D-Link[®]



User Manual

All-in-One Mobile Companion

Preface

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

Manual Revisions

Revision	Date	Description
1.0	April 24, 2012	• Initial release
1.1	July 03,2012	• Initial release

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This purpose of this product is to create a constant network connection for your devices. As such, it does not have a standby mode or use a power management mode. If you wish to power down this product, please simply unplug it from the power outlet.

Table of Contents

Preface	i
Manual Revisions	i
Trademarks	i
Package Contents	1
System Requirements	2
Introduction	3
Features	4
Hardware Overview	5
Front/Top	5
Bottom	6
Operation Modes	7
Router Mode	8
Access Point Mode	9
Repeater Mode	10
Wi-Fi Hotspot Mode	11
Wireless Installation Considerations	12
Setting Up Your DIR-505	13
Initial Setup Wizard (Router/AP Mode)	15
Web-based Configuration	
QRS Mobile App Setup (iOS)	19
SharePort Mobile App (iOS, Android)	22
Router Mode	25
Setup	
Internet Settings	
Internet Connection Setup Wizard	
Manual Internet Setup	
Manual Internet Setup	

Wireless Settings	
Wireless Network Setup Wizard	40
Manual Wireless Network Configuration	42
Network Settings	46
Media Server	49
Storage	50
Advanced	
Virtual Server	52
Application Rules	53
MAC Address Filter	
Website Filters	55
Firewall Settings	56
Advanced Wireless	57
Wi-Fi Protected Setup (WPS)	
UPnP Settings	
Guest Zone	
DMZ	61
Maintenance	62
Admin	62
Time	63
System	64
Firmware	
Dynamic DNS	66
System Check	
Śchedules	
Status	69

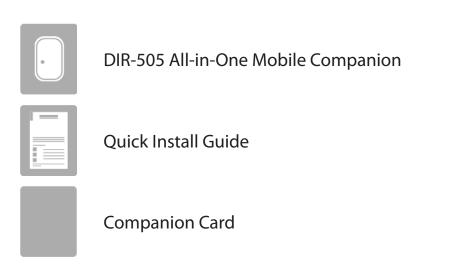
Device Info	69
Logs	70
Statistics	71
Internet Sessions	72
Wireless	73
Help	74
Access Point Mode	75
Setup	76
Setup Wizard	76
Wireless Setup	77
LAN Setup	81
Advanced	82
MAC Address Filter	82
Advanced Wireless	83
Wi-Fi Protected Setup (WPS)	
User Limit	85
Maintenance	86
Admin	86
System	
Firmware	
Time	
System Check	90
Schedules	91
Status	92
Device Info	92
Logs	93
Statistics	94
Wireless	95

Help		96
Repeater Mode	••••••	97
Setup		
Setup W	izard	
Wireless	Setup	
LAN Setu	up	
Advanced		
Advance	ed Wireless	
Wi-Fi Pro	otected Setup	
Maintenance	е	
Admin		
System		
Firmware	e	
Time		
Status		
Device Ir	nfo	
Logs		
Statistics	5	
Help		
Wi-Fi Hot Spot l	Mode	114
Setup	•••••	
Quick Se	etup Wizard	
Wi-Fi Ho	tspot Setup	
Wireless	LAN Setup	
	up	
Media Se	erver	
Storage.	•••••	
-		

Advanced124	Netw
MAC Address Filter124	S
Advanced Wireless125	
Maintenance126	Tech
Admin	GPL (
System	_
Firmware	Safet
Time	
Status	
Device Info130	
Logs	
Statistics	
Help	
Connecting a Wireless Client	
WPS Button	
Windows [®] 7	
WPA/WPA2	
WPS	
Windows Vista [®]	
WPA/WPA2	
WPS/WCN 2.0	
Windows [®] XP146	
WPA/WPA2147	
Troubleshooting149	
Wireless Basics153	
What is Wireless?154	
Tips	

Networking Basics	157
Statically Assign an IP address	158
Technical Specifications	159
GPL Code Statement	160
Safety Statements	175

Package Contents



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

System Requirements

Network Requirements	 An Ethernet-based Cable or DSL modem IEEE 802.11n or 802.11g wireless clients 10/100 Ethernet
Web-based Configuration Utility Requirements	 Computer with the following: Windows®, Macintosh, or Linux-based operating system An installed Ethernet adapter Browser Requirements: Internet Explorer 8 or higher Firefox 8.0 or higher Safari 4.0 or higher Google Chrome (16.0.9.12.75) Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
CD Installation Wizard Requirements	 Computer with the following: Windows® 7, Vista®, or XP (Service Pack 2 or higher), Mac OS X (v10.7) An installed Ethernet adapter CD-ROM drive

Introduction

TOTAL PERFORMANCE

Combines award winning router features and Wireless N 150 technology to provide the best wireless performance.

TOTAL SECURITY

The most complete set of security features including Active Firewall and WPA/WPA2 to protect your network against outside intruders.

TOTAL COVERAGE

Provides greater wireless signal rates even at farther distances for best-in-class Whole Home Coverage.

ULTIMATE PERFORMANCE

The D-Link All-in-One Mobile Companion (DIR-505) lets you create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the DIR-505 router to a cable or DSL modem and share your high-speed Internet access with everyone on the network. In addition, this Router includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online gaming smooth and responsive, providing a better Internet experience.

TOTAL NETWORK SECURITY

The DIR-505 router supports all of the latest wireless security features to prevent unauthorized access, be it from over the wireless network or from the Internet. Support for WPA/WPA2 standards ensure that you'll be able to use the best possible encryption method, regardless of your client devices. In addition, this router utilizes dual active firewalls (SPI and NAT) to prevent potential attacks from across the Internet.

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

Features

- **Faster Wireless Networking** The DIR-505 provides an up to 150 Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with 802.11g Devices** The DIR-505 is still fully compatible with the IEEE 802.11g standards, so it can connect with existing 802.11g 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 and website address.
 - Filter Scheduling These filters can be scheduled to be active on certain days or for a duration of hours or minutes.
 - Secure Multiple/Concurrent Sessions The DIR-505 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-505 can securely access corporate networks.
- User-friendly Setup Wizard Through its easy-to-use Web-based user interface, the DIR-505 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 802.11n and 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

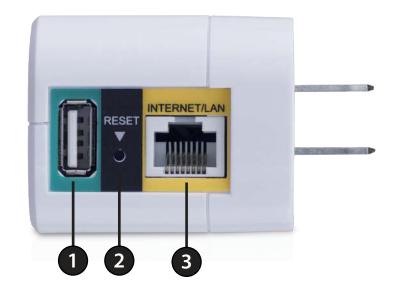
Hardware Overview Front/Top



1	Mode Selector Switch	Slide this switch to select the Router/AP, Repeater, and Wi-Fi Hotspot modes.
2	LED Indicator	This indicates the current status of the DIR-505, as detailed in the table below.

LED Indicator	Color	Status	Description
Power/Status	Green	Solid Green	The device is powered ON and operating properly
		Blinking Green	The device is processing WPS
		Light off	The device is off
	Red	Solid Red	During Power ON or system is defective
		Light off	The device is powered off

Hardware Overview Bottom



1	USB Port	Connect a USB 1.1 or 2.0 flash drive to configure the wireless settings using SharePort [™] Mobile and Share Web File Access. Both allows you to share a USB or a storage device with your local network.	
2	Reset Button	Pressing the Reset button restores the router to its original factory default settings.	
3	Ethernet Port	The auto MDI/MDIX Internet port is the connection for the Ethernet cable to the cable or DSL modem.	

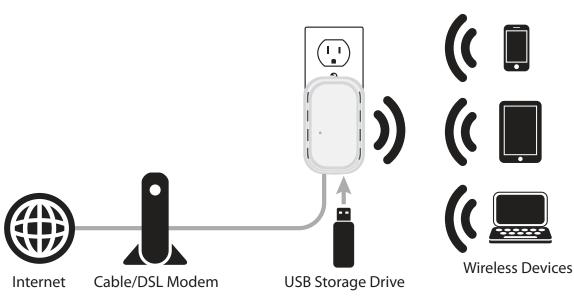
Operation Modes

Depending on how you want to use your DIR-505 will determine which mode you use. The following pages describe each mode to help you figure out which one to use.

- Router Mode
- Access Point Mode
- Repeater Mode
- Wi-Fi Hotspot Mode

Router Mode

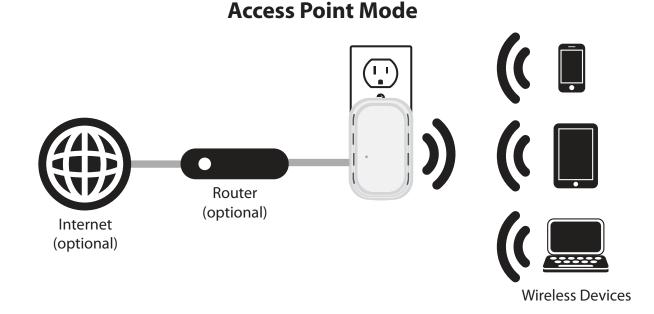
In Router Mode, the DIR-505 connects to your cable modem, DSL modem, or other Internet source and shares your Internet connection with your devices wirelessly, providing Internet access for an entire home or office. You can also share files with other computers or devices on your wireless network by using the SharePort Mobile feature.



Router Mode

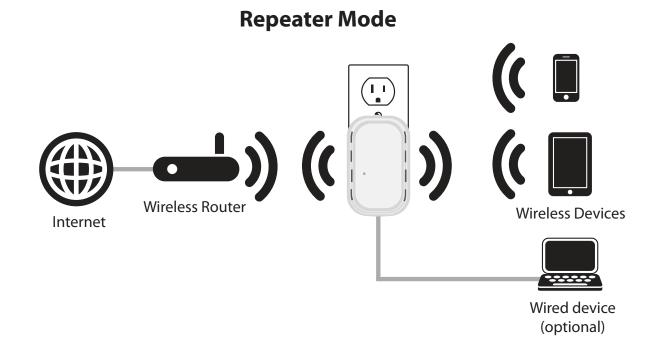
Access Point Mode

In Access Point Mode, the DIR-505 connects your wireless devices together, but does not provide routing functionality. It also allows a connected wired device to connect to your other devices wirelessly. This can be useful if you already have an existing Internet router that does not have built-in wireless capabilities. You can also use this to create a private wireless network without Internet access so that your devices can securely connect to one another without being exposed to the Internet or other computers.



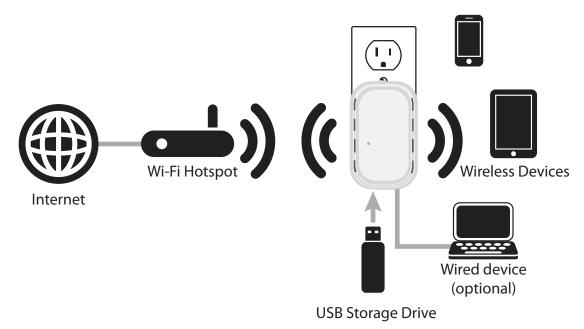
Repeater Mode

In Repeater Mode, the DIR-505 extends the range of an existing wireless network. You can use this to extend the coverage of an existing wireless router to provide better signal for parts of your home or office that may have poor reception. Additionally, you can use this mode to connect a wired device to a wireless network, which can be useful for devices that do not have a built-in wireless card, such as some smart TVs, game consoles, or DVRs.



Wi-Fi Hotspot Mode

In Wi-Fi Hotspot Mode, the DIR-505 connects to a wireless hotspot or existing wireless network and lets you share access to that network with your devices. This mode is similar to Router mode, but instead of connecting to a cable or DSL modem as your Internet source, the DIR-505 connects to a Wi-Fi hotspot and shares that connection with your devices. This can be useful in places such as a hotel, airport, or café to use a single connection to a hotspot to provide an Internet connection for all your devices. Additionally, it can provide an added layer of security when connecting to public hotspots by hiding your computers and devices from other devices on the network, and keeping them in your own private network. You can also share files with other computers or devices on your wireless network by using the SharePort Mobile feature.



Wi-Fi Hot Spot Mode

Wireless Installation Considerations

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

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

Setting Up Your DIR-505

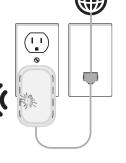
1. Move the switch on the top of the DIR-505 to the mode you wish to use, then plug it in. Verify that the power LED has turned green before continuing.

If you are using Router/AP Mode:

Move the switch on the top of the DIR-505 to **Router/AP** and plug it into a wall outlet near your cable/DSL modem or router.

Connect one end of the Ethernet cable into the Ethernet port of your cable/DSL modem or router and then plug the other end of the cable into the Ethernet port of the DIR-505. Verify that the power LED has turned green before continuing.

2. From your laptop or mobile device, go to your Wireless Utility to display the available wireless networks and select the Wi-Fi name that is printed on the Wi-Fi Configuration Note included in your package (ex: **dlink-a8fa**). Then, enter the Wi-Fi password also printed on the Wi-Fi Configuration Note (**akbdj1936**).



D-Link



D-Link DIR-505 Mobile Compa	nion Wi-Fi Configuration No
Web browser link:	Web browser link:
http://dlinkrouter or http://192.168.0.1	http://dlinkrouter or http://192.168.0.1
Default configuration	Your configuration
Username: "Admin" Password: "" (leave the field blank)	Username: Admin Password:
Wi- Fi Name (SSID) : dlinka8fa Wi-Fi Password : akbdi 19368	Wi- Fi Name (SSID) : Wi-Fi Password :

11

Outlet

3. Open a web browser. First time users will automatically be directed to the appropriate Setup Wizard for the selected operation mode. Please follow the on-screen instructions to complete setup.

If the Setup Wizard does not appear, type **http://dlinkrouter** in the address bar.

For detailed information on configuring your device, refer to the following sections of the manual:

- "Router Mode" on page 25
- "Access Point Mode" on page 75
- "Repeater Mode" on page 97
- "Wi-Fi Hot Spot Mode" on page 114

e Sep :: Configure sure libration Model Sep :: Configure sure libration Connection Sep :: Confuser your With To Security Sep :: Confuser your With To Security Sep :: Solution Provided Sep :: Solution Provided The Concel D D-LINK SYSTEMS, INC. Will + +	This wizard will guide you connect to the Internet.	hrough a step-by-step process to configure your new D-Link router and
Sela S: Corrigae Your Winf Gecarity Store S: Selar Your Pressand Store S: Selar Your Units Core Store S: Selar Your Units Core Meet: [Careal D D-LINK SYSTEMS, INC. WII ×		
• Step 2: Select your line core • Step 7: Save Satifys Next [Coreal D D-LINK SYSTEMS, INC. WII × +	 Step 3: Configure your 1 	Wi-Fi Security
D -LINK SYSTEMS, INC. WII × +	 Step 5: Select your Time 	
D D-LINK SYSTEMS, INC. WII × +	A conference and an other	
		Next [Cancel]
A 1 0 0 1 1 1 1 1 1	D-LINK	
← → C ③ http://dlinkrouter	D D-LINK	SYSTEMS, INC. WII × +

Initial Setup Wizard (Router/AP Mode)

If this is your first time setting up the DIR-505, open your web browser. You will automatically be directed to the **Wizard Setup Screen**.

If the Setup Wizard does not appear, type **http://dlinkrouter** in the address bar.

If you have already configured your settings and you would like to access the configuration utility, please refer to "Web-based Configuration" on page 18.

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

Click **Next** to continue.



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

Select whether you want to use **Router** mode or **Access Point** mode for your DIR-505 and click **Next**. In most situations, Router mode should be used.

2022 - 36 - 662-5720		Router allows the device to share Wi-
Wireless Mode :	Router	network at your home.
		Wireless PC
Cable/xDSL	DIR-505	

If you chose Router mode, the DIR-505 will try to detect what type of Internet connection you have and will ask you for the related settings. Enter the settings for your connection and click **Next**.

STEP 2: CONFIGURE YOUR INTERNET CONNECTION			
Router is	detectir	ng your Internet connection type, please wait	
		Prev Next Cancel	

If your Internet connection cannot be detected(or if you click the **Prev** button after the previous step), you will need to select which type of Internet connection you have. Select your Internet connection type, then click the **Next** button and enter the related settings.

Note: Most cable modem connections use DHCP, and most DSL modem connections use **PPPoE**. If you are not sure which connection type you use or what settings to enter, contact your Internet service provider.

ease select your Internet connec	tion type below:
OHCP Connection (Dynamic I Choose this if your Internet connecti use this type of connection.	P Address) ion automatically provides you with an IP Address. Most Cable Modems
Username / Password Conne Choose this option if your Internet or modems use this type of connection	onnection requires a username and password to get online. Most DSL
Username / Password Conne PPTP client.	ction (PPTP)
Username / Password Conner L2TP client.	ction (L2TP)
Static IP Address Connection Choose this option if your Internet S manually configured.	etup Provider provided you with IP Address information that has to be
	Prev Next Cancel

Create a wireless security passphrase or key (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.

Enter a password to secure configuration access to your router. Please note that this password will be used to log in to the configuration interface, but is not the same as the password used for your wireless network. Check the **Enable Graphical Authentication** box to enable CAPTCHA authentication for added security. Click **Next** to continue.

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

Setup is complete, and your wireless network name and password will be displayed. It is recommended that you write this information down for future reference. Click **Save** to save your settings and reboot the router.

STEP 3: CONFIGURE YOUR WI-FI SECURITY		
Give your Wi-Fi network a name.		
Wi-Fi Network Name (SSID) :		
MyDLinkNetwork	(Using up to 32 characters)	
Give your Wi-Fi network a password. Wi-Fi Password :		
MyPassword	(Between 8 and 63 characters)	
Prev Next	Cancel	

STEP 4: SET YOUR PASSWORD		
to the Web-based configuration page a password below, and enabling CAPT	oes not have a password configured for administrator access is. To secure your new networking device, please set and verify ICHA Graphical Authentication provides added security Inline users and hacker software from accessing your network	
Password :		
Verify Password :		
Enable Graphical Authentication :		
	Prev Next Cancel	

Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.
(GMT+08:00) Taipei
Prev Next Cancel

SETUP COMPLETE!	
Below is a detailed summary of your Wi-Fi security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your Wi-Fi devices.	
Wi-Fi Network Name (SSID): MyDLinkNetwork	
Wi-Fi Password : MyPassword	
The Setup Wizard has completed. Click the Save button to save your settings and restart the router.	
Prev Save Cancel	

Web-based Configuration

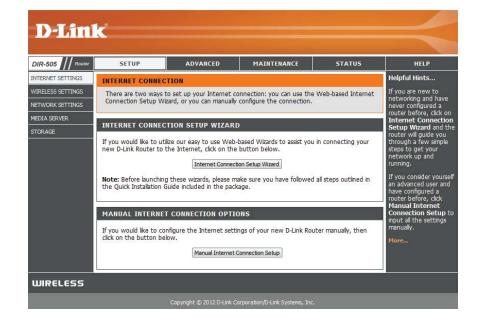
To access the configuration utility in any of the modes of the DIR-505, open a web-browser and enter **http://dlinkrouter** in the address bar.

Select **Admin** from the drop-down menu and then enter your password. By default, the password is blank.

The configuration interface will open, and you can configure the
different settings of the DIR-505.

For detailed information on configuring your device, refer to the following sections of the manual:

- "Router Mode" on page 25
- "Access Point Mode" on page 75
- "Repeater Mode" on page 97
- "Wi-Fi Hot Spot Mode" on page 114





LOGIN	
Log in to the router:	
User Name : Admin	
Password :	
Log In	

Section 2 - Installation

QRS Mobile App Setup (iOS)

1. Use your iOS mobile device to scan the QR code to the right to download the **QRS Mobile** app from the App Store.

2. From your mobile device, go to **Settings**, and then go to **Wi-Fi**.

3. Select the network that is displayed on the Wi-Fi Configuration Note included in your package (ex: dlink-a8fa). Then, enter the Wi-Fi password also printed on the Wi-Fi Configuration Note (akbdj1936).

Phato Booth	
	Settings
Settings	

iPad 🗇	3:49 PM	Not Charging 🔳	
Settings	Wi-Fi Networks		
Airplane Mode () OFF			
🛜 Wi-Fi dink	Wi-Fi		
Notifications	Choose a Network		
Location Services On	7245 6100	8 🗢 🧿	
Brightness & Wallpaper	Chocolate	ç 🧕	
Picture Frame	Claco_WPS_87366	8 🕈 🔕	
General	✓ dlink	÷ 0	
Cloud	dlink-605L	870	
Mail, Contacts, Calendars	dlink-DIR505	8 🕈 🔕	
Twitter	DSR-500N_1	8 🗢 🔕	
FaceTime	fc75167bb3ab	870	
Safari	Firefly	870	
	DW		



Section 2 - Installation

4. Once your mobile device is connected, click on the **QRS Mobile** icon.



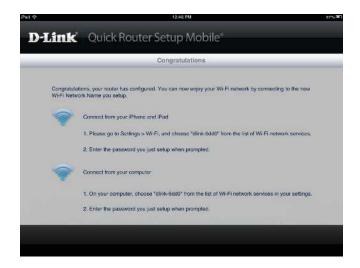
5. Click Start to continue.

6. Follow the instructions and click **Next** to continue.





7. After the Setup Wizard is complete, the following screen will appear. You can now change your mobile device and laptop Wi-Fi settings to the wireless network name and password you just created.

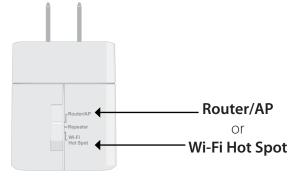


SharePort Mobile App (iOS, Android)

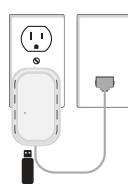
The SharePort Mobile app allows you to remotely access files stored on a USB flash drive or USB external hard drive connected to the DIR-505. For more information on using this feature, please refer to "Storage" on page 50.

Note: The SharePort Web/SharePort Mobile feature of the DIR-505 can only be used when the device is in **Router** or **Wi-Fi Hot Spot** mode; it will not work in **Repeater** mode.

1. Make sure that the switch on top of the DIR-505 is set to **Router/AP** or **Wi-Fi Hotspot**.



2. Plug your USB flash drive into the USB port on the bottom of the DIR-505, and then plug the DIR-505 into a power outlet.



3. Use your iOS or Android mobile device to scan the QR code to the right to download the **SharePort Mobile** app.

You can also search for the **SharePort Mobile** app directly in the iOS App Store or the Android Market/Google Play.





4. From your iOS mobile device, tap Settings.

5. Click **Wi-Fi** and select the network (SSID) that you assigned during initial setup. Then, enter your Wi-Fi password.

- 6. Once connected, tap the **SharePort** icon, and the SharePort app will load.
- ------Cinco WPS 8736 9 0 ----dink-805 ICloud 4 4 D dlink-DIR505 🔄 Mail, Contacts. Calendars -DBR-500N_1 Twitter 1075167bb3a ---FaceTim Firefly ---PW 440 ----Strawberry ---TheRack A7 0 vanila.

WHFI Choose a Netwo 7245 5100



CN 🔘

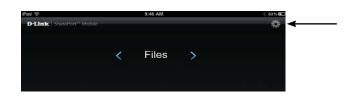


Section 2 - Installation

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

- 8. You can now use the SharePort Mobile app to access the files on your USB storage drive.
- **Note:** If you connect a USB storage drive with many files or with a large capacity, it may take a while for the DIR-505 to scan and catalog your files.

Q 8	sarch Sharepoirt Storage	
555 •	Amazing_Caves_720.mp4 60.77MB, Thu Apr 15.08.00.00.2004	
Nin I	Because I Love You.mp4 7.08MB, Sun Jun 26 00:34:04 2011	
1	Coral_Reef_Adventure_720.mp4 74.35MB, Sun Dec 21 17:17:42 2003	
Sin.	The Script - The Man Who Can_t Be Moved.mp4 17.57MB, Thu Jul 7 17:41:98:2011	
NAN D	12_720.mp4 85.61MB, Man Dec 22 14:47:16 2003	



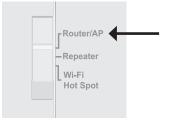
Router Mode

This section describes the configuration interface for Router mode. Make sure that the mode selector switch is in the Router/ AP position on your DIR-505.

If this is your first time configuring the DIR-505, open your web browser and type **http://dlinkrouter** in the address bar. You will automatically be directed to the **Wizard Setup Screen**. For more information, refer to "Initial Setup Wizard (Router/AP Mode)" on page 15.

If the Setup Wizard does not appear, type **http://dlinkrouter** in the address bar.

Otherwise, the main configuration screen will appear. You will still be able to use the different setup wizards to configure your DIR-505.



WELCOME TO THE D-LINK SETUP WIZARD This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet. • Step 1: Configure your Device Mode • Step 2: Configure your Internet Connection • Step 3: Configure your WI-FI Security • Step 4: Set your Password • Step 5: Select your Time Zone • Step 6: Save Settings

DIR-505 Router	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
NTERNET SETTINGS	INTERNET CONNEC	TION			Helpful Hints
IRELESS SETTINGS			onnection: you can use the		If you are new to networking and have
ETWORK SETTINGS	Connection Setup Wiz		never configured a		
EDIA SERVER	INTERNET CONNECTION SETUP WIZARD				router before, cick on Internet Connection Setup Wizard and the router will guide you through a few simple steps to get your network up and running. If you consider yourself an advanced user and have configured a router before, cick Manual Internet Connection Setup to input all the settings manually.
TORAGE	If you would like to utilize our easy to use Web-based Wizards to assist you in connecting your new D-Link Router to the Internet, click on the button below. Internet Connection Setup Wizard Note: Before launching these wizards, please make sure you have followed all steps outlined in the Ouck Installation Guide included in the package.				
	MANUAL INTERNET CONNECTION OPTIONS If you would like to configure the Internet settings of your new D-Link Router manually, then cick on the button below.				

Setup Internet Settings

If you want to configure your router to connect to the Internet using a setup wizard, click **Internet Connection Setup Wizard**, and continue to the next page.

To configure your Internet settings manually, click the **Manual Internet Connection Setup** button and go to "Manual Internet Setup" on page 31.

DIR-505 Router	SETUP	ADVANCED	MAINTÉNANCE	STATUS	HELP
INTERNET SETTINGS	INTERNET CONNE	CTION			Helpful Hints
WIRELESS SETTINGS NETWORK SETTINGS	There are two ways to set up your Internet connection: you can use the Web-based Internet Connection Setup Wizard, or you can manually configure the connection.				If you are new to networking and have never configured a router before, click on
MEDIA SERVER	INTERNET CONNE	CTION SETUP WIZAR	D		Internet Connection Setup Wizard and th
	Note: Before launchir		tion Setup Wizard	all steps outlined in	steps to get your network up and running. If you consider yourse an advanced user and have configured a router before, click Manual Internet
	MANUAL INTERNE	T CONNECTION OPTI	ONS		Connection Setup t input all the settings
If you would like to configure the Internet settings of your new D-Link Router manually, then					manually.

Click **Next** to continue.

Section 3 - Router Mode

Internet Connection Setup Wizard

The Internet Connection Setup Wizard is designed to guide you WELCOME TO THE D-LINK INTERNET CONNECTION SETUP WIZARD through a step-by-step process to configure your DIR-505 and This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet. connect to the Internet. Step 1: Set your Password Step 2: Select your Time Zone

In order to secure your router, please enter a new password. Click Next to continue.

CTER 1. CET YOUR RACOWORD			
STEP 1: SET YOUR PASSWORD			
By default, your new D-Link Router does not have a password configured for administrator access to the Web-based configuration pages. To secure your new networking device, please set and verify a password below:			
Password :			
Verify Password :			

Cancel

Connect

Cancel

Connect

Prev Next

Prev

Next

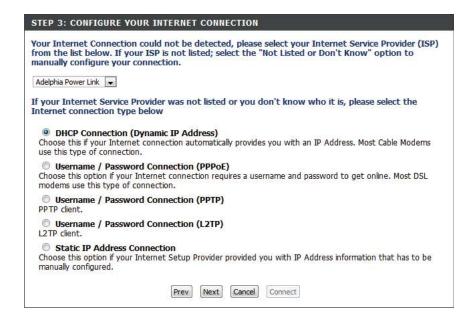
Step 3: Configure your Internet Connection

Step 4: Save Settings and Connect

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

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

Select your Internet connection type and click Next to continue.



If you selected **DHCP Connection**, you will see the following screen. If your ISP requires you to enter a MAC address and Host Name, fill them in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

Click Next to continue.

DHC	DHCP CONNECTION (DYNAMIC IP ADDRESS)			
PC th	To set up this connection, please make sure that you are connected to the D-Link Router with the PC that was originally connected to your broadband connection. If you are, then click the Clone MAC button to copy your computer's MAC Address to the D-Link Router.			
	MAC Address : 00:00:00:00:00:00 (optional)			
	Clone Your PC's MAC address			
	Host Name :			
You ISP.	You may also need to provide a Host Name. If you do not have or know this information, please contact your ISP.			
	Prev Next Cancel Connect			

If you selected **PPPoE Connection**, you will see the following screen. Enter your PPPoE username, password and verify password, then 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.

SET USERNAME / PASSWORD CONNECTION (PPPOE)				
To set up this connection you will need to have a Username and Password from your Internet Service Provider. If you do not have this information, please contact your ISP.				
Address Mode :	Oynamic IP Static IP			
IP Address :	0.0.0			
User Name :				
Password :				
Verify Password :				
Service Name :	(optional)			
Note: You may also need to provide a Service Name. If you do not have or know this information, please contact your ISP.				
DNS SETTINGS				
Primary DNS Address : 0.0.0.0				
Secondary DNS Address :	0.0.0.0			
	Prev Next Cancel Connect			

If you selected **PPTP Connection**, you will see the following screen. Enter your PPTP username, password, and other information supplied by your ISP. Click **Next** to continue.

SET USERNAME / PASSWORD CONNECTION (PPTP)				
To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need PPTP IP address. If you do not have this information, please contact your ISP.				
Address Mode :	Oynamic IP Static IP			
PPTP IP Address :	0.0.0.0			
PPTP Subnet Mask :	255.255.255.0			
PPTP Gateway IP Address :	0.0.0.0			
PPTP Server IP Address :	0.0.0.0			
User Name :				
Password :				
Verify Password :				
DNS SETTINGS				
Primary DNS Address : Secondary DNS Address :				
	Prev Next Cancel Connect			

If you selected **L2TP Connection**, you will see the following screen. Enter your L2TP username, password, and other information supplied by your ISP. Click **Next** to continue.

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

To set up this connection you will need to have a Username and Password from your Internet Service Provider. You also need L2TP IP address. If you do not have this information, please contact your ISP.			
Address Mode :	Oynamic IP	Static IP	
L2TP IP Address :	0.0.0.0		
L2TP Subnet Mask :	255.255.255.0		
L2TP Gateway IP Address :	0.0.0.0		
L2TP Server IP Address :	0.0.0.0		
User Name :			
Password :			
Verify Password :			
DNS SETTINGS			
Primary DNS Address :	0.0.0.0		
Secondary DNS Address :	0.0.0.0		
P	rev Next Can	cel Connect	

SET USERNAME / DASSWORD CONNECTION (12TD)

SET STATIC IP ADDRESS CONNECTION				
To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.				
IP Address :	0.0.0.0			
Subnet Mask :	255.255.255.0			
Gateway Address :	0.0.0.0			
Primary DNS Address :	0.0.0.0			
Secondary DNS Address :	0.0.0.0			
Prev	Next Cancel	Connect		

Your setup is complete. Click **Connect** to save your settings and reboot your router.

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

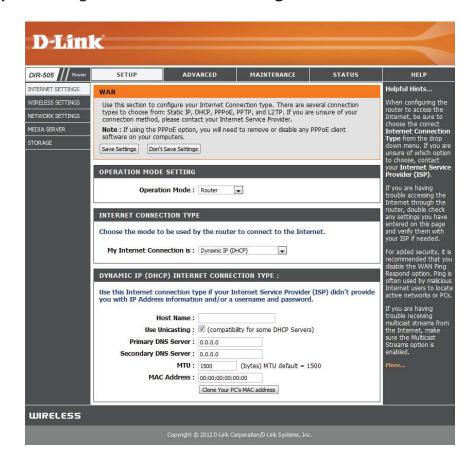
Manual Internet Setup

If you clicked **Manual Internet Connection Setup** on the **Internet Settings** page, you will see this screen. Here, you can configure the Internet connection for your DIR-505. After making your changes, click the **Save Settings** button.

Operation This should be set to Router mode. If you want to use Access Mode: Point mode, select Access Point mode and click the Save Settings button to switch to the Access Point configuration interface. For more information, refer to "Access Point Mode" on page 75.

Host Name: Select the connection mode to use: Dynamic IP (DHCP), PPPOE, PPTP, or L2TP. The remaining settings will change depending on which connection mode you use.

Note: Most cable modem connections use DHCP, and most DSL connections use PPPoE. If you are not sure which connection mode to use, contact your Internet service provider.



Section 3 - Router Mode

If you selected **Dynamic IP (DHCP)**, you will see the following settings.

Host Name: Entering a host name is optional but may be required by some ISPs. Leave this blank if you are not sure.

Use Check the box if you are having problems obtaining an IP **Unicasting:** address from your ISP.

Primary/ Enter the Primary and secondary DNS server IP addresses
 Secondary assigned by your ISP. These addresses are usually obtained
 DNS Server: automatically from your ISP. Leave this setting at 0.0.0.0 if you did not specifically receive these from your ISP.

- **MTU:** If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.
- MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYP	E
Choose the mode to be used b	y the router to connect to the Internet.
My Internet Connection is :	Dynamic IP (DHCP)
DYNAMIC IP (DHCP) INTERN	IET CONNECTION TYPE :
	ype if your Internet Service Provider (ISP) didn't provide on and/or a username and password.
Host Name :	
Use Unicasting :	(compatibility for some DHCP Servers)
Primary DNS Server :	0.0.0.0
Secondary DNS Server :	0.0.0.0
MTU :	1500 (bytes) MTU default = 1500
MAC Address :	00:00:00:00:00
	Clone Your PC's MAC address

If you selected **PPPoE**, you will see the following settings. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.

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

- IP Address: Enter the IP address (for static PPPoE only).
- **User Name:** Enter your PPPoE user name.
- **Password:** Enter your PPPoE password and then retype the password in the next box.

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

- **Reconnect** Select either **Always-on**, **On-Demand**, or **Manual**. **Mode:**
- Maximum Enter a maximum idle time during which the Internet Idle Time: connection is maintained during inactivity. To disable this feature, set the **Reconnect Mode** to **Always on**.

Primary/ Enter the primary and secondary DNS server addresses **Secondary** (Static PPPoE only). **DNS Server:**

MTU: If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : PPPoE (Username / Password)

PPPOE INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode :	Oynamic IP Static IP
IP Address :	0.0.0.0
Username :	
Password :	
Verify Password :	
Service Name :	(optional)
Reconnect Mode :	💿 Always on 💿 On demand 🔘 Manual
Maximum Idle Time :	5 (minutes, 0=infinite)
Primary DNS Server :	0.0.0.0 (optional)
Secondary DNS Server :	0.0.0.0 (optional)
MTU :	1492 (bytes) MTU default = 1492
MAC Address :	00:00:00:00:00
	Clone Your PC's MAC address

MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : PPPoE (Username / Password)

PPPOE INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode :	Oynamic IP State	atic IP
IP Address :	0.0.0.0	
Username :]
Password :]
Verify Password :]
Service Name :		(optional)
Reconnect Mode :	Always on On	demand 🔘 Manual
Maximum Idle Time :	5 (minute	es, 0=infinite)
Primary DNS Server :	0.0.0.0	(optional)
Secondary DNS Server :	0.0.0.0	(optional)
MTU :	1492 (bytes)	MTU default = 1492
MAC Address :	00:00:00:00:00:00]
	Clone Your PC's MAC ad	ldress

If you selected **PPTP**, you will see the following settings. Your ISP will provide you with a username and password. This option is typically used for DSL services.

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

PPTP IP Enter the IP address (Static PPTP only). **Address:**

PPTP Subnet Enter the primary and secondary DNS server addresses (for **Mask:** static PPTP only).

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

PPTP Server Enter the server IP provided by your ISP (optional). **IP Address:**

Username: Enter your PPTP username.

- **Password:** Enter your PPTP password and then retype the password in the next box.
- **Reconnect** Select either **Always-on**, **On-Demand**, or **Manual**. **Mode:**

Maximum Enter a maximum idle time during which the Internet Idle Time: connection is maintained during inactivity. To disable this feature, set the **Reconnect Mode** to **Always on**.

INTERNET CONNECTION TYPE	E
Choose the mode to be used b	y the router to connect to the Internet.
My Internet Connection is :	PPTP (Username / Password)
The first connection is .	
PPTP INTERNET CONNECTION	N TYPE :
Enter the information provided	by your Internet Service Provider (ISP).
	Opnamic IP O Static IP
PPTP IP Address :	0.0.0.0
PPTP Subnet Mask :	255.255.255.0
PPTP Gateway IP Address :	0.0.0.0
PPTP Server IP Address :	0.0.0.0
Username :	
Password :	
Verify Password :	
Reconnect Mode :	Always on On demand Manual
Maximum Idle Time :	5 (minutes, 0=infinite)
Primary DNS Server :	0.0.0.0
Secondary DNS Server :	0.0.0.0
MTU :	1400 (bytes) MTU default = 1492
MAC Address :	00:00:00:00:00
	Clone Your PC's MAC address

Primary/ The DNS server information will be supplied by your ISP **Secondary** (Internet Service Provider.) **DNS Server:**

- **MTU:** If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.
- MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : PPTP (Username / Password)

PPTP INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Address Mode :	Oynamic IP Static IP
PPTP IP Address :	0.0.0.0
PPTP Subnet Mask :	255.255.255.0
PPTP Gateway IP Address :	0.0.0.0
PPTP Server IP Address :	0.0.0.0
Username :	
Password :	
Verify Password :	
Reconnect Mode :	Always on On demand Manual
Maximum Idle Time :	5 (minutes, 0=infinite)
Primary DNS Server :	0.0.0.0
Secondary DNS Server :	0.0.0.0
MTU :	1400 (bytes) MTU default = 1492
MAC Address :	00:00:00:00:00
	Clone Your PC's MAC address

Section 3 - Router Mode

If you selected **L2TP**, you will see the following settings. Your ISP will provide you with a username and password. This option is typically used for DSL services.

My Internet Select L2TP (Username/Password) from the drop-down Connection: menu.

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

L2TP IP Enter the L2TP IP address supplied by your ISP (for static IP **Address:** only).

- L2TP Subnet Enter the subnet mask supplied by your ISP (for static IP only). Mask:
- L2TP Gateway Enter the gateway IP Address provided by your ISP. IP Address:
 - L2TP Server Enter the server IP provided by your ISP (optional). IP Address:

Username: Enter your L2TP username.

- **Password:** Enter your L2TP password and then retype the password in the next box.
- Reconnect Select either Always-on, On-Demand, or Manual. Mode:

Maximum Enter a maximum idle time during which the Internet Idle Time: connection is maintained during inactivity. To disable this feature, set the **Reconnect Mode** to **Always on**.

E
y the router to connect to the Internet.
L2TP (Username / Password)
N TYPE :
by your Internet Service Provider (ISP).
Dynamic IP Static IP
0.0.0
255.255.255.0
0.0.0.0
0.0.0.0
Always on On demand Manual
5 (minutes, 0=infinite)
0.0.0.0
0.0.0.0
1400 (bytes) MTU default = 1492
00:00:00:00:00
Clone Your PC's MAC address

Section 3 - Router Mode

Primary/ Enter the primary and secondary DNS server addresses (for **Secondary** static L2TP only). **DNS Server:**

- **MTU:** If you experience connection issues, you may need to change the MTU setting for optimal performance with your specific ISP. 1492 is the default MTU.
- MAC Address: If your ISP requires you to enter a MAC address, fill it in here. You can click the **Clone MAC button** to enter your current computer's MAC address.

INTERNET CONNECTION TYPE

Choose the mode to be used by the router to connect to the Internet.

My Internet Connection is : L2TP (Username / Password)

L2TP INTERNET CONNECTION TYPE :

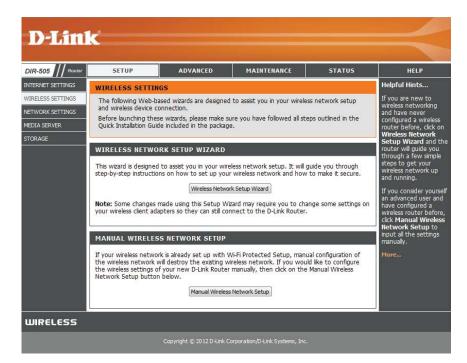
Enter the information provided by your Internet Service Provider (ISP).

Address Mode :	Dynamic IP Static IP
L2TP IP Address :	0.0.0
L2TP Subnet Mask :	255.255.255.0
L2TP Gateway IP Address :	0.0.0.0
L2TP Server IP Address :	0.0.0.0
Username :	
Password :	
Verify Password :	
Reconnect Mode :	Always on On demand Manual
Maximum Idle Time :	5 (minutes, 0=infinite)
Primary DNS Server :	0.0.0.0
Secondary DNS Server :	0.0.0.0
MTU :	1400 (bytes) MTU default = 1492
MAC Address :	00:00:00:00:00
	Clone Your PC's MAC address

Wireless Settings

If you want to configure the wireless settings on your router using the wizard, click **Wireless Security Setup Wizard** and refer to the next page.

If you want to manually configure the wireless settings on your router click **Manual Wireless Network Setup** and refer to "Manual Wireless Network Configuration" on page 42.



Wireless Network Setup Wizard

The Internet Connection Setup Wizard is designed to guide you through a step-by-step process to configure your wireless network.

Type your desired wireless network name (SSID) and choose from the following options:

Automatically assign a network key (Recommended):

Select this option to automatically generate the router's network key and click **Next**.

Manually assign a network key: Select this option to manually enter your network key and click **Next**.

It is also recommended that you tick the **Use WPA encryption instead of WEP** checkbox in order to give your wireless network the highest level of security.

	ed to assist you in your wireless network setup. It will guide you through tions on how to set up your wireless network and how to make it secure. Wireless Network Setup Wizard
	Wireless Network Setup Wizard
	is made using this Setup Wizard may require you to change some settings adapters so they can still connect to the D-Link Router.
	TO THE D-LINK WIRELESS SECURITY SETUP WIZARD name, using up to 32 characters.
	name, using up to 32 characters.
Give your network a Network Name (SS	name, using up to 32 characters.
Give your network a Network Name (SS Automatically assign	name, using up to 32 characters. ID): DIR505
Give your network a Network Name (SS Automatically assign To prevent outside	name, using up to 32 characters. ID): DIR505 a a network key (Recommended) rs from accessing your network, the router will automatically assign a security to your
Give your network a network Name (SS Automatically assign To prevent outside network. Manually assign a network	name, using up to 32 characters. ID): DIR505 a a network key (Recommended) rs from accessing your network, the router will automatically assign a security to your
 Give your network an Network Name (SS Automatically assign To prevent outside network. Manually assign a net Use this options if y 	name, using up to 32 characters. ID): DIR505 ID a network key (Recommended) rs from accessing your network, the router will automatically assign a security to your etwork key

If you selected **Manually assign a network key**, you will need to manually enter a password (network key) for your wireless network, and then click **Next**.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD
You have selected your security level - you will need to set a wireless security password.
The WPA (Wi-Fi Protected Access) key must meet one of following guidelines:
-Between 8 and 63 characters (A longer WPA key is more secure than a short one)
Wireless Security Password :
Note: You will need to enter the same password as keys in this step into your wireless clients in order to enable proper wireless communication.
Prev Next Cancel

Wireless setup is now complete. Click **Save** to save your settings and complete the setup process.

SETUP COMPLETE!	
	your wireless security settings. Please print this page out, or write the r, so you can configure the correct settings on your wireless client adapters.
Network Name (SSID):	DIR505
Security Mode :	Auto (WPA or WPA2) - Personal
Cipher Type	TKIP and AES
Pre-Shared Key :	12345678
	Prev Save Cancel

Manual Wireless Network Configuration

If you clicked **Manual Wireless Network Setup** on the **Wireless Settings** page, you will see this screen. Here, you can configure the wireless network settings of the DIR-505. After making your changes, click the **Save Settings** button.

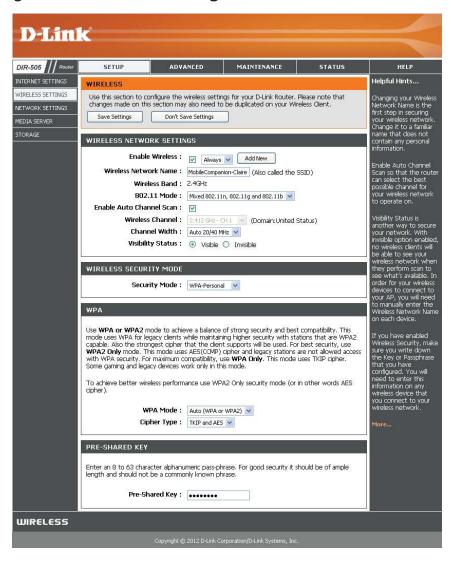
Enable Check the box to enable the wireless function. If you do Wireless: not want to use wireless, uncheck the box to disable all the wireless functions. You may also set up a specific time range (schedule). Select a schedule from the drop-down menu or click **Add New** to create a new schedule.

Wireless When you are browsing for available wireless networks, this
 Network is the name that will appear in the list (unless Visibility Status
 Name: is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

802.11 Mode: Select one of the following based on your needs:

- **802.11b Only**: Select this if you are only using 802.11b wireless clients.
- **802.11g Only**: Select this if you are only using 802.11g wireless clients.
- **802.11n Only**: Select this if you are only using 802.11n wireless clients.
- Mixed 802.11g and 802.11b: Select this if you are using a mix of 802.11g and 11b wireless clients.
- Mixed 802.11n and 802.11g: Select this if you are using a mix of 802.11n and 11g wireless clients.
- Mixed 802.11n, 802.11g and 802.11b: Select this if you are using a mix of 802.11n, 11g, and 11b wireless clients.

Enable Auto The **Auto Channel Scan** setting can be selected to allow **Channel Scan:** the DIR-505 to choose the channel with the least amount of interference.



Wireless Indicates the channel setting for the DIR-505. The Channel Channel: can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Scan, this option will be grayed out.

- Channel Select whether to use Auto 20/40 MHz or 20 MHz for the
 Width: channel width. Normally, this should be left on Auto 20/40
 MHz. If you are not using any 802.11n wireless clients, you can set this to 20 MHz.
- Visibility This setting controls whether the router's wireless network Status: name(SSID) will be broadcast so that wireless devices can scan for it. If you set it to Invisible, all wireless clients will need to enter the network name and security settings of your wireless network manually.
- Wireless Here, you can select between None, WEP, WPA-Personal,Security and WPA-Enterprise. Refer to the following pages for detailsMode: on configuring the different security modes.

Enable Wireless :	Always V Add New
Wireless Network Name :	MobileCompanion-Claire (Also called the SSID)
Wireless Band :	2.4GHz
802.11 Mode :	Mixed 802.11n, 802.11g and 802.11b 👻
Enable Auto Channel Scan :	
Wireless Channel :	2.412 GHz - CH 1 📝 (Domain:United Status)
Channel Width :	Auto 20/40 MHz 😽
Visibility Status :	💿 Visible 🔘 Invisible

WIRELESS SECURITY MODE

Security Mode : 🛛 WPA-Personal 🛛 💌

Section 3 - Router Mode

If you select **WEP** as your Security Mode:

WEP Key Select an encryption level and key length to use. This will **Length:** also set the type and length of the key you will need to enter.

WEP Key: Enter the password(key) for your wireless network. It will need to match the requirements for the WEP Key Length selected above.

Authentication: Choose what Authentication type to use.

WIRELESS SECURITY MODE	
Security Mode :	WEP
WEP	
router and the wireless stations. For For 128 bit keys you must enter 26	ndard. To use it you must enter the same key(s) into the or 64 bit keys you must enter 10 hex digits into each key b 5 hex digits into each key box. A hex digit is either a numb . For the most secure use of WEP set the authentication t oled.
hexadecimal key using the ASCII va	into a WEP key box, in which case it will be converted into alues of the characters. A maximum of 5 text characters ca naximum of 13 characters for 128 bit keys.
	tion this device will ONLY operate in Legacy Wireless mod NOT get 11N performance due to the fact that WEP is no cation.
WEP Key Length :	64 bit (10 hex digits) (length applies to all keys)
WEP Key 1 :	
Authentication :	Both
WIRELESS SECURITY MODE Security Mode :	WPA-Personal 💌
WPA	
mode uses WPA for legacy clients w capable. Also the strongest cipher WPA2 Only mode. This mode use	eve a balance of strong security and best compatibility. This while maintaining higher security with stations that are WP, that the client supports will be used. For best security, use s AES(CCMP) cipher and legacy stations are not allowed ac ompatibility, use WPA Only . This mode uses TKIP cipher. work only in this mode.
	ance use WPA2 Only security mode (or in other words AE
cipher).	

WPA Mode :	Auto (WPA or WPA2)	•	
------------	--------------------	---	--

Cipher Type: TKIP and AES

PRE-SHARED KEY

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

Pre-Shared Key :

If you select **WPA-Personal** as your Security Mode:

WPA Mode: Select whether to use WPA, WPA2, or both WPA and WPA2 for your wireless network..

Cipher Type: Choose whether to use TKIP, AES, or both TKIP and AES ciphers for your wireless network.

Pre-Shared Enter the password(key) for your wireless network. Key: If you select WPA-Enterprise as your Security Mode:

WPA Mode: Select whether to use WPA, WPA2, or both WPA and WPA2 for your wireless network..

- Cipher Type: Choose whether to use TKIP, AES, or both TKIP and AES ciphers for your wireless network.
- Pre-Shared Enter the password(key) for your wireless network. Key:

RADIUS Enter your RADIUS server IP address. Server IP Address:

RADIUS Enter your RADIOS server port. **Server Port:**

RADIUS Enter your RADIUS server shared secret. Server Shared Secret:

capable. Also the strongest cipher that the client supports will be used. For best security, use	WIRELESS SECURITY MODE
Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed acces with WPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode. To achieve better wireless performance use WPA2 Only security mode (or in other words AES).	Security Mode : WPA-Enterprise
mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed acces with WPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode. To achieve better wireless performance use WPA2 Only security mode (or in other words AES).	WPA
	mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher.
WPA Mode : Auto (WPA or WPA2)	WPA Mode: Auto (WPA or WPA2)
Cipher Type : TKIP and AES	Cipher Type : TKIP and AES
	EAP (802.1X)
EAP (802.1X)	When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server.
When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate client	RADIUS Server IP Address: 0.0.0.0
When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate client via a remote RADIUS server.	RADIUS Server Port: 1812
When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate client via a remote RADIUS server. RADIUS Server IP Address : 0.0.0.0	RADIUS Server Shared Secret :

Advanced

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings. After making your changes, click the **Save Settings** button.

Router Settings

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

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

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

Device Name: Enter a name for the DIR-505.

Local Enter the Domain name (Optional). **Domain:**

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

k				
SETUP ADV	ANCED	MAINTENANCE	STATUS	HEL
NETWORK SETTINGS				Helpful Hint
Use this section to configure the the built-in DHCP Server to assign Address that is configured here is management interface. If you ch network settings to access the m Save Settings Don't Save Settings	n IP addresses to s the IP Address ange the IP Address network again.	the computers on your that you use to access the second se	network. The IP he Web-based	If you already DHCP server network or a static IP addr all the device network, uno Enable DHC to disable this
ROUTER SETTINGS				If you have o
Use this section to configure the configured here is the IP Address If you change the IP Address here the network again.	that you use to	access the Web-based m	anagement interface.	your networ should alway fixed IP addr a DHCP Res for each suc
Router IP Address :	192.168.0.1			More
Subnet Mask :	255.255.255.0			
Device Name :	dlinkrouter			
Local Domain Name :		(optional)		
Enable DNS Relay :	V			
Enable DHCP Server : DHCP IP Address Range : DHCP Lease Time :	192. 1 68.0. 1 00	to 192.168.0.199		
ADD DHCP RESERVATION				
Enable :			2	
Computer Name :		<	er Name 💉	
IP Address :			to the second	
MAC Address :				
	Clone You	ır PC's MAC address		
	Save Clear			
DHCP RESERVATIONS LIST	Ĭ.			
Enable Computer Name	MAC Addre	ss IP Address	1	
DOCNBWINXPE	00:19:d2	8f:a0:2e 192.168	.0.100 📑 😭	
		14.1		
NUMBER OF DYNAMIC DHCF	CLIENTS:			
Hardware Address Assigned I	P Hostname	Expires		
00:19:d2:8f;a0:2e 192.168.0.1 28:e0:2c:dc:0a:be 192.168.0.1		PE Sun Jan 2 00:01:12 2 Sun Jan 2 00:05:07 2		

DHCP Reservation

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

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

Enable: Check this box to enable the reservation.

- **Computer** Enter a name for your computer. You can also use the **Name:** dropdown box to the right to select a currently connected computer, and then click the << button to automatically fill in the text boxes with your computer's information.
- IP Address: Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

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

- **Clone Your** You can click this button to automatically add the MAC **PC's MAC** address of the computer that you are currently using. **Address:**
 - Save: Click Save to save your DHCP reservation. You will still need to click Save Settings at the top of the screen to activate your DHCP reservations.

DHCP SERVER SETTINGS
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.
Enable DHCP Server : 🗵
DHCP IP Address Range: 192.168.0.100 to 192.168.0.199
DHCP Lease Time: 1440 (minutes)
ADD DHCP RESERVATION
Enable : 🗖

Enable :	
Computer Name :	Computer Name
IP Address :	
MAC Address :	
	Clone Your PC's MAC address
	Save Clear

DHCP This section shows your DHCP reservations. The list shows Reservations Computer Name, MAC Address, and IP address for each List: reservation.

Enable: Check to enable the reservation.

Edit: Click the edit icon (**S**) to make changes to the reservation entry.

Delete: Click to remove the reservation from the list.

Number of
DynamicThis section shows you all devices that have been assigned an
IP address. You can click the **Revoke** link for a device to revokeDHCP Clients:IP address, which will cut off the device's access to your
network. You can also click the **Reserve** link to automatically
fill in the **Add DHCP Reservation** form with that computer's
information.

Enable	Compute	er Name	MAC Address		IP Addres	s		
	DOC	NBWINXPE	00:19:d2:8f:	a0:2e	192.168	3.0.10	0 📑	15
NUMBER	OF DYNA	MIC DHCP C	LIENTS:					
NUMBER	OF DYNA	MIC DHCP C	LIENTS:					
		MIC DHCP C Assigned IP	LIENTS: Hostname	Expires	-			
Hardwa		Assigned IP		•	2 00:01:12	2011	Revoke	Reser

Media Server

This feature allows you to share music, pictures and videos with any devices connected to your network. After making your changes, click the **Save Settings** button.

Enable Media Check this box to enable the media server feature. Server:

Computer Enter the media server's name. **Name:**

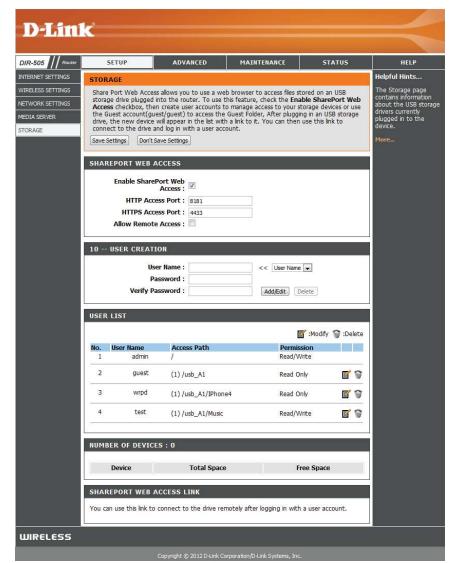
D-Lin	12				
DIR-505 Router	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
INTERNET SETTINGS	MEDIA SERVER				
WIRELESS SETTINGS			media with DLNA certified can play your shared musi		
NETWORK SETTINGS	videos.	connect to your network	can play your shared musi	c, piccures, and	
MEDIA SERVER					
STORAGE	only on secure netwo		llowing any devices to stre	am is recommended	
	DLNA MEDIA SERV	ER			
	Enable DLNA Medi Media Serv	a Server : 🗹 er Name : DIR-505			
WIRELESS					
		Copyright © 2012 D-Link C	orporation/D-Link Systems, Inc		

Storage

This page will allow you to access files from a USB external hard drive or thumb drive that is plugged into the DIR-505 from your local network or from the Internet using either a web browser or the SharePort Mobile app for your smartphone or tablet. You can create users to customize access rights to the files stored on the USB drive. After making your changes, click the **Save Settings** button.

Enable Tick this checkbox to enable sharing files stored on a USB **Shareport** storage drive connected to the DIR-505. **Web Access:**

- HTTP Access Enter a port to use for HTTP web access to your files Port: (8181 is the default). You will have to add this port to the IP address of the DIR-505 when connecting. For example: http://192.168.0.1:8181
- HTTPS Access Enter a port to use for HTTPS secure access to your Port: files (4433 is the default). You will have to add this port to the IP address of the DIR-505 when connecting. For example: https://192.168.0.1:4433
- Allow Remote Check to enable remote access to your router's storage. Access:
 - **User Name:** To create a new user, enter a user name. To edit an existing user, use the dropdown box to the right.
 - Password/ Enter a password you want to use for the account, re-enterVerify the password in the Verify Password text box, then clickPassword: Add/Edit to save your changes.
 - User List: This section shows existing user accounts. There are **admin** and **guest** accounts by default.



Number of This section shows you information about the USB storage **Devices:** device plugged into the router.

SharePort This will give you a direct link to the web access interface **Web Access** that you can click on or copy and paste.

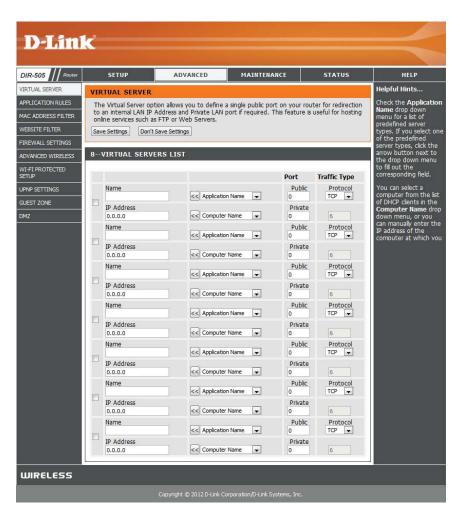
Link

DIA							
D-Lin							
DIR-505 Router		SETUP	ADVANCED	MAINTENANCE	STATUS		HELP
INTERNET SETTINGS	STOP		no minice o				Helpful Hints
WIRELESS SETTINGS NETWORK SETTINGS MEDIA SERVER STORAGE	Share stora Acce the C drive conn	e Port Web Acce ge drive plugged ss checkbox, th Guest account(gu , the new device ect to the drive	iss allows you to use a we into the router. To use t en create user accounts t uset/guest to access the awil appear in the list with and log in with a user acc Save Settings	his feature, check the En o manage access to your Guest Folder, After plugg n a link to it. You can ther	able SharePort V storage devices or ging in an USB stora	Veb use age	The Storage page contains information about the USB storage drivers currently plugged in to the device. More
	SHAR	REPORT WEB	ACCESS				
		HTTPS Act	Access : cess Port : 8181 cess Port : 4433 te Access :				
	10	USER CREAT	ION				
		U	ser Name :	<< User Nam	e 💌		
			Password :				
		Verity P	Password :	Add/Edit	Delete		
	USER	LIST					
					🛐 :Modify 🅤 :De	elete	
	No. 1	User Name admin	Access Path	Permi Read/\			
	2	guest	(1) /usb_A1	Read C		9	
	3	wrpd	(1) /usb_A1/IPhon	e4 Read C	Dnly 🗳	8	
	4	test	(1) /usb_A1/Music	Read/\	Write 📓	T	
	NUMI	BER OF DEVIC	CES:0				
		Device	Total Space		Free Space		
	SHAR	REPORT WEB	ACCESS LINK				
	You c	an use this link to	o connect to the drive rer	notely after <mark>logging in wit</mark>	h a user account.		
WIRELESS							
			Copyright © 2012 D-Link Co	prporation/D-Link Systems, In	с.		

Advanced Virtual Server

This will allow you to open a single port. If you would like to open a range of ports, refer to "Application Rules" on page 53. After making your changes, click the **Save Settings** button.

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



Application Rules

Some applications may require multiple connections, such as Internet gaming, video conferencing, and VoIP calls over the Internet. These applications may have difficulty working through NAT (Network Address Translation). Application Rules allow some of these applications work with the DIR-505. If you need to run applications that require multiple connections, specify the port normally associated with the application in the **Trigger Port** setting, select the protocol type as **TCP** or **UDP**, then enter the **Firewall** (public) ports associated with the trigger port to open them for inbound traffic. After making your changes, click the **Save Settings** button.

- **Name:** Enter a name for the rule or select an application from the drop-down menu and click << to automatically fill in the rule with the default settings for that application.
- **Trigger:** This is the port used to trigger the application. It can be either a single port or a range of ports.
- **Traffic Type:** Select the protocol of the trigger port (TCP, UDP, or Both).
 - **Firewall:** This is the port number on the Internet side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

Traffic Type: Select the protocol of the firewall port (TCP, UDP, or Both).

R-505 Router	SETUP	ADVAN	ICED	MAINTENA	NCE	STATUS	HELP
TUAL SERVER	APPLICATION R	ULES					Helpful Hints
PLICATION RULES	This option is used	to open single o	r multiple port	s on your route	er when the r	outer senses	Use this feature if yo are trying to execute
C ADDRESS FILTER	data sent to the In all computers on y			ort range. Spe	cial Applicatio	ns rules apply to	one of the listed
BSITE FILTER	Save Settings Do	on't Save Settings					and it is not communicating as
EWALL SETTINGS			_		_		expected.
VANCED WIRELESS	8 APPLICATI	ON RULES					Check the Applicati Name drop down
-FI PROTECTED					Port	Traffic Type	menu for a list of predefined applicatio
NP SETTINGS	Na	me	Appli << Applicatio	ration n Name 🗨	Trigger	TCP 💌	If you select one of t predefined applicatio
EST ZONE			Applicauo		Firewall	700	click the arrow butto next to the drop dow
Z						TCP 💌	menu to fill out the corresponding field.
	Na	ne	Appli Applicatio	n Name 💌	Trigger	TCP 💌	More
					Firewall	TCP 💌	
	Na	me	Appli	cation	Trigger	TCP 💌	
			<< Applicatio	n Name 💌	0 Firewall		
					0	TCP 💌	
	Na	me	Appli	cation n Name 👻	Trigger	TCP 💌	
					Firewall	TCP 💌	
	Na		Anoli	cation	0 Trigger		
			< Applicatio		0	TCP 💌	
					Firewall	TCP 💌	
	Na	me		cation	Trigger	TCP 💌	
			<< Applicatio	n Name 💌	0 Firewall		
					0	TCP 💌	
	Na	me	Appli	cation n Name 🛛 🔫	Trigger 0	TCP 💌	
					Firewall		

MAC Address Filter

Use MAC (Media Access Control) Filters to control access to your network based on the MAC addresses of connected clients. You can set MAC address filtering to only allow the listed MAC addresses to connect, or block access to all listed MAC addresses. After making your changes, click the **Save Settings** button.

Wireless Configure how MAC filtering works by using the dropdown **Access** box to select an option:

Settings:

Turn MAC Filtering OFF: This disables MAC filtering.

Turn MAC Filtering ON and ALLOW computers listed to access the network: When this option is selected, only PCs and devices with MAC addresses in the MAC Address List are granted network access. All other devices will be blocked.

Turn MAC Filtering ON and DENY computers listed to access the network: When this option is selected, all PCs and devices with MAC addresses in the MAC Address List will be refused access to your network. All other devices will be allowed access.

MAC Address: Enter the MAC addresses you would like to filter. You can select a client currently connected to your access point from the **Wireless Client List** drop-down menu and then click the corresponding << button fill in the MAC address automatically. Click the Clear button to remove any entered MAC address.

DIR-505 Router	SETUP	ADVANCED	MAINTE	NANCE	STATUS	HELP
IRTUAL SERVER	MAC ADDRESS FIL	TER				Helpful Hints
PPLICATION RULES	The MAC (Media Acces					Create a list of MAC
AC ADDRESS FILTER	based on the MAC Add the manufacturer of the	dress of the network	rk adapter. A MAC a	ddress is a unio	ue ID assigned by	address that you wou either like to allow or
EBSITE FILTER	network/Internet acce					deny access to your network.
REWALL SETTINGS	Save Settings Don't S	Save Settings				Select a MAC address
DVANCED WIRELESS						from the drop down menu, then click the
1-FI PROTECTED	WIRELESS ACCESS	SETTINGS				arrow to add that MA
TUP	Configure MAC Filtering	below:		1000		adddress to the list.
INP SETTINGS	Turn MAC Filtering OFF			-		Click the Clear butto to remove the MAC
JEST ZONE	1					address from the MA Filtering list.
4Z	MAC Address		Wireless Client L	ist		racening ase.
	00:00:00:00:00:00	<<	MAC Address	*	Clear	
	00:00:00:00:00:00	<<	MAC Address	4	Clear	
	00:00:00:00:00:00	<<	MAC Address	*	Clear	
	00:00:00:00:00:00	<<	MAC Address	-	Clear	
	00:00:00:00:00:00	<<	MAC Address	*	Clear	
	00:00:00:00:00:00	<<	MAC Address	*	Clear	
	00:00:00:00:00:00	<<	MAC Address	*	Clear	
	00:00:00:00:00:00	<<	MAC Address	*	Clear	

Website Filters

Website Filters are used to allow you to set up a list of websites to either allow or block access to. After making your changes, click the **Save Settings** button.

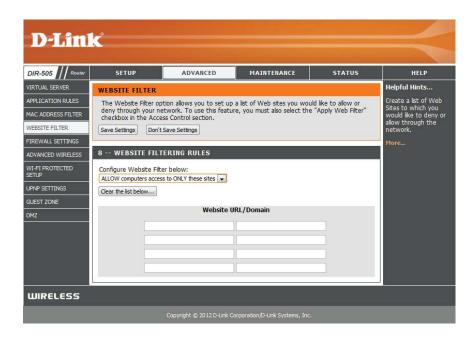
Website Configure how website filtering works by using the **Filtering** dropdown box to select an option:

Rules:

DENY computers access to ONLY these sites: When this option is selected, all PCs and devices on your network will be blocked access to the websites specified All other websites will be allowed access.

ALLOW computers access to ONLY these sites: When this option is selected, all PCs and devices on your network will only be allowed to access to the websites specified. All other websites will be blocked.

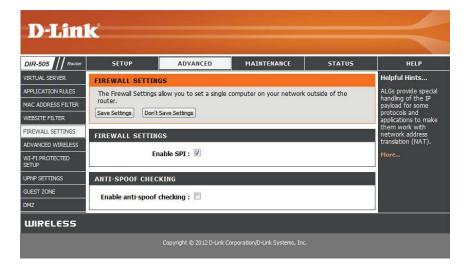
Website URL/ Enter the websites you want to block or allow in the text Domain: boxes. Any website address that contains the text entered will be blocked.



Firewall Settings

Enabling the SPI firewall and anti-spoof checking helps protect against attacks over the Internet. In some cases, you may want to disable them if you are having problems getting certain applications to work. After making your changes, click the **Save Settings** button.

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



Advanced Wireless

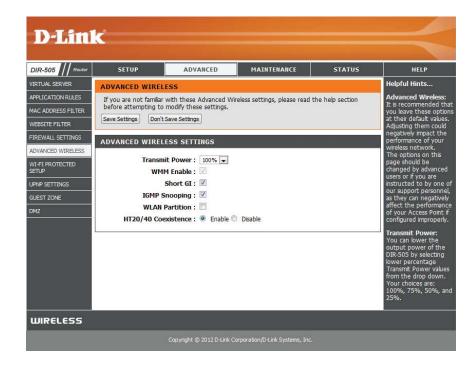
This screen allows you to set various advanced wireless settings of your DIR-505. Unless you are experiencing specific problems, it is recommended that you leave these settings at their default values. After making your changes, click the **Save Settings** button.

- **Transmit** Use the dropdown box to set the transmit power of the **Power:** antennas.
- **WMM Enable:** WMM is Quality of Service(QoS) for your wireless network. This will improve the quality of video and voice applications for your wireless clients.
 - **Short GI:** Check this box to reduce the guard interval time therefore increasing the data capacity. However, this may create a less reliable connection and may create higher data loss.

IGMP Tick this checkbox to enable this feature. **Snooping:**

WLAN This enables 802.11d operation. 802.11d is a wireless Partition: specification developed to allow implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.

HT 20/40 Tick this checkbox to enable this feature. **Coexistence:**



Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) System is a simplified way to set up the basic settings of the DIR-505. It can also be used to automatically create a secure wireless connection to a wireless client. After making your changes, click the **Save Settings** button.

Enable: Check this box to enable the WPS functions of the DIR-505.

- Disable WPS Disabling this will disable the WPS PIN method of connection PIN Method: and configuration. If you want to reconfigure the router using the WPS PIN method, click on the **Reset to Unconfigured** button. You will still be able to add wireless clients through WPS.
- PIN Settings: Shows the router's current PIN. You can reset it to the default value by clicking on the **Reset PIN to Default** button, or you can create a new PIN number by clicking on the **Generate** New PIN button.
- Add Wireless Here, you can click on the Add Wireless Device With WPS Station: button to go through a wizard that helps you connect other devices through WPS.

0IR-505 Router	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
RTUAL SERVER	WI-FI PROTECTED S	ETUP			Helpful Hints
PPLICATION RULES AC ADDRESS FILTER EBSITE FILTER REWALL SETTINGS DVANCED WIRELESS	Devices must support V If the PIN changes, the Clicking on "Don't Save However, if the new PI	Vi-Fi Protected Setup in new PIN will be used i Settings" button will no	vices to a network using a P order to be configured by n following WI-FI Protected bt reset the PIN. It lost when the device rebu	this method. Setup process.	Enable if other wirely devices you wish to include in the local network support WH Protected Setup. Only "Admin" accoun can change security settings.
I-FI PROTECTED TUP PNP SETTINGS JEST ZONE MZ	WI-FI PROTECTED S	Enable : 🗹	onfigured		Click Add Wireless Device Wizard to us Wi-Fi Protected Setu to add wireless device to the wireless network. More
	PIN SETTINGS				1
	Curr	ent PIN: 57893402 Reset PIN to	Default Generate New PIN]	
	ADD WIRELESS STA	TION			
		Add Wireless	Device With WPS		

UPnP Settings

This page allows you to enable UPnP, which can help provide compatibility with some networking equipment, software, and peripherals. After making your changes, click the **Save Settings** button.

Enable UPnP: To use the Universal Plug and Play (UPnP[™]) feature tick the **Enabled** checkbox.



Guest Zone

The Guest Zone feature will allow you to create a separate wireless network that can be used by guests to access the Internet. These zones will be separate from your main wireless network, allowing you to share Internet access without allowing them to connect to your own devices. After making your changes, click the **Save Settings** button.

Enable Guest Tick this checkbox to enable the Guest Zone feature. Zone:

Add New Select when the Guest Zone will be active. The schedule may Schedule: be set to Always, which will allow the Guest Zone to be on at all times. You can select a schedule you created, or you can click the Add New Schedule button to create a schedule.

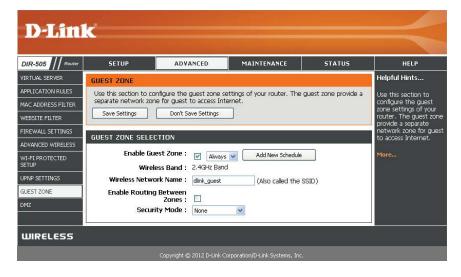
Wireless Enter a wireless network name (SSID) for your guest zone.Network It should be different than the network name of your mainName: wireless network.

Enable Check to allow network connectivity between the Guest **Routing** Zone and your main network.

Between

Zones:

Security Here, you can select between None, WEP, WPA-Personal, Mode: and WPA-Enterprise. Refer to "Wireless Settings" on page 39 for information on how to configure the different security modes.



DMZ

Enabling DMZ allows you to set a single PC or network device to "be exposed" outside of the router and have unrestricted Internet access. It is not recommended for normal use, and should only be used if you need this feature for a specific reason. After making your changes, click the **Save Settings** button.

Enable DMZ: Check the box to enable DMZ.

- **DMZ IP** Enter the IP address of the device on your network you want
- Address: to place in the DMZ. You can use the dropdown box to select a device, then click the << button to automatically fill in the IP address of that device.



Maintenance Admin

This page will allow you to change the password for the administrator account for configuring the settings of the DIR-505. You can also turn on graphical authentication (CAPTCHA) on this page. After making your changes, click the **Save Settings** button.

Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

Verify Enter the same password that you entered in the previous **Password:** textbox in order to confirm its accuracy.

Enable Check to enable Graphical Authentication, or CAPTCHAsGraphical when logging in to the web UI of the DIR-505. This providesAuthentication: an extra layer of security by requiring you to enter a code that is displayed on-screen.

- Enable HTTPS Check to enable HTTPS when connecting to the router for Server: configuration. When enabled, you will need to enter https:// to connect to the DIR-505. For example: https://dlinkrouter
- **Enable Remote** Remote management allows the DIR-505 to be configured over **Management:** the Internet through a web browser. A username/password is still required to access the configuration interface.
- **Remote Admin** This is the port that will be used to access the DIR-505 **Port:** configuration interface when using remote management. You will need to add this port number after the IP address.

Example: **http://x.x.x.8080** where x.x.x.x is the IP address of the DIR-505 and 8080 is the remote admin port.



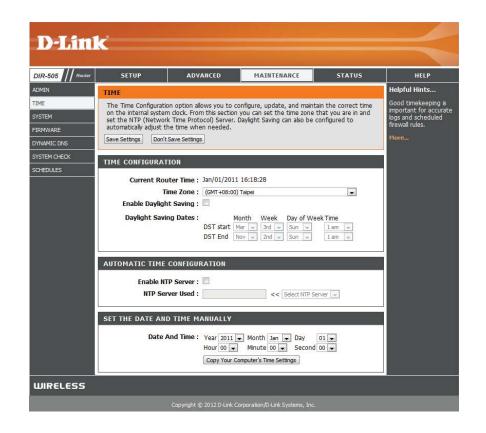
Time

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in. Daylight Saving can also be configured to automatically adjust the time when needed. After making your changes, click the **Save Settings** button.

Time Zone: Select the Time Zone from the drop-down menu.

Enable To select Daylight Saving time manually, click the Enable
Daylight Daylight Saving check box. Next use the drop-down menu
Saving: to select a Daylight Saving Offset and then enter a start date and an end date for daylight saving time.

- **Enable NTP** NTP is short for Network Time Protocol. NTP synchronizes **Server:** computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.
- NTP Server Enter the NTP server or select one from the drop-down Used: menu.
 - Date and To manually input the time, enter the values in these fields
 Time: for the Year, Month, Day, Hour, Minute, and Second and then click Save Settings. You can also click the Copy Your
 Computer's Time Settings button at the bottom of the screen.



System

This page allows you to save and restore your configuration, reset and reboot the DIR-505, and remove any added language packs.

Save Settings Clicking the Save button will allow you to save the current
 To Local Hard repeater configuration settings to a file on the hard disk of
 Drive: the computer you are using. You will then see a file dialog where you can select a location and file name for the settings.

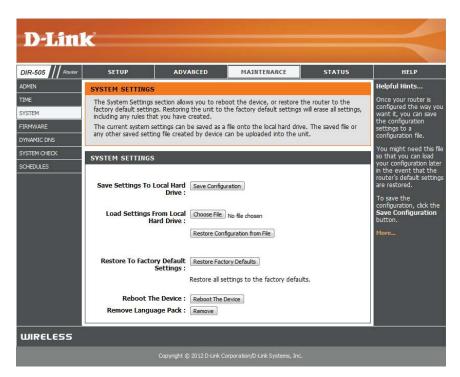
Load Settings Use this option to load previously saved configuration From Local settings. Click Browse to find a previously saved configuration Hard Drive: file. Then, click the Upload Settings button to transfer those settings to the DIR-505.

Restore This option will restore all configuration settings back to the to Factory factory default settings. Any settings that have not been Default saved will be lost, including any rules that you have created.
Settings: If you want to save your current configuration settings, use the Save button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

Reboot the Click the Reboot button to reboot the repeater. Device:

Remove If you have previously installed a Language Pack, you can Language remove it by clicking the Remove button. Pack:



Firmware

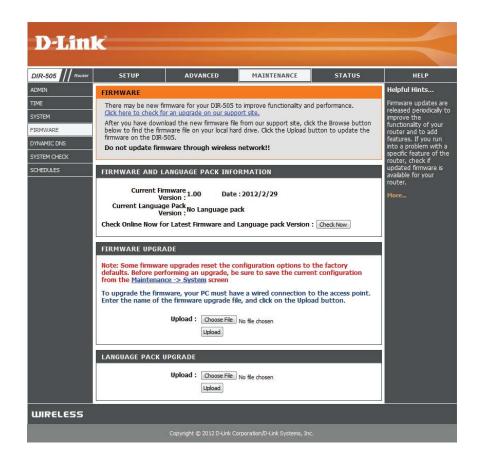
You can upgrade the firmware of the DIR-505 here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support website for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from this site.

Firmware Click on **Check Now** to find out if there is an updated **Upgrade:** firmware; if so, download the new firmware to your hard drive.

After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade. Do not disconnect from the DIR-505 or power your computer or DIR-505 off during the upgrade process.

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

Browse: Download a language pack from the D-Link website. After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.



Dynamic DNS

The DDNS feature allows you to host a server (Web, FTP, Game Server, etc...) behind your DIR-505 using a domain name that you have purchased (**www.whateveryournameis.com**) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter in your domain name to connect to your server no matter what your IP address is. After making your changes, click the **Save Settings** button.

Enable Tick the checkbox to enable DDNS. Dynamic DNS:

Server Enter the DDNS server address, or select your DDNS service **Address:** from the drop-down menu and click the << button to automatically fill in the address for the DDNS service.

- Host Name: Enter the Host Name that you registered with your DDNS service provider.
- Username or Enter the Username or key for your DDNS account. Key:
- Password or Enter the Password or key for your DDNS account. Key:
 - **Timeout:** Enter a timeout time (in hours).
 - Status: This displays the DDNS server update status.

R-505 Router	SETUP	ADVANCED	MAINT	NANCE	STATUS	HELP	
MIN	DYNAMIC DNS	Helpful Hints					
E TEM MWARE IAMIC DNS TEM CHECK TEM CHECK	The DDNS feature allows yo name that you have purcha IP address. Nost broadband Using a DDNS service provid server no matter what you Sign up for D-Link's Free DD (Save Settings) Don't Save DYNAMIC DNS	To use this featury you must first hav Dynamic DNS acco from one of the providers in the d down menu. More					
	Enable Dynamic						
		iress : dlinkddns.con	۱ <-	Select Dyna	amic DNS Server 💌		
	Host N Username or				_		
	Password or						
	Verify Password or	Key :					
	Time	eout: 576	(hours)				
	Status : Disconnected						

System Check

This page allows you to run a ping test to check your Internet connectivity.

Ping Test: The Ping Test is used to send ping packets to test if your DIR-505 is connected to the Internet. Enter the IP address that you wish to ping and click the **Ping** button.

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

D-Link									
DIR-505 A Router	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP				
ADMIN	PING TEST	Helpful Hints "Ping" checks whether a computer on the Internet is running and responding.Enter either the IP address of the target computer or enter its fully qualified domain name. Hore							
TIME	Ping Test sends "pir								
SYSTEM									
FIRMWARE	PING TEST								
DYNAMIC DNS	Host								
SYSTEM CHECK									
SCHEDULES	PING RESULT								
_									
WIRELESS									
		Copyright © 2012 D-Link (Corporation/D-Link Systems, Inc	4					

Schedules

You can create schedules for use with some of the features of the DIR-505, which will allow those features to be active during certain times of the day or week.

Name: Enter a name for your new schedule.

- **Days:** Select a day, a range of days, or All Week to include every day of the week.
- Time format: Check All Day 24hrs or enter a start and end times for your schedule.
 - Save: After entering the details of your schedule, click the Save button to save your changes.
 - Schedule The list of created schedules will be listed here. Click the Edit Rules List: icon to make changes or click the Delete icon to remove the schedule.



Status Device Info

This page displays the current information for the DIR-505. It will display the LAN and wireless LAN information.

General: Displays the time and firmware version.

- WAN Displays information about the connection to your modem or Internet connection.
- LAN: Displays the MAC address and the private (local) IP settings for the access point.
- Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

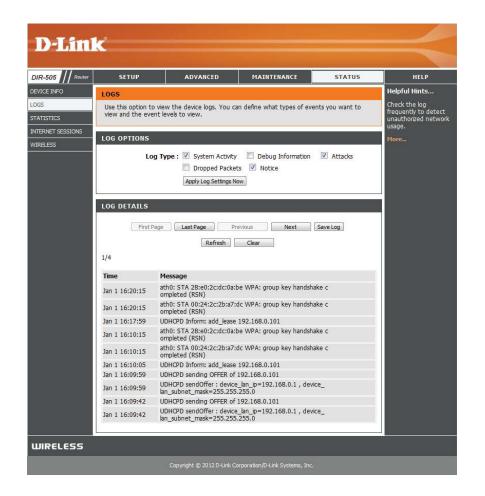
LAN Displays information about the devices on your local Computers: network.

D-Lini						
	~					
DIR-505 // Router	SETUP	ADVAN	ICED	MAINTENANCE	STATUS	HELP
EVICE INFO	DEVICE INFORMATI	DN				Helpful Hints
OGS TATISTICS		network cor	nection deta	ails are displayed on this pa	age. The firmware	All of your WAN and LAN connection details are displayed here.
NTERNET SESSIONS	GENERAL					More
WIRELESS	and the second	Up Time: 0				
	WAN					1
	Connectio					
	Network					
	Connection					
	MAC					
	Subn					
	Default G					
	Primary DNS					
	Secondary DNS					
	LAN					
	MAC					
	IP					
		et Mask : 2: Server : El		J		
	WIRELESS LAN					
		is Radio : El I s Mode : M		n, 802.11g and 802.11b		
		Width: A	uto 20/40 M	Hz		
		Channel: 1		2009-084		
	Wi-Fi Protected	1 Setup : E	nable / Confi	gured		
	Network Name (SSID)	Guest	MAC Address	Security Mode	
	MobileCompanion-Claire		No	00:18:e7:95:6d:c8	WPA/WPA2 - Personal	
	LAN COMPUTERS					

Logs

The DIR-505 keeps a running log of events and activities occurring on the DIR-505. If the DIR-505 is rebooted, the logs are automatically cleared.

- Log Options: There are several types of logs that can be viewed: System Activity, Debug Information, Attacks, Dropped Packets and Notice.
 - First Page: This button directs you to the first page of the log.
 - Last Page: This button directs you to the last page of the log.
 - Previous: This button directs you to the previous page of the log.
 - **Next:** This button directs you to the next page of the log.
 - Clear: This button clears all current log content.
 - **Save Log:** This button opens dialog where you can save the current log to your hard drive.
 - **Refresh:** This button refreshes the log.



Statistics

The DIR-505 keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. Click the **Refresh Statistics** button to update the information, or click the **Clear Statistics** button to reset all statistics. The traffic counter will reset if the DIR-505 is rebooted.

R-505 Router	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
/ICE INFO	TRAFFIC STATISTICS	ĥ			Helpful Hints
as Atistics	Contraction of the second	eceive and Transmit Statistics	packets passing through your	router.	This is a summan the number of p that have passed between the W
ERNET SESSIONS	LAN STATISTICS				the LAN since th router was last initialized.
		Sent: 36024	Received	1: 10247	More
	TX Packets Drop	Contraction of the second s	RX Packets Dropped	1:0	
	Collis	ions: 0	Errors	s: 0	
	WAN STATISTICS				
		Sent: 0	Received	I: 0	
	TX Packets Drop	oped: 0	RX Packets Dropped	I: 0	
	Collis	ions: 0	Error	;: <mark>0</mark>	
	WIRELESS STATISTIC	CS			
		Sent: 23499	Received	: 10250	
	TX Packets Drop	ped: 17703	RX Packets Dropped	1:0	
	Collis	ions: 0	Errors	;: 0	

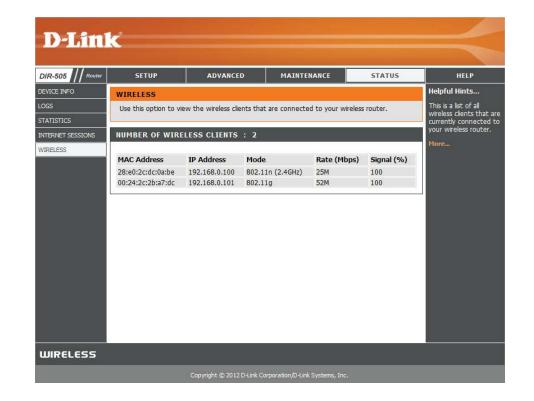
Internet Sessions

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

D-Lin	k							\prec
DIR-505 A Router	SE	TUP	ADV/	ANCED	MAINTENAN	CE	STATUS	HELP
DEVICE INFO	INTERN	INTERNET SESSIONS						
LOGS	This page displays the full details of active internet sessions to your router.							This is a list of all active conversations between
STATISTICS	· · · · ·							WAN computers and
INTERNET SESSIONS	INTERN	IET SESS	SIONS					LAN computers.
WIRELESS	1		New York Construction					More
	Local	NAT	Internet	Protocol	State	Dir	Time-Out	
WIRELESS								
			Copyright ©	2012 D-Link Corpo	ation/D-Link Syst	tems, Inc.		

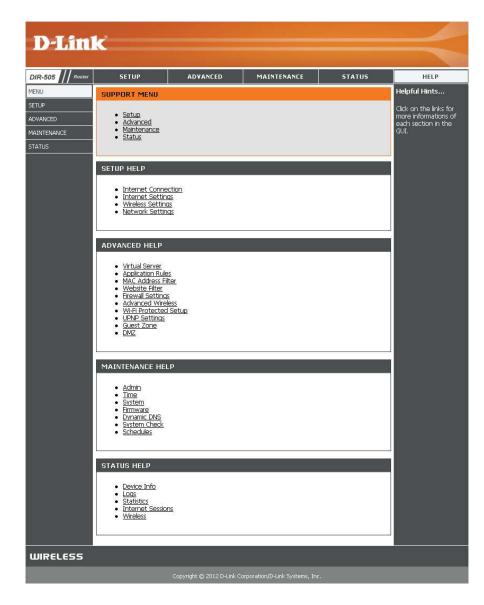
Wireless

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



Help

This screen gives you more information about the various parts of the configuration interface. Click on a link to learn more about that topic.



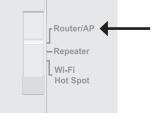
Access Point Mode

This section describes the configuration interface for Access Point mode. Make sure that the mode selector switch is in the Router/ AP position on your DIR-505.

If this is your first time configuring the DIR-505, open your web browser and type **http://dlinkrouter** in the address bar. You will automatically be directed to the **Wizard Setup Screen**. For more information, refer to "Initial Setup Wizard (Router/AP Mode)" on page 15.

If the Setup Wizard does not appear, type **http://dlinkrouter** in the address bar.

Otherwise, the main configuration screen will appear. If the DIR-505 is in Router mode, you will need to click on **Manual Internet Connection Setup**, select **Access Point** for your **Operation Mode**, then click the **Save Settings** button to switch to Access Point mode.





DIR-505 Router	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ITERNET SETTINGS	INTERNET CONNEC	Helpful Hints If you are new to networking and have never configured a router before, cick on Internet Connection Setup Wizard and the router will guide you through a few simple steps to get your network up and running.			
IRELESS SETTINGS	There are two ways t Connection Setup Wi				
DIA SERVER	INTERNET CONNEC				
ORAGE	If you would like to uti new D-Link Router to t				
	Note: Before launching the Quick Installation G	If you consider yourse an advanced user and have configured a router before, click Manual Internet			
	MANUAL INTERNET	CONNECTION OPTI	ons		Connection Setup
	If you would like to con click on the button bel	ow.	ings of your new D-Link Ro Connection Setup	uter manually, then	manually.

Setup Setup Wizard

If you want to configure the Access Point Mode of the DIR-505 using a wizard, click **Launch Wireless Setup Wizard**.

To configure your DIR-505 manually, click **Wireless Setup** to configure your wireless connection or click **LAN Setup** to configure the LAN options. Each section is detailed in the following pages.

DIR-505 AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
SETUP WIZARD	WIRELESS CONNI	Helpful Hints			
	DIR-505 to the wire Note: Some changes	less network, click on the Launch Wirele	b-based wizard to assist you button below. ss Setup Wizard fizard may require you to chi- nanect to the D-Link Access	ange some settings on	networking and have never configured an access point before, click on Launch Setu Wizard and the acces point will guide you through a few simple steps to get your network up and running.

Wireless Setup

Here, you can configure the wireless network settings of the DIR-505. After making your changes, click the **Save Settings** button.

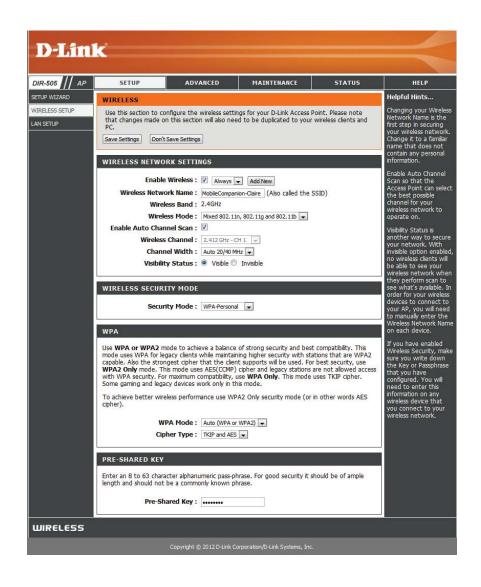
Enable Check the box to enable the wireless function. If you do **Wireless:** not want to use wireless, uncheck the box to disable all the wireless functions. You may also set up a specific time range (schedule). Select a schedule from the drop-down menu or click **Add New** to create a new schedule.

Wireless When you are browsing for available wireless networks, this
 Network is the name that will appear in the list (unless Visibility Status
 Name: is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

Wireless Select one of the following based on your needs: Mode:

- **802.11b Only**: Select this if you are only using 802.11b wireless clients.
- **802.11g Only**: Select this if you are only using 802.11g wireless clients.
- **802.11n Only**: Select this if you are only using 802.11n wireless clients.
- Mixed 802.11g and 802.11b: Select this if you are using a mix of 802.11g and 11b wireless clients.
- Mixed 802.11n and 802.11g: Select this if you are using a mix of 802.11n and 11g wireless clients.
- Mixed 802.11n, 802.11g and 802.11b: Select this if you are using a mix of 802.11n, 11g, and 11b wireless clients.

Enable Auto The **Auto Channel Scan** setting can be selected to allow **Channel Scan:** the DIR-505 to choose the channel with the least amount of interference.



- Wireless Indicates the channel setting for the DIR-505. The Channel Channel: can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Scan, this option will be grayed out.
- Channel Select whether to use Auto 20/40 MHz or 20 MHz for the
 Width: channel width. Normally, this should be left on Auto 20/40
 MHz. If you are not using any 802.11n wireless clients, you can set this to 20 MHz.
- Visibility This setting controls whether the router's wireless network Status: name(SSID) will be broadcast so that wireless devices can scan for it. If you set it to Invisible, all wireless clients will need to enter the network name and security settings of your wireless network manually.
- Wireless Here, you can select between None, WEP, WPA-Personal,Security and WPA-Enterprise. Refer to the following pages for detailsMode: on configuring the different security modes.

Enable Wireless :	Always V Add New
Wireless Network Name :	MobileCompanion-Claire (Also called the SSID)
Wireless Band :	2.4GHz
802.11 Mode :	Mixed 802.11n, 802.11g and 802.11b 💌
Enable Auto Channel Scan :	
Wireless Channel :	2.412 GHz - CH 1 🔽 (Domain:United Status)
Channel Width :	Auto 20/40 MHz 💌
Visibility Status :	💿 Visible 🔘 Invisible

WIRELESS SECURITY MODE

Security Mode : 🛛 WPA-Personal 🛛 👻

Section 4 - Access Point Mode

If you select **WEP** as your Security Mode: WIRELESS SECURITY MODE **WEP Key** Select an encryption level and key length to use. This will Security Mode : WEP -**Length:** also set the type and length of the key you will need to enter. WEP WEP Key: Enter the password(key) for your wireless network. It will WEP is the wireless encryption standard. To use it you must enter the same key(s) into the need to match the requirements for the WEP Key Length router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number selected above. from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled. You may also enter any text string into a WEP key box, in which case it will be converted into a **Authentication:** Choose what Authentication type to use. hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys. If you choose the WEP security option this device will ONLY operate in Legacy Wireless mode (802.11B/G). This means you will NOT get 11N performance due to the fact that WEP is not supported by the Draft 11N specification. WEP Key Length: 64 bit (10 hex digits) (length applies to all keys) WEP Key 1: Authentication : Both • If you select **WPA-Personal** as your Security Mode: WIRELESS SECURITY MODE WPA Mode: Select whether to use WPA, WPA2, or both WPA and WPA2 Security Mode : WPA-Personal for your wireless network.. WPA Cipher Type: Choose whether to use TKIP, AES, or both TKIP and AES Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This ciphers for your wireless network. mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. **Pre-Shared** Enter the password(key) for your wireless network. Some gaming and legacy devices work only in this mode. Key: To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher). WPA Mode : Auto (WPA or WPA2) Cipher Type : TKIP and AES PRE-SHARED KEY Enter an 8 to 63 character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key :

If you select WPA-Enterprise as your Security Mode:

WPA Mode: Select whether to use WPA, WPA2, or both WPA and WPA2 for your wireless network..

- Cipher Type: Choose whether to use TKIP, AES, or both TKIP and AES ciphers for your wireless network.
- Pre-Shared Enter the password(key) for your wireless network. Key:

RADIUS Enter your RADIUS server IP address. Server IP Address:

RADIUS Enter your RADIOS server port. Server Port:

RADIUS Enter your RADIUS server shared secret. Server Shared Secret:

	WIRELESS SECURITY MODE
A2	Security Mode : WPA-Enterprise 💌
	WPA
ES	Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.
	To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).
	WPA Mode : Auto (WPA or WPA2)
	Cipher Type : TKIP and AES
	EAP (802.1X)
	When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server.
	RADIUS Server IP Address : 0.0.0.0
	RADIUS Server Port: 1812
	RADIUS Server Shared Secret :

Advanced

LAN Setup

Here, you can configure the network settings of the DIR-505. After making your changes, click the **Save Settings** button.

Operation This should be set to Access Point mode. If you want to Mode: use Router mode, select Router mode and click the Save Settings button to switch to the Router configuration interface. For more information, refer to "Router Mode" on page 25.

Device Name: Enter a name for the DIR-505.

My LAN Select whether you want to connect your DIR-505 to your **Connection** network through **Dynamic IP (DHCP)** or **Static IP**.

is:

If you selected **Static IP**, fill in the **IP Address**, **Subnet Mask**, **Gateway Address**, and **Primary** and **Secondary DNS Server** addresses. If you are not sure what settings to use, please contact your network administrator or Internet service provider.

D-Lini	K				
DIR-505 // AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
SETUP WIZARD	NETWORK SETTINGS				Helpful Hints
WIRELESS SETUP	protocol. You can enter t instead of IP address for more than one D-Link de Save Settings Don't Save OPERATION MODE SE	to configure this devic the device name of t configuration. Recom vices within the subn e Settings STTING Mode : Access Point	e more easily when your in the AP into your web brow mend to change the device et.	ser to access the re name if there're	Device Name: Device Name allows you to configure this device more easily when your network using TCP/IP protocol. You can enter the device name of the AP into your web browser to access the device configuration. Recommend to change the device name if therer re more than one D-Link devices within the network. LAN Settings: Also referred as private setting. LAN setting.
	http://dlinkrouter) Device LAN IPV4 CONNECTIO Choose the IPv4 mode	Name : dlinkrouter	Access Point.	enaule:	settings. LAN settings allow you to configure LAN interface of DIR- 505. LAN IP address is private to your internal network and is not visible to Internet. The factory default setting is Dynamic IP(DHCP).
	DYNAMIC IP(DHCP) L		ТҮРЕ		
	Enter the IPv4 Address				
	and the second sec	dress: 192,168.0.1			
	1000	Mask: 255.255.255. dress: 0.0.0.0	U		
	increase and second	erver: 0.0.0.0			
	Secondary DNS S				
WIRELESS					2
		pyright © 2012 D-Link C	orporation/D-Link Systems, In		

Advanced MAC Address Filter

Use MAC (Media Access Control) Filters to control access to your network based on the MAC addresses of connected clients. You can set MAC address filtering to only allow the listed MAC addresses to connect, or block access to all listed MAC addresses. After making your changes, click the **Save Settings** button.

Wireless Configure how MAC filtering works by using the dropdown Access box to select an option:

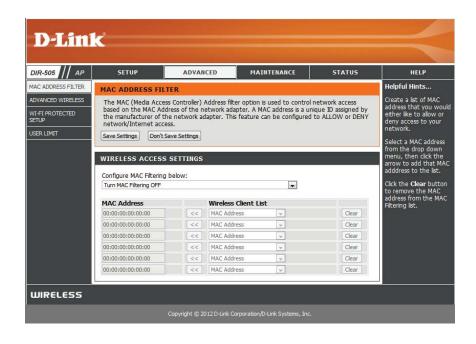
Settings:

Turn MAC Filtering OFF: This disables MAC filtering.

Turn MAC Filtering ON and ALLOW computers listed to access the network: When this option is selected, only PCs and devices with MAC addresses in the MAC Address List are granted network access. All other devices will be blocked.

Turn MAC Filtering ON and DENY computers listed to access the network: When this option is selected, all PCs and devices with MAC addresses in the MAC Address List will be refused access to your network. All other devices will be allowed access.

MAC Address: Enter the MAC addresses you would like to filter. You can select a client currently connected to your access point from the **Wireless Client List** drop-down menu and then click the corresponding << button fill in the MAC address automatically. Click the Clear button to remove any entered MAC address.



Advanced Wireless

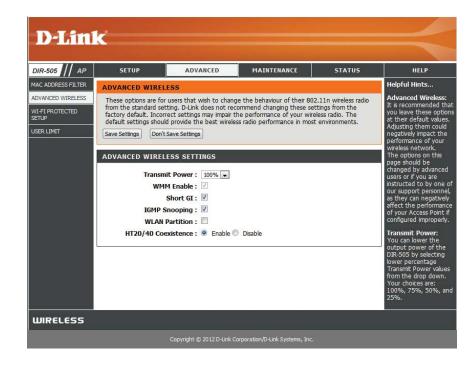
This screen allows you to set various advanced wireless settings of your DIR-505. Unless you are experiencing specific problems, it is recommended that you leave these settings at their default values. After making your changes, click the **Save Settings** button.

- **Transmit** Use the dropdown box to set the transmit power of the **Power:** antennas.
- **WMM Enable:** WMM is Quality of Service(QoS) for your wireless network. This will improve the quality of video and voice applications for your wireless clients.
 - **Short GI:** Check this box to reduce the guard interval time therefore increasing the data capacity. However, this may create a less reliable connection and may create higher data loss.

IGMP Tick this checkbox to enable this feature. **Snooping:**

WLAN This enables 802.11d operation. 802.11d is a wireless Partition: specification developed to allow implementation of wireless networks in countries that cannot use the 802.11 standard. This feature should only be enabled if you are in a country that requires it.

HT 20/40 Tick this checkbox to enable this feature. Coexistence:

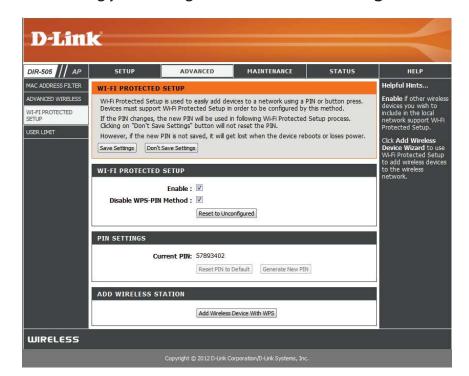


Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) System is a simplified way to set up the basic settings of the DIR-505. It can also be used to automatically create a secure wireless connection to a wireless client. After making your changes, click the **Save Settings** button.

Enable: Check this box to enable the WPS functions of the DIR-505.

- Disable WPS Disabling this will disable the WPS PIN method of connection PIN Method: and configuration. If you want to reconfigure the router using the WPS PIN method, click on the **Reset to Unconfigured** button. You will still be able to add wireless clients through WPS.
- PIN Settings: Shows the router's current PIN. You can reset it to the default value by clicking on the **Reset PIN to Default** button, or you can create a new PIN number by clicking on the **Generate** New PIN button.
- Add Wireless Here, you can click on the Add Wireless Device With WPS Station: button to go through a wizard that helps you connect other devices through WPS.

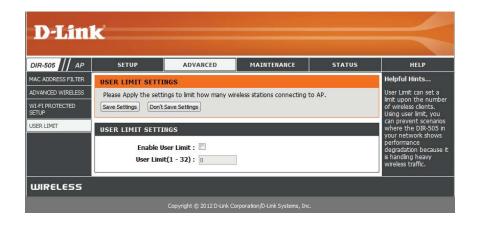


User Limit

You can limit the number of wireless clients that can connect to your wireless network. Doing so can help prevent the DIR-505 from being overloaded trying to provide service to too many clients, and helps ensure your wireless network runs smoothly. After making your changes, click the **Save Settings** button.

Enable User Check this box to enable the User Limit feature. Limit:

User Limit After enabling User Limits, enter the maximum number (1-32): of wireless clients that can be connected to your wireless network. You can enter a number from 1 to 32.



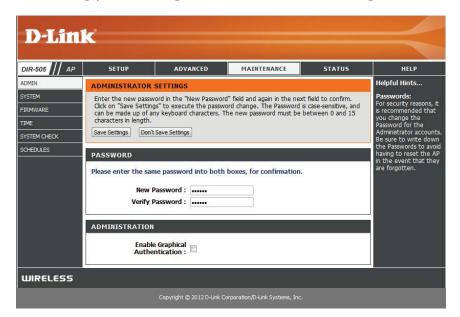
Maintenance Admin

This page will allow you to change the password for the administrator account for configuring the settings of the DIR-505. You can also turn on graphical authentication (CAPTCHA) on this page. After making your changes, click the **Save Settings** button.

New Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

Verify Enter the same password that you entered in the previous **Password:** textbox in order to confirm its accuracy.

Enable Check to enable Graphical Authentication, or CAPTCHAsGraphical when logging in to the web UI of the DIR-505. This providesAuthentication: an extra layer of security by requiring you to enter a code that is displayed on-screen.



System

This page allows you to save and restore your configuration, reset and reboot the DIR-505, and remove any added language packs.

Save Settings Clicking the Save button will allow you to save the current
 To Local Hard repeater configuration settings to a file on the hard disk of
 Drive: the computer you are using. You will then see a file dialog where you can select a location and file name for the settings.

Load Settings Use this option to load previously saved configuration From Local settings. Click Browse to find a previously saved configuration Hard Drive: file. Then, click the Upload Settings button to transfer those settings to the DIR-505.

Restore This option will restore all configuration settings back to the to Factory factory default settings. Any settings that have not been Default saved will be lost, including any rules that you have created.
Settings: If you want to save your current configuration settings, use the Save button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

Reboot the Click the Reboot button to reboot the repeater. Device:

Remove If you have previously installed a Language Pack, you can Language remove it by clicking the Remove button. Pack:



Firmware

You can upgrade the firmware of the DIR-505 here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support website for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from this site.

Firmware Click on **Check Now** to find out if there is an updated **Upgrade:** firmware; if so, download the new firmware to your hard drive.

After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade. Do not disconnect from the DIR-505 or power your computer or DIR-505 off during the upgrade process.

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

Browse: Download a language pack from the D-Link website. After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.



Time

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in. Daylight Saving can also be configured to automatically adjust the time when needed. After making your changes, click the **Save Settings** button.

Time Zone: Select the Time Zone from the drop-down menu.

Enable To select Daylight Saving time manually, click the Enable
Daylight Daylight Saving check box. Next use the drop-down menu
Saving: to select a Daylight Saving Offset and then enter a start date and an end date for daylight saving time.

- **Enable NTP** NTP is short for Network Time Protocol. NTP synchronizes **Server:** computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.
- NTP Server Enter the NTP server or select one from the drop-down Used: menu.
 - Date and To manually input the time, enter the values in these fields
 Time: for the Year, Month, Day, Hour, Minute, and Second and then click Save Settings. You can also click the Copy Your
 Computer's Time Settings button at the bottom of the screen.



System Check

This page allows you to run a ping test to check your Internet connectivity.

The Ping Test is used to send ping packets to test if your DIR-505 is connected to the Internet. Enter the IP address that you wish to ping and click the **Ping** button.

The results of your ping attempts will be displayed here.

D-Lin	2				
DIR-505 // AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN	PING TEST	Helpful Hints			
SYSTEM	Ping Test sends "pin	"Ping" checks whether a computer on the Internet is running and responding.Enter either the IP address of the target computer or enter its fully qualified			
FIRMWARE					
TIME	PING TEST				
SYSTEM CHECK	Host				
SCHEDULES					domain name.
	PING RESULT				Piore
	En	ter a host name or IP a	address above and click 'F	Ping'	
WIRELESS					
		Copyright © 2012 D-Link	Corporation/D-Link Systems, Inc	4	

Schedules

You can create schedules for use with some of the features of the DIR-505, which will allow those features to be active during certain times of the day or week.

Name: Enter a name for your new schedule.

- **Days:** Select a day, a range of days, or All Week to include every day of the week.
- Time format: Check All Day 24hrs or enter a start and end times for your schedule.
 - Save: After entering the details of your schedule, click the Save button to save your changes.
 - Schedule The list of created schedules will be listed here. Click the Edit Rules List: icon to make changes or click the Delete icon to remove the schedule.

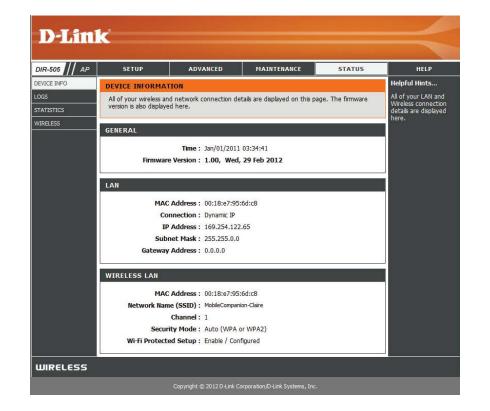


Status Device Info

This page displays the current information for the DIR-505. It will display the LAN and wireless LAN information.

General: Displays the time and firmware version.

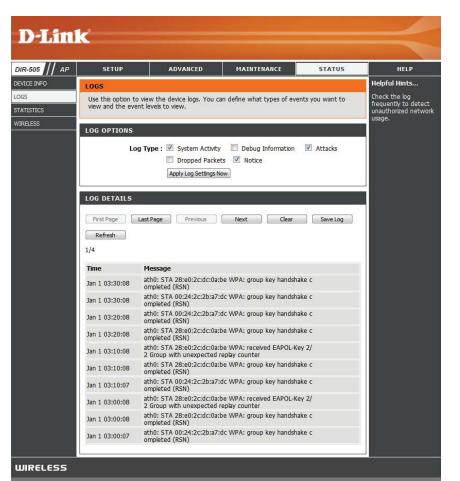
- LAN: Displays the MAC address and the private (local) IP settings for the access point.
- **Wireless LAN:** Displays the wireless MAC address and your wireless settings such as SSID and Channel.



Logs

The DIR-505 keeps a running log of events and activities occurring on the DIR-505. If the DIR-505 is rebooted, the logs are automatically cleared.

- Log Options: There are several types of logs that can be viewed: System Activity, Debug Information, Attacks, Dropped Packets and Notice.
 - First Page: This button directs you to the first page of the log.
 - Last Page: This button directs you to the last page of the log.
 - Previous: This button directs you to the previous page of the log.
 - **Next:** This button directs you to the next page of the log.
 - Clear: This button clears all current log content.
 - **Save Log:** This button opens dialog where you can save the current log to your hard drive.
 - Refresh: This button refreshes the log.



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Statistics

The DIR-505 keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. Click the **Refresh Statistics** button to update the information, or click the **Clear Statistics** button to reset all statistics. The traffic counter will reset if the DIR-505 is rebooted.

D-Lin	ĸ				\prec
DIR-505 // AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DEVICE INFO LOGS STATISTICS WIRELESS	TRAFFIC STATISTICS Traffic Statistics display Receive and Transmit packets passing through your router. Refresh Statistics Clear Statistics LAN STATISTICS Sent: 39010 Received: 67349 TX Packets Dropped: 0 RX Packets Dropped: 0			67349	Helpful Hints This is a summary of the number of packets that have passed between the Wireless and the LAN since the device was last initialized.
	Co WIRELESS STATIST TX Packets Dr	lisions : 0 ICS Sent : 88449	Errors : Received : RX Packets Dropped : Errors :	0 75059 0	
WIRELESS		Copyright © 2012 D-Link (Corporation/D-Link Systems, Inc.		

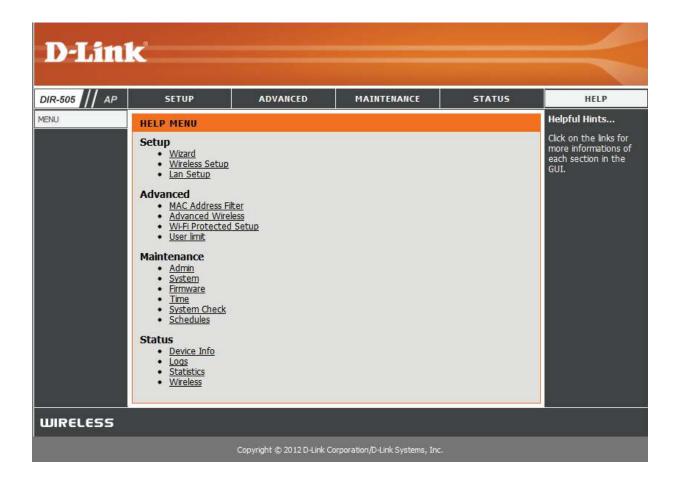
Wireless

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

DIR-505 / AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP		
DEVICE INFO	WIRELESS	Helpful Hints					
.OGS STATISTICS	The Wireless Client table below displays Wireless clients connected to the AP (Access Point). In Wireless Client mode it displays the connected AP's MAC address and connected Time.						
VIRELESS	NUMBER OF WIRE	LESS CLIENTS : 2			 parameters, such as Connect Time and station MAC address. In AP Client mode it 		
	Connected Time		MAC Address		displays the connected AP's MAC address and		
	03:35:50		00:24:2c:2b:a7:dc		connected Time.		
	02:01:38		28:e0:2c:dc:0a:be				

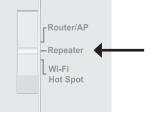
Help

This screen gives you more information about the various parts of the configuration interface. Click on a link to learn more about that topic.



Repeater Mode

This section describes the configuration interface for Repeater mode. Make sure that the mode selector switch is in the Repeater position on your DIR-505.



Setup

If you want to configure the Repeater Mode of the DIR-505 using a wizard, click **Setup Wizard**.

To configure your DIR-505 manually, click **Wireless Setup** to configure your wireless connection or click **LAN Setup** to configure the LAN options.

D-Lin	k				\prec
DIR-505 Repeater	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
	SETUP WIRELESS Use this section to co changes made on this Save Settings WIRELESS NETWO Enable Wireless Netwo Channe WIRELESS SECURI Securi	nfigure the wireless settin section wil also need to Don't Save Settings RK SETTINGS Wireless : ss Mode : Repeater M rk Name : dink el Width : Auto 20/40 M TY MODE ty Mode : None	Inde Site Survey (Also called the HTz D WCN 2.0 IN WINDO	er. Please note that eless clents and PC.	HELP Helpful Hints Changing your Wireless Network Name is the first step in securing your wireless network. Change it to a familiar name that does not contain any personal information. Enable Auto Channel Scan so that the Repeater can select the best possible channel for your wireless network to operate on. Visibility Status is another way to secure your network. With invebile option enabled, no wireless clents will be able to see your wireless network when ther perform scan to see what's available. In order for your will need to manually enter the Wireless Network Name on each device. If you have enabled Wireless Security, make sure you write down the Key or Passphrase that you have configured. You will need to mare the
WIRELESS					information on any wireless device that you connect to your wireless network.

Setup Wizard

This Wizard is designed to assist you in configuring your DIR-505 as an repeater.

If this is the first time configuring your DIR-505, click **Next** to start the Setup Wizard.

Otherwise, click **Launch Wireless Setup Wizard** from the main menu.

Select **WPS** as the configuration method only if your wireless device supports Wi-Fi Protected Setup (WPS). For **Manual** setup, skip to the next page.

Click **Next** to continue.

Press the **WPS button** on the wireless device you are adding to your wireless network.



SELECT CONFIGURATION METHOD
Please select one of the following configuration methods. Click Next to continue.
WPS Select this option if your wireless device supports WPS (Wi-Fi Protected Setup) Manual Select this option if you want to setup your network manually.
Prev Next Cancel



Select **Manual** as the configuration method to set up your network manually.

Click Next to continue.

SELECT CONFIGURATION METHOD
Please select one of the following configuration methods. Click Next to continue.
 WPS Select this option if your wireless device supports WPS (Wi-Fi Protected Setup) Manual Select this option if you want to setup your network manually.
Prev Next Cancel

Please wait while your device scans for available Wi-Fi networks.

SELECT WI-FI NETWORK
Scanning for available Wi-Fi network
Prev Next Cancel

Select the network you would like your device to connect to and click **Connect** to continue.

SELE	CT WI-FI NETWORK				
ID	Wi-Fi Network Name	Encrypt	Channel	Signal(%)	Select
1	Linksys Staples	WPA2-PSK	3	94	\odot
2	00265a493e08	WPA2-PSK	1	94	\odot
3	Cisco Staples	WPA/WPA2-PSK(auto)	1	94	\odot
4	CAMERA432	WPA/WPA2-PSK(auto)	3	94	\odot
5	DSR-500N_1	WPA2-PSK	6	94	\odot
6	mywirelessnetwork	WPA/WPA2-PSK(auto)	11	94	\odot
7	00265a493e1e	WPA2-PSK	11	94	\odot

Wireless Setup

Use this section to manually configure the wireless settings for your D-Link Repeater. After making your changes, click the **Save Settings** button.

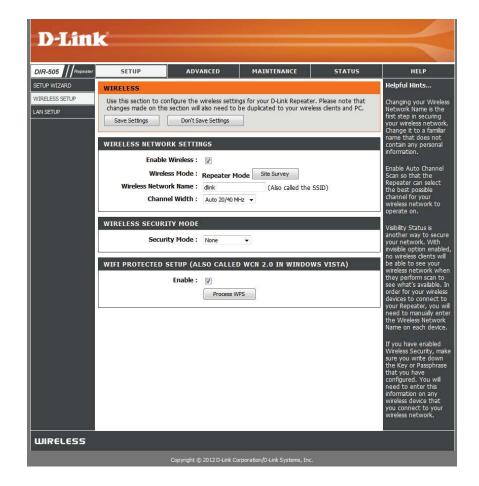
Enable Check the box to enable the wireless function. If you do **Wireless:** not want to use wireless, uncheck the box to disable all the wireless functions. You may also set up a specific time range (schedule). Select a schedule from the drop-down menu or click **Add New** to create a new schedule.

Wireless Select **Repeater Mode** from the drop-down menu. Mode:

Site Survey: Scans for available Wi-Fi networks.

Wireless When you are browsing for available wireless networks, this
 Network is the name that will appear in the list (unless Visibility Status
 Name: is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the default network name.

- **Channel** Select the appropriate channel width between **20MHz** or **Width: Auto 20/40MHz** from the drop-down menu.
- Security Select None, WEP, or WPA-Personal. For security purposes, Mode: it is highly recommended that you set this to WPA-Personal.



Section 5 - Repeater Mode

If you select **WEP** as your Security Mode:

WEP Key Select an encryption level and key length to use. This will **Length:** also set the type and length of the key you will need to enter.

WEP Key: Enter the password(key) for your wireless network. It will need to match the requirements for the WEP Key Length selected above.

Authentication: Choose what Authentication type to use.

WIRELES	S SECURITY MODE
	Security Mode : WEP
WEP	
router and t For 128 bit from 0 to 9	wireless encryption standard. To use it you must enter the same key(s) into the the wireless stations. For 64 bit keys you must enter 10 hex digits into each key bo keys you must enter 26 hex digits into each key box. A hex digit is either a number or a letter from A to F. For the most secure use of WEP set the authentication ty, Key" when WEP is enabled.
hexadecima	so enter any text string into a WEP key box, in which case it will be converted into I key using the ASCII values of the characters. A maximum of 5 text characters can for 64 bit keys, and a maximum of 13 characters for 128 bit keys.
(802.11B/	se the WEP security option this device will ONLY operate in Legacy Wireless mod (G). This means you will NOT get 11N performance due to the fact that WEP is not by the Draft 11N specification.
	WEP Key Length: 64 bit (10 hex digits) (length applies to all keys)
	WEP Key 1:
	Authentication : Both
WIRELESS	S SECURITY MODE
	Security Mode : WPA-Personal
WPA	
mode uses capable. Als WPA2 Only with WPA s	WPA2 mode to achieve a balance of strong security and best compatibility. This WPA for legacy clients while maintaining higher security with stations that are WPA iso the strongest cipher that the client supports will be used. For best security, use y mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed accessecurity. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. In and legacy devices work only in this mode.
To achieve	better wireless performance use WPA2 Only security mode (or in other words AES

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

WPA Mode :	Auto (WPA or WPA2)	•	J
------------	--------------------	---	---

Cipher Type: TKIP and AES

PRE-SHARED KEY

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

Pre-Shared Key :

If you select WPA-Personal as your Security Mode:

WPA Mode: Select whether to use WPA, WPA2, or both WPA and WPA2 for your wireless network..

Cipher Type: Choose whether to use TKIP, AES, or both TKIP and AES ciphers for your wireless network.

Pre-Shared Enter the password(key) for your wireless network. Key:

LAN Setup

This section will allow you to change the local network settings of the DIR-505. After making your changes, click the **Save Settings** button.

Device Name: Enter the Device Name of the DIR-505. It is recommended that you change the Device Name if there is more than one D-Link device in your subnet.

LAN Use the drop-down menu to select the LAN Connection **Connection** Type to use.

Type:

Select Dynamic IP (DHCP) to automatically obtain an IP address on the LAN/private network.

Select Static IP Address if all the Internet port's IP information is provided to you by your ISP.

If you choose DHCP as your connection type:

IP Address: Enter the IP address of the access point. The default IP address is 192.168.0.1. If you change the IP address, once you click **Apply**, 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 assigned by your ISP.

Gateway Enter the Gateway assigned by your ISP. **Address:**

D-Lin	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
DIR-505 Repeater	SETUP AD	VANCED	MAINTENANCE	STATUS	HELP
SETUP WIZARD	NETWORK SETTINGS				Helpful Hints
WIRELESS SETUP	Use this section to configure th	e internal netw	ork settings of your Repea	ater.	Device Name:
LAN SETUP	Device Name allows you to con protocol. You can enter the de the instead of IP address for co more than one D-Link devices v Save Settings Don't	vice name of th nfiguration. Rec	e Repeater into your web ommend to change the o	browser to access	Device Name allows you to configure this device more easily when your network using TCP/IP protocol. You can enter the device name of the Repeater into
	DEVICE NAME				your web browser to access the device configuration.
	Device Name	: dlinkrouter			Recommend to change the device name if there're more than one
	LAN IPV4 CONNECTION TY	PE			D-Link devices within the network.
	Choose the IPv4 mode to be use	ed b <mark>y t</mark> he Repea	ater.		LAN Settings: Also referred as private settings. LAN settings
	My LAN Connection is	: Dynamic IP (D	DHCP) -		allow you to configure LAN interface of DIR- 505, LAN IP address is
	DYNAMIC IP(DHCP) LAN I	PV4 CONNEC	TION TYPE		private to your internal network and is not visible to Internet. The
	Enter the IPv4 Address Informat	ion.			factory default setting is Dynamic IP(DHCP).
	IP Address	: [192.168.0.1			
	Subnet Mask	: 255.255.255.	0		
	Gateway Address	: 0.0.0.0			
	Primary DNS Server	: 0.0.0.0			
	Secondary DNS Server	: 0.0.0.0			

If you choose Static IP as your connection type:

IP Address: Enter the IP address the DIR-505 should use. The default IP address is 192.168.0.1. If you change the IP address, once you click **Apply**, 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 assigned by your ISP.

Gateway Enter the Gateway assigned by your ISP. **Address:**

Primary DNS Enter the Primary DNS Server's IP address assigned by your Server: ISP.

Secondary Enter the Secondary DNS Server's IP address assigned by **DNS Server:** your ISP.

LAN IPV4 CONNECTION TYPE	E
Choose the IPv4 mode to be used	by the Repeater.
My LAN Connection is :	Static IP 👻
STATIC IP ADDRESS LAN IP	PV4 CONNECTION TYPE
STATIC IP ADDRESS LAN IP Enter the static address Informatio	
	on.
Enter the static address Informatio	on. 192.168.0.1
Enter the static address Informatio	90. 192.168.0.1 255.255.255.0
Enter the static address Informatio IP Address : Subnet Mask :	192.168.0.1 255.255.255.0 0.0.0.0

Advanced Advanced Wireless

This screen allows you to set various advanced wireless settings of your DIR-505. Unless you are experiencing specific problems, it is recommended that you leave these settings at their default values. After making your changes, click the **Save Settings** button.

Transmit Sets the transmit power of the antennas. **Power:**

HT 20/40 Check to enable or disable this feature. Coexistence:

DIR-505 Repeater	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADVANCED WIRELESS	ADVANCED WIRE	LESS			Helpful Hints
WL-FI PROTECTED SETUP	from the standard se factory default. Inco default settings shou Save Settings ADVANCED WIRE Transr	r users that wish to chang tting. D-Link does not recor- rect settings may impair the Id provide the best wireles Don't Save Settings LESS SETTINGS nit Power : 100% → existence : @ Enable	mmend changing these s e performance of your wis radio performance in mo	ettings from the reless radio. The	Advanced Wireless: It is recommended tha you leave these option at their default values. Adjusting them could negatively impact the performance of your wireless network. The options on this page should be changed by advanced users or if you are instructed by advanced users or if you are our support personnel, as they can negatively affect the performance of your Repeater if configured improperly. Transmit Power: You can lower the output power of the DIR-SOS by selecting lower percentage Transmit Power values from the drop down. Your choices are: 100%, 75%, 50%, and 25%.

Wi-Fi Protected Setup

Wi-Fi Protected Setup (WPS) System is a simplified way to set up the basic settings of the DIR-505. It can also be used to automatically create a secure wireless connection to a wireless client. After making your changes, click the **Save Settings** button.

Enable: Check this box to enable the WPS functions of the DIR-505.

- Disable WPS Disabling this will disable the WPS PIN method of connection PIN Method: and configuration. If you want to reconfigure the router using the WPS PIN method, click on the **Reset to Unconfigured** button. You will still be able to add wireless clients through WPS.
- PIN Settings: Shows the router's current PIN. You can reset it to the default value by clicking on the **Reset PIN to Default** button, or you can create a new PIN number by clicking on the **Generate** New PIN button.
- Add Wireless Here, you can click on the Add Wireless Device With WPS Station: button to go through a wizard that helps you connect other devices through WPS.



Maintenance Admin

This page will allow you to change the password for the administrator account for configuring the settings of the DIR-505. You can also turn on graphical authentication (CAPTCHA) on this page. After making your changes, click the **Save Settings** button.

Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

Verify Enter the same password that you entered in the previous **Password:** textbox in order to confirm its accuracy.

Enable Check to enable Graphical Authentication, or CAPTCHAsGraphical when logging in to the web UI of the DIR-505. This providesAuthentication: an extra layer of security by requiring you to enter a code that is displayed on-screen.

D-Lin	K				\prec
DIR-505 Repeater	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ADMIN SYSTEM	ADMINISTRATOR S				Helpful Hints
FIRMWARE TIME	Click on "Save Setting	s" to execute the passw	d" field and again in the ne ord change. The Password 'he new password must be	is case-sensitive, and	Passwords: For security reasons, it is recommended that you change the Password for the Administrator accounts. Be sure to write down
	New P	e password into both assword : assword :	boxes, for confirmation		the Passwords to avoid having to reset the Repeater in the event that they are forgotten.
		Graphical itication :			
WIRELESS					
		Copyright © 2012 D-Link C	orporation/D-Link Systems, Inc	1.	

System

This page allows you to save and restore your configuration, reset and reboot the DIR-505, and remove any added language packs.

Save Settings Clicking the Save button will allow you to save the current
 To Local Hard repeater configuration settings to a file on the hard disk of
 Drive: the computer you are using. You will then see a file dialog where you can select a location and file name for the settings.

Load Settings Use this option to load previously saved configuration From Local settings. Click Browse to find a previously saved configuration Hard Drive: file. Then, click the Upload Settings button to transfer those settings to the DIR-505.

Restore This option will restore all configuration settings back to the to Factory factory default settings. Any settings that have not been Default saved will be lost, including any rules that you have created.
Settings: If you want to save your current configuration settings, use the Save button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

Reboot the Click the Reboot button to reboot the repeater. Device:

Remove If you have previously installed a Language Pack, you can Language remove it by clicking the Remove button. Pack:



Firmware

You can upgrade the firmware of the DIR-505 here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support website for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from this site.

Firmware Click on **Check Now** to find out if there is an updated **Upgrade:** firmware; if so, download the new firmware to your hard drive.

After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade. Do not disconnect from the DIR-505 or power your computer or DIR-505 off during the upgrade process.

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

Browse: Download a language pack from the D-Link website. After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.



Time

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in. Daylight Saving can also be configured to automatically adjust the time when needed. After making your changes, click the **Save Settings** button.

Time Zone: Select the Time Zone from the drop-down menu.

Enable To select Daylight Saving time manually, click the Enable
Daylight Daylight Saving check box. Next use the drop-down menu
Saving: to select a Daylight Saving Offset and then enter a start date and an end date for daylight saving time.

- **Enable NTP** NTP is short for Network Time Protocol. NTP synchronizes **Server:** computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.
- NTP Server Enter the NTP server or select one from the drop-down Used: menu.
 - Date and To manually input the time, enter the values in these fields
 Time: for the Year, Month, Day, Hour, Minute, and Second and then click Save Settings. You can also click the Copy Your
 Computer's Time Settings button at the bottom of the screen.



Status Device Info

This page displays the current information for the DIR-505. It will display the LAN and wireless LAN information.

General: Displays the time and firmware version.

- LAN: Displays the MAC address and the private (local) IP settings for the access point.
- Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

R-505 Repeater	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ICE INFO	DEVICE INFORMATION	Î.			Helpful Hints
as Itistics	All of your wireless and ne version is also displayed he		etails are displayed on this p	age. The firmware	All of your LAN and Wireless connection details are displayed here.
	GENERAL				nere.
		Time : Jan/01/201	1 00:05:39		
	Firmware Ve	rsion: 1.00, Thu	, 16 Feb 2012		
	LAN				
	MAC Address : 00:18:e7:95:70:8a				
	Conne	ction : Dynamic IP			
	IP Ad	dress: 169.254.54	.142		
	Subnet	Mask: 255.255.0.	0		
	Gateway Ade	dress: 0.0.0.0			
	Primary DNS S	erver :			
	Secondary DNS S	erver :			
	WIRELESS LAN				
	MAC Add	dress : 00:18:e7:9	5:70:8a		
	Network Name (S	(SID): dlink			
	Security I	1ode : Disable			

Logs

The DIR-505 keeps a running log of events and activities occurring on the DIR-505. If the DIR-505 is rebooted, the logs are automatically cleared.

- Log Options: There are several types of logs that can be viewed: System Activity, Debug Information, Attacks, Dropped Packets and Notice.
 - First Page: This button directs you to the first page of the log.
 - Last Page: This button directs you to the last page of the log.
 - **Previous:** This button directs you to the previous page of the log.

Next: This button directs you to the next page of the log.

- Clear: This button clears all current log content.
- **Save Log:** This button opens dialog where you can save the current log to your hard drive.

Refresh: This button refreshes the log.



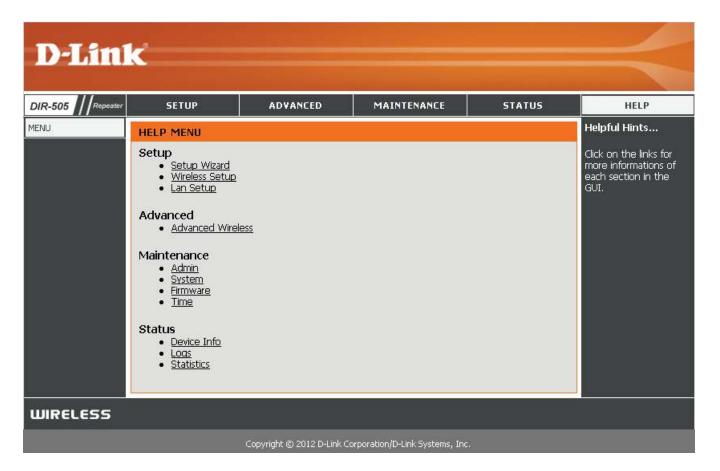
Statistics

The DIR-505 keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. Click the **Refresh Statistics** button to update the information, or click the **Clear Statistics** button to reset all statistics. The traffic counter will reset if the DIR-505 is rebooted.

D-Linl	K				\prec
DIR-505	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DEVICE INFO LOGS STATISTICS	TRAFFIC STATISTICS Traffic Statistics display Receive and Transmit packets passing through your router. Refresh Statistics Clear Statistics LAN STATISTICS Sent : 5707 Received : 3433 TX Packets Dropped : 0 RX Packets Dropped : 0		Helpful Hints This is a summary of the number of packets that have passed between the Wireless and the LAN since the device was last initialized.		
WIRELESS	WIRELESS STATISTICS Sent : 290 Received : 0 TX Packets Dropped : 620 RX Packets Dropped : 0 Collisions : 0 Errors : 0				
		Copyright © 2012 D-Link C	Corporation/D-Link Systems, Inc.		

Help

This screen gives you more information about the various parts of the configuration interface. Click on a link to learn more about that topic.



Wi-Fi Hot Spot Mode

This section describes the configuration interface for Wi-Fi Hot Spot mode. Make sure that the mode selector switch is in the Wi-Fi Hot Spot position on your DIR-505.



Setup Quick Setup Wizard

If this is your first time using this device, you will be directed to the Pre-Setup Wizard. If you have already completed the Pre-Setup Wizard, please continue to page 116.

Enter **Admin** in the User Name field. Leave the password blank by default.

Click Next to continue.

Please wait while your device scans for an available Wi-Fi Network.

LOGIN	
Log in to the HotSpot:	
	User Name : Admin
	Password :
	Login



Prev Next Cancel

Select the Network you would like your device to connect to and click **Connect**.

SEL	ECT WI-FI HOTSPOT				
ID	Wi-Fi Network Name	Encrypt	Channel	Signal(%)	Select
1	DHP-W306AV	WPA/WPA2-PSK(auto)	8	94	0
2	dlink_DHP-1565	WPA/WPA2-PSK(auto)	6	94	0
3	LoudFish	WPA/WPA2-PSK(auto)	11	94	\odot
4	LoudFish-guest	None	11	94	\odot
5	irvine2	WPA/WPA2-PSK(auto)	6	82	\odot
6	ATT720	WPA/WPA2-PSK(auto)	1	3	\odot
		Rescan Connect Cancel			

Enter the Wi-Fi password and click **Next** to continue.

Select Use the same Wi-Fi Network name for the extended
Network and click Next.

If you want to use a different wireless network name and password, untick the checkbox and enter the network name and password you want to use.

Your setup is now complete. Click Save to finish.

ENTER WI-FI PASSWORD	
Please enter Wi-Fi Password to e	establish wireless connection
Wi-Fi Password:	
	Prev Next Cancel

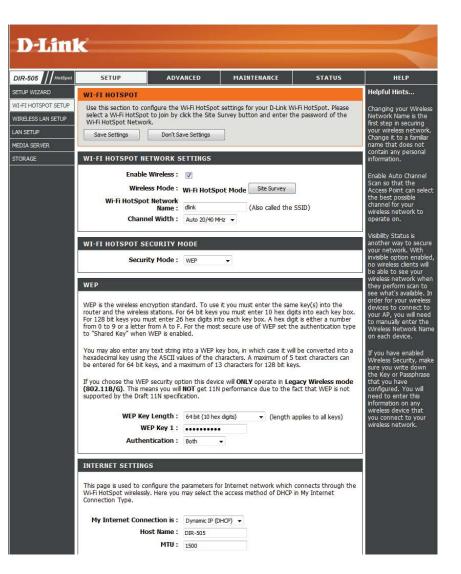
PLEASE ENTER THE SETTINGS FOR THE EXTENDER NETWORK		
Use the same Wi-Fi Network Name for the Extended Network		
Give your Extended Wi-Fi network a name.		
Extended Wi-Fi Network Name (SSID):		
MobileCompanion-Claire (Using up to 32 characters)		
Give your Extended Wi-Fi network a password.		
Wi-Fi Password:		
(Between 8 and 63 characters)		
Prev Next Cancel		

SETUP COMPLETE!
Please take a note of the following summary of your Wi-Fi Security settings for future reference.
Wi-Fi Network Name (SSID) : D-Link
Extended Wi-Fi Network MobileCompanion-Claire Name (SSID):
Wi-Fi Password : 0509duck
The Setup Wizard has completed. Click the Save button to save your settings and reboot the device.
Prev Save Cancel

Wi-Fi Hotspot Setup

The Wi-Fi Hotspot Setup page allows you to enter the settings of the Wi-Fi hotspot that the DIR-505 will connect to and share access to. Please note that this is different from the wireless network created by the DIR-505 that you will connect your devices to. After making your changes, click the **Save Settings** button.

- **Enable** Check the box to enable the Wi-Fi hotspot wireless Wireless: connection. If this is disabled, the DIR-505 will not connect to an external hotspot, and will have no Internet connection source to share.
- Wireless This will state Wi-Fi Hot Spot Mode when in Wi-Fi Hot Mode: Spot Mode. You can click the Site Survey button to look for available hotspots to connect to. Selecting a wireless network from the list that appears will automatically fill in the settings below.
- Wi-Fi HotSpot Enter the name of the Wi-Fi hotspot wireless network you Network want to connect the DIR-505 to. You can use the **Site Survey** Name: button to fill this in automatically.
 - **Channel** Select the appropriate channel width to use from the **Width:** dropdown box. If you are not sure what to use, leave the setting on **Auto**.
 - Security Select the wireless encryption used by the Wi-Fi hotspot you Mode: are connecting to. You can use the Site Survey button to fill in most of the information automatically; you can then just enter the password(WEP Key or Pre-Shared Key) for the Wi-Fi hotspot.



Internet Here, you can set the connection settings for the Wi-Fi Settings hotspot. In most cases, you should not need to change any of the values from their default settings.

Wi-Fi Tick this checkbox to enable connecting to a Wi-Fi hotspot
Protected through WPS. To use WPS to connect, click the Process WPS
Setup: button, then press the WPS button on the Wi-Fi hotspot's router.

	parameters for Internet network which connects through the may select the access method of DHCP and PPPoE in My
Internet Connection Type.	may select the access method of DHCP and PPPOE in My
My Internet Connection is :	Dynamic IP (DHCP) 👻
Host Name :	DIR-505
MTU :	1500
	Attain DNS Automatically
	Set DNS Manually
MAC Address :	00:00:00:00:00
	Clone Your PC's MAC address
WIFI PROTECTED SETUP (AI	LSO CALLED WCN 2.0 IN WINDOWS VISTA)
Enable :	
	Process WPS

Wireless LAN Setup

Use this section to configure the Wireless LAN settings for your D-Link router. This will configure the wireless network you will connect to with your PCs and devices. You can create a new Wi-Fi network name (SSID) for your local Wi-Fi network (WLAN), or use the same wireless network name(SSID) as the Wi-Fi hotspot the router is connecting to. After making your changes, click the **Save Settings** button.

- Local Wi-Fi Set whether you want to use the same network name as
 Network the Wi-Fi hotspot the router is connected to(Same as Wi-Fi
 Name: HotSpot Network Name), or if you want to create a new network name to use(Create a new Wi-Fi Network Name).
 - Channel Select whether to use Auto 20/40 MHz or 20 MHz for the Width: channel width. Normally, this should be left on Auto 20/40 MHz. If you are not using any 802.11n wireless clients, you can set this to 20 MHz.
 - Visibility This setting controls whether the router's wireless network Status: name(SSID) will be broadcast so that wireless devices can scan for it. If you set it to Invisible, all wireless clients will need to enter the network name and security settings of your wireless network manually.
 - **Security** Select from the drop-down menu the type of security mode **Mode:** you would like to use.
- WPA Mode: Select Auto, WPA2 Only, or WPA Only. Use Auto if you have wireless clients using both WPA and WPA2.

Cipher Type: Select TKIP and AES, TKIP, or AES.



Pre-Shared	Enter a password to use for your wireless network.
Key:	

Wi-Fi Tick the Enable checkbox to enable use of WPS for wirelessProtected clients. You can then click the Process WPS button and theSetup: press the WPS button on your client to set up a connection.

PRE-SHARED KEY					
Enter an 8 to 63 character alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.					
Pre-Shared Key : ••••••					
WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)					
Enable : 🕡					
Process WPS					

LAN Setup

This section will allow you to change the local network settings of the DIR-505 and to configure the DHCP settings. After making your changes, click the **Save Settings** button.

Device Name: Enter the Device Name of the DIR-505. It is recommended that you change the Device Name if there is more than one D-Link device in your subnet.

Dynamic IP Here, you can edit the **IP Address**, **Subnet Mask**, and **Local** (DHCP) LAN **Domain Name** for the DIR-505 to use.

Connection

Type:

DHCP Server Ticking the Enable DHCP Server checkbox allows the Settings: DIR-505 to assign IP addresses to the devices on your network. by using DHCP. You can set the range of allowable IP addresses using the DHCP IP Address Range text boxes, and you can set the DHCP Lease Time with the corresponding text box.



Media Server

This feature allows you to share music, pictures and videos with any devices connected to your network. After making your changes, click the **Save Settings** button.

Enable Media Check this box to enable the media server feature. Server:

Computer Enter the media server's name. **Name:**

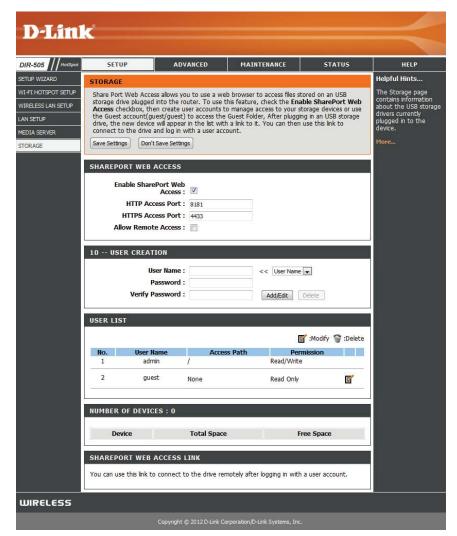
D-Linl	ĸ				
DIR-505 HHotSpot	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
SETUP WIZARD	MEDIA SERVER				
WI-FI HOTSPOT SETUP WIRELESS LAN SETUP LAN SETUP MEDIA SERVER. STORAGE	certified devices that videos.	connect to your network dia may not be secure. A	media with DLNA certified can play your shared musi llowing any devices to stre	c, pictures, and	
	DLNA MEDIA SERV	997431		i.	
	Enable DLNA Medi Media Serv				
WIRELESS					
		Copyright © 2012 D-Link C	orporation/D-Link Systems, Inc	4	

Storage

This page will allow you to access files from a USB external hard drive or thumb drive that is plugged into the DIR-505 from your local network or from the Internet using either a web browser or the SharePort Mobile app for your smartphone or tablet. You can create users to customize access rights to the files stored on the USB drive. After making your changes, click the **Save Settings** button.

Enable Tick this checkbox to enable sharing files stored on a USB Shareport storage drive connected to the DIR-505. Web Access:

- HTTP Access Enter a port to use for HTTP web access to your files Port: (8181 is the default). You will have to add this port to the IP address of the DIR-505 when connecting. For example: http://192.168.0.1:8181
- HTTPS Access Enter a port to use for HTTPS secure access to your Port: files (4433 is the default). You will have to add this port to the IP address of the DIR-505 when connecting. For example: https://192.168.0.1:4433
- Allow Remote Check to enable remote access to your router's storage. Access:
 - **User Name:** To create a new user, enter a user name. To edit an existing user, use the dropdown box to the right.
 - Password/ Enter a password you want to use for the account, re-enterVerify the password in the Verify Password text box, then clickPassword: Add/Edit to save your changes.
 - **User List:** This section shows existing user accounts. There are **admin** and **guest** accounts by default.



Number of This section shows you information about the USB storage **Devices:** device plugged into the router.

SharePort This will give you a direct link to the web access interface **Web Access** that you can click on or copy and paste.

Link

NUMBER OF DEVIC	ES : 0	
Device	Total Space	Free Space
SHAREPORT WEB	ACCESS LINK	
You can use this link to	connect to the drive remotely after l	ogging in with a user account.

Advanced MAC Address Filter

Use MAC (Media Access Control) Filters to control access to your network based on the MAC addresses of connected clients. You can set MAC address filtering to only allow the listed MAC addresses to connect, or block access to all listed MAC addresses. After making your changes, click the **Save Settings** button.

Note: Any wired devices connected to the Ethernet port on the DIR-505 will always have access to the network.

Wireless Configure how MAC filtering works by using the dropdown **Access** box to select an option:

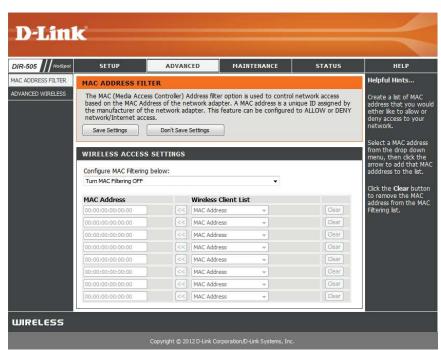
Settings:

Turn MAC Filtering OFF: This disables MAC filtering.

Turn MAC Filtering ON and ALLOW computers listed to access the network: When this option is selected, only PCs and devices with MAC addresses in the MAC Address List are granted network access. All other devices will be blocked.

Turn MAC Filtering ON and DENY computers listed to access the network: When this option is selected, all PCs and devices with MAC addresses in the MAC Address List will be refused access to your network. All other devices will be allowed access.

MAC Address: Enter the MAC addresses you would like to filter. You can select a client currently connected to your access point from the **Wireless Client List** drop-down menu and then click the corresponding << button fill in the MAC address automatically. Click the Clear button to remove any entered MAC address.



Advanced Wireless

This screen allows you to set various advanced wireless settings of your DIR-505. Unless you are experiencing specific problems, it is recommended that you leave these settings at their default values. After making your changes, click the **Save Settings** button.

Transmit Sets the transmit power of the antennas. **Power:**

HT 20/40 Check to enable or disable this feature. Coexistence:

D -Linl	k				
DIR-505 HotSpot	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
MAC ADDRESS FILTER ADVANCED WIRELESS	from the standard set factory default. Incorr default settings shoul Save Settings	users that wish to chang tring. D-Link does not recc rect settings may impair th d provide the best wireles Don't Save Settings ESS SETTINGS it Power: 100% -	mmend changing these s le performance of your wis s radio performance in mo	ettings from the reless radio. The	Helpful Hints Advanced Wireless: It is recommended that you leave these options at their default values. Adjusting them could negatively impact the performance of your wireless network. The options on this page should be changed by advanced users or if you are instructed to by one of our support personnel, as they can negatively affect the performance of your Access Point if configured improperly. Transmit Power: You can lower the output power of the DIR-505 by selecting lower percentage Transmit Power values from the drop down Your choices are: 100%, 75%, 50%, and 25%.
WIRELESS	2				
		Copyright © 2012 D-Link Co	rporation/D-Link Systems, Inc		

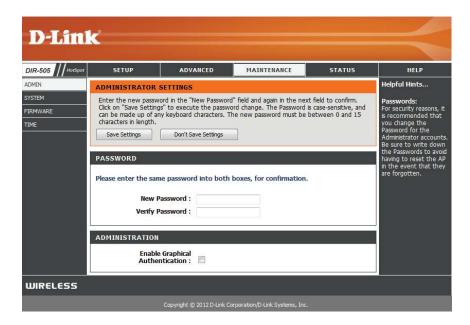
Maintenance Admin

This page will allow you to change the password for the administrator account for configuring the settings of the DIR-505. You can also turn on graphical authentication (CAPTCHA) on this page. After making your changes, click the **Save Settings** button.

Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

Verify Enter the same password that you entered in the previous **Password:** textbox in order to confirm its accuracy.

Enable Check to enable Graphical Authentication, or CAPTCHAsGraphical when logging in to the web UI of the DIR-505. This providesAuthentication: an extra layer of security by requiring you to enter a code that is displayed on-screen.



System

This page allows you to save and restore your configuration, reset and reboot the DIR-505, and remove any added language packs.

Save Settings Clicking the Save button will allow you to save the current
 To Local Hard repeater configuration settings to a file on the hard disk of
 Drive: the computer you are using. You will then see a file dialog where you can select a location and file name for the settings.

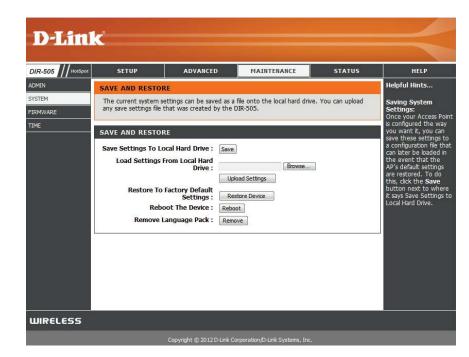
Load Settings Use this option to load previously saved configuration From Local settings. Click **Browse** to find a previously saved configuration Hard Drive: file. Then, click the **Upload Settings** button to transfer those settings to the DIR-505.

Restore This option will restore all configuration settings back to the to Factory factory default settings. Any settings that have not been Default saved will be lost, including any rules that you have created.
Settings: If you want to save your current configuration settings, use the Save button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

Reboot the Click the Reboot button to reboot the repeater. Device:

Remove If you have previously installed a Language Pack, you can Language remove it by clicking the Remove button. Pack:



Firmware

You can upgrade the firmware of the DIR-505 here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to locate the firmware file to be used for the update. Please check the D-Link support website for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from this site.

Firmware Click on **Check Now** to find out if there is an updated **Upgrade:** firmware; if so, download the new firmware to your hard drive.

After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade. Do not disconnect from the DIR-505 or power your computer or DIR-505 off during the upgrade process.

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

Browse: Download a language pack from the D-Link website. After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.



Time

The Time page allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in. Daylight Saving can also be configured to automatically adjust the time when needed. After making your changes, click the **Save Settings** button.

Time Zone: Select the Time Zone from the drop-down menu.

Enable To select Daylight Saving time manually, click the Enable
Daylight Daylight Saving check box. Next use the drop-down menu
Saving: to select a Daylight Saving Offset and then enter a start date and an end date for daylight saving time.

- **Enable NTP** NTP is short for Network Time Protocol. NTP synchronizes **Server:** computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.
- NTP Server Enter the NTP server or select one from the drop-down Used: menu.
 - Date and To manually input the time, enter the values in these fields
 Time: for the Year, Month, Day, Hour, Minute, and Second and then click Save Settings. You can also click the Copy Your Computer's Time Settings button at the bottom of the screen.



Status Device Info

This page displays the current information for the DIR-505. It will display the LAN and wireless LAN information.

General: Displays the time and firmware version.

- Wi-Fi Hotspot Displays information about the connection to the Wi-Fi hotspot.
 - LAN: Displays the MAC address and the private (local) IP settings for the access point.
- Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

IR-505 HotSpot	SETUP	ADV/	ANCED	MAINTENANCE	STATUS	HELP
EVICE INFO	DEVICE INFORMATI					Helpful Hints
NGS TATISTICS		network c	onnection de	tails are displayed on thi	is page. The firmware	All of your LAN and Wireless connection details are displayed
	GENERAL	here.				
		Time :	Jan/01/2011	00:17:49		
	Firmware		1.00, Thu,			
	WI-FI HOTSPOT					
	MAC	Address :	00:18:e7:95	:70:8b		
	Wi-Fi HotSpot	Network (SSID) :	dlink			
		nection :				
	IP	Address :	192.168.0.1	01		
	Subn	et Mask :	255.255.255	.0		
		ateway :				
	Primary DNS					
	Secondary DNS	Server :	0.0.0.0			
	LAN					
	MAC	Address :	00:18:e7:95	:70:8a		
	IP	Address :	192.168.0.1			
	Subn	et Mask :	255.255.255	.0		
	DHCF	Server :	Enabled			
	WIRELESS LAN					
	MAC	Address :	02:18:e7:95	:70:8b		
	Local Wi-Fi Networ	k Name :	dlink-708a			
	Local Wi-Fi Securit					
	STATES OF A		Auto 20/40	MHz		
	NANDARAMAN AN ANALAS	Channel :		25		
	Wi-Fi Protecter	d Setup :	Enable / Con	figured		

Logs

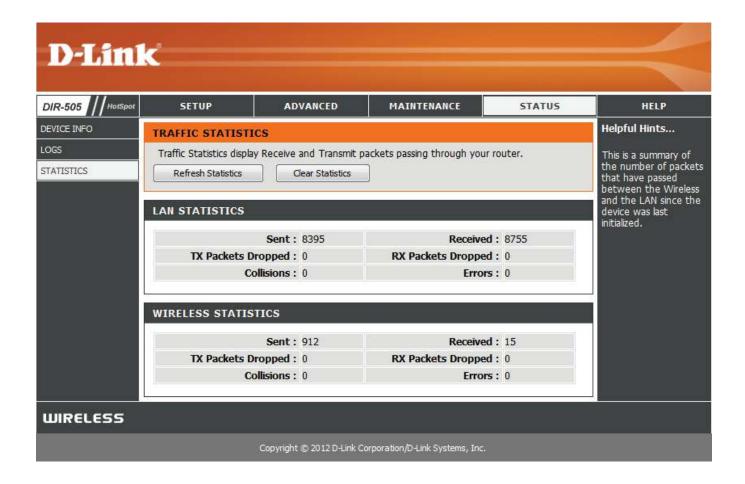
The DIR-505 keeps a running log of events and activities occurring on the DIR-505. If the DIR-505 is rebooted, the logs are automatically cleared.

- Log Options: There are several types of logs that can be viewed: System Activity, Debug Information, Attacks, Dropped Packets and Notice.
 - First Page: This button directs you to the first page of the log.
 - Last Page: This button directs you to the last page of the log.
 - **Previous:** This button directs you to the previous page of the log.
 - **Next:** This button directs you to the next page of the log.
 - Clear: This button clears all current log content.
 - **Save Log:** This button opens dialog where you can save the current log to your hard drive.
 - **Refresh:** This button refreshes the log.

HotSpot	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP			
	LOGS				Helpful Hints			
	Use this option to view and the event	Check the log frequently to detect unauthorized networ usage.						
	LOG OPTIONS LOG Type: V System Activity Debug Information V Attacks Dropped Packets V Notice							
	LOG DETAILS	Dropped Pack Apply Log Set		Save Log				
		Apply Log Set	ings Now	Save Log				
1	First Page La Refresh 1/7 Time	Apply Log Set	Ings Now Clear	Save Log				
	First Page La Refresh 1/7 Time Jan 1 00:17:51	Apply Log Set st Page Previous JDHCPD Inform: add_lease	Next Clear Message 192.168.0.100	Save Log				
	First Page La Refresh 1/7 Time Jan 1 00:17:51 U Jan 1 00:16:45 U	Apply Log Set st Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease	Message 192.168.0.100	Save Log				
	First Page La Refresh 1/7 1/7 Time Jan 1 00:17:51 U Jan 1 00:16:45 U Jan 1 00:15:37 U	Apply Log Set st Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease	Next Clear Message 192.168.0.100 192.168.0.100	Save Log				
1	First Page La Refresh 1/7 1/7 Time Jan 1 00:17:51 U Jan 1 00:16:45 Jan 1 00:16:37 Jan 1 00:14:26 U	Apply Log Set at Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease	Next Clear Message 192.168.0.100 192.168.0.100	Save Log				
	First Page La Refresh 1/7 1/7 Time Jan 1 00:17:51 U Jan 1 00:16:45 U Jan 1 00:16:45 Jan 1 00:16:47 Jan 1 00:14:26 U Jan 1 00:13:57 r	Apply Log Set st Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease	Mext Clear 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100	Save Log				
Ĩ	First Page La Refresh 1/7 Imme Jan 1 00:17:51 Jan 1 00:16:45 U Jan 1 00:16:45 U Jan 1 00:13:37 U Jan 1 00:13:57 Jan 1 00:13:57 Jan 1 00:13:46 La	Apply Log Set at Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease adding /etc/resolv.conf	Mext Clear 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100	Save Log				
	First Page La Refresh 1/7 Jan 1 00:17:51 U Jan 1 00:16:45 U Jan 1 00:16:45 U Jan 1 00:13:37 U Jan 1 00:13:46 U Jan 1 00:13:46 U Jan 1 00:13:41 U Jan 1 00:13:49 U	Apply Log Set at Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease eading /etc/resolv.conf .ease of 192.168.0.101 obt iending discover	Mext Clear 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100	SaveLog				
Ĩ	First Page La Refresh 1/7 Jan 1 00:17:51 1 Jan 1 00:16:45 1 Jan 1 00:16:45 1 Jan 1 00:13:37 1 Jan 1 00:13:57 1 Jan 1 00:13:57 1 Jan 1 00:13:46 1 Jan 1 00:13:46 1 Jan 1 00:13:49 1 Jan 1 00:13:25 1	Apply Log Set at Page Previous JDHCPD Inform: add_lease JDHCPD Inform: add_lease JDHCPD Inform: add_lease eading /etc/resolv.conf .ease of 192.168.conf .ease of 192.168.conf	Next Clear Message 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100 192.168.0.100	Save Log				

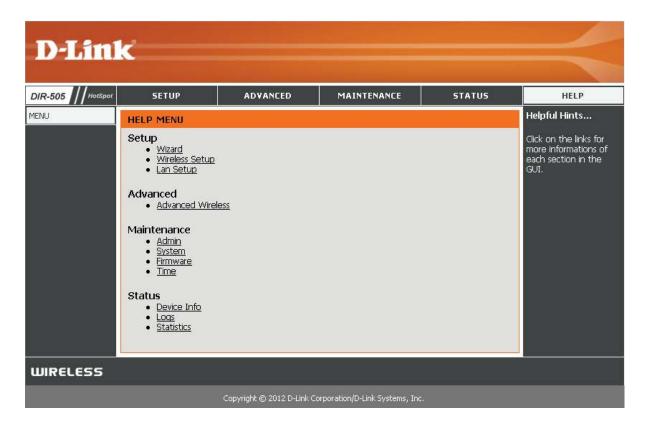
Statistics

The DIR-505 keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. The traffic counter will reset if the DIR-505 is rebooted.



Help

This screen gives you more information about the various parts of the configuration interface. Click on a link to learn more about that topic.



Connecting a Wireless Client WPS Button

The easiest and most secure way to connect your wireless devices to the router is WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-505 router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the DIR-505 for about 1 second. The WPS button will start to blink.

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

Windows[®] 7 WPA/WPA2

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

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



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



Section 7 - Connecting a Wireless Client

3. Highlight the wireless network (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.

Connect to a Network	
Getting information from dlink	
16	
	Cancel

Section 7 - Connecting a Wireless Client

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

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

pe the networ	k security key	
Security key:	1	
	Hide characters	
	You can also connect by pushing the button on the router.	

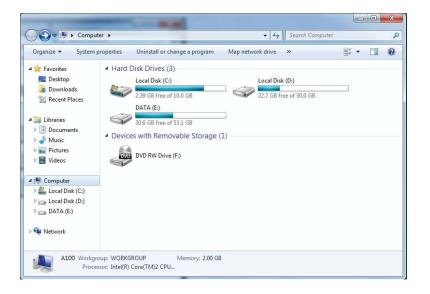
WPS

The WPS feature of the DIR-505 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.







3. Double-click the DIR-505.

- - × G v 🗣 🕨 Network 🕨 + + Search Network Q s • 🗆 🔞 Organize 🔻 Network and Sharing Center Add a printer Add a wireless device 🛯 🙀 Favorites Computer (1) Recently Change SP3X3-PC E Desktop bownloads Media Devices (1) 📜 Recent Places B SP3X3-PC: SP3X3: a 詞 Libraries Documents > 👌 Music Network Infrastructure (1) Select a file to preview. Pictures DIR-615 Videos 🜏 Homegroup 4 🜉 Computer 🕨 🏭 Local Disk (C:) > _ Local Disk (D:) Public () SP3X3-1 * 4 m 3 items
- Input the WPS PIN number (displayed in the WPS window on the Router's LCD screen or in the Setup > Wireless Setup menu in the Router's Web UI) and click Next.

0	🖉 Set Up a Network	
8	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 router or in the printed information that came from the manufacturer. PIN:	
	<u> </u>	Vext Cancel

5. Type a name to identify the network.

 Image: Set Up a Network

 Give your network a name

 Your network needs a unique name so that it can be easily identified. It is best to keep the name short (25 characters or less) and recognizable.

 Type your network name:

 D-Link_Net

 Change passphrase, security level and encryption type (advanced):

 Image: Upgrade or replace the router using the network settings stored on this computer

 Next

 Cancel

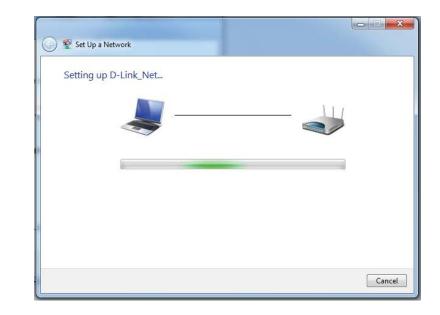
6. To configure advanced settings, click the \bigcirc icon.

Click **Next** to continue.

_	
Give your network a name	
Your network needs a unique name so characters or less) and recognizable.	o that it can be easily identified. It is best to keep the name short (2)
Type your network name:	Security-enabled network
D-Link_Net	Your network is being set up using WPA2-Personal.
Change passphrase, security level and Security key:	Security level:
f6mm-gizb-9vmv	WPA2-Personal (Recommended)
Connect automatically	Encryption type:
	AES (Recommended)
B Upgrade or replace the router usin	g the network settings stored on this computer

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

Wait for the configuration to complete.



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

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

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

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

Windows Vista®

Windows Vista[®] users may use the built-in wireless utility. If you are using another company's utility or Windows[®] 2000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows Vista[®] utility as seen below.

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

or

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

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

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





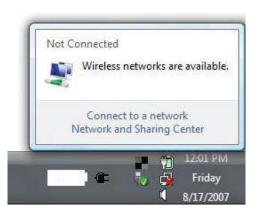
WPA/WPA2

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

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

2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.







3. Enter the same security key or passphrase that is on your router and click **Connect**.

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

Туре	e the network security key or passphrase for Candy
The p	erson who setup the network can give you the key or passphrase.
Secur	ity key or passphrase:
C Dis	splay characters
a	If you have a <u>USB flash drive</u> with network settings for Candy, insert it now.

WPS/WCN 2.0

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

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

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

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

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

Windows® XP

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

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

or

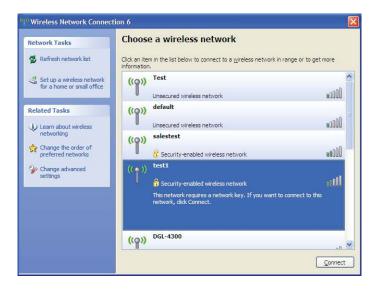
Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

The utility will display any available wireless networks in your area. Click on a 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.







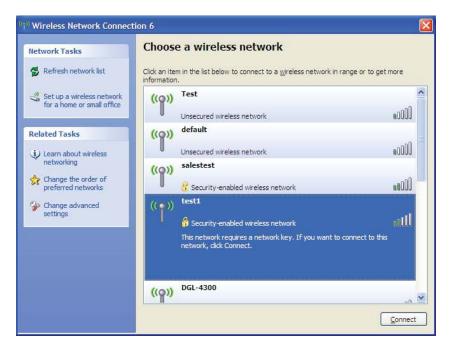
WPA/WPA2

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 wireless network (SSID) you would like to connect to and click **Connect**.





Section 7 - Connecting a Wireless Client

3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK passphrase 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 WPA-PSK passphrase must be exactly the same as on the wireless router.

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

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-505. Read the following descriptions if you are having problems. The examples below are illustrated in Windows[®] XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.

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

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

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer[®] 6.0 and higher
 - Mozilla Firefox 3.0 and higher
 - Google[™] Chrome 2.0 and higher
 - Apple Safari 3.0 and higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows[®] XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

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

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

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

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

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

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

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

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

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

Example: ping yahoo.com -f -l 1472

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

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

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

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

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

Wireless Basics

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

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

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

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

What is Wireless?

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

Why D-Link Wireless?

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

How does wireless work?

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

Wireless Local Area Network (WLAN)

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

Wireless Personal Area Network (WPAN)

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

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

Who uses wireless?

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

Home

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

Small Office and Home Office

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

Where is wireless used?

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

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

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

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

Networking Basics

Check your IP address

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

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

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

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

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

C> Copyright 1985-2001 Microsoft Corp. C:\Documents and Settings>ipconfig Findows IP Configuration	📾 C:\WINDOWS\system32\cmd.exe	- 🗆
Findows IP Configuration Ethernet adapter Local Area Connection: Connection-specific DNS Suffix . : dlink IP Address : 10.5.7.114 Subnet Mask : 255.255.255.0	Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	
Connection-specific DNS Suffix . : dlink IP Address : 10.5.7.114 Subnet Mask : 255.255.255.0	C:\Documents and Settings>ipconfig	
Connection-specific DNS Suffix . : dlink IP Address : 10.5.7.114 Subnet Mask : 255.255.255.0	Windows IP Configuration	
	IP Address	
:\Documents and Settings>_	C:\Documents and Settings>_	

Statically Assign an IP address

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

Step 1

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

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

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

Step 2

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

Step 3

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

Step 4

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

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

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

Step 5

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

General	
	d automatically if your network supports sed to ask your network administrator fr
🔿 Obtain an IP address autor	natically
Subsethe following IP addres	55:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address	s automatically
👝 Use the following DNS ser	ver addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	10 51 32
	Advanced

Technical Specifications

Standards

- IEEE 802.11g, compatible with 802.11n devices
- IEEE 802.3
- IEEE 802.3u

Wireless Modes

- Router/AP Mode
- Repeater Mode
- Wi-Fi Hot Spot Mode

Wireless Frequency Range¹

• 2.4 GHz to 2.4835 GHz

Antennas

Internal Antenna

Security

- Wi-Fi Protected Access (WPA/WPA2)
- WPS[™] (PBC)

Advanced Features

- SharePort[™] Mobile app for iOS ²
- QRS Mobile setup app for iOS ³
- VPN pass-through
- Guest Zone Support
- UPnP[™] Support
- Web File Access Support
- Wi-Fi WMM Quality of Service

¹ Frequency Range varies depending on local regulations

- ² SharePort Mobile app functionality only available when in Router or Wi-Fi Hotspot mode.
- ³ QRS Mobile app is for Router mode setup only.

Advanced Firewall Features

- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- MAC Address Filtering
- DMZ Support

Device Management

• Web UI

Diagnostic LEDs

Power/WPS

Operating Temperature

• 0 to 40 °C (32 to 104 °F)

Operating Humidity

• 0% to 90% non-condensing

Certifications

- CE
- Wi-Fi Certified
- FCC
- ۰IC

Dimensions

• 68 x 42 x 51 mm (2.68 x 1.65 x 2 inches)

Weight

• 113.4 grams (0.25 lb)

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http://tsd.dlink.com.tw/GPL.asp

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Where such specific license terms entitle you to the source code of such software, D-Link will provide upon written request via email and/or traditional paper mail the applicable GPL and LGPLsource code files via CD-ROM for a nominal cost to cover shipping and media charges as allowed under the GPL and LGPL.

Please direct all inquiries to: Email: GPLCODE@DLink.com Snail Mail: Attn: GPLSOURCE REQUEST D-Link Systems, Inc. 17595 Mt. Herrmann Street Fountain Valley, CA 92708

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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Safety Statements

CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement:

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

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

Operations in the 5.15-5.25GHz / 5.470 ~ 5.725GHz band are restricted to indoor usage only.

IMPORTANT NOTICE: FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

ICC Notice:

Operation is subject to the following two conditions:

1) This device may not cause interference and

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

IMPORTANT NOTE: IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

- (i) The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;
- (ii) The maximum antenna gain (2dBi) permitted (for devices in the band 5725-5825 MHz) to comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate, as stated in section A9.2(3).

In addition, users should also be cautioned to take note that high-power radars are allocated as primary users (meaning they have priority) of the bands 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

- (1) Ce périphérique ne doit pas causer d'interférence et.
- (2) Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

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