

USER MANUAL

DIR-604 Wireless N 150 Router

VERSION 1.0



Wireless N 150 Access Point/Router

Preface

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Table of Contents

Preface	i	Manual Configuration (3G Mode)	20
Manual Revisions	i	3G Internet Connection	20
Trademarks	i	Internet Connection Setup Wizard (WAN Mode).....	21
Product Overview	1	Manual Configuration (WAN Mode).....	28
Package Contents	1	Static IP Address.....	29
System Requirements	2	Dynamic IP Address (DHCP)	30
Features	3	PPPoE (Username/Password).....	31
Hardware Overview	4	PPTP (Username/Password)	33
Connections.....	4	L2TP (Username/Password).....	35
Top View.....	5	Russia PPTP (Dual Access)	37
Switching Between WAN Mode/3G Router Mode.....	6	Russia PPPoE (Dual Access)	39
Installation	7	Wireless Settings	41
Before you Begin	7	Manual Wireless Network Setup	42
Wireless Installation Considerations.....	8	Network Settings.....	44
Network Diagram	9	DHCP Server Settings	45
WAN Connection	9	DHCP Reservation	46
Network Diagram	10	Virtual Server	47
3G Connection.....	10	Port Forwarding	49
Connect to Cable/DSL/Satellite Modem	11	Application Rules	50
Connect to a 3G Internet Service	13	QoS Engine	51
Connect to Another Router.....	14	Network Filters.....	52
Configuration	16	Website Filters	53
Web-based Configuration Utility	16	Firewall Settings	54
Internet Connection Setup Wizard (3G Mode). 17		Firewall Rules.....	55
		Advanced Wireless Settings	57
		Wi-Fi Protected Setup.....	58

Advanced Network Settings.....	59	Using Windows Vista®	81
UPnP.....	59	Configure WPA/WPA2	82
Internet Ping Block	59	Connect Using WCN 2.0.....	84
Internet Port Speed	59	Using Windows® XP.....	85
Multicast Streams.....	59	Configure WPA-PSK.....	86
Administrator Settings.....	60	Troubleshooting	88
Change Password.....	60	Wireless Basics	92
Remote Management.....	60	What is Wireless?	93
Time Settings.....	61	Tips.....	95
E-mail Settings.....	62	Wireless Modes	96
System Settings	63	Networking Basics	97
Update Firmware	64	Check your IP address	97
DDNS.....	65	Statically Assign an IP address	98
System Check.....	66	Technical Specifications.....	99
Schedules	67		
Device Information.....	68		
Logs	69		
Statistics	70		
Internet Sessions	71		
Wireless	72		
Support	73		
Wireless Security.....	74		
What is WPA?	74		
Wireless Connection Setup Wizard	75		
Add Wireless Device with WPS Wizard.....	78		
Configure WPA-Personal (PSK).....	79		
Configure WPA-Enterprise (RADIUS)	80		
Connect to a Wireless Network.....	81		

Package Contents

D-Link DIR-604 Wireless 11n Router	
Power Adapter	
Ethernet Cable	
USB Cable	

Note: Using a power supply with a different voltage rating than the one included with the DIR-604 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none">• An Ethernet-based Cable or DSL modem• IEEE 802.11n/g wireless clients• 10/100 Ethernet
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 6.0 or higher• Mozilla 1.7.12 or higher• Firefox 1.5 or higher• Safari 1.0 or higher (with Java 1.3.1 or higher)• Flock 0.7.14 or higher• Opera 6.0 or higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>

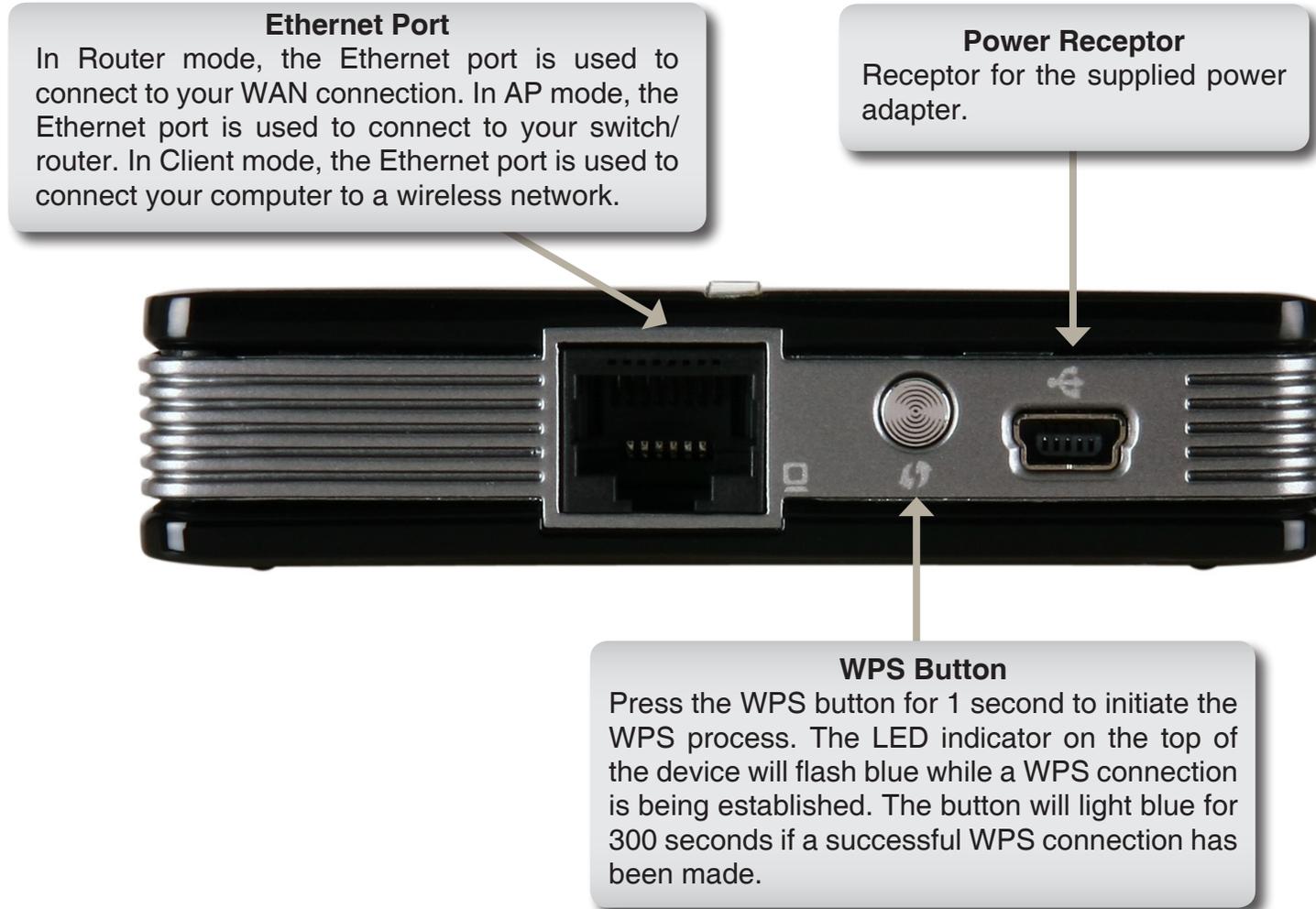
Features

- **Faster Wireless Networking** - The DIR-604 provides up to 300Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with 802.11g Devices** - The DIR-604 is still fully compatible with the IEEE 802.11g standard, so it can connect with existing 802.11g PCI, USB, and Cardbus adapters.
- **Advanced Firewall Features** - The Web-based user interface displays a number of advanced network management features including:
 - **Content Filtering** - Easily applied content filtering based on MAC Address, URL, and/or Domain Name.
 - **Filter Scheduling** - These filters can be scheduled to be active on certain days or for a duration of hours or minutes.
 - **Secure Multiple/Concurrent Sessions** - The DIR-604 can pass through VPN sessions. It supports multiple and concurrent IPsec and PPTP sessions, so users behind the DIR-604 can securely access corporate networks.
- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user interface, the DIR-604 lets you control what information is accessible to those on the wireless network, whether from the Internet or from your company's server. Configure your router to your specific settings within minutes.

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

Hardware Overview

Connections



Hardware Overview

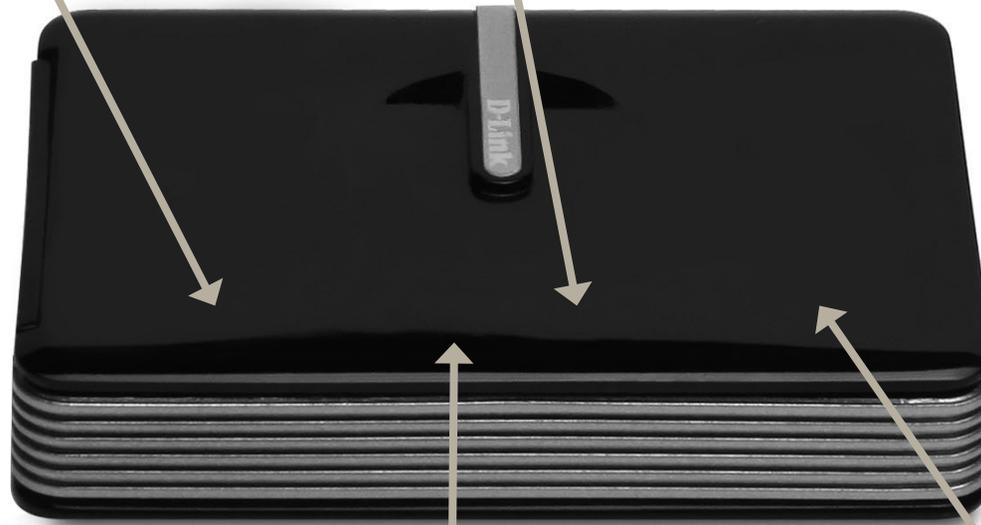
Top View

Power LED

Lights orange during bootup. Lights green when router has booted up. A solid green light indicates a proper connection to the power supply. If the LED blinks orange the system has failed.

Ethernet LED

A solid green light indicates that a link has been established. This LED blinks during data transmission.



WLAN LED

A solid green light indicates that the wireless segment is ready. This LED blinks during wireless data transmission.

WPS Button

Press the WPS button for 1 second to initiate the WPS process. The button will flash blue while a WPS connection is being established. The button will light blue for 300 seconds if a successful WPS connection has been made.

Hardware Overview

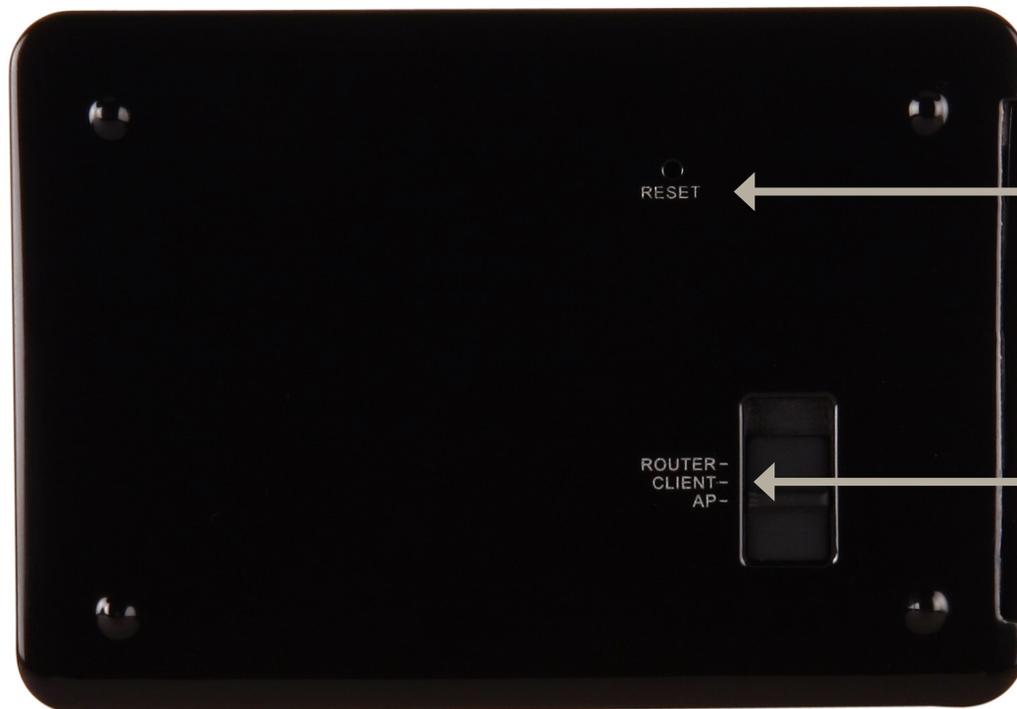
Switching Among AP, Client, and Router Mode

The DIR-604 features a hardware switch located on the bottom of the device that enables users to switch among Router mode, Client mode, and AP mode.

When the DIR-604 is operating in AP mode, the device acts as a basic access point without any routing functionality.

When the DIR-604 is operating in Client mode, the PC that is connected to the device will use it as a wireless network interface in order that it can connect to a wireless router or access point.

When the DIR-604 is operating in Router mode, WAN connectivity is achieved via the DIR-604's Ethernet port. In this mode LAN clients need to access the DIR-604 via the DIR-604's wireless connection.



Reset Button

Press the Reset button for 5 seconds to restore the Router to its original factory default settings.

Mode Switch

Use to switch among AP mode, Client mode, and Router mode.

Installation Considerations

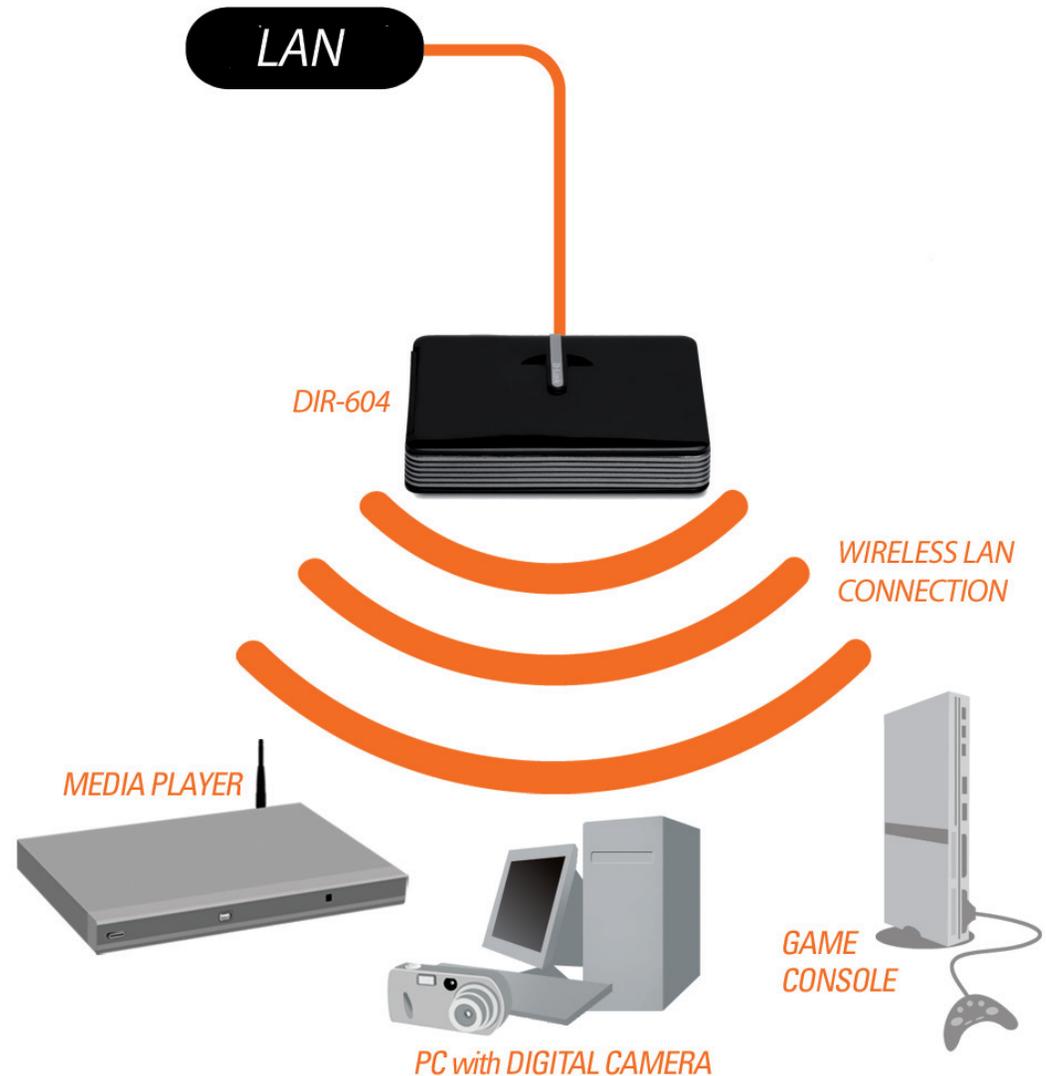
This section will walk you through the installation process. Placement of the Router is very important. Do not place the Router in an enclosed area such as a closet, cabinet, or in the attic or garage. The D-Link wireless Router lets you access your network using a wireless connection from virtually 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 (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Connection - AP Mode

To use the DIR-604 in AP Mode, follow the steps below:

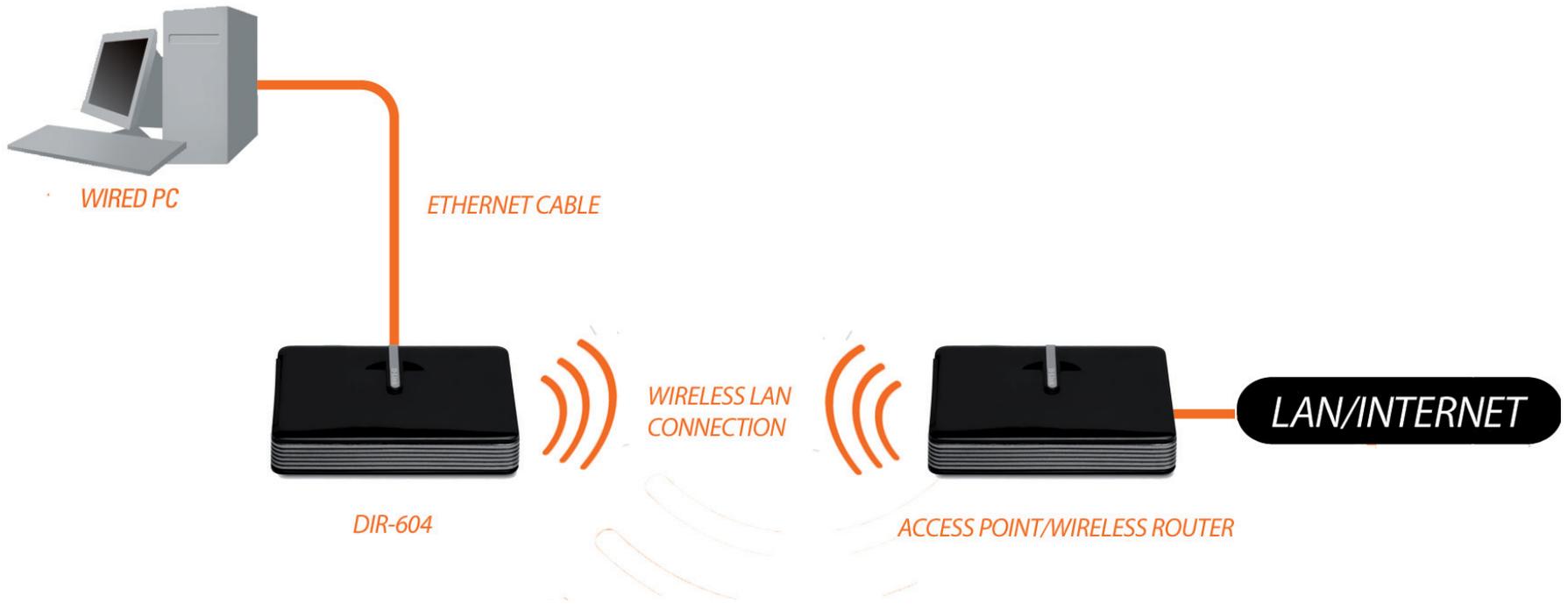
1. Ensure you have a broadband Internet connector, such as a cable or DSL client line that connects the Internet to your home or office.
2. Connect the cable properly or install the modem.
3. Connect the cable or modem with the broadband router.
4. Connect the DIR-604's Ethernet port to your LAN.
5. Move the switch to wireless AP Mode.
6. Connect your PC or notebook to the DIR-604 using the PC or notebook's wireless adapter.



Connection - Client Mode

To use the DIR-604 in Client Mode, follow the steps below:

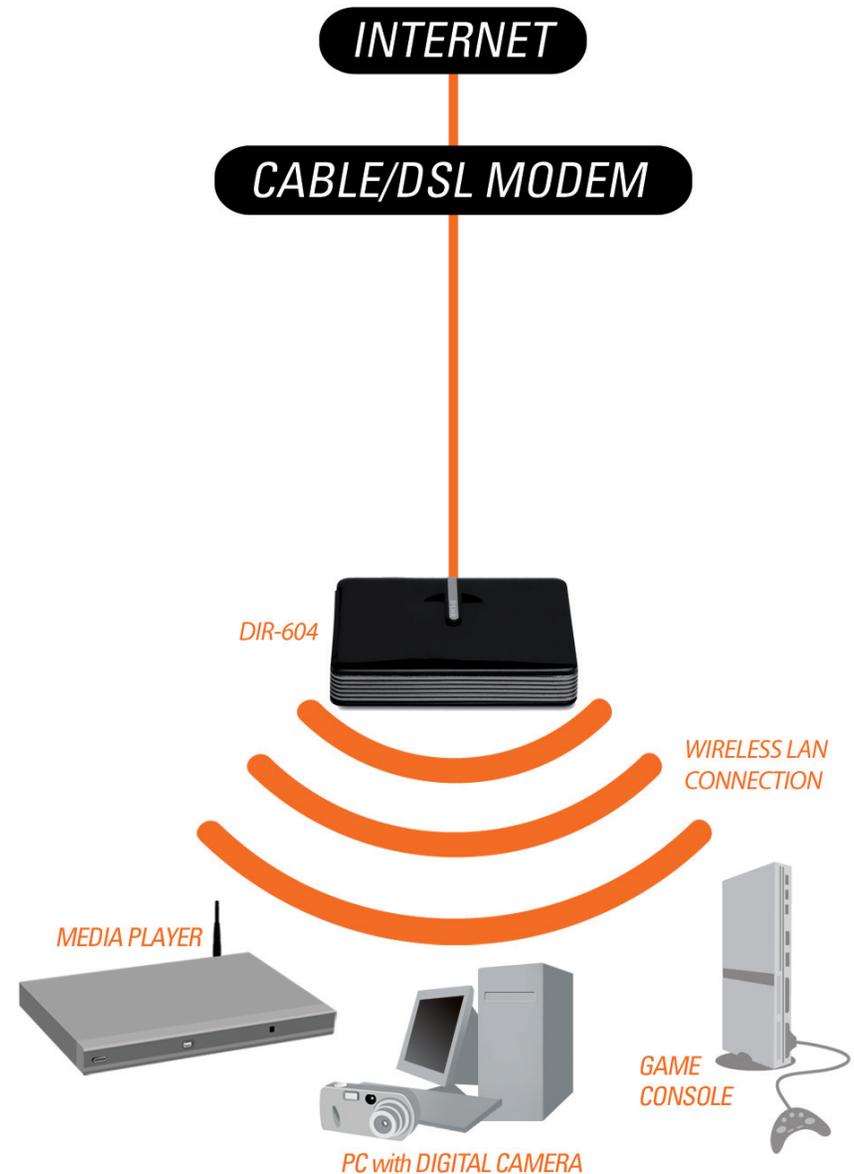
1. Ensure you have a broadband Internet connector, such as a cable or DSL client line that connects the Internet to your home or office.
2. Connect the cable properly or install the modem.
3. Connect the cable or modem with the broadband router.
4. Move the switch to Client Mode.
5. Connect your PC or notebook to the DIR-604 using the PC or notebook's wireless adapter.



Connection - Router Mode

To use the DIR-604 in Router Mode, follow the steps below:

1. Ensure you have a broadband Internet connector, such as a cable or DSL client line that connects the Internet to your home or office.
2. Connect the cable properly or install the modem.
3. Connect the cable or modem with the broadband router.
4. Move the switch to Router Mode.
5. If you want to link with a computer on the Internet, please install a wireless dongle on your computer.
6. Install the driver on your computer.



Connect to Cable/DSL/Satellite Modem

If your Internet connection is provided using a cable/DSL/satellite modem, carry out the following procedure before connecting the router to a cable/DSL/satellite modem:

- Move the **AP Mode/Client Mode/Router Mode** switch on the DIR-604 so that it is in the **Client Mode** position.
- Configure the wireless settings on the DIR-604 in Client Mode (see “Wireless Connection” on page 17 for more information).
- After configuring the wireless settings, move the **AP Mode/Client Mode/Router Mode** switch so that it is in the **Router Mode** position.

To connect 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 place it into the Ethernet port on the Router.
5. Turn on or plug in your modem. Wait for the modem to boot (about 30 seconds).
6. Plug the power adapter to the router and connect to an outlet or power strip. Wait about 50 seconds for the router to boot.
7. Turn on your computer.
8. Use the wireless connection on your computer to connect to the Router, using the wireless settings you configured

previously.

9. Verify the link lights on the Router. The power light, Internet light, and the Wireless LAN light should be lit. If not, make sure your computer, modem, and router are powered on and verify the cable connections are correct.
10. Skip to “Configuration” on page 15 to configure your router.

Connect to Another Router

If you are connecting the D-Link Router to another router to use as a wireless access point and/or switch, you will have to do the following before connecting the Router to your network:

- Move the **AP Mode/Client Mode/Router Mode** switch on the DIR-604 so that it is in the **AP Mode** position.
- Disable UPnP™
- Disable DHCP
- Change the LAN IP address to an available address on your network. The Ethernet port on the router cannot accept a DHCP address from your other router.

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

1. Plug the power into the router. Connect one of your computers to the Ethernet port using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the **Networking Basics** section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.
2. Open a web browser and enter **http://192.168.0.1** and press **Enter**. When the login window appears, set the user name to **Admin** and leave the password box empty. Click **Log In** to continue.
3. Click on **Advanced** and then click **Advanced Network**. Uncheck the Enable UPnP checkbox. Click **Save Settings** to continue.
4. Click **Setup** and then click **Network Settings**. Uncheck the Enable DHCP Server server checkbox. Click **Save Settings** to continue.
5. Under Router Settings, enter an available IP address and the subnet mask of your network. Click **Save Settings** to save your settings. Use this new IP address to access the configuration utility of the router in the future. Close the

browser and change your computer's IP settings back to the original values as in Step 1.

6. Disconnect the Ethernet cable from the router and reconnect your computer to your network.
7. Connect an Ethernet cable into the Ethernet port of the router and connect it to your other router.
8. To configure your wireless network, open a Web browser and enter the IP address you assigned to the router. Refer to the **Configuration** and **Wireless Security** sections for more information on setting up your wireless network.

Configuration

This section will show you how to configure your new D-Link wireless Router using the Web-based configuration utility.

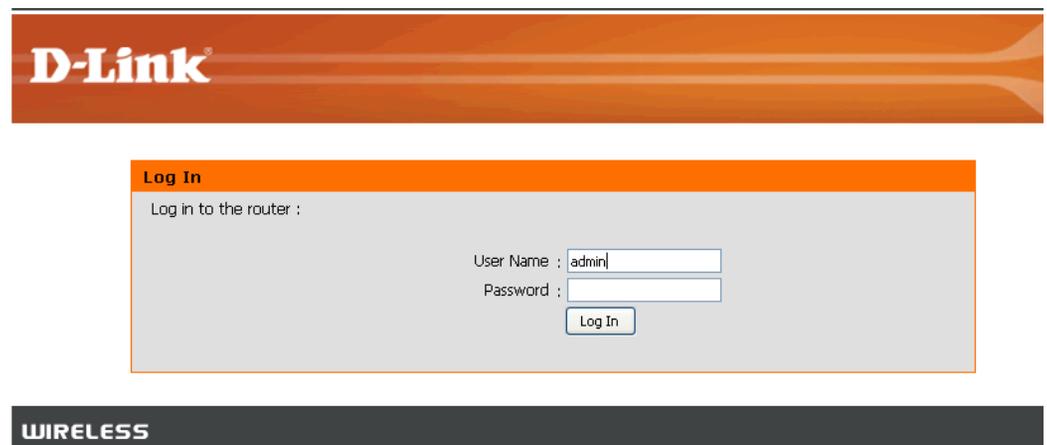
Web-based Configuration Utility for AP Mode

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**).



Type **Admin** in the **User Name** field and then enter your password. Leave the password blank by default.

Click the **Login** button to log in to the Router.



If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.

AP Mode Opening Page

Once logged into the Web interface of the Router in AP Mode, the **Device Information** page will appear. This displays the SSID, Channel, and Encryption status. To make changes to your wireless network, click **Setup** to access the **Wireless Connection** page.

The screenshot displays the D-Link DIR-604 web interface. At the top, the D-Link logo is visible. Below it, a navigation bar contains tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The main content area is divided into several sections:

- Device Info:** A sidebar menu on the left with options: Device Info, View Log, Traffic Statistics, Wireless, and Logout.
- DEVICE INFORMATION:** A central section with an orange header. It contains the text: "All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here." and "Firmware Version : 1.00CN, Sun 19 Sep 2010".
- LAN:** A section displaying network details:
 - MAC Address : F0:7D:68:78:90:7C
 - IP Address : 192.168.0.1
 - Subnet Mask : 255.255.255.0
 - Default Gateway : 0.0.0.0
 - Primary DNS Server : 0.0.0.0
 - Secondary DNS Server : 0.0.0.0
- WIRELESS 802.11N:** A section displaying wireless settings:
 - Wireless Mode : AP
 - MAC Address : F0:7D:68:78:90:7C
 - SSID : dlink
 - Channel : 11
 - Encryption : WPA/WPA2 - Personal
- Helpful Hints...:** A sidebar on the right with the text: "All of your WAN and LAN connection details are displayed here." and a "More..." link.
- WIRELESS:** A large dark grey bar at the bottom of the main content area.

Wireless Connection

If you want to configure the wireless settings on your Router using the wizard, click **Wireless Connection Setup Wizard** and refer to “Wireless Connection Setup Wizard” on page 81.

If you want to manually configure the wireless settings on your Router, click **Manual Wireless Connection Setup** and refer to the next page.

The screenshot displays the D-Link DIR-604 web interface. At the top, the D-Link logo is visible. Below it, a navigation bar contains tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar shows a menu with options: Wireless Connection, Lan Setup, and Logout. The main content area is titled "WIRELESS CONNECTION" and contains the following text:

There are 2 ways to setup your wireless connection. You can use the Wireless Connection Setup wizard or you can manually configure the connection.

Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

WIRELESS CONNECTION SETUP WIZARD

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

[Wireless Connection Setup Wizard](#)

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

MANUAL WIRELESS CONNECTION OPTIONS

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

[Manual Wireless Connection Setup](#)

On the right side of the interface, there is a "Helpful Hints..." section with the following text:

If you are new to wireless networking and have never configured a wireless router before, click on **Wireless Network Setup Wizard** and the router will guide you through a few simple steps to get your wireless network up and running.

If you consider yourself an advanced user and have configured a wireless router before, click **Manual Wireless Network Setup** to input all the settings manually.

Below the hints, there is a "More..." link.

At the bottom of the interface, the word "WIRELESS" is displayed in a dark bar.

Manual Wireless Network Setup

Enable Wireless: Tick the check box to enable the wireless function. If you do not want to use wireless, de-select the check box to disable all the wireless functions.

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

Enable Auto Channel Selection: The **Auto Channel Scan** setting can be selected to allow the DIR-604 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DIR-604. 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. If you enable **Auto Channel Scan**, this option will be grayed out.

Transmission Rate: Select the transmit rate. It is strongly suggested to select **Best (automatic)** for best performance.

WMM Enable: WMM (Wi-Fi Multimedia) is QoS for your wireless network. Tick this box to improve the quality of video and voice applications for your wireless clients. This feature is not available in 802.11n configurations.

Enable Hidden Wireless: Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform a scan to see what's available. In order for your wireless devices to connect to your Router, you will need to manually enter the Wireless Network Name on each device.

Security Mode: Refer to **Section 4 - Wireless Security** for more information regarding wireless security.

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DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Wireless Connection
Lan Setup
Logout

WIRELESS

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

Save Settings Don't Save Settings

WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)

Enable:

Current PIN: **83164576**

Generate New PIN Reset PIN to Default

Wi-Fi Protected Status: Enable /Configured

Reset to Unconfigured Add Wireless Device with WPS

WIRELESS NETWORK SETTINGS

Wireless Mode: Access Point

Enable Wireless:

Wireless Network Name (SSID): dlink-cts (Also called the SSID)

Enable Auto Channel Selection:

Wireless Channel: 6

Transmission Rate: Best (automatic) (Mbit/s)

WMM Enable: (Wireless QoS)

Enable Hidden Wireless: (Also called the SSID Broadcast)

WIRELESS SECURITY MODE

Security Mode: Disable Wireless Security (not recommended)

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

Changing your Wireless Network Name is the first step in securing your wireless network. Change it to a familiar name that does not contain any personal information.

Enable Auto Channel Scan so that the router can select the best possible channel for your wireless network to operate on.

Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they scan to see what's available. For your wireless devices to connect to your router, you will need to manually enter the Wireless Network Name on each device.

If you have enabled Wireless Security, make sure you write down the Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.

More...

LAN Setup

This section will allow you to change the internal network settings of the Router and to configure the DHCP settings.

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

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

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

Default Gateway: Enter the default gateway IP address.

Primary DNS Server: Enter the primary DNS server IP address.

Secondary DNS Server: Enter the secondary DNS server IP address.

Enable DHCP Server: Tick this check box to enable the DHCP server on your Router. De-select to disable this function.

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

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

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

Enable IP/MAC Binding: Tick to enable IP/MAC binding.

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DIR-604 //

SETUP ADVANCED MAINTENANCE STATUS HELP

Wireless Connection

Lan Setup

Logout

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

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

Router IP Address : 192.168.0.1

Subnet Mask : 255.255.255.0

Default Gateway : 0.0.0.0

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0

DHCP SERVER SETTINGS

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

Enable DHCP Server :

DHCP IP Address Range : 100 to 199 (address within the LAN subnet)

DHCP Lease Time : 1440 (minutes)

IP/MAC BINDING

Enable IP/MAC Binding :

Save Settings Don't Save Settings

Helpful Hints...

If you already have a DHCP server on your network or are using static IP addresses on all the devices on your network, uncheck **Enable DHCP Server** to disable this feature.

If you have devices on your network that should always have fixed IP addresses, add a **DHCP Reservation** for each such device.

More...

Advanced Wireless 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 2432. 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 Preamble** 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. Note: High network traffic areas should use the **Short Preamble** type.

CTS Mode: Select **None**, **Always**, or **Auto**.

Wireless Mode: Use the drop-down menu to select the wireless modes you want to enable on the router. The available options are **802.11n only**, **802.11 Mixed (g/b)**, and **802.11 Mixed (n/g/b)**.

Short Guard Interval: Tick this check box to reduce the guard interval time therefore increasing the data capacity. However, it is less reliable and may create higher data loss.

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SETUP ADVANCED MAINTENANCE STATUS HELP

Advanced Wireless Settings

Logout

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 Power: 100% ▾

Beacon Period: 100 (msec, range:20~1000, default:100)

RTS Threshold: 2346 (range: 256~2346, default:2346)

Fragmentation: 2346 (range: 1500~2346, default:2346)

DTIM Interval: 1 (range: 1~255, default:1)

Preamble Type : Short Preamble Long Preamble

CTS Mode : None Always Auto

Wireless Mode: 802.11Mixed(n/g/b) ▾

Band Width: 20MHz ▾

20/40MHz Coexist: Enable Disabled

Short Guard Interval :

Helpful Hints...

It is recommended that you leave these parameters at their default values. Adjusting them could limit the performance of your wireless network.

More...

WIRELESS

Administrator Settings

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

Login Name: Enter the login name. The default is **admin**.

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

Confirm Password: Retype the new password for the Administrator Login Name.

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DIR-604	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Administrator Settings	ADMINISTRATOR SETTINGS				Helpful Hints...
Time and Date	There is no password for this router by default. To help secure your network, we recommend that you should choose a new password.				For security reasons, it is recommended that you change the password for the Admin and User accounts. Be sure to write down the new and passwords to avoid having to reset the router in case they are forgotten.
Save and Restore Settings	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
Firmware Update	ADMINISTRATOR (The default login name is 'admin')				When enabling Remote Management, you can specify the IP address of the computer on the Internet that you want to have access to your router, or leave it blank to allow access to any computer on the Internet. More...
System Check	Login Name : <input type="text" value="admin"/>				
Schedule	Password : <input type="password" value="....."/>				
Log Settings	Confirm Password : <input type="password" value="....."/>				
Logout	WIRELESS				

Time and Date

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

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

Enable Daylight Saving: Tick the check box to enable Daylight Saving Time.

Sync your computer's time settings: Click this button to set the device's time the same to local PC.

Automatically synchronize with D-Link's Internet time server: Tick the check box to enable the device to automatically synchronize with a D-Link NTP Server. NTP stands for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Select one of the D-Link NTP Servers from the drop-down menu. The DIR-604 will then synchronize its clock to be the same time as the D-Link Internet time server. Click the **Update Now** button to synchronize with the D-Link Internet time server immediately.

Set the Time and Date Manually: To manually input the time, use the drop-down menus to enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second.

Click the **Save Settings** button to save any changes made.

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'TIME AND DATE' section is highlighted in orange. Below the header, there is a sidebar with navigation options: Administrator Settings, Time and Date, Save and Restore Settings, Firmware Update, System Check, Log Settings, and Logout. The main content area is divided into three sections:

- TIME AND DATE CONFIGURATION:** Shows the current time as 9/19/2010 08:56:09. The Time Zone is set to '(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi'. There is a checkbox for 'Enable Daylight Saving' (unchecked) and a 'Sync. your computer's time settings' button.
- AUTOMATIC TIME AND DATE CONFIGURATION:** Features a checkbox for 'Automatically synchronize with D-Link's Internet time server' (unchecked). Below it, the 'NTP Server Used' is set to 'ntp1.dlink.com' with an 'Update Now' button.
- SET THE DATE AND TIME MANUALLY:** Contains dropdown menus for Year (2010), Month (Sep), Day(s) (19), Hour (08), Minute (55), and Second (08). There are 'Save Settings' and 'Don't Save Settings' buttons at the bottom.

On the right side of the interface, there is a 'Helpful Hints...' section with text: 'Good timekeeping is important for accurate logs and scheduled firewall rules.' and a 'More...' link.

Save and Restore Settings

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

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

Clear Language Pack: Click the **Clear** button to restore the device back to the English interface version and remove other languages installed for the system web pages.

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The 'SAVE AND RESTORE SETTINGS' page is displayed, featuring a sidebar menu with options like Administrator Settings, Time and Date, Save and Restore Settings, Firmware Update, System Check, Schedule, Log Settings, and Logout. The main content area contains the following text and controls:

SAVE AND RESTORE SETTINGS

Once the router is configured you can save the configuration settings to a configuration file on your hard drive. You also have the option to load configuration settings, or restore the factory default settings.

SAVE AND RESTORE SETTINGS

Save Settings To Local Hard Drive :

Load Settings From Local Hard Drive :

Restore To Factory Default Settings :

Clear Language Pack :

Helpful Hints...

Once your router is configured the way you want it, you can save the configuration settings to a configuration file.

You might need this file so that you can load your configuration later in the event that the router's default settings are restored.

To save the configuration, click the **Save Configuration** button.

[More...](#)

WIRELESS

Firmware Update

You can upgrade the firmware of the Router here. Please check the D-Link support site for firmware updates at <http://support.dlink.com> or simply click the **Check Now** button located in the Firmware Information section. You can download firmware upgrades to your hard drive from the D-Link support site. 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.

Current Firmware Version: Displays the current firmware version.

Current Firmware Date: Displays the current firmware date.

Check Online Now for Latest Firmware Version: Click the **Check Now** button, or the “Click here to check for an upgrade on our support site.” hyperlink at the top of the page, to see what the latest firmware for the Router is.

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

Language Pack Upgrade: This function allows the user to transfer the language of the GUI from English to their own language by upgrading the language pack. Click the **Browse** control to locate the desired language pack on your hard drive. Click **Upload** to complete the language pack upgrade.

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for Administrator Settings, Time and Date, Save and Restore Settings, Firmware Update, System Check, Log Settings, and Logout. The main content area is titled 'FIRMWARE UPDATE' and contains the following sections:

- FIRMWARE UPDATE:** A notice stating there may be new firmware for the DIR-604 to improve functionality and performance, with a link to check for an upgrade on the support site. Below this, instructions are provided for upgrading the firmware: locate the file on the local hard drive, click 'Browse', and then click 'Upload' to start the upgrade.
- FIRMWARE INFORMATION:** Displays the current firmware version (1.00CN) and the current firmware date (Sun 19 Sep 2010). It includes a 'Check Online Now for Latest Firmware Version' button.
- FIRMWARE UPGRADE:** A note in red text states that some firmware upgrades reset configuration options to factory defaults and advises saving the current configuration before upgrading. It provides instructions to ensure a wired connection to the router and to enter the name of the firmware upgrade file. It includes an 'Upload' field with a 'Browse...' button and an 'Upload' button.
- LANGUAGE PACK UPGRADE:** Similar to the firmware upgrade section, it includes an 'Upload' field with a 'Browse...' button and an 'Upload' button.

The bottom of the page features a 'WIRELESS' section header.

System Check

The System Check feature allows you to verify the physical connectivity on both the LAN and Internet interface.

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**.

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

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes 'DIR-604', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various settings: Administrator Settings, Time and Date, Save and Restore Settings, Firmware Update, System Check (highlighted), Schedule, Log Settings, and Logout. The main content area is titled 'SYSTEM CHECK' and contains the following sections:

- SYSTEM CHECK:** A header section with an orange background.
- DESCRIPTION:** A text box explaining that the System Check tool verifies LAN and Internet connectivity, and the Ping Test tool verifies Internet status.
- VCT INFO:** A table showing the LAN port status as '100Mbps FULL Duplex' with a 'More Info' button.
- PING TEST:** A section with a description and a form containing a text input for 'Host Name or IP Address' and a 'Ping' button.
- PING RESULT:** A section intended for displaying the results of the ping test.

On the right side, there is a 'Helpful Hints...' section with a 'More...' link.

Log Settings

The Router keeps a running log of events and activities occurring on the device. You can define what types of events you want to view and the level of the events to view. The Router also has external Syslog Server support, so you can send the log files to a computer on your network that is running a Syslog utility.

Save Log File to Local Hard Drive: Click the **Save** button to save the log file to your local hard drive.

Enable Logging to Syslog Server: Tick this check box to send the Router logs to a SysLog Server.

Syslog Server IP Address: The address of the SysLog server that will be used to send the logs. You may also select your computer from the drop-down menu (only if receiving an IP address from the Router via DHCP).

Log Type: Tick the desired type(s) of logs that should be displayed: System, Firewall & Security, and Router Status.

Log Level: Tick the desired level(s) of importance: Critical, Warning, and Information.

Email Address: Enter the e-mail address where you want the email sent.

Email Subject: Enter a subject description for your e-mail.

Sender Email Address: This e-mail address will appear as the sender when you receive a log file or firmware upgrade notification via e-mail.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Administrator Settings
Time and Date
Save and Restore Settings
Firmware Update
System Check
Log Settings
Logout

LOG SETTINGS

Logs can be saved by sending it to an admin email address.

Save Settings Don't Save Settings

SAVE LOG FILE

Save Log File To Local Hard Drive Save

SYSLOG SETTINGS

Enable Logging To Syslog Server:

Syslog Server IP Address : 0.0.0.0 << Computer Name

LOG TYPE & LEVEL

Log Type: System Firewall & Security Router Status
Log Level: Critical Warning Information

SEND BY MAIL

Email Address :
Email Subject :
Sender Email Address :
SMTP Server/IP Address :
User Name :
Password :
Confirm Password : Send Mail Now

WIRELESS

Helpful Hints...
You may want to make the email settings similar to those of your email client program.
More...

SMTP Server/ IP Address: Enter the SMTP server address for sending e-mail. If your SMTP server requires authentication, select this option.

User Name: Enter your account user name for sending e-mail.

Password: Enter the password associated with the account.

Confirm Password: Re-type the password associated with the account and click the **Send Mail Now** button.

Click the **Save Settings** button when you have finished the log settings configuration.

Device Information

This page displays the current information for the DIR-604. It will display the LAN and Wireless information, in addition to the firmware version and date the firmware was last updated.

If your Internet 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 Internet connection is set up for PPPoE, PPTP, or L2TP, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the Internet connection and use **Connect** to establish the Internet connection. See the following for more information.

LAN: Displays the MAC address and the private (local) IP settings for the Router.

Wireless Displays the wireless mode, MAC address and **802.11n:** your wireless settings such as SSID, Channel, and Encryption status.

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes 'DIR-604', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' tab is selected, and the 'DEVICE INFORMATION' section is active. The page displays the following information:

DEVICE INFORMATION	
All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.	
Firmware Version : 1.00CN, Sun 19 Sep 2010	
LAN	
MAC Address : F0:7D:68:78:90:7C IP Address : 192.168.0.1 Subnet Mask : 255.255.255.0 Default Gateway : 0.0.0.0 Primary DNS Server : 0.0.0.0 Secondary DNS Server : 0.0.0.0	
WIRELESS 802.11N	
Wireless Mode : AP MAC Address : F0:7D:68:78:90:7C SSID : dlink Channel : 11 Encryption : WPA/WPA2 - Personal	

On the right side, there is a 'Helpful Hints...' section with a 'More...' link.

View Log

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

First Page: Click this button to view the first page of the log file.

Last Page: Click this button to view the last page of the log file.

Previous: Click this button to view the previous page of the log file.

Next: Click this button to view the next page of the log file.

Clear: Clears all of the log contents.

Link to Log Settings: The user can click the button to “link to log settings” and save the logs to a local hard drive or to a Syslog server.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info

View Log

Traffic Statistics

Wireless

Logout

VIEW LOG

View Log displays the activities occurring on the DIR-604.

VIEW LOG

First Page Last Page Previous Next Clear Link To Log Settings

Page 1 of 10

Time and Date	Message
Sep 19 09:07:33	DHCP Discover no response
Sep 19 09:07:29	DHCP Discover
Sep 19 09:07:27	DHCP Discover
Sep 19 09:07:25	DHCP Discover
Sep 19 09:06:25	DHCP Discover no response
Sep 19 09:06:21	DHCP Discover
Sep 19 09:06:19	DHCP Discover
Sep 19 09:06:17	DHCP Discover
Sep 19 09:05:17	DHCP Discover no response
Sep 19 09:05:13	DHCP Discover

WIRELESS

Helpful Hints...

Check the log frequently to detect unauthorized network usage.

You can also have the log mailed to you periodically. Refer to [Maintenance → Email](#)

[More...](#)

Traffic Statistics

The page displays the Traffic Statistics. Here you can view the amount of packets that pass through the DIR-604 on the Internet, LAN, and Wireless connections. The traffic counter will reset if the device is rebooted. Alternatively, you can click either the **Reset** button or the **Refresh** button.

D-Link

DIR-604 //

SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info

View Log

Traffic Statistics

Wireless

Logout

TRAFFIC STATISTICS

Traffic Statistics display Receive and Transmit packets passing through your router.

Refresh Reset

	Received	Transmit
Internet	-	-
LAN	0 Packets	2436 Packets
WIRELESS 11n	1073 Packets	39 Packets

Helpful Hints...

This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.

[More...](#)

WIRELESS

Wireless

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

D-Link

DIR-604 // **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

Device Info **WIRELESS** Helpful Hints...

View Log Use this option to view the wireless clients that are connected to your wireless router.

Traffic Statistics

Wireless **NUMBER OF WIRELESS CLIENTS : 0** This is a list of all wireless clients that are currently connected to your wireless router.

Logout

MAC Address	IP Address	Mode	Rate	Signal (%)
-------------	------------	------	------	------------

More...

WIRELESS

Configuration

This section will show you how to configure your new D-Link wireless Router using the Web-based configuration utility.

Web-based Configuration Utility for Client Mode

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**).



Type **Admin** in the **User Name** field and then enter your password. Leave the password blank by default.

Click the **Login** button to log in to the Router.

A screenshot of the D-Link router's login page. The page has an orange header with the text "Log In". Below the header, it says "Log in to the router :". There are two input fields: "User Name : admin" and "Password :". A "Log In" button is located below the password field.

If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.

WIRELESS

Client Mode Opening Page

Once logged into the Web interface of the Router in Client Mode, the **Device Information** page will appear. This displays the MAC Address, Channel, and Encryption status. To make changes to your wireless network, click **Setup** to access the **Wireless** page.

The screenshot displays the D-Link DIR-604 web interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The main content area is divided into several sections:

- Device Info:** A sidebar menu with options: View Log, Traffic Statistics, Wireless, and Logout.
- DEVICE INFORMATION:** A highlighted section containing the text: "All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here." Below this, it shows "Firmware Version : 3.00, Mon 23 Aug 2010".
- LAN:** A section displaying network details:
 - MAC Address : FD:7D:68:78:90:7C
 - IP Address : 192.168.0.1
 - Subnet Mask : 255.255.255.0
 - Default Gateway : 0.0.0.0
 - Primary DNS Server : 0.0.0.0
 - Secondary DNS Server : 0.0.0.0
- WIRELESS 802.11N:** A section displaying wireless settings:
 - Wireless Mode : AP Client
 - MAC Address : FD:7D:68:78:90:7C
 - Channel : 1
 - Encryption : Disabled
- Helpful Hints...:** A sidebar on the right with the text: "All of your WAN and LAN connection details are displayed here." and a "More..." link.
- WIRELESS:** A large, dark header at the bottom of the main content area.

Wireless

Use the **Wireless** page to make changes to your wireless configuration.

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Wireless Connection
Lan Setup
Logout

WIRELESS

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

Save Settings Don't Save Settings

WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)

Enable:

Current PIN: **83164576**

Generate New PIN Reset PIN to Default

Wi-Fi Protected Status: Enable / Configured

Reset to Unconfigured Add Wireless Device with WPS

WIRELESS NETWORK SETTINGS

Wireless Mode: Wireless Client

Enable Wireless:

Wireless Network Name (SSID): dlink-cts (Also called the SSID)

Enable Auto Channel Selection:

Wireless Channel: 6

Transmission Rate: Best (automatic) (Mbit/s)

WMM Enable: (Wireless QoS)

Enable Hidden Wireless: (Also called the SSID Broadcast)

SITE SURVEY

Scan

SSID	CH	Signal	Security	Type	BSSID

WIRELESS SECURITY MODE

Security Mode: Disable Wireless Security (not recommended)

Save Settings Don't Save Settings

Helpful Hints...

Changing your Wireless Network Name is the first step in securing your wireless network. Change it to a familiar name that does not contain any personal information.

Enable Auto Channel Scan so that the router can select the best possible channel for your wireless network to operate on.

Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they scan to see what's available. For your wireless devices to connect to your router, you will need to manually enter the Wireless Network Name on each device.

If you have enabled Wireless Security, make sure you write down the Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.

More...

Configuration

This section will show you how to configure your new D-Link wireless Router using the Web-based configuration utility.

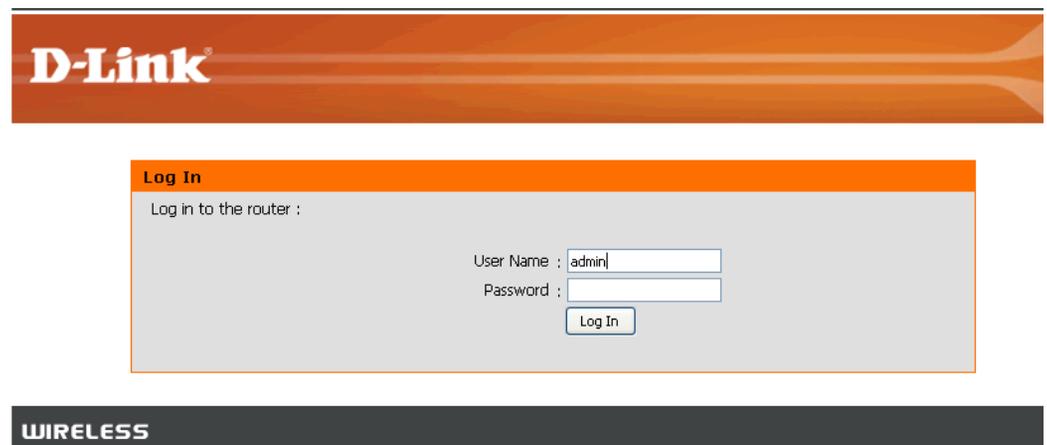
Web-based Configuration Utility for Router Mode

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**).



Type **Admin** in the **User Name** field and then enter your password. Leave the password blank by default.

Click the **Login** button to log in to the Router.



If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.

Router Mode Opening Page

Once logged into the Web interface of the Router in Router Mode, the **Device Information** page will appear. This displays the LAN's MAC Address, IP Address, Subnet Mask, and DHCP Server status. This page also displays additional Internet and Wireless 802.11n information. To make changes to your wireless network, click **Setup** to access the **Wireless Connection** page.

The screenshot shows the D-Link DIR-604 router's web interface. The top navigation bar includes 'DIR-604', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' tab is active, displaying the 'DEVICE INFORMATION' page. The page is divided into three main sections: LAN, INTERNET, and WIRELESS 802.11N. A sidebar on the left contains links for Device Info, View Log, Traffic Statistics, Active Sessions, Wireless, and Logout. A 'Helpful Hints...' section on the right provides additional context and a 'More...' link.

DIR-604	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Device Info	DEVICE INFORMATION				Helpful Hints...
View Log	All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.				All of your WAN and LAN connection details are displayed here. More...
Traffic Statistics	Firmware Version : 1.00CN, Sun 19 Sep 2010				
Active Sessions	LAN				
Wireless	MAC Address : F0:7D:68:78:90:7C IP Address : 192.168.0.1 Subnet Mask : 255.255.255.0 DHCP Server : Enabled				
Logout	INTERNET				
	MAC Address : F0:7D:68:78:90:7D DHCP Client Disconnected Connection : <input type="button" value="DHCP Renew"/> <input type="button" value="DHCP Release"/> IP Address : 0.0.0.0 Subnet Mask : 0.0.0.0 Default Gateway : 0.0.0.0 DNS : 0.0.0.0				
	WIRELESS 802.11N				
	Wireless Mode : Wireless Router MAC Address : F0:7D:68:78:90:7C SSID : dlink_cts Channel : 1 Encryption : Disabled				
WIRELESS					

Internet Connection Setup Wizard

Once logged into the Web interface of the Router, the **Setup > Internet** page will appear. Click the **Internet Connection Setup Wizard** button to quickly configure your Router using the setup wizard.

If you want to enter your settings without running the wizard, click **Manual Internet Connection Setup** and skip to “Manual Internet Configuration” on page 42.

The screenshot displays the D-Link DIR-604 Web interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for **DIR-604**, **SETUP**, **ADVANCED**, **MAINTENANCE**, **STATUS**, and **HELP**. The **SETUP** tab is selected, and the **INTERNET CONNECTION** sub-tab is active. The main content area is divided into two sections: **INTERNET CONNECTION SETUP WIZARD** and **MANUAL INTERNET CONNECTION SETUP**. The wizard section includes a button labeled "Internet Connection Setup Wizard" and a note about following the Quick Installation Guide. The manual setup section includes a button labeled "Manual Internet Connection Setup". On the right side, a **Helpful Hints...** sidebar provides guidance for new users (to use the wizard) and advanced users (to use manual setup). A **WIRELESS** tab is visible at the bottom left of the interface.

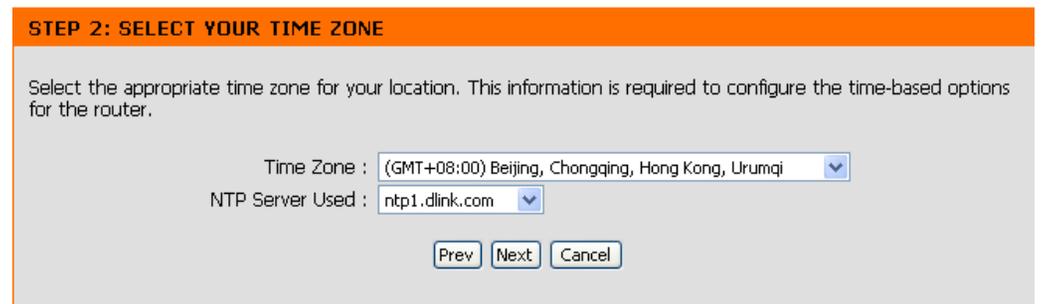
Click **Next** to continue.



Create a new password and then click **Next** to continue.



Select your time zone and desired NTP server from the drop-down menus and then click **Next** to continue.



To have the Setup Wizard automatically detect the WAN connection type, select “Yes” and then click **Next**. To manually choose your WAN Connection Mode, select “No, I want to set by manual” and then click **Next** to continue.

STEP 3: SELECT WAN CONNECTION MODE

D-Link Wizard can detect what connection type you used. Do you want to auto detect connection type?

- Yes.
- No, I want to set by manual.

Prev Next Cancel

Select the type of Internet connection you use and then click **Next** to continue.

STEP 3: CONFIGURE YOUR INTERNET CONNECTION

DHCP Connection (Dynamic IP Address)

Choose this if your Internet connection automatically provides you with an IP Address. Most Cable Modems use this type of connection.

Username / Password Connection(PPPoE)

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

Username / Password Connection(PPTP)

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

Username / Password Connection(L2TP)

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

Static IP Address Connection

Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured.

Prev Next Cancel

If you selected DHCP Connection (Dynamic IP Address), you may need to enter the MAC address of the computer that was last connected directly to your modem. If you are currently using that computer, click **Clone Your PC's MAC Address** and then click **Next** to continue.

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.

DHCP CONNECTION (DYNAMIC IP ADDRESS)

To set up this connection, please make sure that you are connected to the D-Link Router with the PC that was originally connected to your broadband connection. If you are, then click the Clone MAC button to copy your computer's MAC Address to the D-Link Router.

MAC Address : - - - - - (optional)

Copy Your PC's MAC Address

Host Name :

Note: You may also need to provide a Host Name. If you do not have or know this information, please contact your ISP.

Prev Next Cancel

If you selected PPPoE, enter your PPPoE username and password. Click **Next** to continue.

Select “Static IP” if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.

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

SET USERNAME AND PASSWORD CONNECTION(PPPOE)

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

Address Mode : Dynamic IP (DHCP) Static IP

IP Address :

User Name :

Password :

Confirm Password :

Service Name : (optional)

Note: You may also need to provide a Service Name. If you do not have or know this information, please contact your ISP.

If you selected PPTP, enter your PPTP username and password. Click **Next** to continue.

SET USERNAME AND PASSWORD CONNECTION(PPTP)

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

Address Mode : Dynamic IP (DHCP) Static IP

PPTP IP Address:

PPTP Subnet Mask:

PPTP Gateway IP Address:

PPTP Server IP Address (may be same as gateway) :

User Name:

Password :

Confirm Password:

If you selected L2TP, enter your L2TP username and password. Click **Next** to continue.

SET USERNAME AND PASSWORD CONNECTION(L2TP)

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

Address Mode : Dynamic IP (DHCP) Static IP

L2TP IP Address : 0.0.0.0

L2TP Subnet Mask : 255.255.255.0

L2TP Gateway IP Address : 0.0.0.0

L2TPServer IP Address (may be same as gateway) :

User Name :

Password :

Confirm Password :

Prev Next Cancel

If you selected Static, enter your network settings supplied by your Internet provider. Click **Next** to continue.

SET STATIC IP ADDRESS CONNECTION

To set up this connection you will need to have a complete list of IP information provided by your Internet Service Provider. If you have a Static IP connection and do not have this information, please contact your ISP.

IP Address : 0.0.0.0

PPTP Subnet Mask : 255.255.255.0

Gateway Address : 0.0.0.0

Primary DNS Server : 0.0.0.0

Secondary DNS Server : 0.0.0.0 (optional)

Prev Next Cancel

The Setup is now complete. Click the **Connect** to save your settings. Please allow 1-2 minutes to connect.

SETUP COMPLETE!

The Setup Wizard has completed. Click the Connect button to save your settings and reboot the router.

Prev Connect Cancel

Manual Internet Configuration (Dynamic IP)

If you opt to set up your Internet connection manually, you will be redirected to a WAN page that allows you to select your Internet type and enter the correct configuration parameters.

My Internet Connection Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your ISP. Select this option if your ISP **is:** does not give you any IP numbers to use.

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

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

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP. Leave at 0.0.0.0 if you did not specifically receive an address from your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP. Leave at 0.0.0.0 if you did not specifically receive an address from your ISP.

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

Click the **Save Settings** button when you have finished configuring the Internet connection.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Internet Connection

INTERNET CONNECTION

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

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

Save Settings Don't Save Settings

INTERNET CONNECTION TYPE

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-604

MAC Address : 00 - 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

WIRELESS

Helpful Hints...

When configuring the router to access the Internet, be sure to choose the correct **Internet Connection Type** from the drop down menu. If you are unsure of which option to choose, contact your **Internet Service Provider (ISP)**.

If you are having trouble accessing the Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed.

More...

Manual Internet Configuration (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.

My Internet Connection Select **PPPoE (Username/Password)** to obtain IP address information automatically from your ISP. Select this option **is:** if your ISP does not give you any IP numbers to use.

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

User Name: Enter your PPPoE user name.

Password: Enter your PPPoE password.

Confirm Password: Retype the PPPoE password entered above.

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

Primary DNS Server: Enter the primary DNS server address (Static PPPoE only).

INTERNET CONNECTION TYPE

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

My Internet Connection is : PPPoE(Username / Password) ▾

PPPOE

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

Dynamic IP (DHCP) Static IP

User Name :

Password :

Confirm Password :

Service Name : (optional)

IP Address :

MAC Address : - - - - - (optional)

Copy Your PC's MAC Address

Receive DNS from ISP Enter DNS Manually

Primary DNS Server :

Secondary DNS Server : (optional)

Maximum Idle Time : (minutes, 0=infinite)

MTU : bytes MTU default 1492

Connection mode select : Always ▾

Manual Connection-on demand

: I need sniper

special dial mode : normal dial mode (default) ▾

Secondary DNS Server: Enter the secondary DNS server address (Static PPPoE only).

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select either **Always** or **Manual** for the Connection mode select setting below.

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

Connection Mode Select: Select either **Always**, **Manual**, or **Connection On-Demand**. Click the **Add New** button to create a new connection.

I need sniper: Tick the check box to indicate you want to use the sniper feature.

Special Dial Mode: Select **normal dial mode (default)** or **special dial mode 1**, **special mode 2**, **special mode 3**, **special mode 4**, **special mode 5**, or **special mode 6**.

Click the **Save Settings** button when you have finished configuring the Internet connection.

Manual Internet Configuration (PPTP)

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

My Internet Connection is: Select **PPTP (Username/Password)** to obtain IP Address information automatically from your ISP.

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

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

PPTP Subnet Mask: Enter the subnet mask (Static PPTP only).

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

Primary DNS Server: Enter the primary DNS server address (Static PPTP only).

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

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

User Name: Enter your PPTP user name.

INTERNET CONNECTION TYPE

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

My Internet Connection is : PPTP(Username / Password) ▼

PPTP INTERNET CONNECTION TYPE :

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

Dynamic IP (DHCP) Static IP

PPTP IP Address :

PPTP Subnet Mask :

PPTP Gateway IP Address :

Primary DNS Server :

MAC Address : - - - - - (optional)

Copy Your PC's MAC Address

PPTP Server IP Address :

User Name :

Password :

Confirm Password :

Maximum Idle Time : (minutes, 0=infinite)

MTU : bytes

Connection mode select : Always ▼ Manual Connection-on demand

Password: Enter your PPTP password.

Confirm Password: Retype the PPTP password entered above.

Maximum Idle Time:

Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select either **Always** or **Manual** for the Connection mode select setting below.

MTU: Maximum Transmission Unit. You may need to change the MTU for optimal performance with your specific ISP. The default is 1400.

Connection Mode Select: Select either **Always**, **Manual**, or **Connection On-Demand**. Click the **Add New** button to create a new connection.

Click the **Save Settings** button when you have finished configuring the Internet connection.

Manual Internet Configuration (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.

My Internet Connection is: Select **L2TP (Username/Password)** to obtain IP Address information automatically from your ISP.

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

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

L2TP Subnet Mask: Enter the subnet mask (Static L2TP only).

L2TP Gateway IP Address: Enter the gateway IP address provided by your ISP.

Primary DNS Server: Enter the primary DNS server Address (Static L2TP only).

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

L2TP Server IP Address: Enter the server IP address provided by your ISP (optional).

User Name: Enter your L2TP user name.

INTERNET CONNECTION TYPE

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

My Internet Connection is : L2TP(Username / Password) ▼

L2TP INTERNET CONNECTION TYPE :

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

Dynamic IP (DHCP)
 Static IP

L2TP IP Address :

L2TP Subnet Mask :

L2TP Gateway IP Address :

Primary DNS Server :

MAC Address : - - - - - (optional)

Copy Your PC's MAC Address

L2TP Server IP Address :

User Name :

Password :

Confirm Password :

Maximum Idle Time : (minutes, 0=infinite)

MTU : bytes

Connection mode select : Always Manual Connection-on demand

Add New

Save Settings

Don't Save Settings

Password: Enter your L2TP password.

Confirm Password: Retype the L2TP password entered above.

Maximum Idle Time:

Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select either **Always** or **Manual** for the Connection mode select setting below.

MTU: Maximum Transmission Unit. You may need to change the MTU for optimal performance with your specific ISP. The default is 1400.

Connection Mode Select: Select either **Always**, **Manual**, or **Connection On-Demand**. Click the **Add New** button to create a new connection.

Click the **Save Settings** button when you have finished configuring the Internet connection.

Manual Internet Configuration (Static IP)

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

My Internet Connection is: Select **Static IP** if you want to manually enter information provided by your ISP.

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

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

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

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

Primary DNS Server: Enter the primary DNS server address provided by your ISP.

Secondary DNS Server: Enter the secondary DNS server address provided by your ISP.

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

INTERNET CONNECTION TYPE

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

My Internet Connection is :

STATIC IP ADDRESS INTERNET CONNECTION TYPE

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

IP Address :

Subnet Mask :

Default Gateway :

MAC Address : - - - - - (optional)

Primary DNS Server :

Secondary DNS Server : (optional)

MTU : bytes MTU default 1500

Wireless Connections

If you want to configure the wireless settings on your Router using the wizard, click **Wireless Connection Setup Wizard** and refer to “Wireless Connection Setup Wizard” on page 81.

If you want to manually configure the wireless settings on your Router, click **Manual Wireless Connection Setup** and refer to the next page.

The screenshot displays the D-Link DIR-604 web interface. At the top, the D-Link logo is visible. Below it, a navigation menu includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar shows a menu with options: Internet Connection, Wireless Connection (selected), Lan Setup, and Logout. The main content area is titled "WIRELESS CONNECTION" and contains the following text:

There are 2 ways to setup your wireless connection. You can use the Wireless Connection Setup wizard or you can manually configure the connection.

Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

WIRELESS CONNECTION SETUP WIZARD

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

[Wireless Connection Setup Wizard](#)

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

MANUAL WIRELESS CONNECTION OPTIONS

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

[Manual Wireless Connection Setup](#)

On the right side of the interface, there is a "Helpful Hints..." section with the following text:

If you are new to wireless networking and have never configured a wireless router before, click on **Wireless Network Setup Wizard** and the router will guide you through a few simple steps to get your wireless network up and running.

If you consider yourself an advanced user and have configured a wireless router before, click **Manual Wireless Network Setup** to input all the settings manually.

[More...](#)

At the bottom of the interface, the word "WIRELESS" is displayed in a dark bar.

Manual Wireless Network Setup

Enable Wireless: Tick the check box to enable the wireless function. If you do not want to use wireless, de-select the check box to disable all the wireless functions.

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

Enable Auto Channel Selection: The **Auto Channel Scan** setting can be selected to allow the DIR-604 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DIR-604. 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. If you enable **Auto Channel Scan**, this option will be grayed out.

Transmission Rate: Select the transmit rate. It is strongly suggested to select **Best (automatic)** for best performance.

WMM Enable: WMM (Wi-Fi Multimedia) is QoS for your wireless network. Check this box to improve the quality of video and voice applications for your wireless clients. This feature is not available in 802.11n configurations.

Enable Hidden Wireless: Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform a scan to see what's available. In order for your wireless devices to connect to your Router, you will need to manually enter the Wireless Network Name on each device.

Security Mode: Refer to **Section 4 - Wireless Security** for more information regarding wireless security.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Internet Connection

Wireless Connection

Lan Setup

Logout

WIRELESS

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

Save Settings Don't Save Settings

WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)

Enable:

Current PIN: **83164576**

Generate New PIN Reset PIN to Default

Wi-Fi Protected Status: Enable / Configured

Reset to Unconfigured

Add Wireless Device with WPS

WIRELESS NETWORK SETTINGS

Wireless Mode: Wireless Router

Enable Wireless:

Wireless Network Name (SSID): dlink-cts (Also called the SSID)

Enable Auto Channel Selection:

Wireless Channel: 6

Transmission Rate: Best (automatic) (Mbit/s)

WMM Enable: (Wireless QoS)

Enable Hidden Wireless: (Also called the SSID Broadcast)

WIRELESS SECURITY MODE

Security Mode: Disable Wireless Security (not recommended)

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

Changing your Wireless Network Name is the first step in securing your wireless network. Change it to a familiar name that does not contain any personal information.

Enable Auto Channel Scan so that the router can select the best possible channel for your wireless network to operate on.

Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they scan to see what's available. For your wireless devices to connect to your router, you will need to manually enter the Wireless Network Name on each device.

If you have enabled Wireless Security, make sure you write down the key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.

More...

Advanced Port Forwarding Rules

Port Forwarding is a feature that allows you to open a single port or a range of ports and redirect the data received through those ports to a single PC on your network. When you are finished on this page, go to the Schedule page (**Maintenance > Schedule**) and create a schedule for when the port forwarding rule will be enabled.

Name: Enter a name for the rule or select an application from the drop-down menu. Select an application and click << to populate the fields.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to. If your computer is receiving an IP address automatically from the Router (DHCP), you computer will be listed in the “Computer Name” drop-down menu. Select your computer and click <<.

Public Port/ Private Port: Enter the range of ports that you want to open next to the Private Port and Public Port fields. The private and public ports are usually the same. The private ports are the ports being used by the application on the computer within your local network, and the public ports are the ports seen from the Internet side.

Traffic Type: Use the drop-down menu to select whether **TCP**, **UDP**, or **Any** type of traffic is used for the port forwarding rule.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

ADVANCED PORT FORWARDING RULES

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

Save Settings Don't Save Settings

24-- ADVANCED PORT FORWARDING RULES

Remaining number of rules that can be created : 24

	Name	IP Address	Application Name	Port	Traffic Type
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Application Name	Public Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Computer Name	Private Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Application Name	Public Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Computer Name	Private Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Application Name	Public Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Computer Name	Private Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Application Name	Public Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Computer Name	Private Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Application Name	Public Port <input type="text"/> ~ <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<< Computer Name	Private Port <input type="text"/> ~ <input type="text"/>	Any

Helpful Hints...

Check the **Application Name** drop down menu for a list of predefined server types. If you select one of the predefined server types, click the arrow button next to the drop down menu to fill out the corresponding field.

[More...](#)

Application Rules

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DIR-604. If you need to run applications that require multiple connections, specify the port normally associated with an application in the Trigger port field, select the protocol type as TCP, UDP, or Any, and then enter the firewall (public) ports associated with the trigger port to open them for inbound traffic.

The DIR-604 provides some predefined applications in the table on the bottom of the Web page. Select the application you want to use and enable it. When you are finished on this page, go to the Schedule page (**Maintenance > Schedule**) and create a schedule for when the application rule will be enabled.

Name: Enter a name for the rule. You may select a pre-defined application from the drop-down menu and click <<.

Trigger: This is the port used to trigger the application. It can be either a single port or a range of ports.

Traffic Type: Select the protocol of the trigger port (**TCP, UDP, or Any**).

Firewall: This is the port number on the Internet side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

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

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

APPLICATION RULES

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

Save Settings Don't Save Settings

24--APPLICATION RULES

Remaining number of rules that can be created : 24

	Name	Application	Port	Traffic Type
<input type="checkbox"/>	<input type="text"/>	<< Application Name	Trigger <input type="text"/> Firewall <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<< Application Name	Trigger <input type="text"/> Firewall <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<< Application Name	Trigger <input type="text"/> Firewall <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<< Application Name	Trigger <input type="text"/> Firewall <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<< Application Name	Trigger <input type="text"/> Firewall <input type="text"/>	Any
<input type="checkbox"/>	<input type="text"/>	<< Application Name	Trigger <input type="text"/> Firewall <input type="text"/>	Any

Helpful Hints...

Check the **Application Name** drop down menu for a list of predefined applications. If you select one of the predefined applications, click the arrow button next to the drop down menu to fill out the corresponding field.

More...

MAC Filtering

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

Configure MAC Filtering: Select **Turn MAC Filtering Off**, **Turn MAC Filtering ON** and **ALLOW** computers listed to access the network, or **Turn MAC Filtering ON** and **DENY** computers listed to access the network from the drop-down menu.

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

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

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

Schedule: Select a schedule for when the Network Filter will be enabled. The user can click the **Add New** button to bring up the Schedule page. This is used to configure a new schedule.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

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 FILTERING RULES

Configure MAC Filtering below:
Turn MAC Filtering OFF

Remaining number of rules that can be created : 24

	MAC Address		DHCP Client List	Schedule
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New
<input type="checkbox"/>		<<	Computer Name	Always Add New

Helpful Hints ...
Create a list of MAC addresses that you would either like to allow or deny access to your network.
Computers that have obtained an IP address from the router's DHCP server will be in the DHCP Client List. Select a device from the drop down menu, then click the arrow to add that device's MAC address to the list.
[More](#)

Parental Control Rules

Parental Control Rules are used to allow you to set up a list of allowed Websites that can be used by multiple users through the network. To use this feature, select to allow or deny computer access to the specified sites, enter the domain or Website, and then click **Add New** and configure a schedule on the Schedule page. Finally, tick the desired corresponding parental control rule check box and then click **Save Settings**.

Configure Parental Control Below: Select **Turn Parental Control OFF**, **Turn Parental Control ON and Deny computers access to only these sites**, or **Turn Parental Control ON and Allow computers access to only these sites**.

Website URL: Enter the URLs that you want to allow or deny.

Schedule: Use the drop-down menu to select the schedule for the network filter rule. Click the **Add New** button to bring up the Schedule page. This is used to configure a new schedule.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

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 CONTROL RULES

Configure Parental Control below:
Turn Parental Control OFF

Remaining number of rules that can be created : 10

	Webite URL	Schedule
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New
<input type="checkbox"/>		Always Add New

WIRELESS

Helpful Hints...
Create a list of Web Sites to which you would like to deny or allow through the network.
Use with **Advanced Access Control**.
[More...](#)

Traffic Control

Traffic Control is used to equally distribute download bandwidth to LAN/wireless clients. This can be done automatically or manually. To use this feature, enable traffic control and then choose to automatically or manually distribute bandwidth. Next, click **New Scheduler** and configure a schedule on the Schedule page. Finally, if you have chosen the manual option, tick the desired corresponding traffic control rule check box and then click **Save Settings**.

Enable Traffic Control: Tick the Enable Traffic Control check box to enable the traffic control feature.

Automatic Distribute Bandwidth: Tick the Automatic Distribute Bandwidth check box to automatically equally share bandwidth among LAN and wireless clients.

Key in bandwidth manually: Enter the desired bandwidth in kbps.

IP Range: Manually configure beginning and ending IP address ranges for traffic control rules. To activate, tick the corresponding check box for each desired traffic control rule.

Mode: Select **Guaranteed minimum bandwidth** or **Restricted maximum bandwidth**.

Bandwidth (kbps): Enter the bandwidth for the specific traffic control rule.

Schedule: Use the drop-down menu to select the schedule for the traffic control rule. Click the **New Scheduler** button to bring up the Schedule page. This is used to configure a new schedule.

TRAFFIC CONTROL

Traffic Control can distribute download bandwidth equally to the LAN/Wireless client. User also can setup the traffic control rules manually.

Save Settings Don't Save Settings

TRAFFIC CONTROL SETTING

Enable Traffic Control:

Automatic Distribute Bandwidth:

Key in bandwidth manually: kbps(1M=1024K)

5-TRAFFIC CONTROL RULES

	IP Range	Mode	Bandwidth(kbps)	Schedule
<input type="checkbox"/>	IP Address ~ IP Address	Guaranteed minimum bandwidth	<input type="text"/>	Always New Scheduler
<input type="checkbox"/>	IP Address ~ IP Address	Guaranteed minimum bandwidth	<input type="text"/>	Always New Scheduler
<input type="checkbox"/>	IP Address ~ IP Address	Guaranteed minimum bandwidth	<input type="text"/>	Always New Scheduler
<input type="checkbox"/>	IP Address ~ IP Address	Guaranteed minimum bandwidth	<input type="text"/>	Always New Scheduler
<input type="checkbox"/>	IP Address ~ IP Address	Guaranteed minimum bandwidth	<input type="text"/>	Always New Scheduler

Save Settings Don't Save Settings

WIRELESS

Firewall & DMZ

A firewall protects your network from the outside world. The D-Link DIR-604 offers a firewall type functionality. The SPI feature helps prevent cyber attacks. Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable DMZ (DMZ is short for Demilitarized Zone). This option will completely expose the chosen computer to the outside world.

Enable Anti-Spoof checking: Tick to enable the Router's built-in anti-spoofing feature.

Enable SPI: SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol.

Enable DMZ: Tick this check box to enable DMZ.

DMZ IP Address: Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication in this field. Use the drop-down menu to specify a host that currently has a DHCP lease from the DIR-604. If this computer has obtained its IP address automatically using DHCP, be sure to make a static reservation on the LAN Setup page (**Setup > LAN Setup**) in the DHCP Reservation section so that the IP address of the DMZ machine does not change.

RSTP: Tick to enable application level gateway (ALG) configuration of RTSP.

Firewall Rules: Use this section to create rules that deny or allow traffic from passing through the device. See the following page for information on how to create firewall rules.

D-Link

DIR-604

SETUP ADVANCED MAINTENANCE STATUS HELP

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

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 : 0.0.0.0 << Computer Name

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

RTSP :

50 - FIREWALL RULES

Remaining number of rules that can be created : 50

Helpful Hints...

Enable the DMZ option only as a last resort. If you are having trouble using an application from a computer behind the router, first try opening ports associated with the application in the **Port Forwarding** sections.

More...

Firewall Rules

To create a firewall rule, configure the parameters described below:

Name: Enter a name for the firewall rule.

Action: Use the drop-down menu to specify if the Router should **Allow** or **Deny** traffic matching the firewall rule.

Interface: Use the drop-down menus to select the **Source** and **Dest** (ination) interfaces for the firewall rule. You also may opt to choose either **LAN** or **WAN** for each pair of interfaces.

IP Address: Use these fields next to each Interface drop-down menu to specify the IP address ranges for the Source/Destination interfaces.

The first host in the IP address range should be entered in the top field and the last host in the IP address range should be entered in the field beneath for both the Source/Destination interfaces.

Protocol: Use the drop-down menu to select the protocol that will be used for the firewall rule (**TCP**, **UDP**, **ICMP**, or **All**).

Port Range: Enter the range of ports that the firewall rule will apply to.

The first port in the port range should be entered in the top field and the last host in the port range should be entered in the field beneath.

Schedule: Use the drop-down menu to select the schedule for the firewall rule. Click the **Add New** button to bring up the Schedule page to configure the new schedule.

50 - FIREWALL RULES

Remaining number of rules that can be created : 50

	Interface	IP Address	Protocol	Schedule
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	
<input type="checkbox"/>	Name <input type="text"/> Source <input type="text"/>	<input type="text"/>	Protocol <input type="text"/> TCP <input type="text"/>	Always <input type="text"/> <input type="button" value="Add New"/>
	Action <input type="text"/> Allow <input type="text"/>	Dest <input type="text"/>	Port Range <input type="text"/>	

Advanced Wireless 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 2432. 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. Note: High network traffic areas should use the **Short Preamble** type.

CTS Mode: Select **None** to disable this feature. Select **Always** to force the Router to require each wireless device on the network to perform an RTS/CTS handshake before they are allowed to transmit data. Select **Auto** to allow the Router to decide when RTS/CTS handshakes are necessary

Wireless Mode: Use the drop-down menu to select the wireless modes you want to enable on the Router. The available options are **802.11n only**, **802.11 Mixed (g/b)**, and **802.11 Mixed (n/g/b)**.

Bandwidth: Use the drop-down menu to select **20MHz** or **20/40MHz (Auto)**.

The screenshot shows the D-Link DIR-604 Advanced Wireless Settings page. The page is divided into several sections:

- Header:** D-Link logo and navigation tabs: SETUP, ADVANCED (selected), MAINTENANCE, STATUS, HELP.
- Left Sidebar:** A list of configuration categories: Advanced Port Forwarding Rules, Application Rules, MAC Filtering, Parental Control Rules, Traffic Control, Firewall & DMZ, Advanced Wireless Settings (selected), Advanced Network Settings, Routing, and Logout.
- Main Content Area:**
 - ADVANCED WIRELESS SETTINGS (Top):** A warning message: "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." Below the message are "Save Settings" and "Don't Save Settings" buttons.
 - ADVANCED WIRELESS SETTINGS (Bottom):** A list of configuration options:
 - Transmit Power: 100%
 - Beacon Period: 100 (msec, range: 20~1000, default: 100)
 - RTS Threshold: 2346 (range: 256~2346, default: 2346)
 - Fragmentation: 2346 (range: 1500~2346, default: 2346)
 - DTIM Interval: 1 (range: 1~255, default: 1)
 - Preamble Type: Short Preamble Long Preamble
 - CTS Mode: None Always Auto
 - Wireless Mode: 802.11Mixed(n/g/b)
 - Band Width: 20MHz
 - 20/40MHz Coexist: Enable Disabled
 - Short Guard Interval:
- Right Sidebar:** "Helpful Hints..." section with text: "It is recommended that you leave these parameters at their default values. Adjusting them could limit the performance of your wireless network." and a "More..." link.

20/40Mhz Coexist: Select to enable or disable 20MHz and 40MHz co-existing in the same wireless network. This is useful when 20MHz and 40MHz devices exist in the same wireless coverage area. Enable this feature to properly allocate channels without interference in such a scenario.

Short Guard Interval: Tick this check box to reduce the guard interval time therefore increasing the data capacity. However, this is less reliable and may create higher data loss.

Click the **Save Settings** button when you have finished the advanced wireless configuration.

Advanced Network Settings

Enable UPnP: To use the Universal Plug and Play (UPnP™) feature, tick the **Enable UPNP** box. UPNP provides compatibility with networking equipment, software, and peripherals.

Enable WAN Ping Respond: De-selecting this check box will not allow the DIR-604 to respond to pings. Blocking the Ping may provide some extra security from hackers. Tick the check box to allow the Internet port to be “pinged”.

WAN Port Speed: You may set the port speed of the Internet port to **10Mbps**, **100Mbps**, or **10/100Mbps Auto**. Some older cable or DSL modems may require you to set the port speed to 10Mbps.

Enable Multicast Streams: Tick the **Enable Multicast Streams** check box to allow multicast traffic to pass through the Router from the Internet.

Wireless Enhance Mode: Tick the **Wireless Enhance Mode** check box to enable the Router to forward all multicast streams from the Internet to the wireless station using a unicast stream. This feature helps improve the quality of multimedia applications for wireless users.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

ADVANCED NETWORK SETTINGS

These options are for users that wish to change the LAN settings. We do not recommend changing these settings from factory default. Changing these settings may affect the behavior of your network.

Save Settings Don't Save Settings

UPNP

Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.

Enable UPnP :

WAN PING

If you enable this feature, the WAN port of your router will respond to ping requests from the Internet that are sent to the WAN IP Address.

Enable WAN Ping Respond :

WAN PORT SPEED

10/100Mbps Auto

MULTICAST STREAMS

Enable Multicast Streams :

Wireless enhance mode :

Save Settings Don't Save Settings

WIRELESS

Helpful Hints...

UPnP helps other UPnP LAN hosts interoperate with the router. Leave the UPnP option enabled as long as the LAN has other UPnP applications.

For added security, it is recommended that you disable the WAN Ping Respond option. Ping is often used by malicious Internet users to locate active networks or PCs.

The WAN speed is usually detected automatically. If you are having problems connecting to the WAN, try selecting the speed manually.

If you are having trouble receiving multicast streams from the Internet, make sure the Multicast Streams option is enabled.

[More...](#)

Routing

The routing feature allows users to define fixed routes to defined destinations.

Interface: Select the interface which the IP packet must use to transit out of the Router when this route is used. Each route has a check box next to it. Tick the check box of the route you wish to enable.

Destination: Enter the IP address of the host or network you wish to access.

Subnet Mask: This field identifies the portion of the destination IP address in use.

Gateway: The gateway is the IP address of the router, if any, used to reach the specified destination.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

ROUTING

The Routing option allows you to define fixed routes to defined destinations.

Save Settings Don't Save Settings

32--STATIC ROUTING

Remaining number of rules that can be created : 32

	Interface	Destination	Subnet Mask	Gateway
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			
<input type="checkbox"/>	WAN			

Helpful Hints...

Each route has a check box next to it, check this box if you want the route to be enabled.

The destination IP address is the address of the host or network you wish to reach.

The Subnet mask field identifies the portion of the destination IP in use.

The gateway IP address is the IP address of the router, if any, used to reach the specified destination.

[More...](#)

Administrator Settings

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

Login Name: Enter the login name. The default is **admin**.

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

Confirm Password: Retype the new password for the Administrator Login Name.

Enable Graphical Authentication: Tick this check box to enable graphical authentication. The device supports this function to prevent phishing.

Enable Remote Management: Remote management allows the DIR-604 to be configured 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 remote (Internet) host.

IP Allowed to Access: Enter the IP address of the computer on the Internet that you want to have access to the Router. If left blank, any computer on the Internet can access the Router.

Port: The port number used to access the DIR-604. Example: http://x.x.x.x:8080 whereas x.x.x.x is the Internet IP address of the DIR-604 and 8080 is the port used for the Web Management interface.

DIR-604	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Administrator Settings	ADMINISTRATOR SETTINGS				Helpful Hints...
Time and Date	There is no password for this router by default. To help secure your network, we recommend that you should choose a new password.				For security reasons, it is recommended that you change the password for the Admin and User accounts. Be sure to write down the new and passwords to avoid having to reset the router in case they are forgotten.
Save and Restore Settings	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
Firmware Update	ADMINISTRATOR (The default login name is 'admin')				When enabling Remote Management, you can specify the IP address of the computer on the Internet that you want to have access to your router, or leave it blank to allow access to any computer on the Internet. More...
Dynamic DNS	Login Name : <input type="text" value="admin"/>				
System Check	Password : <input type="password" value="....."/>				
Schedule	Confirm Password : <input type="password" value="....."/>				
Log Settings	REMOTE MANAGEMENT				
Logout	Enable Graphical Authentication : <input type="checkbox"/>				
	Enable Remote Management : <input type="checkbox"/>				
	IP Allowed to Access : <input type="text" value="0.0.0.0"/>				
	Port : <input type="text" value="8080"/>				

Time and Date

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

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

Enable Daylight Saving: Tick the check box to enable Daylight Saving Time.

Sync your computer's time settings: Click this button to set the device's time the same to local PC.

Automatically synchronize with D-Link's Internet time server: Check the box to enable the device to automatically synchronize with a D-Link NTP Server. NTP stands for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Select one of the D-Link NTP Servers from the drop-down menu. The DIR-604 will then synchronize its clock to be the same time as the D-Link Internet time server. Click the **Update Now** button to synchronize with the D-Link Internet time server immediately.

Set the Time and Date Manually: To manually input the time, use the drop-down menus to enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second.

Click the **Save Settings** button to save any changes made.

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes 'D-Link', 'DIR-604', and tabs for 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists navigation options: Administrator Settings, Time and Date, Save and Restore Settings, Firmware Update, Dynamic DNS, System Check, Schedule, Log Settings, and Logout. The main content area is titled 'TIME AND DATE' and contains the following sections:

- TIME AND DATE:** A descriptive paragraph about the configuration options, followed by 'Save Settings' and 'Don't Save Settings' buttons.
- TIME AND DATE CONFIGURATION:** Shows the current time as '9/19/2010 09:52:55'. The 'Time Zone' is set to '(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi'. There is an unchecked checkbox for 'Enable Daylight Saving' and a 'Sync. your computer's time settings' button.
- AUTOMATIC TIME AND DATE CONFIGURATION:** Features an unchecked checkbox for 'Automatically synchronize with D-Link's Internet time server'. Below it, the 'NTP Server Used' is set to 'ntp1.dlink.com' with an 'Update Now' button.
- SET THE DATE AND TIME MANUALLY:** Includes dropdown menus for Year (2010), Month (Sep), Day(s) (19), Hour (09), Minute (52), and Second (49). It also has 'Save Settings' and 'Don't Save Settings' buttons.

The bottom of the interface has a 'WIRELESS' label.

Save and Restore Settings

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

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

Clear Language Pack: Click the **Clear** button to restore the device back to the English interface version and remove other languages installed for the system web pages.

The screenshot shows the D-Link DIR-604 web interface. At the top, there is a navigation menu with tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The 'ADVANCED' tab is selected, and the 'SAVE AND RESTORE SETTINGS' page is displayed. The page has a sidebar on the left with various settings options, and a main content area with the following controls:

- Save Settings To Local Hard Drive :** A text label followed by a **Save** button.
- Load Settings From Local Hard Drive :** A text label followed by a text input field and a **Browse...** button.
- Restore To Factory Default Settings :** A text label followed by a **Restore Device** button.
- Clear Language Pack :** A text label followed by a **Clear** button.

On the right side of the page, there is a **Helpful Hints...** section with the following text:

Once your router is configured the way you want it, you can save the configuration settings to a configuration file.

You might need this file so that you can load your configuration later in the event that the router's default settings are restored.

To save the configuration, click the **Save Configuration** button.

[More...](#)

Firmware Update

You can upgrade the firmware of the Router here. Please check the D-Link support site for firmware updates at <http://support.dlink.com> or simply click the **Check Now** button located in the Firmware Information section. You can download firmware upgrades to your hard drive from the D-Link support site. 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.

Current Firmware Version: Displays the current firmware version.

Current Firmware Date: Displays the current firmware date.

Check Online Now for Latest Firmware Version: Click the **Check Now** button, or the “Click here to check for an upgrade on our support site.” hyperlink at the top of the page, to see what the latest firmware for the Router is.

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

Language Pack Upgrade: This function allows the user to transfer the language of the GUI from English to their own language by upgrading the language pack. Click the **Browse** control to locate the desired language pack on your hard drive. Click **Upload** to complete the language pack upgrade.

The screenshot displays the D-Link DIR-604 web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various settings options. The main content area is titled 'FIRMWARE UPDATE' and contains the following sections:

- FIRMWARE UPDATE:** A notice stating that new firmware is available for the DIR-604 to improve functionality and performance. It includes a link to check for an upgrade on the support site. Below this, instructions are provided for upgrading the firmware: locate the file on the local hard drive, click 'Browse', and then click 'Upload' to start the upgrade.
- FIRMWARE INFORMATION:** Displays the current firmware version (1.00CN) and the current firmware date (Sun 19 Sep 2010). It includes a 'Check Online Now for Latest Firmware Version' button with a 'Check Now' sub-button.
- FIRMWARE UPGRADE:** A section with a red warning note: 'Note : Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration.' It provides instructions to upgrade the firmware, requiring a wired connection to the router. It includes an 'Upload' field with a 'Browse...' button and an 'Upload' button.
- LANGUAGE PACK UPGRADE:** A section for upgrading the language pack, featuring an 'Upload' field with a 'Browse...' button and an 'Upload' button.

The bottom of the interface features a 'WIRELESS' section.

Dynamic DNS

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

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

Server Address: Choose your DDNS provider from the drop-down menu.

Host Name: Enter the Host Name that you registered with your DDNS service provider.

Username: Enter the User Name for your DDNS account.

Password: Enter the Password for your DDNS account.

DDNS Account Testing: This is to test if the DDNS account is valid for use.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Administrator Settings

Time and Date

Save and Restore Settings

Firmware Update

Dynamic DNS

System Check

Schedule

Log Settings

Logout

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 DDNS service at www.Dlinkddns.com.cn.](http://www.Dlinkddns.com.cn)

Save Settings Don't Save Settings

DYNAMIC DNS SETTINGS

Enable DDNS :

Server Address : dlinkddns.com.cn

Host Name :

Username :

Password :

DDNS Account Testing

Status :

Type :

Domain :

Helpful Hints...

To use this feature, you must first have a Dynamic DNS account from one of the providers in the drop down menu.

More...

WIRELESS

System Check

The System Check feature allows you to verify the physical connectivity on both the LAN and Internet interface.

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**.

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

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Administrator Settings

Time and Date

Save and Restore Settings

Firmware Update

Dynamic DNS

System Check

Schedule

Log Settings

Logout

SYSTEM CHECK

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		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 RESULT

Helpful Hints...

'Ping' checks whether a computer on the Internet is running and responding. Enter either the IP address of the target computer or enter its fully qualified domain name.

[More...](#)

WIRELESS

Schedule

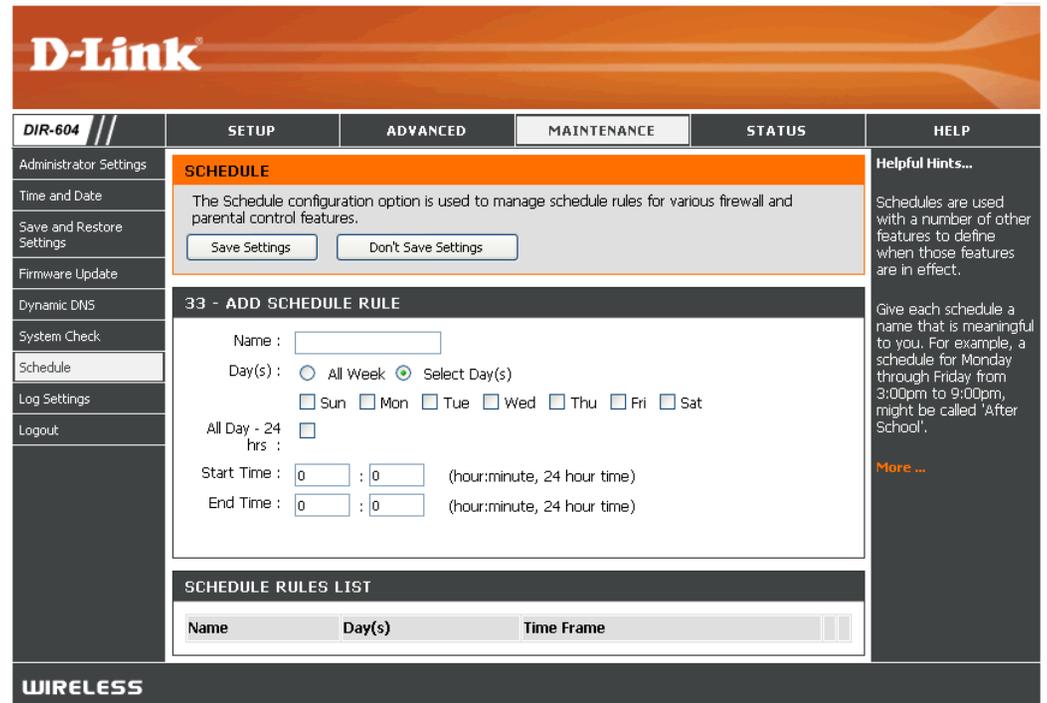
The Schedule page allows you to manage schedule rules for various firewall and parental control features.

Name: Enter a name for your new schedule.

Day(s): Select a day, a range of days, or All Week to include every day.

Time: Check **All Day - 24 hrs** or use the **Start Time** and **End Time** fields to specify the start and end time for your schedule.

Schedule Rules List: The list of schedules will be listed here. Click the **Edit** icon  to make changes or click the **Delete** icon  to remove the schedule.



D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Administrator Settings

Time and Date

Save and Restore Settings

Firmware Update

Dynamic DNS

System Check

Schedule

Log Settings

Logout

SCHEDULE

The Schedule configuration option is used to manage schedule rules for various firewall and parental control features.

Save Settings Don't Save Settings

33 - ADD SCHEDULE RULE

Name :

Day(s) : All Week Select Day(s)

Sun Mon Tue Wed Thu Fri Sat

All Day - 24 hrs :

Start Time : : (hour:minute, 24 hour time)

End Time : : (hour:minute, 24 hour time)

SCHEDULE RULES LIST

Name	Day(s)	Time Frame
------	--------	------------

WIRELESS

Helpful Hints...

Schedules are used with a number of other features to define when those features are in effect.

Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called 'After School'.

[More ...](#)

Log Settings

The Router keeps a running log of events and activities occurring on the device. You can define what types of events you want to view and the level of the events to view. The Router also has external Syslog Server support, so you can send the log files to a computer on your network that is running a Syslog utility.

Save Log File to Local Hard Drive: Click the **Save** button to save the log file to your local hard drive.

Enable Logging to Syslog Server: Tick this check box to send the Router logs to a SysLog Server.

Syslog Server IP Address: The address of the SysLog server that will be used to send the logs. You may also select your computer from the drop-down menu (only if receiving an IP address from the Router via DHCP).

Log Type: Tick the desired type(s) of logs that should be displayed: System, Firewall & Security, and Router Status.

Log Level: Tick the desired level(s) of importance: Critical, Warning, and Information.

Email Address: Enter the e-mail address where you want the email sent.

Email Subject: Enter a subject description for your e-mail.

Sender Email Address: This e-mail address will appear as the sender when you receive a log file or firmware upgrade notification via e-mail.

D-Link

DIR-604

SETUP | ADVANCED | MAINTENANCE | STATUS | HELP

Administrator Settings | Time and Date | Save and Restore Settings | Firmware Update | Dynamic DNS | System Check | Schedule | Log Settings | Logout

LOG SETTINGS

Logs can be saved by sending it to an admin email address.

Save Settings | Don't Save Settings

SAVE LOG FILE

Save Log File To Local Hard Drive | Save

SYSLOG SETTINGS

Enable Logging To Syslog Server:

Syslog Server IP Address : 0.0.0.0 << Computer Name

LOG TYPE & LEVEL

Log Type: System Firewall & Security Router Status

Log Level: Critical Warning Information

SEND BY MAIL

Email Address :

Email Subject :

Sender Email Address :

SMTP Server/IP Address :

User Name :

Password :

Confirm Password : Send Mail Now

WIRELESS

Helpful Hints...

You may want to make the email settings similar to those of your email client program.

[More...](#)

SMTP Server/ IP Address: Enter the SMTP server address for sending e-mail. If your SMTP server requires authentication, select this option.

User Name: Enter your account user name for sending e-mail.

Password: Enter the password associated with the account.

Confirm Password: Re-type the password associated with the account and click the **Send Mail Now** button.

Click the **Save Settings** button when you have finished the log settings configuration.

Device Information

This page displays the current information for the DIR-604. It will display the LAN, Internet (WAN), and Wireless information, in addition to the firmware version and date the firmware was last updated.

If your Internet 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 Internet connection is set up for PPPoE, PPTP, or L2TP, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the Internet connection and use **Connect** to establish the Internet connection.

See the following for more information.

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 wireless mode, MAC address and your wireless settings such as SSID, Channel, and Encryption status.

The screenshot shows the D-Link DIR-604 web interface. The top navigation bar includes 'DIR-604', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' tab is selected, showing 'DEVICE INFORMATION'. The main content area is divided into three sections: LAN, INTERNET, and WIRELESS 802.11N. The LAN section shows MAC Address: F0:7D:68:78:90:7C, IP Address: 192.168.0.1, Subnet Mask: 255.255.255.0, and DHCP Server: Enabled. The INTERNET section shows MAC Address: F0:7D:68:78:90:7D, DHCP Client Disconnected, Connection: DHCP Renew (button) and DHCP Release (button), IP Address: 0.0.0.0, Subnet Mask: 0.0.0.0, Default Gateway: 0.0.0.0, and DNS: 0.0.0.0. The WIRELESS 802.11N section shows Wireless Mode: Wireless Router, MAC Address: F0:7D:68:78:90:7C, SSID: dlink_cts, Channel: 1, and Encryption: Disabled. A sidebar on the right contains 'Helpful Hints...' and 'More...' links.

View Log

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

First Page: Click this button to view the first page of the log file.

Last Page: Click this button to view the last page of the log file.

Previous: Click this button to view the previous page of the log file.

Next: Click this button to view the next page of the log file.

Clear: Clears all of the log contents.

Link to Log Settings: The user can click the button to “link to log settings” and save the logs to a local hard drive or to a Syslog server.

D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info

VIEW LOG

View Log displays the activities occurring on the DIR-604.

Traffic Statistics

Active Sessions

Wireless

Logout

VIEW LOG

Page 1 of 19

Time and Date	Message
Sep 19 09:57:59	DHCP Discover no response
Sep 19 09:57:55	DHCP Discover
Sep 19 09:57:53	DHCP Discover
Sep 19 09:57:51	DHCP Discover
Sep 19 09:56:51	DHCP Discover no response
Sep 19 09:56:47	DHCP Discover
Sep 19 09:56:45	DHCP Discover
Sep 19 09:56:43	DHCP Discover
Sep 19 09:55:42	DHCP Discover no response
Sep 19 09:55:38	DHCP Discover

Helpful Hints...

Check the log frequently to detect unauthorized network usage.

You can also have the log mailed to you periodically. Refer to [Maintenance → Email](#)

[More...](#)

WIRELESS

Traffic Statistics

The page displays the Traffic Statistics. Here you can view the amount of packets that pass through the DIR-604 on the Internet, LAN, and Wireless connections. The traffic counter will reset if the device is rebooted. Alternatively, you can click either the **Reset** button or the **Refresh** button.

D-Link

DIR-604 //

SETUP ADVANCED MAINTENANCE **STATUS** HELP

Device Info

View Log

Traffic Statistics

Active Sessions

Wireless

Logout

TRAFFIC STATISTICS

Traffic Statistics display Receive and Transmit packets passing through your router.

Refresh Reset

	Received	Transmit
Internet	0 Packets	0 Packets
LAN	0 Packets	1452 Packets
WIRELESS 11n	327287 Packets	11111 Packets

Helpful Hints...
This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.

More...

WIRELESS

Active Sessions

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

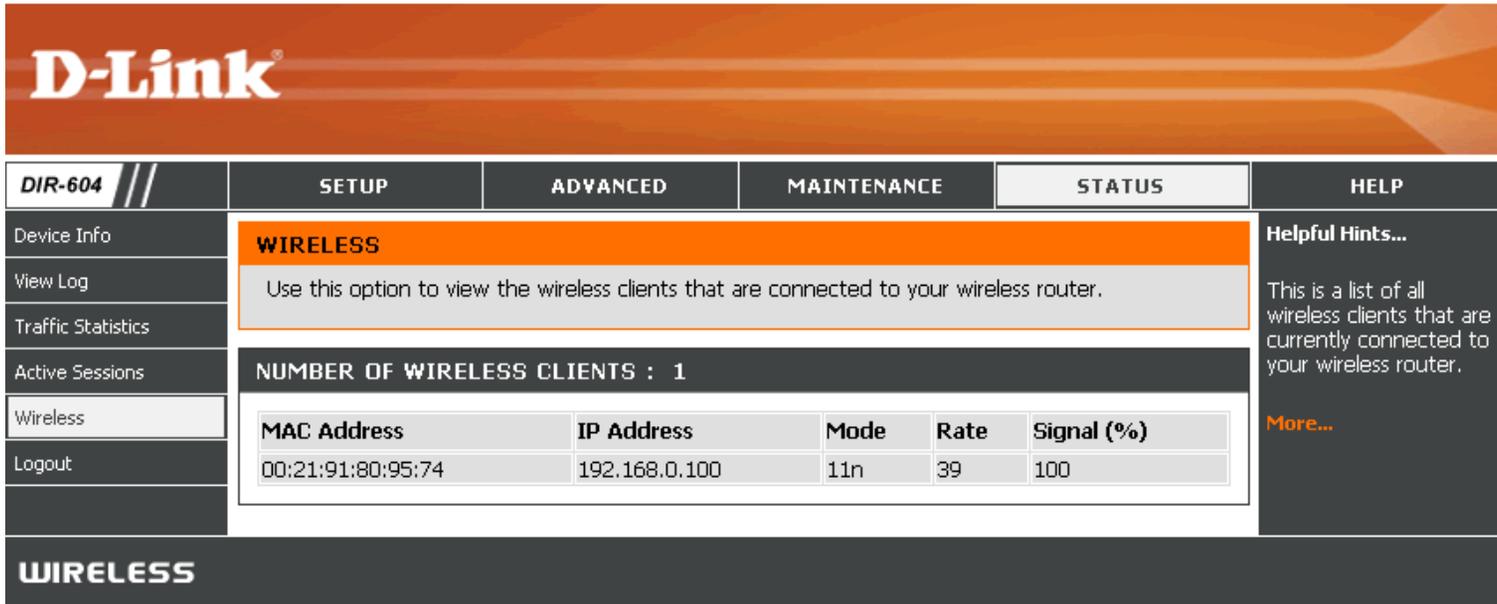
NAPT Session: Displays information about the NAPT sessions on the Router, including the number of TCP sessions, the number of UDP sessions, and the combined number of TCP and UDP NAPT sessions.

NAPT (Active) Session: Displays the IP address of the local application and the TCP/UDP packets being sent by the source IP address for each NAPT active Session.

D-Link							
DIR-604	SETUP ADVANCED MAINTENANCE STATUS HELP						
Device Info View Log Traffic Statistics Active Sessions Wireless Logout	<p>ACTIVE SESSIONS</p> <p>This page displays the full details of active internet sessions to your router.</p> <p>Refresh</p> <p>NAPT SESSION</p> <p>TCP Session: 0 UDP Session: 1 Total: 1</p> <p>NAPT SESSION</p> <table border="1"> <thead> <tr> <th>IP Address</th> <th>TCP Session</th> <th>UDP Session</th> </tr> </thead> <tbody> <tr> <td>192.168.0.1</td> <td>0</td> <td>1</td> </tr> </tbody> </table>	IP Address	TCP Session	UDP Session	192.168.0.1	0	1
IP Address	TCP Session	UDP Session					
192.168.0.1	0	1					
	<p>Helpful Hints...</p> <p>This is a list of all active conversations between WAN computers and LAN computers.</p> <p>More...</p>						
WIRELESS							

Wireless

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



D-Link

DIR-604 // SETUP ADVANCED MAINTENANCE STATUS HELP

WIRELESS

Use this option to view the wireless clients that are connected to your wireless router.

NUMBER OF WIRELESS CLIENTS : 1

MAC Address	IP Address	Mode	Rate	Signal (%)
00:21:91:80:95:74	192.168.0.100	11n	39	100

Helpful Hints...

This is a list of all wireless clients that are currently connected to your wireless router.

[More...](#)

WIRELESS

Help

D-Link

DIR-604 //

SETUP ADVANCED MAINTENANCE STATUS HELP

Setup
Advanced
Maintenance
Status
Logout

SUPPORT MENU

- [Internet Setup](#)
- [Wireless Setup](#)
- [Lan Setup](#)

Helpful Hints...

WIRELESS

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-604 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, or 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.

Wireless Connection Setup Wizard

To run the security wizard, browse to the Setup page and then click the **Wireless Connection Setup Wizard** button.

The screenshot displays the D-Link DIR-604 web interface. At the top, the D-Link logo is visible. Below it, a navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for Internet Connection, Wireless Connection, Lan Setup, and Logout. The main content area is titled "WIRELESS CONNECTION" and contains the following text:

There are 2 ways to setup your wireless connection. You can use the Wireless Connection Setup wizard or you can manually configure the connection.

Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.

WIRELESS CONNECTION SETUP WIZARD

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

[Wireless Connection Setup Wizard](#)

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

MANUAL WIRELESS CONNECTION OPTIONS

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

[Manual Wireless Connection Setup](#)

On the right side, there is a "Helpful Hints..." section with the following text:

If you are new to wireless networking and have never configured a wireless router before, click on **Wireless Network Setup Wizard** and the router will guide you through a few simple steps to get your wireless network up and running.

If you consider yourself an advanced user and have configured a wireless router before, click **Manual Wireless Network Setup** to input all the settings manually.

At the bottom of the page, there is a "WIRELESS" section header.

Click **Next** to allow the setup wizard to guide you through a step-by-step process to set up your wireless network and make it secure.

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

If you would like the Router to automatically assign a network key to your network, click the **Automatically assign a network key (Recommended)** radio button.

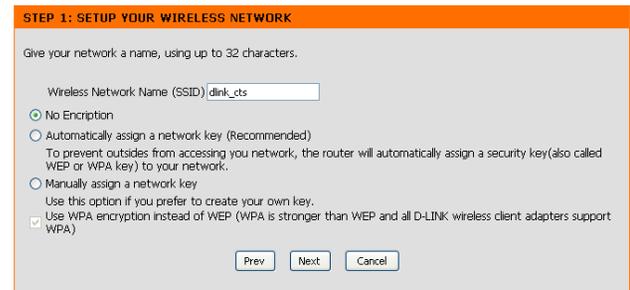
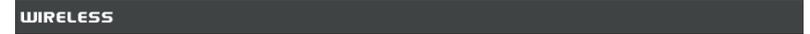
Alternativley, click the **Manually assign a network key** radio button to create your own network key.

Click **Next** to continue.

The following window appears if you selected the option to manually create your own network key.

Type a password that you would like to use for wireless security in the **Wireless Security Password** field.

Click **Next** to continue.



The following window appears to indicate that the Wireless Connection Setup Wizard is complete.

If you selected the option that automatically generated a network key, the automatically generated key will display next to the **Pre-Shared Key** field.

If you manually specified a network key, the **Wireless Security Password** that you specified will display next to the **Pre-Shared Key** field.

Click **Save** to finish the Security Wizard.



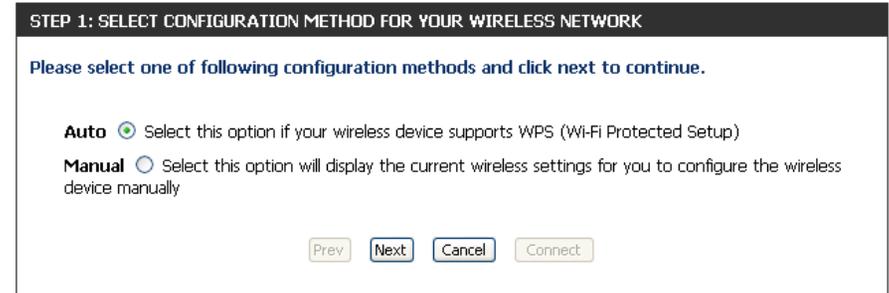
Add Wireless Device with WPS Wizard

From the **Setup > Wireless Settings** screen, click **Add Wireless Device with WPS**.



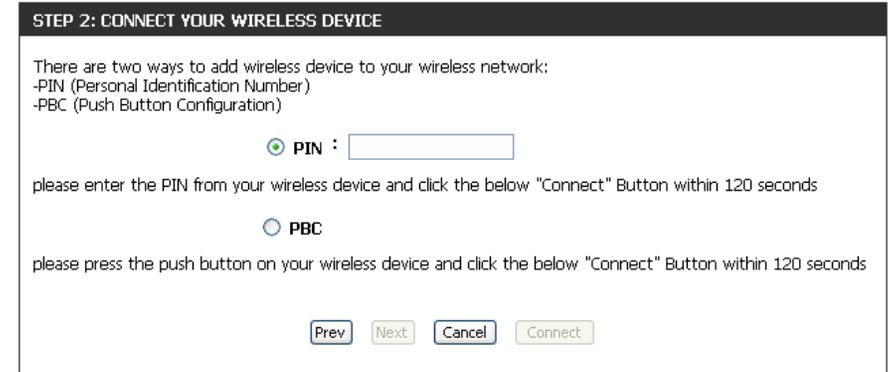
Select **Auto** to add a wireless client using WPS (Wi-Fi Protected Setup). Once you select **Auto** and click **Connect**, you will have a 120 second time limit to apply the settings to your wireless client(s) and successfully establish a connection.

If you select **Manual**, a settings summary screen will appear. Write down the security key and enter this on your wireless clients.



PIN: Select this option to use PIN method. In order to use this method you must know the wireless client's 8 digit PIN and click **Connect**.

PBC: Select this option to use PBC (Push Button) method to add a wireless client. Click **Connect**.



Configure WPA-Personal (PSK)

It is recommended to enable encryption on your wireless router before 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. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1). Click on **Setup** and then click **Wireless Settings** on the left side and then click the **Manual Wireless Network Setup** button.
2. Select **Enable WPA/WPA2 Wireless Security (enhanced)** from the *Security Mode* drop-down menu.
3. Select **Auto(TKIP/AES)**, **TKIP**, or **AES** from the *Cipher Type* drop-down menu. If you have wireless clients that use both types, use **TKIP/AES**.
4. Select **PSK** from the *PSK / EAP* drop-down menu.
5. Enter a key (passphrase) in the *Network Key* field. The key is entered as a pass-phrase in either ASCII or HEX format. If using ASCII format the pass-phrase must be between 8-63 characters. If using HEX format the pass-phrase must be 64 characters. The ASCII or HEX pass-phrase must be the same at both ends of the wireless connection.
6. 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-PSK on your adapter and enter the same passphrase as you did on the router.

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 : AUTO(TKIP/AES) ▼

PSK / EAP : PSK ▼

Network Key : 49099944432222222222222222
(8~63 ASCII or 64 HEX)

Save Settings Don't Save Settings

Configure WPA-Enterprise (RADIUS)

It is recommended to enable encryption on your wireless router before 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. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1). Click on **Setup** and then click **Wireless Settings** on the left side and then click the **Manual Wireless Network Setup** button.
2. Select **Enable WPA/WPA2 Wireless Security (Enhanced)** from the *Security Mode* drop-down menu.
3. Select **Auto(TKIP/AES)**, **TKIP**, or **AES** from the *Cipher Type* drop-down menu. If you have wireless clients that use both types, use **TKIP/AES**.
4. Select **EAP** from the *PSK / EAP* drop-down menu.
5. Enter the IP Address of your RADIUS server in the *RADIUS Server IP Address* field.
6. Enter the port you are using with your RADIUS server in the *Port* field.
7. Enter the security key in the *Shared Secret* field.
8. 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-Enterprise (RADIUS) on your adapter and enter the same passphrase as you did on the router.

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 : AUTO(TKIP/AES) ▼

PSK / EAP : EAP ▼

RADIUS Server IP Address :

Port :

Shared Secret :

Save Settings Don't Save Settings

Connect to a Wireless Network 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.

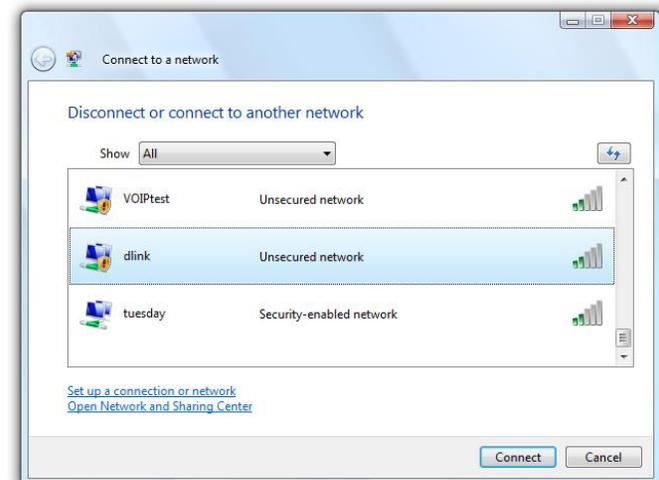
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.



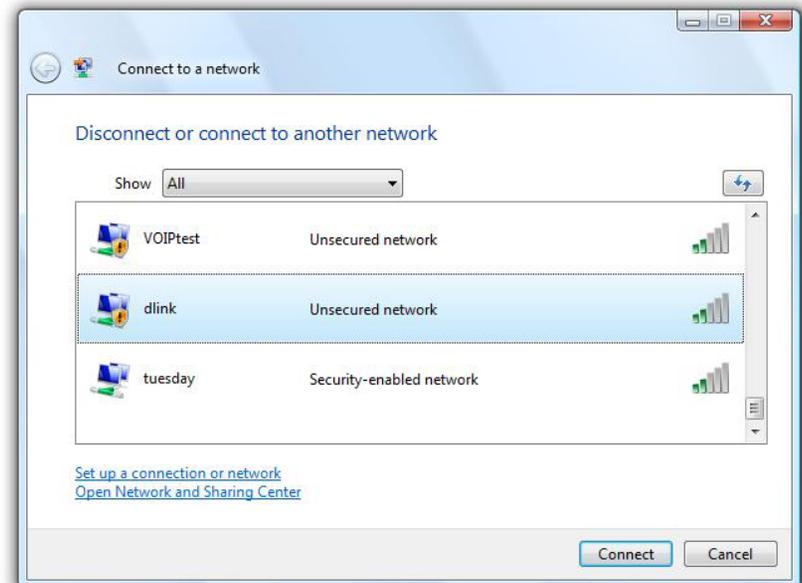
Configure WPA/WPA2

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

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



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



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

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



Connect Using WCN 2.0

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

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

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



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

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.

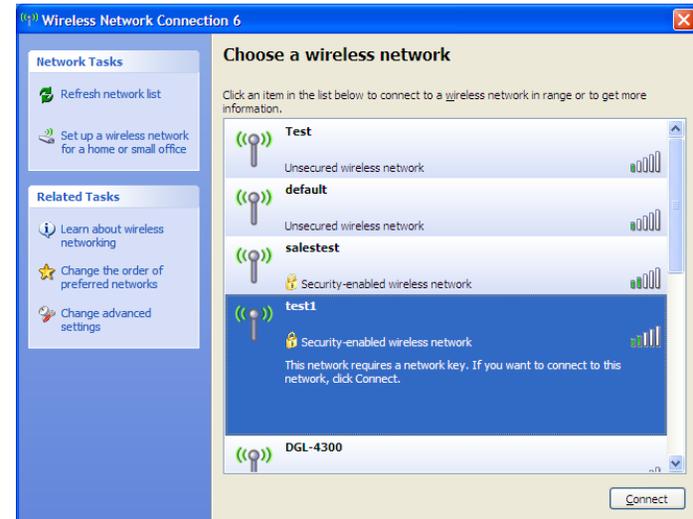
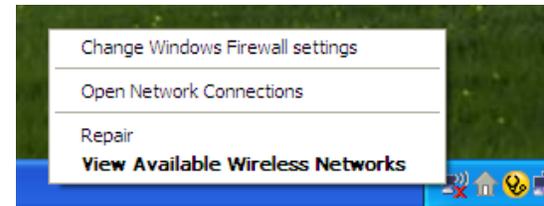
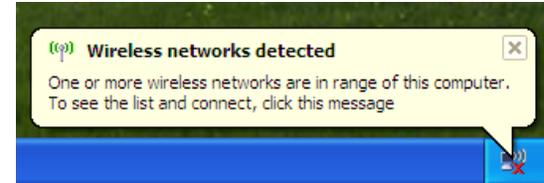
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

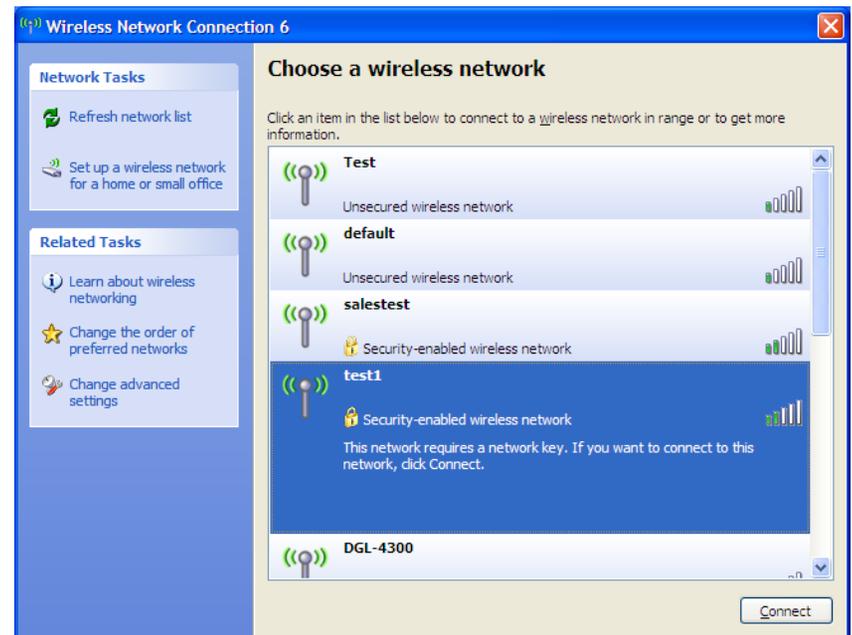
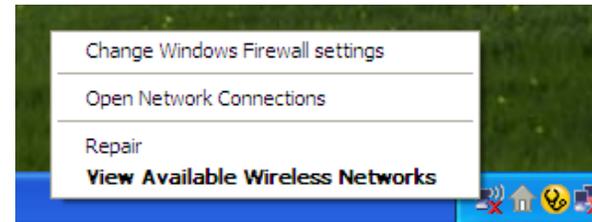
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



Configure WPA-PSK

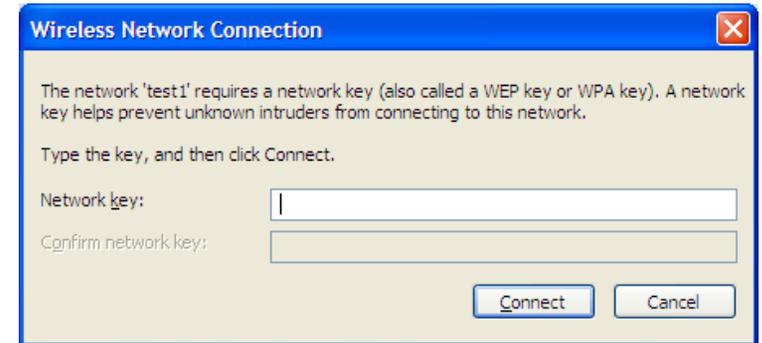
It is recommended to enable WEP on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WEP key being used.

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**.



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.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-604. 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 screen shots 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 on the Internet or 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:
 - Internet Explorer 6.0 or higher
 - Netscape 8 or higher
 - Mozilla 1.7.12 (5.0) or higher
 - Opera 8.5 or higher
 - Safari 1.2 or higher (with Java 1.3.1 or higher)
 - Camino 0.8.4 or higher
 - Firefox 1.5 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as 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. The default IP address is 192.168.0.1. When logging in, the username is **admin** and leave the password box empty.

3. Why can't I connect to certain sites or send and receive 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** and 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**

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>
```

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

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

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

- Open your browser, enter the IP address of your router (192.168.0.1) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on **Setup>Internet** and then click **Manual Internet Connection Setup**.
- To change the MTU enter the number in the **MTU** field and click **Save Settings** 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 is usually called "hotspots".

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

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

Tips

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

Centralize your router or access point

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

Eliminate Interference

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

Security

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to 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-604 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

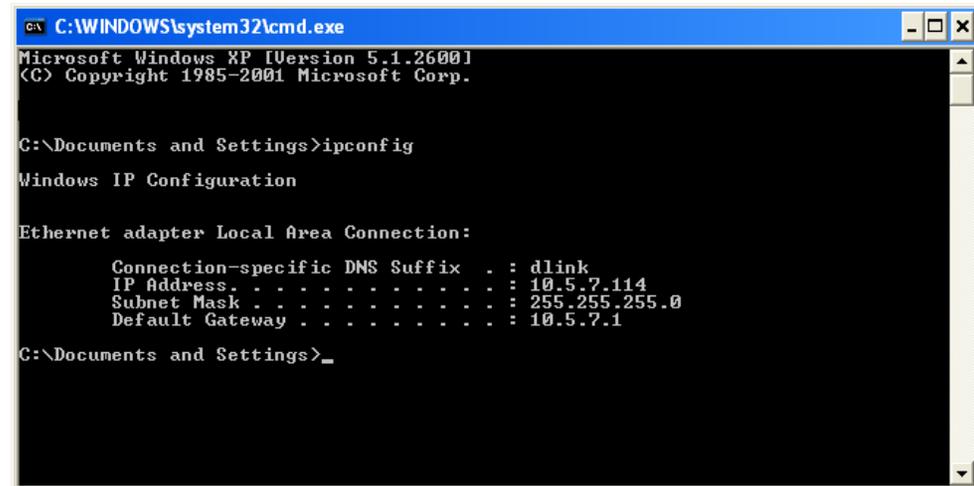
After you install your adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

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

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

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



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600.1]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address . . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

Statically Assign an IP address

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

Step 1

Windows 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

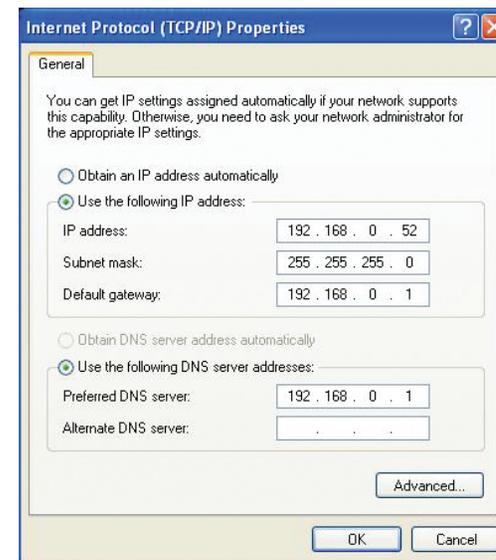
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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.



以下警語適用台灣地

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Federal Communication Commission Interference Statement

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

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

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

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

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

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.