L HW.A1 FW.AU_1.00.11	ne Setti	ings	Features	Management
Admin The admin account can ch account a strong password		s. To keep yo	ur router secure, y	you should give the adn
Management >> Admin			System	Save
Admin Password				
Password.				
Enable Graphical Authentication (CAPTCHA):	Enabled			
				Advanced Setting
Administration				
Enable HTTPS Server.	Enabled			
Enable Remote Management:	Enabled			
Remote Admin Port.	8081		Use HTTPS:	Enabled
\$\$H				
Enable Local Management	Enabled			
Enable Remote Management:	Enabled			
Remote SSH Port.	2222			
Telnet				
Enable Local Management	Enabled			
Enable Remote Management	Enabled			
Remote Telnet Port	2323			
TFTP				
Enable Local Management	Enabled			
Enable Remote Management	Enabled			
Remote TFTP Port:	6969			

SSH / Telnet / If you want to allow router setup via the SSH, telnet, or TFTP protocols, TFTP: you can configure it here.

For each protocol, click **Enable Local Management** to allow administrators to configure the network from within, and/or **Enable Remote Management** to allow administrators to configure the network from outside.

If you enabled remote management, enter the remote port number that the router will use for that protocol.

Click **Save** when you are done.

D-Link Home	e Settings	Features	Management
Admin The admin account can cha account a strong password.	nge all router settings. To kee	p your router secure, yo	u should give the adn
Vanagement >> Admin		<u>System</u>	Save
Admin Password			
Password:	•••••]	
Enable Graphical Authentication (CAPTCHA):	Enabled		
			Advanced Setting
Administration			
Enable HTTPS Server:	Enabled		
Enable Remote Management:	Enabled		
Remote Admin Port:	8081	Use HTTPS: Er	nabled
SSH			
Enable Local Management:	Enabled		
Enable Remote Management:	Enabled		
Remote SSH Port:	2222]	
Telnet			
Enable Local Management:	Enabled		
Enable Remote Management:	Enabled		
Remote Teinet Port:	2323	1	
KEIKKE TERELFUL	2.72.7		
TFTP	_		
Enable Local Management:	Enabled		
Enable Remote Management:	Enabled		
Remote TFTP Port:	6969]	
		-	

To load, save, or reset settings, or reboot the router, click Save.

System

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

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

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

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

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

Auto Reboot You may configure the router to automatically reboot at a set time. Configuration Please note, the router will be temporarily unavailable while rebooting.

Reboot The Click to reboot the router immediately. **Device:**

Auto Reboot: You may select Never, Daily, or Weekly.

Day of the Choose the day of the week to automatically reboot the router. week:

Time: Choose the time of day to automatically reboot the router.

Click **Save** when you are done.

System	1						
This page lets you s your router to factor factory defaults will	y default se	ettings, or rebo	ot the device	Please	note that res		
Management >> System					Admin		Save
System	_						
Save Settings To Local Hard	d Drive:	Save					
Load Settings From Local Hard	d Drive:	Select F	ïle				
Restore To Factory Default S	ettings:	Restor	e				
Auto Reboot Configuration	_						
Reboot The I	Device:	Reboo	ŧ				
Auto F	Reboot: W	eekly	\sim				
	Date: M	on	\sim			_	
	Time: 00)	\sim	00		V (Hou	ir/ Minute)

Upgrade

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

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

Firmware The current firmware's version and date will be displayed. **Information:**

Check for New Click this button to prompt the router to automatically check for a new Firmware: firmware version. If a newer version is found, it will prompt you to install it.

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

D-Link DSL-4320L HWA1 FWAU_1.00.11	Home	I	Settings	I	Features	I	Management
Your ro	uter can automatically de ssible to check for new firr						n to install them. It is
Management >> Upgrade							
Firmware Information							
Current Firmware Ver Current Firmware (sion: AU_1.00.11, Fri 07 A 2015 Date: 2015-08-07 14:35:00	ng					
				Cheo	k for New Firm	ware	
Upgrade Manually	Upgrade Firmware: S	elect Fil	e				
	COPYRIGH	T © 2015	-2016 D-Link				

Statistics

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

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

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

The traffic counter will reset if the device is rebooted.

	-					
	This pag				ed by your router through the ks.	
nagement >> Statis	tics				Clear	
	Internet	LAN	WI-FI 2.4GHz	WI-FI 5GHz		
100 KB/s						
75 KB/s						
50 KB/s						
25 KB/s						
0 KB/s						
Sent	Tot	tal Packets 5393	Total KByte(s) 4056	KByte/sec	Session	
Sent:		0000	4000	2	Session 14	

Connect a Wireless Client to your Router WPS Button

The easiest and most secure way to connect your wireless devices to the router is with WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DSL-4320L 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 DSL-4320L 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 device (or launch the software utility and start the WPS process).
- **Step 3** Allow up to 1 minute for your connection to be configured. Once the Internet light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows[®] 8 WPA/WPA2

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

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

Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.



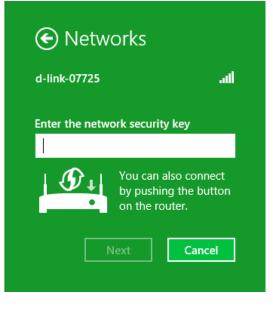


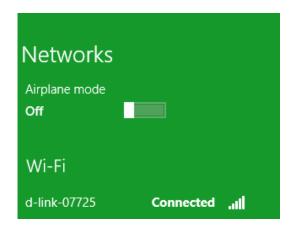
Section 5 - Connecting to a Wireless Network

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

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

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





Windows[®] 7 WPA/WPA2

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

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



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

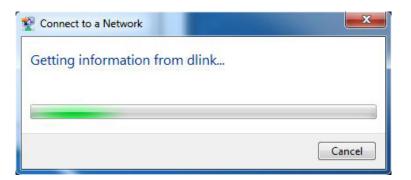


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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.

44 Not connected Connections are available Wireless Network Connection ^ dlink .1 Connect automatically Connect kay2690_24 . 11 james2690g -11 ALPHA м. dlink 888 -1 SD6 WLAN DAP-2690g Open Network and Sharing Center



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

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

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

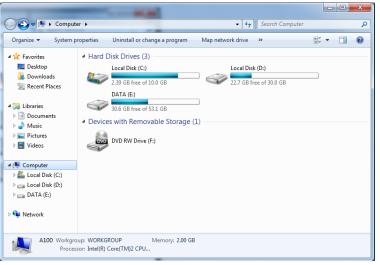
WPS

The WPS feature of the DSL-4320L can be configured using Windows[®] 7. Carry out the following steps to use Windows[®] 7 to configure the WPS feature:

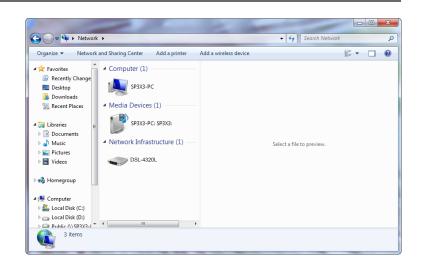
1. Click the **Start** button and select **Computer** from the Start menu.



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



3. Double-click the DSL-4320L.



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

Set Up a Network
To set up a network, type the 8-digit PIN from the router label You can find the numeric PIN on a label attached to the manufacturer. PIN: PIN: PIN:
Next Cancel

5. Type a name to identify the network.

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

Click Next to continue.

	Change passphrase, security level and encryption	n type (advanced):
	Pupgrade or replace the router using the network	ork settings stored on this computer
		<u>N</u> ext Cancel
G	😰 Set Up a Network	
	Give your network a name Your network needs a unique name so that it car characters or less) and recognizable.	n be easily identified. It is best to keep the name short (25
		Security-enabled network Your network is being set up using WPA2-Personal.
	D-Link_Net	Tour network is being set up using wrA2-reisonal.
	Change passphrase, security level and encryption	n type (advanced):
	Security key:	Security level:
	f6mm-gizb-9vmv	WPA2-Personal (Recommended)
	Connect automatically	Encryption type:
		AES (Recommended)
	9 Upgrade or replace the router using the netw	ork settings stored on this computer
		<u>N</u> ext Cancel

Your network needs a unique name so that it can be easily identified. It is best to keep the name short (25

Security-enabled network

Your network is being set up using WPA2-Personal.

🕝 🔮 Set Up a Network

D-Link_Net

Give your network a name

characters or less) and recognizable. Type your network name:

X

 \checkmark

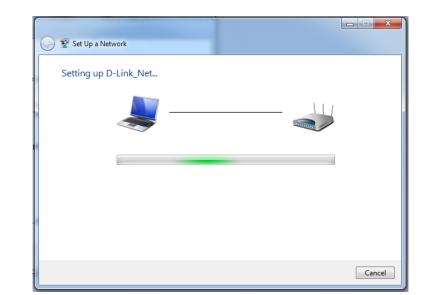
7. The following window appears while the Router is being configured.

Wait for the configuration to complete.

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

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

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



🕞 😨 Set I	Up a Network
	and some second second second
D-Lini	k_Net has been successfully set up
To add	an older wireless device to this network, you might need to provide this security key
	894g-eyd5-g5wb
You car	n <u>print these network settings</u> for future reference.
For gan easier se	ning consoles or computers running Windows XP, <u>copy the network profile to a USB drive</u> for et up.
	Close

Windows Vista®

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

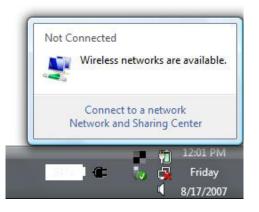
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

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

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

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





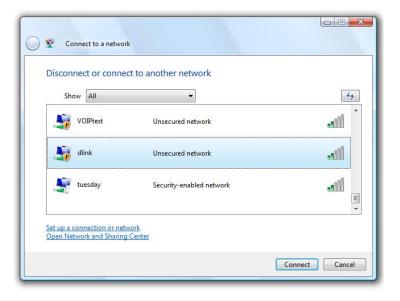
WPA/WPA2

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

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

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





Section 5 - Connecting to a Wireless Network

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

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

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

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.

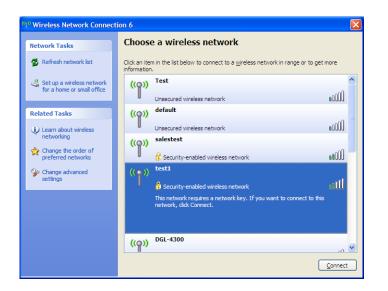
or

Right-click on the wireless computer icon in your system tray (lowerright 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.



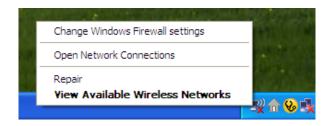


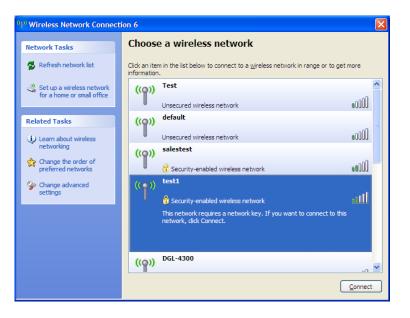
WPA/WPA2

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 Con	nection 🔀
	is a network key (also called a WEP key or WPA key). A network n intruders from connecting to this network.
Type the key, and then clic	:k Connect.
Network <u>k</u> ey:	1
Confirm network key;	
	Connect Cancel

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DSL-4320L. Read the following descriptions if you are having problems. The examples below are illustrated in Windows[®] XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

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

When entering the IP address of the D-Link router (**192.168.1.1** 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 or higher
 - Mozilla Firefox 3.5 or higher
 - Google[™] Chrome 8 or higher
 - Apple Safari 4 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BLACKICE, Sygate, Norton Personal Firewall, and Windows[®] XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

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

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

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.1.1**. When logging in, leave the password box empty.

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

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

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

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

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

Example: ping yahoo.com -f -l 1472

```
C:\>ping yahoo.com -f -1 1482

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

Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -1 1472

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

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

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

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

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

Ping statistics for 66.94.234.13:

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

Approximate round trip times in milli-seconds:

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

C:\>
```

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

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

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

- Open your browser, enter the IP address of your router (192.168.1.1) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on Setup and then click Manual Configure.
- To change the MTU, enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

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

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

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

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

What is Wireless?

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

Why D-Link Wireless?

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

How does wireless work?

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

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home Uses/Benefits

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

Small Office and Home Office Uses/Benefits

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or access point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-hoc Directly connecting to another computer for peer-to-peer communication using wireless network adapters on each computer, such as two or more DSL-4320L 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

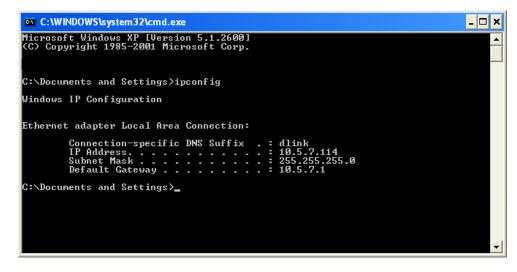
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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.

ieneral	
	d automatically if your network supports eed to ask your network administrator fo
Obtain an IP address autor	matically
💿 Use the following IP addre	\$5:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server addres	s automaticallu
• Use the following DNS ser	
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
	Advanced.

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DSL-4320L offers the following types of security:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)

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

What is WPA?

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

The 2 major improvements over WEP:

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

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

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

Technical Specifications

Device Interfaces

- 802.11 ac/n/g/b/a wireless LAN
- DSL Port
- Four 10/100/1000 Gigabit LAN ports
- Two USB ports (one USB 3.0, one USB 2.0)

Antenna Types

Six external antennas

Standards

- IEEE 802.11ac
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

Security

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

Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 5 A

Note:

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

• Frequency Range varies depending on country's regulation.

• The DSL-4320L does not include 5.25-5.35 GHz & 5.47-5.725 GHz in some regions.

USB Port Power

• 5 V / 0.9 A

Operating Temperature

• 0 to 40 °C (32 to 104 °F)

Operating Humidity

• 10% to 95% maximum (non-condensing)

Certifications

- CSA/LVD
- CE Class B
- RCM
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)

Dimensions

- 225.20 mm (8.87 inches)
- 342.70 mm (13.49 inches)
- 100.88 mm (3.97 inches)

Weight

• 925.08 g (2.04 lbs)