

USER MANUAL

DIR-300

VERSION 1.0



D-Link[®]

WIRELESS

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Package Contents

- D-Link DIR-300 Wireless Router
- Power Adapter
- Ethernet Cable
- Manual and Warranty on CD

Note: Using a power supply with a different voltage rating than the one included with the WBR-1310 will cause damage and void the warranty for this product.



System Requirements

- Ethernet-based Cable or DSL Modem
- Computers with Windows®, Macintosh®, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator™ Version 6.0 and above (for configuration)

Introduction

D-Link, the industry leader in wireless networking, introduces another breakthrough in wireless connectivity. The D-Link Wireless G DIR-300 Router which is capable of transferring data with a maximum wireless signal rate of up to 54Mbps* in the 2.4GHz frequency — the same wireless frequency as 802.11b. The D-Link DIR-300 Wireless Router also offers four Ethernet ports to support multiple computers.

The advanced wireless technology built into the DIR-300 Wireless Router offers data transfer speeds with a maximum wireless signal rate of up to 54Mbps* through its wireless channels allowing streaming videos and other high bandwidth applications, such as online gaming events, to operate without the hassle of Ethernet cables. The ability to use high bandwidth applications also makes streaming real-time programs more enjoyable and more efficient.

With the DIR-300 Wireless Router's built-in advanced firewall, threats of hackers penetrating your network are minimized. Some firewall features include functions that allow or disallow certain ports to be open for certain applications. Time scheduling can be established as a firewall rule so that specific ports will be open at certain times and be closed at other times. Features like content filtering, MAC filtering, URL blocking, and domain blocking are useful tools to prevent other unwanted intruders from connecting to your network or browsing restricted sites.

The easy-to-use configuration wizard takes only minutes to setup and guides users step-by-step through configuring the DIR-300. With all the versatile features and an user-friendly utility, the DIR-300 Wireless Router provides an enhanced networking experience.

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

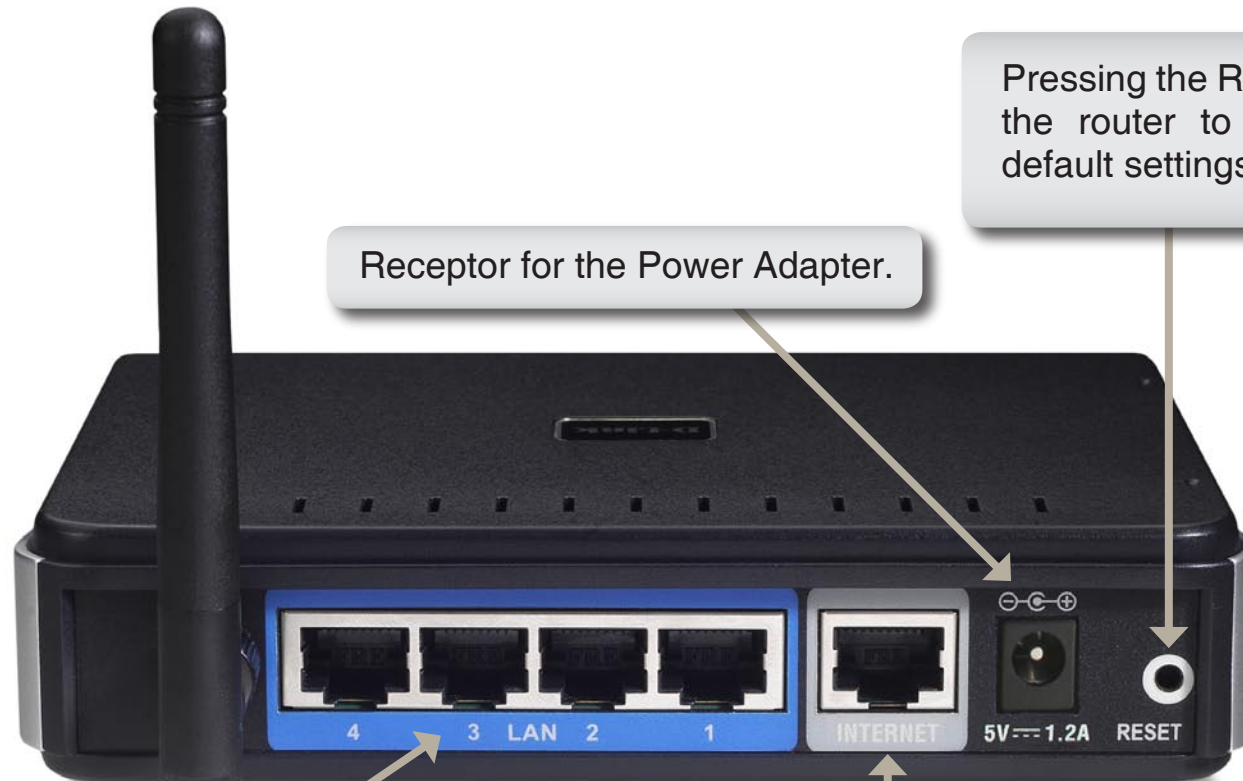
Features

- **Faster Wireless Networking** - The DIR-300 provides up to 54Mbps* wireless connection with other 802.11g wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio. The performance of this 802.11g wireless router gives you the freedom of wireless networking at speeds 5x faster than 802.11b.
- **Compatible with 802.11b and 802.11g Devices** - The DIR-300 is still fully compatible with the IEEE 802.11b standard, so it can connect with existing 802.11b 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-300 can pass through VPN sessions. It supports multiple and concurrent IPsec and PPTP sessions, so users behind the DIR-300 can securely access corporate networks.
- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user interface, the DIR-300 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 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



Receptor for the Power Adapter.

Pressing the Reset Button restores the router to its original factory default settings.

LAN Ports

Connect Ethernet devices such as computers, switches, and hubs.

The Auto MDI/MDIX INTERNET port is the connection for the Ethernet cable to the Cable or DSL modem.

Hardware Overview

LEDs

INTERNET LED

A solid light indicates connection on the INTERNET port. This LED blinks during data transmission.

WLAN LED

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

Local Network LEDs

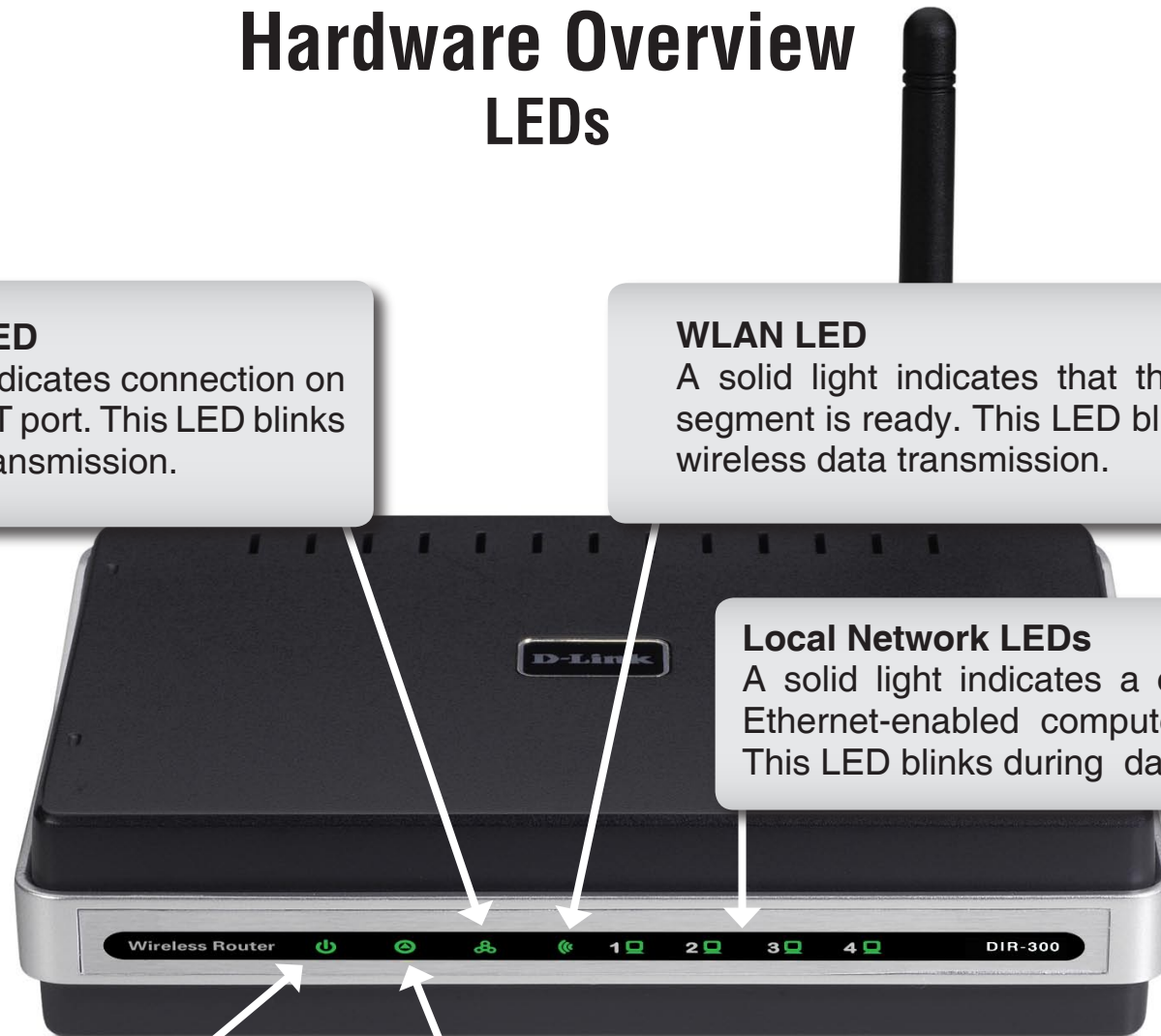
A solid light indicates a connection to an Ethernet-enabled computer on ports 1-4. This LED blinks during data transmission.

Power LED

A solid light indicates a proper connection to the power supply.

Status LED

A blinking light indicates that the DIR-300 is ready.



Installation

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

Before you Begin

Please configure the router with the computer that was last connected directly to your modem. Also, you can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the WAN port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet).

If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoet, Broadjump, or Enternet 300 from your computer or you will not be able to connect to the Internet.

Wireless Installation Considerations

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

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

Connect to Cable/DSL/Satellite Modem

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

1. Place the router in an open and central location. Do not plug the power adapter into the router.
2. Turn the power off on your modem. If there is no on/off switch, then unplug the modem's power adapter. Shut down your computer.
3. Unplug the Ethernet cable (that connects your computer to your modem) from your computer and place it into the WAN port on the router.
4. Plug an Ethernet cable into one of the four LAN ports on the router. Plug the other end into the Ethernet port on your computer.
5. Turn on or plug in your modem. Wait for the modem to boot (about 30 seconds).
6. Plug the power adapter to the router and connect to an outlet or power strip. Wait about 30 seconds for the router to boot.
7. Turn on your computer.
8. Verify the link lights on the router. The power light, WAN light, and the LAN light (the port that your computer is plugged into) should be lit. If not, make sure your computer, modem, and router are powered on and verify the cable connections are correct.
9. Skip to page 14 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:

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

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

1. Plug the power into the router. Connect one of your computers to the router (LAN port) using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the **Networking Basics** section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.
2. Open a web browser 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 **OK** 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.

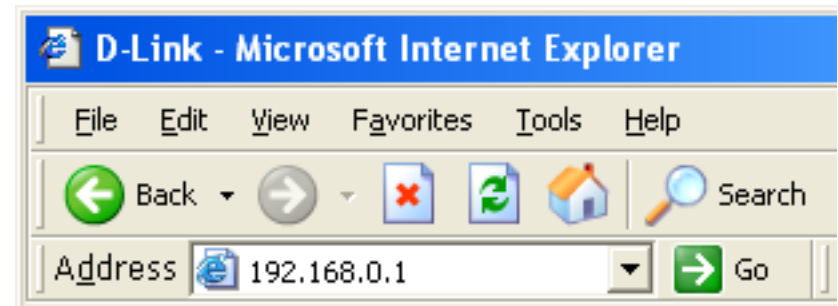
6. Disconnect the Ethernet cable from the router and reconnect your computer to your network.
7. Connect an Ethernet cable in one of the LAN ports of the router and connect it to your other router. Do not plug anything into the WAN port of the D-Link router.
8. You may now use the other 3 LAN ports to connect other Ethernet devices and computers. To configure your wireless network, open a web browser and enter the IP address you assigned to the router. Refer to the **Configuration** and **Wireless Security** sections for more information on setting up your wireless network.

Configuration

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

Web-based Configuration Utility

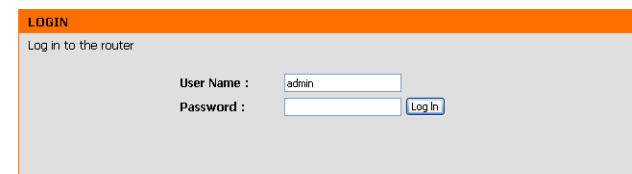
To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router (192.168.0.1).



Enter the user name (admin) and your password. Leave the password blank by default.



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



Setup Wizard

You may run the setup wizard to quickly setup your router. Click **Setup Wizard** to launch the wizard.

The screenshot shows the D-Link DIR-301 Setup Wizard interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists menu items: INTERNET, WIRELESS SETTINGS, and NETWORK SETTINGS. The main content area is titled "INTERNET CONNECTION WIZARD" and contains the following sections:

- INTERNET CONNECTION :** There are 2 ways to setup your Internet connection. You can use the Web-based Internet Connection Setup Wizard or you can manually configure the connection.
- INTERNET CONNECTION WIZARD :** If you would like to utilize our easy to use Web-based Wizards to assist you in connecting your new D-Link Router to the Internet, as well as configure the Wireless settings, click on the Setup Wizard button below.
 - Setup Wizard
- MANUAL INTERNET CONNECTION OPTIONS :** If you would like to configure the Internet and Wireless settings of your new D-Link Router manually, then click on the Manual Configure button below.
 - Manual Configure

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

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

Manual: If you consider yourself an Advanced user and have configured a router before, click **Manual Configure** to input all the settings manually.

Click **Launch Internet Connection Setup Wizard** to begin.

The screenshot shows the D-Link DIR-301 Setup Wizard interface, specifically the "WIZARD" section. The top navigation bar and left sidebar are the same as in the previous screenshot. The main content area is titled "WIZARD" and contains the following sections:

- WIZARD**: The Wizards below will assist you in configuring the basic settings of your new D-Link Router..
- INTERNET CONNECTION SETUP WIZARD**: The following Web-based Setup Wizard is designed to assist you in connecting your new D-Link Router to the Internet. This Setup Wizard will guide you through step-by-step instructions on how to get your Internet connection up and running. Click the button below to begin.
 - Launch Internet Connection Setup Wizard
- WIRELESS SECURITY SETUP WIZARD**: The following Web-based Setup Wizard is designed to assist you in your wireless network setup. This Setup Wizard will guide you through step-by-step instructions on how to set up your wireless network and how to make it secure.
 - Launch Wireless Security Setup Wizard

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

- If you are currently not able to access the Internet, click on the **Launch Internet Connection Setup Wizard** button to begin setting up your router to connect to the Internet.
- If you need assistance in setting up the wireless portion of your router, click the **Launch Wireless Security Setup Wizard** to begin configuring your wireless settings.

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

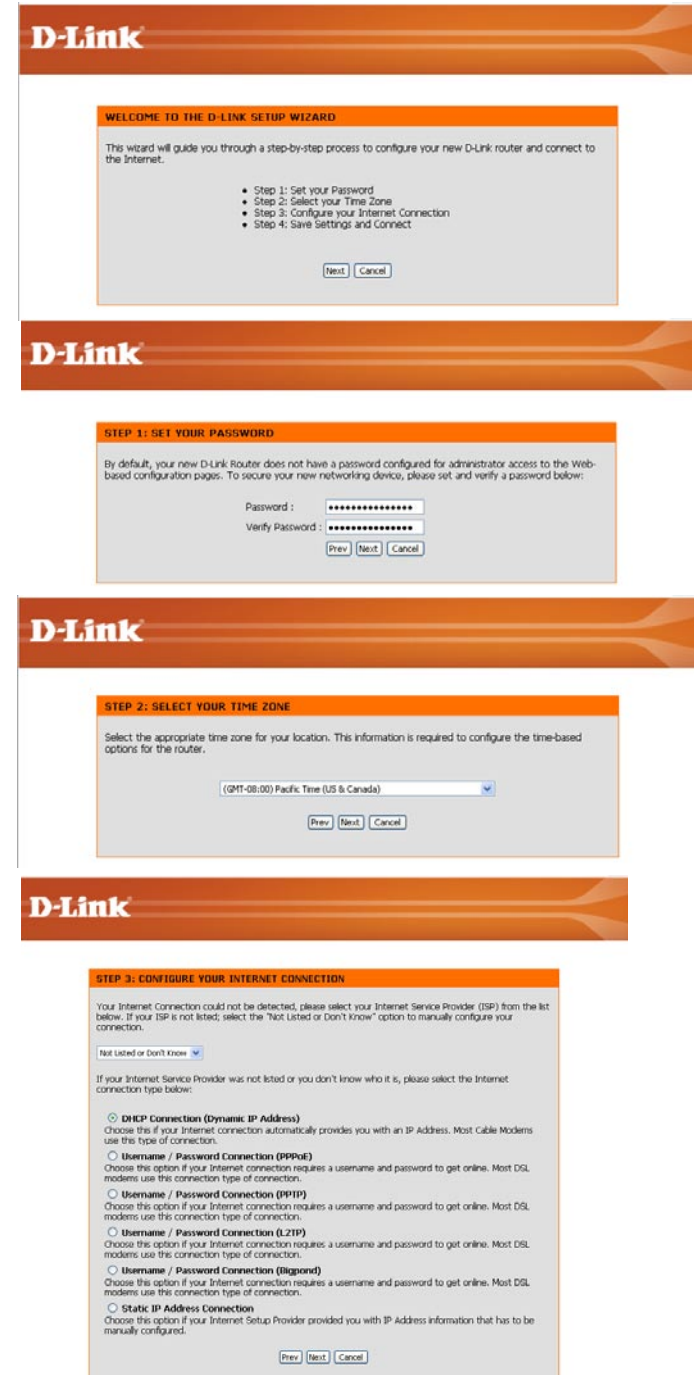
Note: Some changes made using this Setup Wizard may require you to change some settings on your wireless client adapters so they can still connect to the D-Link Router.

Click **Next** to continue.

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

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

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



If you selected Dynamic, 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.

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

Select **Static** 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.

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



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 : 00 - 17 - 9a - 4d - 8c - e8 (Optional)

Host Name : DIR-301

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



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 Static IP

IP Address : 1.0.0.0

User Name : _____

Password : _____

Verify Password : _____

Service Name : _____ (Optional)

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



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 Static IP

PPTP IP Address : 1.0.0.0

PPTP Subnet Mask : 1.0.0.0

PPTP Gateway IP Address : 1.0.0.0

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

User Name : _____

Password : _____

Verify Password : _____

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

D-Link

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 Static IP

L2TP IP Address: 0.0.0.0

L2TP Subnet Mask: 0.0.0.0

L2TP Gateway IP Address: 0.0.0.0

L2TP Server IP Address (may be same as gateway):

User Name:

Password: *****

Verify Password: *****

Prev Next Cancel

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

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SET USERNAME AND PASSWORD CONNECTION (BIGPOND)

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

Auth Server: isp-server

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

Bigpond User Name:

Bigpond Password: *****

Bigpond Verify Password: *****

Prev Next Cancel

Click **Connect** to save your settings. Once the router is finished rebooting, click **Continue**. Please allow 1-2 minutes to connect.

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SET STATIC IP ADDRESS CONNECTION

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

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway Address: 0.0.0.0

Primary DNS Address: 0.0.0.0

Secondary DNS Address: 0.0.0.0

Prev Next Cancel

Close your browser window and reopen it to test your Internet connection. It may take a few tries to initially connect to the Internet.

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SETUP COMPLETE!

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

Prev Connect Cancel

Internet Setup

Dynamic (Cable)

Dynamic IP Address: Choose Dynamic IP Address to obtain IP Address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for Cable modem services.

Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the Router and may be changed.

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

Clone MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Primary DNS

Addresses: Enter the Primary DNS (Domain Name Server) server IP address assigned by your ISP.

Secondary DNS

Address: This is optional.

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

The screenshot shows the D-Link DIR-301 web interface. The top navigation bar includes 'D-Link', 'DIR-301', and tabs for 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'INTERNET' section is active, showing the 'INTERNET CONNECTION' configuration page. The page title is 'INTERNET CONNECTION'. The main content area contains the following sections:

- INTERNET CONNECTION:** A text block explaining that this section is used to configure the Internet Connection type. It lists several connection types: Static IP, DHCP, PPPoE, PPTP, L2TP, and BigPond. A note states: "Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." Below this are two buttons: 'Save Settings' and 'Don't Save Settings'.
- INTERNET CONNECTION TYPE:** A section with the instruction: "Choose the mode to be used by the router to connect to the Internet." Below this, a dropdown menu is set to 'Dynamic IP (DHCP)'.
- DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE:** A section with the instruction: "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." Below this are several input fields:
 - Host Name: DIR-301
 - MAC Address: 00 - 17 - 9a - 4d - 8c - e6 (optional). A 'Clone MAC Address' button is located below this field.
 - Primary DNS Address: 0.0.0.0
 - Secondary DNS Address: 0.0.0.0 (optional)
 - MTU: 1500

On the right side of the interface, there is a 'Helpful Hints...' section. It includes an 'Internet Connection:' tip: "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, please contact your Internet Service Provider (ISP)." and a 'Support:' tip: "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."

Internet Setup

PPPoE (DSL)

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

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

User Name: Enter your PPPoE user name.

Password: Enter your PPPoE password and then retype the password in the next box.

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

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

DNS Addresses: Enter the Primary and Secondary DNS Server Addresses (Static PPPoE only).

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.

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

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

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DIR-301 //

SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET
WIRELESS SETTINGS
NETWORK SETTINGS

INTERNET CONNECTION

Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP, and BigPond. 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

Helpful Hints..

Internet Connection: 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, please contact your **Internet Service Provider (ISP)**.

Support: 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.

INTERNET CONNECTION TYPE :

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

My Internet Connection is :

PPPOE :

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

Dynamic PPPoE Static PPPoE

User Name :

Password :

Retype Password :

Service Name : (optional)

IP Address :

MAC Address : (optional)

Primary DNS Address :

Secondary DNS Address : (optional)

Maximum Idle Time : Minutes

MTU :

Connect mode select : Always-on Manual Connect-on demand

Internet Setup

PPTP

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

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

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

Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static PPTP only).

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

DNS: The DNS server information will be supplied by your ISP (Internet Service Provider.)

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

PPTP Account: Enter your PPTP account name.

PPTP Password: Enter your PPTP password and then retype the password in the next box.

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.

MTU:

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

Connect Mode:

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

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DIR-301

SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET CONNECTION

Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP, and BigPond. 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 : PPTP (Username / Password)

PPTP :

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

Dynamic IP Static IP

IP Address : 0.0.0.0

Subnet Mask : 0.0.0.0

Gateway : 0.0.0.0

DNS : 0.0.0.0

Server IP/Name : _____

PPTP Account : _____

PPTP Password :

PPTP Retype password :

Maximum Idle Time : 5 Minutes

MTU : 1400

Connect mode select : Always-on Manual Connect-on demand

Helpful Hints..

Internet Connection: 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, please contact your **Internet Service Provider (ISP)**.

Support: 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.

Internet Setup

L2TP

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

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

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

Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static L2TP only).

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

DNS: The DNS server information will be supplied by your ISP (Internet Service Provider.)

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

L2TP Account: Enter your L2TP account name.

L2TP Password: Enter your L2TP password and then retype the password in the next box.

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.

MTU:

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

Connect Mode:

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

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DIR-301 // SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET CONNECTION

Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP, and BigPond. 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

Helpful Hints..

Internet Connection: 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, please contact your **Internet Service Provider (ISP)**.

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 :

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

Dynamic IP Static IP

IP Address : 0.0.0.0

Subnet Mask : 0.0.0.0

Gateway : 0.0.0.0

DNS : 0.0.0.0

Server IP/Name : _____

L2TP Account : _____

L2TP Password : ●●●●●●●●●●●●●●●●

L2TP Retype password : ●●●●●●●●●●●●●●●●

Maximum Idle Time : 5 Minutes

MTU : 1400

Connect mode select : Always-on Manual Connect-on demand

Support: 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.

Internet Setup

Big Pond

User Name: Enter your Big Pond user name.

Password: Enter your Big Pond password and then retype the password in the next box.

Auth Server: Enter the IP address of the login server.

Login Server IP: Enter the IP address of the login server.

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

Clone MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

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SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET

WIRELESS SETTINGS

NETWORK SETTINGS

INTERNET CONNECTION

Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP, L2TP, and BigPond. 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

Helpful Hints..

Internet Connection: 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, please contact your **Internet Service Provider (ISP)**.

Support: 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.

INTERNET CONNECTION TYPE :

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

My Internet Connection is :

BIGPOND :

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

User Name :

Password :

Retype Password :

Auth Server :

Login Server IP/Name : (optional)

MAC Address : - - - - - (optional)

Internet Setup

Static (assigned by ISP)

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

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

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

ISP Gateway: Enter the Gateway assigned by your ISP.

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

Clone MAC Address: The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the **Clone MAC Address** button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

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

Secondary DNS Address: This is optional.

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

The screenshot shows the D-Link DIR-301 web interface. The top navigation bar includes 'DIR-301', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The 'INTERNET CONNECTION' section is active, displaying instructions and a 'Note' about PPPoE. Below this, the 'INTERNET CONNECTION TYPE' is set to 'Static IP'. The 'STATIC IP ADDRESS INTERNET CONNECTION TYPE' section contains input fields for IP Address (0.0.0.0), Subnet Mask (0.0.0.0), ISP Gateway Address (0.0.0.0), MAC Address (00-17-9a-4d-8c-e6), Primary DNS Address (0.0.0.0), Secondary DNS Address (0.0.0.0), and MTU (1500). A 'Clone MAC Address' button is present next to the MAC address field. A 'Support' sidebar on the right provides additional guidance.

Wireless Settings

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions.

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

Wireless Channel: Indicates the channel setting for the WBR-2310. 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. The **Auto Channel Scan** setting can be selected to allow the WBR-2310 to choose the channel with the least amount of interference.

802.11g Only Mode: Enable this mode if your network is made up of purely 802.11g devices. If you have both 802.11b and 802.11g wireless clients, uncheck the box.

Enable Hidden Wireless: Check this option if you would not like the SSID of your wireless network to be broadcasted by the WBR-2310. If this option is checked, the SSID of the WBR-2310 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your WBR-2310 in order to connect to it.

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SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET

WIRELESS SETTINGS

NETWORK SETTINGS

WIRELESS NETWORK :

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.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP or WPA-Personal.

Save Settings Don't Save Settings

WIRELESS NETWORK SETTINGS :

Enable Wireless :

Wireless Network Name : (Also called the SSID)

Wireless Channel :

Enable Auto Channel Scan :

802.11g Only Mode :

Enable Hidden Wireless : (Also called the SSID Broadcast)

WIRELESS SECURITY MODE :

Security Mode :

Helpful Hints..

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

Auto Channel:
If you are not utilizing Super G with Dynamic Turbo for its speed improvements, we recommend that you Enable Auto Channel Scan so that the router can select the best possible channel for your wireless network to operate on.

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 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.

Network Settings

This section will allow you to change the local network settings of the router and to configure the DHCP settings.

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 Apply, you will need to enter the new IP address in your browser to get back into the configuration utility.

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

Local Domain: Enter the Domain name (Optional).

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

Refer to the next page for DHCP information.

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SETUP ADVANCED TOOLS STATUS SUPPORT

INTERNET
WIRELESS SETTINGS
NETWORK SETTINGS

NETWORK SETTINGS :

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.

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
Default Subnet Mask : 255.255.255.0
Local Domain Name :
Enable DNS Relay :

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 (addresses within the LAN subnet)
DHCP Lease Time : 180 (minutes)

DYNAMIC DHCP CLIENT LIST :

Host Name	IP Address	MAC Address	Expired Time
-----------	------------	-------------	--------------

Helpful Hints..

DHCP Server:
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.

DHCP Reservation:
In order to ensure that devices on your network are always assigned the same IP address, add a **DHCP Reservation** for each device.

DHCP Server Settings

DHCP stands for Dynamic Host Control Protocol. The DIR-300 has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to “Obtain an IP Address Automatically.” When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DIR-300. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

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

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

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

The screenshot shows the D-Link DIR-300 web interface. The top navigation bar includes 'DIR-300', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists 'INTERNET', 'WIRELESS SETTINGS', and 'NETWORK SETTINGS'. The main content area is titled 'NETWORK SETTINGS' and contains three sections: 'ROUTER SETTINGS', 'DHCP SERVER SETTINGS', and 'DYNAMIC DHCP CLIENT LIST'. The 'DHCP SERVER SETTINGS' section is currently active and shows the following configuration: 'Enable DHCP Server' is checked, 'DHCP IP Address Range' is set to 100 to 199, and 'DHCP Lease Time' is set to 180 minutes. The 'DYNAMIC DHCP CLIENT LIST' section is currently empty.

DYNAMIC DHCP CLIENT LIST :			
Host Name	IP Address	MAC Address	Expired Time

Helpful Hints..

DHCP Server:
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.

DHCP Reservation:
In order to ensure that devices on your network are always assigned the same IP address, add a **DHCP Reservation** for each device.

Port Forwarding Rules

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

Rule: Check the box to enabled the rule.

Name: Enter a name for the rule.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to.

Start Port/ Enter the port or ports that you want to open.

End Port: If you want to open 1 port, enter the same port in both boxes.

Traffic Type: Select **TCP**, **UDP**, or **ANY**.

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SETUP ADVANCED TOOLS STATUS SUPPORT

PORT FORWARDING

APPLICATION RULES

NETWORK FILTER

WEBSITE FILTER

FIREWALL SETTINGS

ADVANCED WIRELESS

ADVANCED NETWORK

PORT FORWARDING RULES :

The Port Forwarding option is used to open a single port or a range of ports through your firewall and redirect data through those ports to a single PC on your network.

Save Settings Don't Save Settings

10- PORT FORWARDING RULES

	Name	Application Name	IP Address	Computer Name	Start	End	Traffic Type
<input type="checkbox"/>		<< Application Name	0.0.0.0	<< Computer Name	0	0	Any
<input type="checkbox"/>		<< Application Name	0.0.0.0	<< Computer Name	0	0	Any
<input type="checkbox"/>		<< Application Name	0.0.0.0	<< Computer Name	0	0	Any
<input type="checkbox"/>		<< Application Name	0.0.0.0	<< Computer Name	0	0	Any
<input type="checkbox"/>		<< Application Name	0.0.0.0	<< Computer Name	0	0	Any
<input type="checkbox"/>		<< Application Name	0.0.0.0	<< Computer Name	0	0	Any

Helpful Hints..

Application Names: Check the **Application Name** drop down menu for a list of pre-defined applications that you can select from. If you select one of the pre-defined applications, click the arrow button next to the drop down menu to fill out the appropriate fields.

Computer Names: You can select your computer from the list of DHCP clients in the **Computer Name** drop down menu, or enter the IP address manually of the computer you would like to open the specified port to.

Port Ranges: This feature allows you to open a range of ports to a computer on your network. To do so, enter the first port in the range you would like to open in the **Start** field and last port of the range in the **End** field.

Single Ports: To open a single port using this feature, simply enter the same number in both the **Start** and **End** fields.

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-300.

Rule: Check the box to enabled the rule.

Name: Enter a name for the rule.

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

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

Traffic Type: Select **TCP**, **UDP**, or **ANY**.

The screenshot shows the D-Link DIR-300 web interface. The top navigation bar includes 'DIR-300', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists configuration options: 'PORT FORWARDING', 'APPLICATION RULES', 'NETWORK FILTER', 'WEBSITE FILTER', 'FIREWALL SETTINGS', 'ADVANCED WIRELESS', and 'ADVANCED NETWORK'. The main content area is titled 'APPLICATION RULES' and contains the following text:

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

Buttons for 'Save Settings' and 'Don't Save Settings' are visible.

Below this is a table titled '10 - APPLICATION RULES' with the following columns: 'Port' and 'Traffic Type'. The table contains four rows, each with a checkbox, a text input field, a dropdown menu labeled 'Application Name', and two rows of port selection (Trigger and Firewall) with a 'Traffic Type' dropdown set to 'TCP'.

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

Application Names: Check the **Application Name** drop down menu for a list of pre-defined applications that you can select from. If you select one of the pre-defined applications, click the arrow button next to the drop down menu to fill out the appropriate fields.

Network Filter

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

Configure MAC Filter: Select Disable MAC filters, allow MAC addresses listed below, or deny MAC addresses listed below.

Schedule: The schedule of time when the network filter will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the **Tools > Schedules** section.

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

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

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DIR-301 // SETUP ADVANCED TOOLS STATUS SUPPORT

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

10 - MAC FILTERING RULES

Configure MAC Filtering below:

Turn MAC Filtering OFF

MAC Address		DHCP Client List	
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR
00-00-00-00-00-00	<<	Computer Name	CLEAR

Helpful Hints..

Mac Filtering: Create a list of MAC addresses that you would either like to allow or deny access to your network.

Computer Names: 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 and click the arrow to add that device's MAC to the list.

Clearing an Entry: Click the CLEAR button to remove the MAC address from the MAC Filtering list.

Website Filter

URL and domain blocking are used to deny LAN computers from accessing specific web sites by the URL or domain. A URL is a specially formatted text string that defines a location on the Internet. If any part of the URL contains the blocked word, the site will not be accessible and the web page will not display. To use this feature, enter the text string to be blocked and click **Apply**. The text to be blocked will appear in the list. To delete the text, just highlight it and click **Delete**.

Configure Website Filter: Select **Turn Website Filtering OFF**, **Turn Website Filtering ON** and **ALLOW** computers access to **ONLY** these sites, or **Turn Website Filtering ON** and **DENY** computers access to **ONLY** these sites.

Website URL/Domain: Enter the keywords or URLs that you want to block (or allow). Any URL with the keyword in it will be blocked.

The screenshot shows the D-Link DIR-301 web interface. The top navigation bar includes 'DIR-301', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'SUPPORT'. The left sidebar lists various configuration options: 'PORT FORWARDING', 'APPLICATION RULES', 'NETWORK FILTER', 'WEBSITE FILTER', 'FIREWALL SETTINGS', 'ADVANCED WIRELESS', and 'ADVANCED NETWORK'. The main content area is titled 'WEBSITE FILTERING RULES' and contains the following text: 'The Website Filter option allows you to set-up a list of Websites that the users on your network will either be allowed or denied access to.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. A section titled '20 - WEBSITE FILTERING RULES' contains a dropdown menu for 'Turn Website Filtering OFF' and a 'Clear the list below...' button. Below this is a table with two columns, both labeled 'Website URL/Domain', and ten rows of empty input fields. On the right side of the interface, there is a 'Helpful Hints..' section with the following text: 'Website Filtering: Create a list of Websites that you would like the devices on your network to be allowed or denied access to.' and a 'Keywords:' section with the text: 'Keywords can be entered in this list in order to block any URL containing the keyword entered.'

Firewall Settings

This section will allow you to setup a DMZ host and to enable VPN passthrough.

If you have a client PC that cannot run Internet applications properly from behind the DIR-300, then you can set the client up for unrestricted Internet access. It allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the internal computer that will be the DMZ host. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort.

Enable DMZ Host: Check this box to enable DMZ.

DMZ IP Address: Enter the IP address of the computer you would like to open all ports to.

Enable PPTP Passthrough: Check this box to allow PPTP VPN traffic to pass through the router to your VPN client.

Enable L2TP Passthrough: Check this box to allow L2TP VPN traffic to pass through the router to your VPN client.

Enable IPSec Passthrough: Check this box to allow IPSec VPN traffic to pass through the router to your VPN client.

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DIR-300 // SETUP ADVANCED TOOLS STATUS SUPPORT

PORT FORWARDING
APPLICATION RULES
NETWORK FILTER
WEBSITE FILTER
FIREWALL SETTINGS
ADVANCED WIRELESS
ADVANCED NETWORK

FIREWALL SETTINGS :

The Web Filter options allows you to set-up a list of allowed Web sites that can be used by multiple users. When Web Filter is enabled, all other Web sites not listed on this page will be blocked.

Save Settings Don't Save Settings

DMZ HOST :

The DMZ (Demilitarized Zone) option provides you with an option to 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.

Note: 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 Host :

DMZ IP Address : << Computer Name

VPN PASSTHROUGH :

Enable PPTP Passthrough :

Enable L2TP Passthrough :

Enable IPSec Passthrough :

Helpful Hints..

DMZ: Only enable the DMZ option 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 Virtual Server or Port Forwarding sections.

VPN Passthrough: Make sure VPN passthrough is enabled if you are trying to use a VPN client from behind the router.

Support: VPN Passthrough will only function if the VPN client being used runs on the standards ports associated with the VPN connection type. If you are having problems getting your VPN client connected from behind the router and these VPN passthrough options are enabled, please contact your network administrator to find out if any nonstandard ports or options are being used.

Advanced Wireless Settings

TX Rate: Select the basic transfer rates based on the speed of wireless adapters on your wireless network. It is strongly recommended to keep this setting to **Auto**.

Transmit Power: Set the transmit power of the antennas.

Beacon Interval: Beacons are packets sent by an Access Point to synchronize a wireless network. Specify a value. 100 is the default setting and is recommended.

RTS Threshold: This value should remain at its default setting of 2346. If inconsistent data flow is a problem, only a minor modification should be made.

Fragmentation: The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission. 2346 is the default setting.

DTIM Interval: (Delivery Traffic Indication Message) 3 is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

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

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

WMM Function: WMM is QoS for your wireless network. Enable this option to improve the quality of video and voice applications for your wireless clients.

The screenshot shows the D-Link DIR-301 Advanced Wireless Settings page. The page has a navigation bar with tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The ADVANCED tab is selected. The page is divided into a left sidebar with navigation links (PORT FORWARDING, APPLICATION RULES, NETWORK FILTER, WEBSITE FILTER, FIREWALL SETTINGS, ADVANCED WIRELESS, ADVANCED NETWORK) and a main content area. The main content area is titled 'ADVANCED WIRELESS SETTINGS' and contains a warning message: 'If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.' Below the warning are 'Save Settings' and 'Don't Save Settings' buttons. The settings are as follows:

- TX Rates: Auto
- Transmit Power: 100%
- Beacon interval: 100 (msec, range:20~1000, default:100)
- RTS Threshold: 2346 (range: 256~2346, default:2346)
- Fragmentation: 2346 (range: 1500~2346, default:2346, even number only)
- DTIM interval: 1 (range: 1~255, default:1)
- Preamble Type: Short Preamble Long Preamble
- CTS Mode: None Always Auto
- WMM Function: Disable Enable

On the right side of the page, there is a 'Helpful Hints..' section with the following text: 'Advanced Wireless: It is recommended that you leave these options at their default values. Adjusting them could negatively impact the performance of your wireless network.'

Advanced Network Settings

UPnP Settings: To use the Universal Plug and Play (UPnP™) feature click on **Enabled**. UPnP provides compatibility with networking equipment, software and peripherals.

WAN Ping: Unchecking the box will not allow the WBR-2310 to respond to pings. Blocking the Ping may provide some extra security from hackers. Check the box to allow the WAN port to be “pinged”.

WAN select to 10/100 Mbps: You may set the port speed of the WAN port to 10Mbps, 100Mbps, or auto. Some older cable or DSL modems may require you to set the port speed to 10Mbps.

Gaming Mode: Gaming mode allows a form of pass-through for certain Internet Games. If you are using Xbox, Playstation2 or a PC, make sure you are using the latest firmware and Gaming Mode is enabled. To utilize Gaming Mode, click the box. If you are not using a Gaming application, it is recommended that you Disable Gaming Mode.

Multicast streams: Check the box to allow multicast traffic to pass through the router from the Internet.

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DIR-301 //

SETUP **ADVANCED** TOOLS STATUS SUPPORT

PORT FORWARDING

APPLICATION RULES

NETWORK FILTER

WEBSITE FILTER

FIREWALL SETTINGS

ADVANCED WIRELESS

ADVANCED NETWORK

NETWORK SETTINGS :

If you are not familiar with these Advanced Network settings, please read the help section before attempting to enable or disable them.

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

GAMING MODE :

If you are having difficulties playing some online games - please enable this mode.

Enable GAMING mode :

Helpful Hints..

WAN Ping Respond:
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.

Gaming Mode:
Gaming Mode should be used when you are playing games on the Internet from behind the router.

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

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.

Administrator Login Name: Enter a new Login Name for the Administrator account.

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

User Login Name: Enter a new Login Name for the user account.

User Password: Enter the new password for the User login. If you login as the User, you can only see the settings, but cannot change them.

Remote Management: Remote management allows the WBR-1310 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 Address: The Internet IP address of the computer that has access to the Broadband Router. If you input an asterisk (*) into this field, then any computer will be able to access the Router. Putting an asterisk (*) into this field would present a security risk and is not recommended.

Port: The port number used to access the WBR-1310.

Example: http://x.x.x.x:8080 whereas x.x.x.x is the WAN IP address of the WBR-1310 and 8080 is the port used for the Web-Management interface.

D-Link

DIR-301 //

SETUP ADVANCED TOOLS STATUS SUPPORT

ADMIN

TIME

SYSTEM

FIRMWARE

SYSTEM CHECK

ADMINISTRATOR SETTINGS :

There are two accounts that can access the router's management interface. These 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.

Save Settings Don't Save Settings

ADMINISTRATOR (THE DEFAULT LOGIN NAME IS "ADMIN") :

Login name :

New Password :

Confirm Password :

USER (THE DEFAULT LOGIN NAME IS "USER") :

Login name :

New Password :

Confirm Password :

REMOTE MANAGEMENT :

Enable Remote Management :

IP Address :

Port :

Helpful Hints..

Passwords:
For security reasons, it is recommended that you change the Login Name and Password for the Administrator and User accounts. Be sure to write down the new Login Names and Passwords to avoid having to reset the router in the event that they are forgotten.

Remote Management:
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 you can enter an asterisk (*) to allow access to any computer on the Internet.