D-Link[®]



User Manual

Wireless N 300 Cloud Router

DIR-605L

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	December 02, 2011	First release version
4.0	August 22, 2012	• First update
5.0	December 13,2013	Second update

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Package Contents



Note: Always attach the power cord plug to the power supply, before inserting the power cord and connected power supply to the wall outlet. Using a power supply with a different voltage rating than the one included with the DIR-605L will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based Cable or DSL modem IEEE 802.11b, 802.11g, 802.11n 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 2.0 or higher Windows [*] Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.

Features

- Faster Wireless Networking The DIR-605L provides up to 300 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 802.11b and 802.11g Devices** The DIR-605L is fully compatible with the IEEE 802.11b and IEEE 802.11g standards, so it can connect with existing 802.11b and IEEE 802.11g wireless adapters and devices.
- mydlink Cloud Service The DIR-605L features a new mydlink cloud service that pushes information such as firmware upgrade notifications, user activity, and intrusion alerts, to the mydlink app on Android and Apple mobile devices. You can monitor a user's online activity with real-time Web-browsing history, maintaining a safe and secure environment, especially for children at home. To ensure that your router is up-to-date with the latest features, mydlink will also notify you when an update is available for your router.
- Easy Setup Wizard Through its easy-to-use Web-based user interface, the DIR-605L lets you control what information is accessible to those on the wireless network, whether from the Internet or from your internal network. Simply configure your router to your specific settings within minutes.

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



1	Power LED	A solid green light indicates a proper connection to the power supply.
2	Internet	A solid light indicates connection on the WAN port. This LED blinks during wireless data transmission.
3	Wireless LED	A solid light indicates that the wireless segment is ready. This LED blinks during wireless data transmission.
4	LAN	A solid light indicates connection on the LAN port. This LED blinks during wireless data transmission.

Hardware Overview Connections



1	LAN Ports (1-4)	Connect Ethernet devices such as computers, switches, and hubs.
2	Internet Port	Connect your DSL, cable modem or other Internet connection here to provide Internet connectivity to the router.
3	Power Receptor	Receptor for the supplied power adapter.
4	Reset	Pressing the Reset button restores the router to its original factory default settings.

Installation

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

Before You Begin

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

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 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Connect to Cable/DSL/Satellite Modem

If you are connecting the router to a cable/DSL/satellite modem, please follow the steps below:

- 1. Place the router in an open and central location. Do not plug the power adapter into the router.
- 2. Turn the power off on your modem. If there is no on/off switch, then unplug the modem's power adapter. Shut down your computer.
- **3.** Unplug the Ethernet cable (that connects your computer to your modem) from your computer and plug it into the WAN port on the router.
- 4. Plug an Ethernet cable into one of the four LAN ports on the router. Plug the other end into the Ethernet port on your computer.
- 5. Turn on or plug in your modem. Wait for the modem to boot (about 30 seconds).
- **6.** Connect the power adapter to the router and plug it into an outlet or power strip. Wait about 30 seconds for the router to boot.
- 7. Turn on your computer.
- 8. Verify the link lights on the router. The Power, Internet, and the LAN LEDs (the port that your computer is plugged into) should be lit. If not, make sure your computer, modem, and router are powered on and verify the cable connections are correct.
- 9. Go to page 9 to configure your router.

Configuration Easy Setup Wizard

This section will show you how to configure your new D-Link wireless router using the Easy Setup Wizard.

Step 1: To access the configuration utility, open a Web browser such as Internet Explorer and enter the IP address of the router (192.168.0.1) or **http://dlinkrouter**.

Step 2: Select your preferred language and click **Start**.

Step 3: Select **Auto Configuration** (or **Manual Configuration** if you wish to manually configured your settings) and click **Next** to continue.

Step 4: If you selected **Auto Configuration**, the router will detect your Internet type.



WELCOME TO THE D-LINK EASY SETUP WIZARD
Welcome to the easy setup wizard, this will guide you through the steps required to setup your D-Link router
Select your language: English
Start



WELCOME TO TH	E D-LINK EASY SETUP WIZARD
The router is dete settings for your	icting your Internet connection type. Please wait until the router provides suitable configuration.

Step 5: You can configure your custom wireless settings on the next screen. Click **Next** when you are done.

Step 6: You can change the username and password for your router's administrator account. Click **Next** when you are done.

Step 7: Select the Time Zone for your location. Click **Next** to save the settings. The "Easy Setup Complete" page will display your configuration summary.

Step 8: Click **Configure** next to "mydlink Account" to proceed to setup mydlink service;

OR

Click **Save** to skip mydlink and store your settings.

Internet Connection	
The result of Wan auto detection	on is: Dynamic IP (DHCP)
Internet Connec	tion: Dynamic IP (DHCP) V What is this?
Wireless Settings	
Network Name (SSID)	dlink
Security Mode	 Disable Wireless Security (Not recommended)
	O AUTO-WPA/WPA2(Recommended)
Network Key	
	Auto generate network key
	Prev
TED 2. CET YOUR DACGWORD	
TEP 2. SET TOOK PASSWORD	
y default, your new D-Link Router do	pes not have a password configured for administrator ad
he Web-based configuration pages. To	o secure your new networking device, please set and ve
assword below	
Pass	sword :
Confirm Pass	sword :
Government Pass	
	Prev Next
STEP 3: SELECT YOUR TIME ZONE	
STEP 3: SELECT YOUR TIME ZONE	location. This information is required to configure the time-base
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STEP 3: SELECT YOUR TIME ZONE Select the appropriate time zone for your l for the router. Time Zone : (GMT EASY SETUP COMPLETE After clicking the "Save" button, you device when logging in next time. Internet Settings Internet Connection Wireless Settings Wireless Network Name (SS Secu Network Device Info User N Passv mydlink Account You have not activated	location. This information is required to configure the time-base F408:00) Taipei Prev Next need to provide your username and password to acces : Dynamic IP (DHCP) Status : Disconnected SID) : dir605-dan Status : Encryption Con ritty : Auto (WPA or WPA2) - Personal Key : 1111111 tame : admin word : 111111

Save my network settings

Save

Step 9: If you do not have a mydlink account, click **No, I want to register with a new mydlink account** and complete the registration form.

Click Register.

OR

If you already have a mydlink account, click **Yes, I have a mydlink account** and enter your account name and password.

Click Login.

Step 10: On the next screen, there will be a note indicating mydlink service is activated and the status will show "Connected". You have completed the setup wizard and can click **Manual Setup** to continue to the management UI or simply close your browser.

Do you have mydlink ac	count?
Yes, I have a mydl	ink account.
No, I want to regis	ster and login with a new mydlink account.
Please fulfill the o	ptions to complete the registration.
E-mail Address (Account Name):	What is this?
Password :	
Confirm Password :	
Last name:	
First Name :	
If you want to configure the device password at and select "Device Administration"	fter registering mydlink account, please go to "manual configuration" in "maintenance" section after you log in the device
	an maneenance beccondical you log in cite demeen
	Accept the mydlink terms and conditions. Register Back
	Register Back
CONFIGURE YOUR MYDLINK ACCOUNT	Accept the mydlink terms and conditions. Register Back
CONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlink ac	Register Back count?
CONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlink ac @ Yes, I have a mydl	Accept the mydlink terms and conditions. Register Back count? ink account.
CONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlink ac	Accept the mydlink terms and conditions. Register Back count? Ink account. ster and login with a new mydlink account.
CONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlink ac	Accept the mydlink terms and conditions. Register Back count? Ink account. ster and login with a new mydlink account.
CONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlik ac Yes, I have a mydl No, I want to regit E-mail Address (Account Name) : December 1	Accept the mydlink terms and conditions. Register Back count? ink account. ster and login with a new mydlink account.
CONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlink ac @ Yes, I have a mydl O No, I want to regit E-mail Address (Account Name) : Password :	Accept the mydlink terms and conditions. Register Back count? ink account. ster and login with a new mydlink account.
ONFIGURE YOUR MYDLINK ACCOUNT Do you have mydlink ac @ Yes, I have a mydl O No, I want to regu E-mail Address (Account Name) : Password :	Accept the mydlink terms and conditions. Register Back count? Ink account. ster and login with a new mydlink account.

CURRENT NETWORK SETTING			
The current network settings and the connection status are displayed below. If you want to reconfigure your wireless settings, please click the "Configure" button. You can also enter advanced settings by clicking "Manual Setup".			
Internet Settings			
Internet Connection : Dynamic IP (DHCP)	Status : Connected		
Wireless Settings			
Network Name (SSID) : dir605-dan	Status : Encryption	Configure	
Security : Auto (WPA or WPA	A2) - Personal		
Network Key: 11111111			
Device Info			
User Name : admin			
Password : 111111			
mydlink Account			
You have activated mydlink service.	Status : Connected	Configure	
Cancel) Manual Setup			

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Section 3 - Configuration

The next time you access the router's IP from your browser, you will need to log in with the username and password for the administrator account. Click **Login**.

The current network settings will be shown and you can click **Manual Setup** to continue to the management UI for further configuration.

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

CURRENT NETWORK SETTING		
The current network settings and the connection status are di reconfigure your wireless settings, please click the "Configure" settings by clicking "Manual Setup".	isplayed below. If you w button. You can also e	vant to nter advanced
Internet Settings		
Internet Connection : Dynamic IP (DHCP)	Status : Connected	
Wireless Settings		
Network Name (COID) a discost das		Carfaire
Network Name (SSID) : dirous-dan	Status : Encryption	Configure
Security : Auto (WPA or WPA2	2) - Personal	
Network Key : 11111111		
Device Info		
User Name : admin		
Password : 111111		
mydlink Account		
You have activated mydlink service.	Status : Connected	Configure
Cancel Manual Setup]	

Section 3 - Configuration

After the router is connected to mydlink service, you can download the "mydlink lite" app from Google Play or App Store for your mobile device!

After installation, simply log in with your mydlink account details and you can manage your router from anywhere!





Internet Connection Setup Static IP (assigned by ISP)

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

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

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

Default Gateway: Enter the gateway assigned by your ISP.

MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP.

You can use the **Copy Your PC's MAC Address** button to copy the MAC address of the Ethernet card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Primary DNS Enter the primary DNS server IP address assigned by your ISP. Address:

Secondary DNS Enter an optional secondary DNS address. Address:

> MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1492 is the default MTU.

INTERNET CONNECTION TYPE	
Choose the mode to be used by the r	puter to connect to the Internet.
My Internet Connection is : Static	IP 💌
STATIC IP ADDRESS INTERNET CO	NNECTION TYPE
Enter the static address information	provided by your Internet Service Provider (ISP).
IP Address : 0.0.0.0	
Subnet Mask : 255.25	5.255.0
Default Gateway : 0.0.0.0	
MAC Address : 00	- 00 - 00 - 00 - 00 - 00 (optional)
Сору	Your PC's MAC Address
Primary DNS Server : 0.0.0.0	
Secondary DNS Server : 0.0.0.0	(optional)
MTU: 1500	bytes MTU default 1500
Save Settings Don't Save Settings	

Internet Setup Dynamic IP (DHCP)

To manually set up the Internet connection, click the **Manual Internet Connection Setup** button on the router's opening window. Click **Save Settings** to apply them.

- Dynamic IP Choose Dynamic IP Address to obtain IP address information Address: automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for cable modem services.
- Host Name: The host name is optional but may be required by some ISPs. The default host name is the device name of the router and may be changed.
- MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP.

You can use the **Copy Your PC's MAC Address** button to copy the MAC address of the Ethernet card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Primary and Enter the primary and secondary DNS (Domain Name Secondary DNS Server) server IP addresses assigned by your ISP. Addresses:

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

INTERNET CONNECTION TYPE
Choose the mode to be used by the router to connect to the Internet.
My Internet Connection is : Dynamic IP (DHCP)
DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE
Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password.
Host Name : DIR-501
MAC Address : 00 - 00 - 00 - 00 - 00 (optional)
Copy Your PC's MAC Address
Primary DNS Server : 0.0.0.0
Secondary DNS Server : 0.0.0.0 (optional)
MTU : 1500 bytes MTU default 1500

Save Settings Don't Save Settings

Internet Setup PPPoE

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

- **PPPoE:** Select **Dynamic** (most common) or **Static**. Select **Static** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.
- **User Name:** Enter your PPPoE user name.
- **Password:** Enter your PPPoE password, then retype the password in the next box.
- Service Name: Enter the ISP service name (optional).
 - IP Address: Enter the IP address (Static PPPoE only).
- MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP.

You can use the **Copy Your PC's MAC Address** button to copy the MAC address of the Ethernet card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

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

Choose the	mode to be used by	the router to connect to the Internet.
My In	ternet Connection is :	PPPoE(Username / Password)
PPPOE		
Enter the in	formation provided	by your Internet Service Provider (ISP).
		Oynamic IP (DHCP) Static IP
	User Name :	
	Password :	•••••
	Confirm Password :	••••••
	Service Name :	(optional)
	IP Address :	0.0.0.0
	MAC Address :	00 - 00 - 00 - 00 - 00 - 00 (optional)
		Copy Your PC's MAC Address
		Receive DNS from ISP Enter DNS Manually
	Primary DNS Server :	0.0.0
Se	econdary DNS Server :	0.0.0.0 (optional)
	Maximum Idle Time :	5 (minutes, 0=infinite)
	MTU :	1492 bytes MTU default 1492
Cor	nnection mode select :	Always - Add New
		Manual Oconnection-on demand

- Maximum Idle Enter a maximum idle time during which the Internet Time: connection is maintained during inactivity.
 - MTU: Maximum Transmission Unit You may need to change the MTU for optimal performance with your specific ISP. *1492* is the default MTU.

Connection Select either **Always-on**, **Manual**, or **Connect-on demand**. **Mode Select:**

Internet Setup PPTP

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

PPTP: Select Dynamic (most common) or Static. Select Static if
your ISP assigned you the IP address, subnet mask, gateway,
and DNS server addresses.

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

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

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

- Primary DNS The DNS server information will be supplied by your ISP Server: (Internet Service Provider.)
- MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP.

You can use the **Copy Your PC's MAC Address** button to copy the MAC address of the Ethernet card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Server IP: Enter the server IP address provided by your ISP (optional).

PPTP Account: Enter your PPTP account name.

INTERNET CONNECTION TYP	E
Choose the mode to be used by	the router to connect to the Internet.
My Internet Connection is :	PPTP(Username / Password)
PPTP INTERNET CONNECTION	N TYPE :
Enter the information provided	by your Internet Service Provider (ISP).
	Oynamic IP (DHCP) Static IP
PPTP IP Address :	0.0.0.0
PPTP Subnet Mask :	255.255.255.0
PPTP Gateway IP Address :	
Primary DNS Server :	0.0.0.0
MAC Address :	00 - 00 - 00 - 00 - 00 (optional)
	Copy Your PC's MAC Address
PPTP Server IP Address :	0.0.0.0
User Name :	
Password :	
Confirm Password :	
Maximum Idle Time :	5 (minutes, 0=infinite)
MTU :	1400 bytes
Connection mode select :	C Always - Add New
	Manual Connection-on demand
Save Settings Dep't Save Settings	

- **PPTP Password:** Enter your PPTP password, then retype the password in the next box.
- Maximum Idle Enter a maximum idle time during which the Internet Time: connection is maintained during inactivity.
 - MTU: Maximum Transmission Unit You may need to change the MTU for optimal performance.

Connect Mode: Select either **Always-on**, **Manual**, or **Connect-on demand**.

Internet Setup L2TP

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

L2TP:	Select Dynamic (most common) or Static . Select Static if
	your ISP assigned you the IP address, subnet mask, gateway,
	and DNS server addresses.

IP Address: Enter the IP address (Static L2TP only).

Subnet Mask: Enter the primary and secondary DNS server addresses (Static L2TP only).

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

- Primary DNS The DNS server information will be supplied by your ISP Server: (Internet Service Provider.)
- MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the broadband router. It is not recommended that you change the default MAC address unless required by your ISP.

You can use the **Copy Your PC's MAC Address** button to copy the MAC address of the Ethernet card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Server IP: Enter the server IP address provided by your ISP (optional).

L2TP Account: Enter your L2TP account name.

INTERNET CONNECTION TYP	E
Choose the mode to be used by	the router to connect to the Internet.
My Internet Connection is :	L2TP(Username / Password)
L2TP INTERNET CONNECTIO	N TYPE :
Enter the information provided	by your Internet Service Provider (ISP).
	Oynamic IP (DHCP) Static IP
L2TP IP Address :	0.0.0.0
L2TP Subnet Mask :	255.255.255.0
L2TP Gateway IP Address :	
Primary DNS Server :	0.0.0.0
MAC Address :	00 - 00 - 00 - 00 - 00 (optional)
	Copy Your PC's MAC Address
L2TP Server IP Address :	0.0.0.0
User Name :	
Password :	
Confirm Password :	
Maximum Idle Time :	5 (minutes, 0=infinite)
MTU :	1400 bytes
Connection mode select :	O Always - Add New
	Manual Connection-on demand

Save Settings Don't Save Settings

- L2TP Password: Enter your L2TP password, then retype the password in the next box.
- Maximum Idle Enter a maximum idle time during which the Internet Time: connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.
 - MTU: Maximum Transmission Unit You may need to change the MTU for optimal performance with your specific ISP.

Connect Mode: Select either Always-on, Manual, or Connect-on demand.

Wireless Connection Setup Using the Setup Wizard

Wireless settings for the router may be configured manually or by using a wizard. To use the wizard, click the **Wireless Connection Setup Wizard** button, then follow the steps described below. To configure the wireless settings manually, click the **Manual Wireless Connection Setup** button. The parameters for this window are described later in this section. The Wireless Security section that directly follows this section provides additional explanation on how to configure the WEP, WPA, WPA2, and WPA/WPA2 wireless security mode options.

Step 1: Click Next to continue.



WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD
This wizard will guide you through a step-by-step process to set up your wireless network and make it secure.
Step 1: Set your Wireless Network. Step 2: Set your Wireless Security Password
Next Cancel

Step 2: Enter a Wireless Network Name, select **Manually assign a network key**, then click **Next** to continue.

Note: Tick Use WPA encryption for better security.

STEP 1: SETUP YOUR WIRELESS NETWORK
Give your network a name, using up to 32 characters.
Manager Manager (State)
Wireless Network Name (SSID) dlink (Also called the SSID)
No Encription
 Automatically assign a network key (Recommended)
To prevent outsides from accessing you network, the router will automatically assign a security key(also called WEP or WPA key) to your network.
Manually assign a network key
Use this option if you prefer to create your own key.
Use WPA encryption instead of WEP (WPA is stronger than WEP and all D-LINK wireless client adapters support WPA)
Prev Next Cancel

Step 3: Enter a Wireless Security Password and click **Next** to continue.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD
You have selected your security level - you will need to set a wireless security password. The WEP (Wired Equivalent Privacy) key must meet one of following guildelines: - Exactly 5 or 13 characters - Exactly 10 or 26 characters using 0-9 and A-F A longer WEP 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

Step 4: This window displays a summary of your wireless security settings. Print this out or record this information for storage in a safe place, then click **Save** to continue.

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters. Wireless Network Name (SSID) : clink Wep Key Length : 64 bits

Default WEP Key to Use : 1

SETUP COMPLETE!

Authentication : Open

Wep Key : 1234567890

Note: In some smart wireless ultilities (e.g. DLINK wireless ultility or wireless zero configuration), you only select Wireless Network Name and enter Network Key to access Internet.

Cancel

Prev Save

The router will save your new settings and reboot. After the process completes, the management page will be displayed.

Wireless Security

- 1. To enable wireless security on the router, use the drop-down menu to select the desired option. To enable WEP, select *Enable WEP Wireless Security (basic)*.
- **2.** Next to **Authentication**, select either *Open* or *Shared Key*. Shared Key provides greater security.
- **3.** Select either *64-bit* or *128-bit* encryption from the drop-down menu next to **WEP Encryption**.
- 4. Next to **Default Key Type**, select *WEP Key 1* and enter a WEP key that you create. Make sure you enter this key exactly on all your wireless devices. You may enter up to four different keys either using *Hex* or *ASCII*. *Hex* is recommended (letters A-F and numbers 0-9 are valid). In *ASCII* all numbers and letters are valid.
- **5.** Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WEP on your adapter and enter the same WEP key as you did on the router.

WIRELESS SECURITY MODE					
Security Mode	: Enable WEP Wireless Security (basic)				
Enable WEP Wireless Security (hot recommended)					
WEP	Enable WPA Only Wireless Security (enhanced) Enable WPA2 Only Wireless Security (enhanced) Enable WPA/WPA2 Wireless Security (enhanced)				
WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to 'Shared Key' when WEP is enabled.					
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.					
, den en dea de de					
Wep Key Length	: 64Bit 💌				
Default WEP Key to Use	: WEP Key 1 💌				
WEPPassword	: (5 ASCII or 10 HEX)				

NOTE:

It is recommended to enable encryption on your wireless router before connecting your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

- 1. To enable WPA, WPA2, or WPA/WPA2, select either Enable WPA Only Wireless Security (enhanced), Enable WPA2 Only Wireless Security (enhanced), or Enable WPA/WPA2 Wireless Security (enhanced).
- 2. Next to Cipher Type, select TKIP, AES, or Both.
- 3. Next to **PSK/EAP**, select *PSK*.
- 4. Next to **Network Key**, enter a passphrase. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. Make sure you enter this key exactly the same on all other wireless clients.
- **5.** Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WPA, WPA2, or WPA/WPA2 (whichever of the three options you have selected above) on your adapter and enter the same network key as you did on the router.

WIRELESS SECURITY MODE					
Security Mode ;	Enable WPA Only Wireless Security (enhanced)				
WPA ONLY					
WPA Only requires stations to use high grade encryption and authentication.					
Cipher Type :					
PSK / EAP :	PSK 💌				
Network Key :	(8~63 ASCII or 64 HEX)				

WIRELESS SECURITY MODE					
Security Mode ;	Enable WPA2 Only Wireless Security (enhanced) 💌				
WPA2 ONLY					
WPA2 Only requires stations to use high grade encryption and authentication.					
Cipher Type :	TKIP 💌				
PSK / EAP :	PSK 💌				
Network Key :	(8~63 ASCII or 64 HEX)				

WIRELESS SECURITY MODE				
Security Mode : Enable WPA/WPA2 Wireless Security (enhanced) 💌				
WPA/WPA2				
WPA/WPA2 requires stations to use high grade encryption and authentication.				
Cipher Type : TKIP 💌 PSK / EAP : PSK 💌				
Network Key : (8~63 ASCII or 64 HEX)				
Save Settings Don't Save Settings				

Manual Wireless Connection Setup

You can configure your specific wireless network settings in this section. Click **Save Settings** to apply them.

- Wi-Fi Protected To implement WPS, tick the Enable checkbox. Click either
 Setup: Generate New PIN or Reset PIN to Default, then configure the Wi-Fi settings below. Click Add Wireless Device with WPS to connect a WPS-enabled device.
- Wireless Mode: Select between Wireless Router, Access Point, WDS Only, WDS +AP, WDS +AP +Router modes.
- Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.
- Wireless Network Service Set Identifier (SSID) is the name of your wireless Name: network. Create a name using up to 32 characters. The SSID is case-sensitive.

Enable Auto This setting can be selected to allow the DIR-605L to choose **Channel Selection:** the channel with the least amount of interference.

- **Wireless Channel:** Indicates the channel setting for the DIR-605L. By default the channel is set to *6*. The channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network.
- Transmission Rate: Use the drop-down menu to select the appropriate Transmission Rate in Mbits per second. Many users will want to use the default setting, *Best (automatic)*.
 - WMM Enable: Enable Wi-Fi Multimedia to enjoy basic quality of service features. WMM prioritizes traffic according to four access categories: voice, video, best effort, and background.



Enable Hidden Check this option if you would not like the SSID of your Wireless: wireless network to be broadcasted by the DIR-605L. If this option is checked, the SSID of the DIR-605L will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-605L in order to connect to it.

Wireless Security Select between WEP, WPA Only, WPA2 Only, WPA/WPA2, Mode: or Disabled wireless security. The fields below will change according to your choice and you can set a custom key for your network. You can refer to "Wireless Security" on page 58 for more details on these settings.

LAN Setup

This section will allow you to change the local network settings of the router and to configure the DHCP settings. Click **Save Settings** to apply your 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 **Apply**, you will need to enter the new IP address in your browser to get back into the configuration utility.

- Default Subnet Enter the subnet mask. The default subnet mask is Mask: 255.255.255.0.
- Local Domain Enter the Domain name (Optional). Name:
- Enable DNS Check the box to transfer the DNS server information from Relay: your ISP to your computers. If unchecked, your computers will use the router as its DNS server.

SETUP	ADVANCED	MAINTENANCE	STATUS			
LAN SETUP						
Use this section to configure the internal network settings of your router and also to configure the built-in DHCP Server to assign IP addresses to the computers on your network. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.						
Please note that this section is optional and you do not need to change any of the settings here to get your network up and running.						
Save Settings	Don't Save Settings]				
ROUTER SETTINGS	ROUTER SETTINGS					
Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.						
Router IP	Address: 192.168.0.1					
Subne	et Mask : 255.255.255.0					
Local Domair	n Name :					
Enable DN	IS Relay: 📝					

Enable DHCP Check the box to enable the DHCP server on your router. **Server:** Uncheck to disable this function.

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

- DHCP Lease The length of time for the IP address lease. Enter the Lease Time: time in minutes.
- DHCP Client List: Displays currently connected client details.
 - Avoid ARP Tick this to enable ARP spoofing prevention feature. Attack:

DHCP Enter the MAC address of specific clients to reserve an IP **Reservation:** address for each one.

Use this section your network.	to comig	jure the duilt-in D	HCP Server to assign IP a	ddresses to the computers o
Ena	ble DHCP	Server : 🔽		
dhcp II D	P Address HCP Leas	Range : 100 e Time : 1440	to 199 (address with (minutes)	hin the LAN subnet)
DHCP CLIEN	T LIST			
Host Name IP Address MAC Address Expired Time				
07904PCWIN7	E 1	92.168.0.100	44:37:e6:b5:ff:3d	23 Hours 10 Minutes
A 24Dhcp Ri	void Arp /	Attack : 📄		
A 24DHCP RI Remaining numl	void Arp / ESERVA ber of clie	Attack : 📄 TION nts that can be c	onfigured : 24	
A 24DHCP RI Remaining num	void Arp / ESERVA	Attack : 📄 TION nts that can be c	onfigured : 24	
A 24DHCP R Remaining num Compute	eserva ber of clie	Attack : TION TIS that can be c IP Address	onfigured : 24 MAC Address	
A 24DHCP RI Remaining num Compute	void Arp / ESERVA ber of clie	Attack : TION nts that can be c IP Address	onfigured : 24 MAC Address	< Computer Name
A 24DHCP R Remaining num Compute	void Arp / ESERVA ber of clie	Attack :	onfigured : 24 MAC Address	<
A 24DHCP RI Remaining num Compute	void Arp / ESERVA ber of clie	Attack : TION Its that can be c IP Address	onfigured : 24 MAC Address	<

Time and Date

This section will allow you to configure, update, and maintain the correct time on the internal system clock of the device. Click **Save Settings** to apply your settings.

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

Enable Ticking this checkbox enables Daylight Saving time. Click **Daylight Sync your computer's time settings** to copy your PC's **Saving:** time settings.

NTP Tick the Automatically synchronize with D-Link's Internet Server time server checkbox, then use the drop-down menu to Used: select an NTP server. NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers.

Set the Date and To manually input the time, enter the values in these fields Time Manually: for the Year, Month, Day, Hour, Minute, and Second. Click Save Settings.

SETUP	ADVANCED	MAINTENANCE	STATUS		
TIME AND DATE					
The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.					
TIME AND DATE CO	NFIGURATION				
Ті	me : 2011Year3Month25Day	(s)Fri 3:41:56			
Time Zo	ne: (GMT+08:00) Beijing, C	hongqing, Hong Kong, Urum	iqi 💌		
Enable Daylight Savi	ing: Sync. your compu	ter's time settings			
AUTOMATIC TIME A	ND DATE CONFIGURA	FION			
Automatically syn	chronize with D-Link's I	nternet time server			
NTP Server Used : ntp1.dlink.com v Update Now					
SET THE DATE AND TIME MANUALLY					
Year 2011 ▼ Hour 03 ▼	Month Mar Minute 41	Day(s) Second	25 💌 50 💌		
Save Settings Don't Save Settings					

Parental Control Rules

This feature allows you to create a list of websites that you want to either allow or deny users access. Click **Save Settings** to apply your settings.

Configure Select Turn Parental Control OFF, Turn Parental Control Parental ON and ALLOW computers access to ONLY these sites, Control: or Turn Parental Control ON and DENY computers access to ONLY these sites.

- Website URL: Enter the keywords or URLs that you want to block (or allow). Any URL with the keyword in it will be blocked.
 - Schedule: The schedule of time when the parental control filter will be enabled. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times by clicking **Add New** as well as in the **Maintenance** > **Schedules** section.

SETUP	ADVANCED	MAINTENANCE	STATUS			
PARENTAL CONTROL RULES						
Parental Control provides the useful tools for restricting Internet access. Website URL allows you to quickly create a list of all web sites that you wish to allow or deny users from accessing. Schedule allows you to control when clients or PCs connected to Router are allowed to access the Internet. Save Settings Don't Save Settings						
10 PARENTAL CO	10 PARENTAL CONTROL RULES					
Configure Parental Contr	ol below:					
Turn Parental Control O Remaining number of rule	FF es that can be created : 10	•				
nemaning number of fai						
	Webite URL		Schedule			
		Alw	ays 👻 Add New			
		Alw	ays 💌 Add New			
		Alwa	ays 💌 Add New			
		Alwa	ays 💌 Add New			
		Alw	ays 👻 Add New			
		Alw	ays 👻 Add New			
		Alw	ays 👻 Add New			
		Alw	ays 👻 Add New			
		Alw	ays 💌 Add New			
		Alw	ays 💌 Add New			

Advanced Advanced Port Forwarding Rules

This will allow you to open a single port or a range of ports. Click **Save Settings** to apply your settings.

Rule: Check the box to enable the rule.

- Name: Enter a name for the rule. You can also choose from the **Application Name** drop-down box.
- **IP Address:** Enter the IP address of the computer on your local network that you want to allow the incoming service to. You can also choose from the Application Name drop-down box.

Public Port/ Enter the port or range of ports that you want to open. If you **Private Port:** want to open one port, enter the same port in both boxes.

Traffic Type: Select TCP, UDP, or Any to specify the protocol.


Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Application rules let these applications trigger and pass through the DIR-605L's firewall. Click **Save Settings** to apply your settings.

Rule: Check the box to enable the rule.

- Name: Enter a name for the rule. You can also choose from the **Application Name** drop-down box.
- **Trigger Port:** This is the port used to trigger the application. It can be either a single port or a range of ports.
- **Firewall Port:** This is the port number on the WAN 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 TCP, UDP, or Any.



MAC Filtering

The MAC (Media Access Controller) Address filter option is used to control network access based on the MAC Address of the client device. This feature can be configured to ALLOW or DENY network/Internet access for this client. Click **Save Settings** to apply your settings.

Configure MAC Select how the rule will work: Turn MAC Filtering OFF, Turn Filtering below: MAC Filtering ON and ALLOW computers, or Turn MAC Filtering ON and DENY computers listed.

Rule: Check the box to enable the rule.

- MAC Address: Enter the MAC Address of the device that the rule will affect. You can also choose from the **DHCP Client List** drop-down box.
- Computer Name: Type a custom name for the client.
 - Schedule: This sets the schedule for when the filter will be enabled. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times by clicking **Add New** as well as in the **Maintenance** > Schedules section.

SETUP	ADVANCED	MAI	NTENANCE	STATUS
MAC FILTERING				
The MAC (Media Access Controller) Address filter option is used to control network access based on the MAC Address of the network adapter. A MAC address is a unique ID assigned by the manufacturer of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access. Save Settings Don't Save Settings				
24 MAC FILTERIN	G RULES			
Configure MAC Filtering b	Configure MAC Filtering below:			
Turn MAC Filtering OFF	Turn MAC Filtering OFF			
Remaining number of rules that can be created : 24				
MAC Addres	S	DHCP Client Li	st	Schedule
	< Comp	outer Name	- Alw	Add New
	< Comp	outer Name	- Alw	Add New
	< Comp	outer Name	- Alw	Add New
	< Comp	outer Name	- Alw	Add New

ACL Filter

Use ACL (Access Control Lists) Filter rules to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the network. You can manually add a MAC address and apply a rule. Click **Save Settings** to apply your settings.

Configure ACL Select **Close ACL filter** or **Turn ACL filtering ON and DENY Filter: computers listed to access the network.**

MAC Address: Enter the MAC address you would like to filter. To find the MAC address on a computer, please refer to the "Networking Basics" on page 79 section in this manual.

SETUP	ADVANCED	MAINTENANCE	STATUS
ACL FILTER			
The MAC (Media Access Controller) Address filter option is used to control network access based on the MAC Address of the network adapter. A MAC address is a unique ID assigned by the manufacturer of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access. Save Settings Don't Save Settings			
25 ACL FILTER	RULES		
Configure ACL filter:			
Turn ACL Filtering ON and	d DENY 🔻		
Remaining number of r	ules that		
can be created : 25			
MAC Addre	255		

Traffic Control

Traffic Control can guarantee bandwidth priority to specified LAN/Wireless clients. You can do this by setting up traffic control rules. Click **Save Settings** to apply your settings.

Enable Traffic Select this function to control the access bandwidth of **Control:** computer in LAN.

Automatic All the computers in LAN will have their bandwidth Distribute distributed equally. Bandwidth:

- Key in Download Key in the value in kbps to setup the bandwidth manually. Bandwidth Manually:
 - Key in Upload Key in the value in kbps to setup the upload bandwidth Bandwidth manually. Manually:
 - Traffic ControlWhen the option Automatic Distribute Bandwidth
Rules: is unchecked, you can select Guarantee minimum
bandwidth, Restrict maximum download bandwidth,
or Restrict maximum upload bandwidth of specific IP
addresses from their drop-down boxes.
 - Schedule: The schedule of time when the filter will be enabled. The schedule may be set to **Always**, which will allow the particular service to always be enabled. You can create your own times by clicking **New Scheduler** as well as in the **Maintenance** > Schedules section.

	SETUP	ADVANCED	MAINTENANCE	STATUS
TRA	FFIC CONTROL			
Traf setu	ffic Control can dist up the traffic contro	ribute download bandwidtl ol rules manually.	h equally to the LAN/Wirel	ess client. User also can
S	Save Settings	Don't Save Settings		
TRA	FFIC CONTROL	SETTING		
	Enable Traff	c Control:		
Aut	omatic Distribute Ba	andwidth: 🕡		
	Key in download b	andwidth o kbps	5	
	Key in upload b	andwidth	5	
		manually:	-	
5-TI	RAFFIC CONTRO	DL RULES		
	IP Range	Mode	Bandwidth(kbps)	Schedule
	IP Address			
	~	Guaranteed minimur 🔻		New Scheduler
	IP Address			
	~	Guaranteed minimur 💌		Always New Scheduler
	IP Address			
	~	Guaranteed minimur 🔻		Always New Scheduler
	IP Address			
	~	Guaranteed minimur 💌		Always New Scheduler
	IP Address			
	~	Guaranteed minimur 💌		Always New Scheduler

Firewall & DMZ

If you have a client PC that cannot run Internet applications properly from behind the DIR-605L, then you can set the client up for unrestricted Internet access. It allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the internal computer that will be the DMZ host. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort. Click **Save Settings** to apply your settings.

SETUP ADVANCED MAINTENANCE STATUS
FIREWALL & DMZ
Firewall rules can be used to allow or deny traffic passing through the router. You can specify a single port by utilizing the input box on the top or a range of ports by utilizing both input boxes.
DMZ means 'Demilitarized Zone'. DMZ allows computers behind the router firewall to be accessible to Internet traffic. Typically, your DMZ would contain Web servers, FTP servers and others. Save Settings Don't Save Settings
o open
ANTI-SPOOF CHECKING
Enable Anti-Spoof checking:
FIREWALL SETTINGS
Enable SPI: 📝
DMZ HOST
The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access.
Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.
Enable DMZ :
DMZ IP Address : 0.0.0 Computer Name
APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION
RTSP:

Name: Choose a name for the firewall rule.

- Action: Select to Allow or Deny transport of the data packets according to the criteria defined in the rule.
- **Source/Dest:** The Source/Destination is the TCP/UDP port on either the LAN or WAN side.
 - IP Address: Enter a beginning and ending IP address.
 - **Protocol:** Select the transport protocol that will be used for the filter rule.
- Port Range: Enter the desired port range for the filter rule.
- Schedule: Click Add New to access the Schedules window. Go to Maintenance>Schedules for more information.

50 - FIREWAI	LL RULES	
Remaining numb	er of rules that can be created : 50)
	Interface IP Address	Schedule
Name	Source 🔻	Protocol TCP -
Action	Dest v	Port Range Always Add New
Name	Source V	Protocol TCP V
		Port Range Always - Add New

Advanced Wireless Settings

This window allows you to change the behavior of the 802.11g wireless radio from the standard settings. Please be aware that any changes to the factory default settings may adversely affect the behavior of your network. Click **Save Settings** to apply your settings.

Transmit Power: Set the transmit power of the antennas.

- **Beacon Period:** Beacons are packets sent by an Access Point to synchronize a wireless network. Specify a value. *100* is the default setting and is recommended.
- **RTS Threshold:** This value should remain at its default setting of 2346. If inconsistent data flow is a problem, only a minor modification should be made.
- **Fragmentation:** The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission. *2346* is the default setting.
- **DTIM Interval:** (Delivery Traffic Indication Message) *1* is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

Preamble Type: Select Short or Long Preamble. The preamble defines the length of the CRC block (Cyclic Redundancy Check is a common technique for detecting data transmission errors) for communication between the wireless router and the roaming wireless network adapters. Auto is the default setting. Note: High network traffic areas should use the shorter preamble type.

SETUP	ADVANCED	MAINTENANCE	STATUS
ADVANCED WIRELESS	SETTINGS		
These options are for users that wish to change the behavior of their 802.11n wireless radio from the standard setting. We do not recommend changing these settings from the factory default. Incorrect settings may impact the performance of your wireless radio. The default settings should provide the best wireless radio performance in most environments. Save Settings Don't Save Settings			
ADVANCED WIRELESS	SETTINGS		
Transmit Powe Beacon Perio RTS Threshol Fragmentatio DTIM Interva Preamble Type CTS Mode Wireless Mod	100% Image: 1 100 (msec, range: 2 11 (range: 1 12346 (range: 1 1 (range: 1 1 (range: 1 1 (range: 1 2346 (range: 1 2347 (range: 1 2348 (range: 1 2349 (range: 1	nge:20~1000, default:100) i6~2346, default:2346) i00~2346, default:2346, even r ·255, default:1) Long Preamble	number only)
Band Widt Band Widt STB 20/40MHz Coexis Short Guard Interva	h: 20MHz C: ○ Enable ◎ Disabled t: ◎ Enable ○ Disabled t: ♥	1	

CTS Mode: CTS (Clear To Send) is a function used to minimize collisions among wireless devices on a wireless local area network (LAN). CTS will make sure the wireless network is clear before a wireless client attempts to send wireless data. Enabling CTS will add overhead and may lower wireless throughput. **None:** CTS is typically used in a pure 802.11g environment. If CTS is set to "None" in a mixed mode environment populated by 802.11b clients, wireless collisions may occur frequently. **Always:** CTS will always be used to make sure the wireless LAN is clear before sending data. **Auto:** CTS will monitor the wireless network and automatically decide whether to implement CTS based on the amount of traffic and collisions that occurs on the wireless network.

Wireless Select one of the following:

Mode: Mixed 802.11g and 802.11b - Select if you are using both 802.11g and 802.11b wireless clients.
 Mixed 802.11n, 802.11g, and 802.11b - Select if you are using a mix of 802.11n, 11g, and 11b wireless clients.

Band Width: Select the Channel Width:

Auto 20/40 MHz - Select if you are using both 802.11n and non-802.11n wireless devices.

20 MHz - Select if you are not using any 802.11n wireless clients.

STBC: Enable or **disable** Space-time block code.

20/40 MHz Enable or disable 20/40 MHz Coexistence. Coexist:

Short GI: Check this box to reduce the guard interval time therefore increasing the data capacity. However, it's less reliable and may cause more data loss.



Advanced Network Settings

This window allows you to change the LAN settings. Please be aware that any changes to the factory default settings may affect the behavior of your network. Click **Save Settings** to apply your settings.

- **Enable UPnP:** To use the Universal Plug and Play (UPnP[™]) feature tick this checkbox. UPnP provides compatibility with networking equipment, software and peripherals.
- Enable WAN Unchecking the box will not allow the DIR-605L to respondPing Respond: to pings. Blocking the ping may provide some extra security from hackers. Tick this checkbox to allow the WAN port to be "pinged".
 - WAN Port You may set the port speed of the WAN port to 10 Mbps,Speed: 100 Mbps, or 10/100 Mbps Auto. Some older cable or DSL modems may require you to set the port speed to 10 Mbps.
- Enable Multicast Tick to enable multicasting. Streams:

Wireless Tick to enhance wireless. Enhance mode:

SETUP	ADVANCED	MAINTENANCE	STATUS
ADVANCED NETWOR	IK SETTINGS		
These options are for use settings from factory def Save Settings Don't S	rs that wish to change the lault. Changing these setting ave Settings	LAN settings. We do not recon gs may affect the behavior of y	nmend changing these rour network.
UPNP			
Universal Plug and Pla network devices.	ay (UPnP) supports peer	r-to-peer Plug and Play fu	nctionality for
Enal	ole UPnP:🗹		
WAN PING			
If you enable this feat the Internet that are s	ure, the WAN port of yo sent to the WAN IP Add	ur router will respond to ress.	ping requests from
Enable WAN Ping	Respond : 🔲		
WAN PORT SPEED			
10/100Mbps Auto 💌			
MULTICAST STREAM	s		
Enable Multicas	t Streams : 🔲		
Wireless enhar	nce mode : 🔲		

Routing

This option allows you to define fixed routes to defined destinations. Click **Save Settings** to apply your settings.

- **Enable:** Tick this checkbox to enable or disable fixed routes to defined destinations.
- Interface: Use the drop-down menu to choose the WAN or WAN (Physical Port) Interface the IP packet must use to transit out of the router.
- **Destination:** The IP address of the packets that will take this route.
- Subnet Mask: The subnet of the IP address of the packets that will take this route.
 - Gateway: Specifies the next hop to be taken if this route is used.

	SETUP	ADVANCED	MAINTENANCE	STATUS
ROU	TING			
The Save	Routing option al	ows you to define fixed routes f	to defined destinations.	
32	STATIC ROUT	ING		
Rema	ining number of r	ules that can be created : 32		
	Interface	Destination	Subnet Mask	Gateway
	WAN 👻			
	WAN 👻			
	WAN 💌			
	WAN 💌			
	WAN 💌			
	WAN 👻			

Maintenance Device Administration

This window will allow you to change the administrator password. You can also enable remote management.

- Administrator Enter a new Login Name for the administrator account. Login Name:
- Administrator Enter a new password for the administrator Login Name, Password: then retype the new password in the Confirm Password text box. The administrator can make changes to the settings.

Enable Graphical Tick this to enable a graphical captcha for secure **Authentication:** administrator login.

- Enable Remote Remote management allows the DIR-605L to be configured
 Management: from the Internet by a Web browser. A username and password is still required to access the Web Management Interface. In general, only a member of your network can browse the built-in web pages to perform administrator tasks. This feature enables you to perform administrator tasks from the Internet.
 - IP Allowed to The Internet IP address of the computer that has access to Access: the broadband router. If you input an asterisk (*) into this field, then any computer will be able to access the router. Putting an asterisk (*) into this field would present a security risk and is not recommended.
 - **Port:** The port number used to access the DIR-605L. For example: http://x.x.x.8080 whereas x.x.x.x is the WAN IP address of the DIR-605L and 8080 is the port used for the Web-Management interface.

<u>SETUP</u>	ADVANCED	MAINTENANCE	STATUS
ADMINISTRATOR SE	TTINGS		
There is no password for should choose a new pas Save Settings Don't	this router by default. To he isword. Save Settings	lp secure your network, we rec	ommend that you
ADMINISTRATOR (TH	ne default login nam	e is 'admin')	
	Login Name: admin		
	Password :		
Confi	rm Password :		
REMOTE MANAGEME	NT		
Enable Graphical Au	thentication : 🔲		
Enable Remote M	Nanagement : 🔲		
IP Allow	red to Access : 0.0.0.0		
	Port : 8080 👻		

Save and Restore Settings

This window allows you to save your configuration file to a hard drive, load configuration settings from a hard drive, and restore the router's factory default settings.

Save Settings to Use this option to save the current router configuration Local Hard Drive: settings to a file on the hard disk of the computer you are using. First, click the **Save** button. 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 router configuration from Local Hard settings. First, use the **Browse** button to find a previously Drive: save file of configuration settings. Then, click the **Upload** Settings button to transfer those settings to the router.

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

Clear Language Click Clear to remove installed language packs. Pack:

Reboot Router: Click the **Reboot** button on the left side of the window to restart the router.

SETUP	ADVANCED	MAINTENANCE	STATUS
SAVE AND RESTOR	E SETTINGS		
Once the router is con your hard drive. You al default settings.	figured you can save the so have the option to load	configuration settings to a d d configuration settings, or	configuration file on restore the factory
SAVE AND RESTOR	E SETTINGS		
Save Settings To	Local Hard Drive : Save	•	Browse
Load Settings From	Local Hard Drive :	oload Settings	
Restore To Factory	Default Settings : Re	estore Device	
Clea	ar Language Pack : Clea	r	
	Reboot Router : Ret	pooting	

Firmware Update

You can upgrade the firmware of the router 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 site for firmware updates at **http://support.dlink.com**. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware This section displays the firmware version and date.

Information: Click the **Check Now** button (or the link at the top of the window) to find out if there is an updated firmware; if so, download the new firmware to your hard drive.

Firmware After you have downloaded the new firmware, click **Browse Upgrade:** in this window to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

SETUP	ADVANCED	MAINTENANCE	STATUS
FIRMWARE UPDAT	E		
There may be new firm Click here to check for	nware for your DIR-605L to an upgrade on our suppor) improve functionality and <u>t site.</u>	performance.
To upgrade the firmwa Once you have found	To upgrade the firmware, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Upload button to start the firmware upgrade.		
The language pack allo suggest that you upgr that any changes in th	ws you to change the lang ade your current language e firmware are displayed co	uage of the user interface pack if you upgrade the fi rrrectly.	on the DIR-605L. We mware. This ensures
To upgrade the langua button. Once you hav pack upgrade.	To upgrade the language pack, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Upload button to start the language pack upgrade.		
FIRMWARE INFORM	1ATION		
Current Firmware Version : 1.14			
Current Firmware Date : Mon 19 Nov 2012			
Check Online Now for Latest Firmware Version : Check Now			
FIRMWARE UPGRA	DE		
Note : Some firmware Before performing an	e upgrades reset the cor upgrade, be sure to say	figuration options to t ve the current configura	he factory defaults. Ition.
To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button.			
Upload:	Browse		

Section 3 - Configuration

- Language Pack Click the Browse button (or the link at the top of the Upgrade: window) and Upload to install the language pack.
 - **mydlink Pack** You can click **Browse** in this window to locate the mydlink **Upgrade:** pack upgrade on your hard drive. Click **Upload** to complete the upgrade.

LANGUA	AGE PACK UPGRADE
Upload:	Browse
	Upload
MYDLIN	IK PACK UPGRADE
Upload:	Browse
	Upload

Dynamic DNS

The router supports DDNS (Dynamic Domain Name Service). The Dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any domain, allowing access to a specified host from various locations on the Internet. Many ISPs assign public IP addresses using DHCP, which can make it difficult to locate a specific host if the IP changes. For example, if you are running a public Web server or VPN server on your LAN, this ensures that the host can be located from the Internet if the ISP reassigns your public IP address.

Enable DDNS: Tick the checkbox to enable support for DDNS.

- Server Address: Select one of the DDNS registration organizations form those listed in the pull-down menu.
 - Host Name: Enter the host name of the DDNS server.
 - Username: Enter the username given to you by your DDNS provider.
 - **Password:** Enter the password given to you by your DDNS provider.
 - Status: Shows the status of the DDNS connection.

SETUP	ADVANCED	MAINTENANCE	STATUS					
DYNAMIC DNS	DYNAMIC DNS							
The Dynamic DNS feature allows you to host a server (Web, FTP, Game Server, etc) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is.								
Sign up for D-Link's Free D	DDNS service at www.Dlinkde	dns.com.						
Save Settings Don't	Save Settings Don't Save Settings							
DYNAMIC DNS SETT	INGS							
Enable	DDNS : 🔽							
Server Ad	ddress : dlinkddns.com							
Host	Name :							
User	Username :							
Pas	Password :							
	DDNS Account Tes	ting						
	Status :							

System Check

This tool is used to verify the physical connectivity on both the LAN and the WAN interfaces. The Ping Test can be used to test the status of the Internet.

Virtual Cable VCT is an advanced feature that integrates a LAN cable Tester (VCT) Info: tester on every Ethernet port on the router. Through the graphical user interface (GUI), VCT can be used to remotely diagnose and report cable faults such as opens, shorts, swaps, and impedance mismatch. This feature significantly reduces service calls and returns by allowing users to easily troubleshoot their cable connections.

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

SETUP	ADVANCED	MAINTENANCE	STATUS				
SYSTEM CHECK	SYSTEM CHECK						
The System Check tool interfaces. The Ping Te	The System Check tool can be used to verify the physical connectivity on both the LAN and Internet interfaces. The Ping Test tool can be used to verify the status of the Internet.						
VCT INFO							
Port	Link Status						
Internet		100Mbps FULL Duplex	More Info				
		Disconnected	More Info				
LAN2		Disconnected	More Info				
		100Mbps FULL Duplex	More Info				
LAN4		Disconnected	More Info				
PING TEST							
Ping Test is used to send 'Ping' packets to test if a computer is on the Internet.							
Host Name or IP Address : Ping							
PING RESULT							

Schedule

The router allows the user the ability to manage schedule rules for various firewall and parental control features on this window. Once you have finished configuring the new schedule rule, click the **Save Settings** button at the top of the window.

Name: Enter a name for the new schedule rule.

- Day(s): Choose the desired day(s), either All Week or Select Day(s). If the latter is selected, please use the checkboxes directly below to specify the individual days.
- All Day 24 hrs: Tick this check box if the new schedule rule applies to the full 24-hour period.
 - Start Time/ If the new schedule rule does not apply to the full 24-hour End Time: period, untick the previous checkbox, then enter a specific beginning and ending time.

Schedule Rules Displays details of your schedule rules. List:

SETUP	ADVANCED	MAINTENANCE	STATUS				
SCHEDULE	SCHEDULE						
The Schedule configurati control features.	on option is used to manage	schedule rules for various fire	ewall and parental				
Save Settings Don't	Save Settings						
33 - ADD SCHEDUL	ERULE						
Name	:						
Day(s)	: 🔘 All Week 🔍 Select Da	iy(s)					
	Sun Mon Tue	Wed Thu Fri Sat					
All Day - 24 hrs	:						
Start Time	: 0 : 0 (ho	ur:minute, 24 hour time)					
End Time	: 0 : 0 (ho	ur:minute, 24 hour time)					
SCHEDULE RULES LIST							
Name	Day(s)	Time Frame					

Log Settings

The system log displays chronological event log data specified by the admin. You may also save a simple text file containing the log to your computer. Click the **Save Settings** button to apply changes.

Save Log File:	Click on the Save button link on this window to save the
	log file to your local hard drive.

Enable Logging Click the checkbox to save the log in the log server in the **to Syslog Server:** LAN side.

- Log Type & Level: Click the checkbox(es) of the type and level of log information requested: "System, Firewall & Security, Router Status, Critical, Warning and Information"
 - Send by Mail: Enter the your receiving/sending e-mail information, SMTP server name (or IP address), authentication information (if required), and e-mail port. Click **Send Mail Now** to test.

SETUP	ADVANCED	MAINTENANCE	STATUS
LOG SETTINGS			
Logs can be saved by	sending it to an admin er	nail address.	
Save Settings	Don't Save Settings		
SAVE LOG FILE			
Save Log File To Local	Hard Drive Save		
SYSLOG SETTINGS			
Enable Logging To Sysle	og Server: 📄		
Syslog Server IP	Address : 0.0.0.0	<< Computer Nam	e v
Log Type: V Sys	tem V Firewall & S	Security Inform	er Status
SEND BY MAIL			
Email	Address :		
Emai	Subject :		
Sender Email	Address :		
SMTP Server/IP	Address :		
Enable Authe	ntication : 📄		
Us	er Name :		
F	Password :		
Confirm F	Password :		
Enable	Security :		_
S	end Port : 25	Send Mail Now	

mydlink Event Management

The mydlink Event Management lets the administrator manage mydlink functions for your cloud router. Click **Save Settings** to apply changes.

Real-Time Tick to **Enable** the real-time browsing history feature. **Browsing History:**

Push Event: Tick Enable to allow push notifications to mydlink. Tick the below boxes to receive Online User Logging, Firmware Upgrade, and Wireless Intrusion notifications.

Event Trigger: Enable to allow event triggering.

SETUP	ADVANCED	MAINTENANCE	STATUS		
MYDLINK EVENT M	ANAGEMENT				
Save Settings	Don't Save Settings]			
REAL-TIME BROWS	SING HISTORY				
	Enable : 👿				
PUSH EVENT					
	Enable : 🔽				
Notice of Online Logging	User Notice of Upgrade	Firmware Notic Intrus	e of Wireless sion		
EVENT TRIGGER					
	Enable : 👿				

Status Device Info

This window displays the current information for the DIR-605L. It will display the LAN, WAN, and Wireless information. If your WAN connection is set up for a Dynamic IP address then a **DHCP Release** button and a **DHCP Renew** button will be displayed. Use **DHCP Release** to disconnect from your ISP and use **DHCP Renew** to connect to your ISP. If your WAN connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

- LAN: Displays the MAC address and the private (local) IP settings for the router.
- **Internet:** Displays the MAC address and the public IP settings for the router.
- Wireless 802.11n: Displays the your network's wireless settings such as SSID, Channel, and Encryption status.

SETUP	ADVANCED	MAINTENANCE	STATUS				
DEVICE INFOMATIO	DEVICE INFOMATION						
All of your Internet and r displayed here.	network connection details ar	e displayed on this page. The	e firmware version is also				
	Firmware Version :1.	03, Fri 25 Mar 2011					
LAN							
	MAC Address :F0:7	'D:68:82:85:BE					
	IP Address :192	.168.0.1					
	Subnet Mask :255	.255.255.0					
	DHCP Server :Ena	bled					
INTERNET							
	MAC Address :F0:7	D:68:82:85:BF					
	DH	CP Client Connected					
	Connection :	HCP Renew DHCP Release	e				
	IP Address :172	17.5.7					
	Subnet Mask :255.	255.255.0					
	Default Gateway : 172. DNS : 192.	17.5.254 168.168.250, 192.168.168.201					
WIRELESS 802.11N							
	SSID :dlin	k					
	Channel :11						
	Encryption :Dis	abled					

View Log

This section allows you to view a log of activities on the router. This is especially helpful for detecting unauthorized network usage.

First Page: View the first page of the log.

Last Page: View the last page of the log.

Previous: View the previous page.

Next: View the next page.

Clear: Clear the log.

Link to Log Click this button to go directly to the Log Settings window Settings: (Maintenance > Log Settings).

SETUP	ADV	ANCED	MAIN	TENANCE	STATUS			
VIEW LOG								
View Log displays the ac	View Log displays the activities occurring on the DIR-501.							
VIEW LOG								
First Page Last Page	Previou	s Next Page	Clear	Link To Log Set	tings			
Page 1 of 1								
Time and Date	e			Message				
Mar 25 04:31:01		Log message w	as cleared.					

Traffic Statistics

The window below displays the Traffic Statistics. Here you can view the amount of packets that pass through the DIR-605L on both the WAN and the LAN ports. The traffic counter will reset if the device is rebooted. Click **Refresh** to update the statistics. Click **Reset** to reset the statistics.

SETUP	۸	DVANCED	MAINTENANCE	STATUS		
TRAFFIC STATISTICS						
Traffic Statistics d	lisplay Receive a	nd Transmit packet	s passing through your rout	er.		
Refresh Reset						
	Received		Transmit			
Internet	0 Packets		0 Packets			
LAN	5 Packets		5 Packets			
WIRELESS 11n	0 Packets		0 Packets			

Active Sessions

The NATP Active Sessions table displays a list of all active conversations between WAN computers and LAN computers. Click **Refresh** to update the statistics.

SETUP	ADVANCED	MAINTENANCE	STATUS					
ACTIVE SESSIONS	ACTIVE SESSIONS							
This page displays the fu	Ill details of active internet se	essions to your router.						
Refresh								
NAPT SESSION								
	TCP Session: 11							
	UDP Session: 1 Total: 12							
NAPT SESSION								
IP Address	TCP Session	UDP Session						
192.168.0.100	11	0						
192.168.0.1	0	1						

Wireless

The wireless client table displays a list of currently connected wireless clients. This table also displays the connection details of any connected wireless clients.

SETUP	ADVANCED	MAINTENANCE	STATUS				
WIRELESS							
Use this option to view t	Use this option to view the wireless clients that are connected to your wireless router.						
NUMBER OF WIRELESS CLIENTS : 0							
MAC Address	IP Address	Mode Rate	Signal (%)				

Help

Click on a link to get more information about the various features of your router.

SETUP	ADVANCED	MAINTENANCE	STATUS
HELP MENU			
Setup			
Internet Setup Wireless Setup Lan Setup Time and Date Parental Control			
Advanced			
Port Forwarding Application Rules Access Control Traffic Control Firewall & DMZ Advanced Wireles Advanced Networ Routing	<u>s</u> <u>k</u>		
Maintenance			
Device Administra Save and Restore Firmware Update DDNS Setting System Check Schedules Log Setting	<u>ition</u>		
Status			
Device Info View Log Traffic Statistics Active Sessions Wireless			

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-605L offers the following types of security:

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

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

What is WPA?

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

The 2 major improvements over WEP:

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

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

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

Connect to a Wireless Network Using Windows® 8

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 (Wi-Fi password) being used.

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

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



Airplana modo	
SWSWSW	.atl
ASUS_Guest1	% d
TP-PLC Router	% 11
AirPort Express	.atl
AirPort Express 5GHz	.atl
Book-600M+	.atl
DIR-505-Claire	
DIR-835-Hans-5	

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

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

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





Using Windows® 7

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.

Not connected	47	*
Connections are available		ш
Wireless Network Connection	^	
dlink	In.	
kay2690_24	lie.	
AllenH DIR-655	llee	
SD6_WLAN	liter	
DAP-2690g	lie.	
wpstest1	lte.	
BBIQ633304WPA2	lle.	
Eddie_APNAS		+
Open Network and Sharing Ce	enter	

D-Link DIR-605L User Manual

Section 5 - Connecting to a Wireless Network

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.
- հ Connections are available Wireless Network Connection ~ -1 dlink Connect automatically Connect kay2690_24 james2690g ALPHA dlink 888 SD6 WLAN DAP-2690g Open Network and Sharing Center

Not connected



44



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.

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

Using 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.





Using 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 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[®] 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.





Configure Wireless Security

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**.





Section 5 - Connecting to a Wireless Network

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	the network security key or passphrase for Candy
The pe	rson who setup the network can give you the key or passphrase.
Securi	ty key or passphrase:
UIS UIS	play characters
	If you have a USB flash drive with network settings for Candy, insert it now.

Configure WPA-PSK

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 5 - Connecting to a Wireless Network

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 🔀
The network 'test1' requires key helps prevent unknown i	a network key (also called a WEP key or WPA key). A network ntruders 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-605L. 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 the 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. Open your Web browser and go to **http://dlinkrouter/** and the Setup Wizard will run.

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

If you are having a problem sending or receiving e-mail, 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).

Note: AOL DSL+ users must use MTU of 1400.

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** then click **Run**.
- Windows[®] 95, 98, and Me users type in **command** (Windows[®] NT, 2000, and XP 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

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, let's 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 (the default is 192.168.0.1) and click OK.
- Enter your username and password. Click **OK** to enter the web configuration page for the device.
- Click on Setup then click Manual Setup.
- To change the MTU enter the number in the MTU field and click the **Save Settings** button to save your settings.
- Test your e-mail. 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 has 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 e-mail, instant message, and 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 are usually called "hotspots".

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

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless router.
- Ad-Hoc Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more DIR-605L wireless network Cardbus adapters.

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

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

Networking Basics

Check your IP address

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

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

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

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

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



Statically Assign an IP address

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

Step 1

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

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 Default Gateway the same as the LAN IP address of your router (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.

You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	d automatically if your network supports ed to ask your network administrator fo
🔿 Obtain an IP address auton	natically
Use the following IP addres	s:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
O Obtain DNS server address	automatically
Output the following DNS server server be an address of the following DNS server be address	ver addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	a. a. a

Technical Specifications

Standards

- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x

Wireless Signal Rates*

- 300 Mbps 150 Mbps
- 54 Mbps 48 Mbps
- 36 Mbps 24 Mbps
- 18 Mbps 12 Mbps
- 11 Mbps 9 Mbps
- 6 Mbps 5.5 Mbps
- 2 Mbps 1 Mbps

Security

- WPA Wi-Fi Protected Access (TKIP, MIC, IV Expansion, Shared Key Authentication)
- 64/128-bit WEP

Modulation Technology

- 802.11b : DSSS / DBPSK / DQPSK / CCK
- + 802.11g : 16QAM / 64QAM / BPSK / QPSK with OFDM
- 802.11n : 16QAM / 64QAM / BPSK / QPSK with OFDM

VPN Passthrough/ Multi-Sessions

- PPTP
- IPSec

Device Management

- Web-based Internet Explorer 8 or later; Netscape Navigator v6 or later; or other Java-enabled browsers
- DHCP Server and Client

Wireless Frequency Range

- 2.4 GHz to 2.497 GHz (802.11b)
- 2.4 GHz to 2.4835 GHz (802.11g and 802.11n)

Wireless Operating Range

- Indoors up to 328 ft. (100 meters)
- Outdoors- up to 1312 ft. (400 meters)

Wireless Transmit Power (AVG Power)

- 802.11b:17 dBm (Max)
- 802.11g:16 dBm (Max)
- 802.11n:13 dBm (Max)

External Antenna Type

Two fixed external antenna

Advanced Firewall Features

- NAT with VPN Pass-through (Network Address Translation)
- MAC Filtering
- IP Filtering

- URL Filtering
- Scheduling

LEDs

- Power
- Status
- Internet
- WLAN (Wireless Connection)
- LAN (10/100)

Operating Temperature

+ 0 °C to 40 °C (32 °F to 129 °F)

Humidity

• 95% maximum (non-condensing)

Safety and Emissions

• FCC Part 15B/ 15C/ MPE

- CE
- C-tick
- NCC
- CCC

Dimensions

- L = 135 mm (5.31 inches)
- W = 99.8 mm (3.92 inches)
- H = 31.5 mm (1.24 inches)

Weight

• 246 grams (8.67 ounces)

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