About This Guide

Icon Descriptions

While reading through the User Guide you may see various icons that call attention to specific items. Below is a description of these icons:

- **NOTE:** This check mark indicates that there is a note of interest and is something that you should pay special attention to while using the product.

- **WARNING:** This exclamation point indicates that there is a caution or warning and it is something that could damage your property or product.

- **WEB:** This globe icon indicates a noteworthy website address or e-mail address.

Online Resources

Website addresses in this document are listed without http:// in front of the address because most current web browsers do not require it. If you use an older web browser, you may have to add http:// in front of the web address.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linksys</td>
<td><a href="http://www.linksysbycisco.com">www.linksysbycisco.com</a></td>
</tr>
<tr>
<td>Linksys International</td>
<td><a href="http://www.linksysbycisco.com/international">www.linksysbycisco.com/international</a></td>
</tr>
<tr>
<td>Glossary</td>
<td><a href="http://www.linksysbycisco.com/glossary">www.linksysbycisco.com/glossary</a></td>
</tr>
<tr>
<td>Network Security</td>
<td><a href="http://www.linksysbycisco.com/security">www.linksysbycisco.com/security</a></td>
</tr>
</tbody>
</table>

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Chapter 1: Product Overview

Thank you for choosing the Simultaneous Dual-Band Wireless-N Gigabit Router. The Router lets you access the Internet via a wireless connection or through one of its four switched ports. With the built-in storage link, you can easily add gigabytes of storage space onto your network using USB 2.0 hard drives, or plug in a USB flash disk to access your portable data files. The built-in media server streams music, video and photos from the attached storage device to any UPnP-compatible media adapter. Configuring the Router is easy using the provided browser-based utility.

For more wireless bandwidth, the Router can create two simultaneous yet separate Wireless-N networks, one using the 5 GHz band and one using the 2.4 GHz band. For example, use the Wireless-N 2.4 GHz network to surf, e-mail, and print while keeping the less crowded, Wireless-N 5 GHz network free for time-sensitive traffic like music, gaming, and high-definition video. For more information, refer to Simultaneous Networks, page 12.

Front Panel

1, 2, 3, 4 (Green/Blue) These numbered LEDs, corresponding with the numbered ports on the Router’s back panel, serve two purposes. The LED is continuously lit when the Router is connected to a device through that port. It flashes to indicate network activity over that port. The LED lights up green when the port is connected to a gigabit port or blue when the port is connected to a 10/100 port.

Wi-Fi Protected Setup Button If you have client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can use the Wi-Fi Protected Setup button to automatically configure wireless security for your wireless network(s).

To use Wi-Fi Protected Setup, run the Setup Wizard, or refer to Wi-Fi Protected Setup, page 13.

Wi-Fi Protected Setup LED (Blue/Amber) The LED flashes blue for two minutes during the Wi-Fi Protected Setup process and lights up blue when the Wi-Fi Protected Setup process is successful.

The LED lights up amber if there is an error during the Wi-Fi Protected Setup process. Make sure the client device supports Wi-Fi Protected Setup. Wait until the LED is off, and then try again.

The LED flashes when a Wi-Fi Protected Setup session is active. The Router supports one session at a time. Wait until the LED is solidly lit, or off before starting the next Wi-Fi Protected Setup session.

Wireless (Blue) The Wireless LED lights up when the wireless feature is enabled. It flashes when the Router sends or receives data over the network.

Internet (Green/Blue) The Internet LED lights up when there is a connection made through the Internet port. It flashes to indicate network activity over the Internet port. The LED lights up green when the port is connected to a gigabit port or blue when the port is connected to a 10/100 port.

USB (Blue) The USB LED lights up when a USB device is attached. It flashes when data is being sent to or received from this device.

Power (Blue) The Power LED lights up when the Router is powered on. When the Router goes through its self-diagnostic mode during every boot-up, the LED flashes. When the diagnostic is complete, the LED is continuously lit.

Back Panel

USB Port The USB port connects to a USB storage device.

Internet The Internet port is where you connect your cable or DSL Internet connection.

1, 2, 3, 4 Using network cables, these Ethernet ports (1, 2, 3, 4) connect the Router to computers on your wired network and other Ethernet network devices.
**Reset** There are two ways to reset the Router's factory defaults. Either press and hold the Reset Button for approximately five seconds, or restore the defaults from the Administration > Factory Defaults screen in the Router's browser-based utility (refer to Administration > Factory Defaults, page 32).

**Power Switch** Press the I end to power on the Router. Press the O end to power off the Router.

**Power** The Power port is where you connect the power adapter.

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### Horizontal Placement

The Router has four rubber feet on its bottom panel. Place the Router on a level surface near an electrical outlet.

---

### Wall-Mounting Placement

The Router has two wall-mount slots on its bottom panel. The distance between the slots is 175.56 mm (6.91 inches).

Two screws are needed to mount the Router.

---

### Suggested Mounting Hardware

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5-3.0 mm</td>
<td>2.5-3.0 mm</td>
</tr>
<tr>
<td>4-5 mm</td>
<td>4-5 mm</td>
</tr>
<tr>
<td>1-1.5 mm</td>
<td>1-1.5 mm</td>
</tr>
</tbody>
</table>

† Note: Mounting hardware illustrations are not true to scale.

**NOTE:** Linksys is not responsible for damages incurred by unsecured wall-mounting hardware.

Follow these instructions:

1. Determine where you want to mount the Router. Make sure that the wall you use is smooth, flat, dry, and sturdy. Also make sure the location is within reach of an electrical outlet.
2. Drill two holes into the wall. Make sure the holes are 175.56 mm (6.91 inches) apart.
3. Insert a screw into each hole and leave 3 mm (0.12 inches) of its head exposed.
4. Position the Router so the wall-mount slots line up with the two screws.
5. Place the wall-mount slots over the screws and slide the Router down until the screws fit snugly into the wall-mount slots.

---

Print this page at 100% size.
Cut along the dotted line, and place on the wall to drill precise spacing.

**Wall-Mounting Template**
Chapter 2: Wireless Security Checklist

Wireless networks are convenient and easy to install, so homes with high-speed Internet access are adopting them at a rapid pace. Because wireless networking operates by sending information over radio waves, it can be more vulnerable to intruders than a traditional wired network. Like signals from your cellular or cordless phones, signals from your wireless network can also be intercepted. Since you cannot physically prevent someone from connecting to your wireless network, you need to take some additional steps to keep your network secure.

1. Change the default wireless network name or SSID

Wireless devices have a default wireless network name or Service Set Identifier (SSID) set by the factory. This is the name of your wireless network, and can be up to 32 characters in length. Linksys wireless products use **linksys** as the default wireless network name. You should change the wireless network name to something unique to distinguish your wireless network from other wireless networks that may exist around you, but do not use personal information (such as your Social Security number) because this information may be available for anyone to see when browsing for wireless networks.

2. Change the default password

For wireless products such as access points and routers, you will be asked for a password when you want to change their settings. These devices have a default password set by the factory. The Linksys default password is **admin**. Hackers know these defaults and may try to use them to access your wireless device and change your network settings. To thwart any unauthorized changes, customize the device's password so it will be hard to guess.

3. Enable MAC address filtering

Linksys routers give you the ability to enable Media Access Control (MAC) address filtering. The MAC address is a unique series of numbers and letters assigned to every networking device. With MAC address filtering enabled, wireless network access is provided solely for wireless devices with specific MAC addresses. For example, you can specify the MAC address of each computer in your home so that only those computers can access your wireless network.

4. Enable encryption

Encryption protects data transmitted over a wireless network. Wi-Fi Protected Access (WPA/WPA2) and Wired Equivalent Privacy (WEP) offer different levels of security for wireless communication.

A network encrypted with WPA/WPA2 is more secure than a network encrypted with WEP, because WPA/WPA2 uses dynamic key encryption. To protect the information as it passes over the airwaves, you should enable the highest level of encryption supported by your network equipment.

WEP is an older encryption standard and may be the only option available on some older devices that do not support WPA.

**General Network Security Guidelines**

Wireless network security is useless if the underlying network is not secure.

- Password protect all computers on the network and individually password protect sensitive files.
- Change passwords on a regular basis.
- Install anti-virus software and personal firewall software.
- Disable file sharing (peer-to-peer). Some applications may open file sharing without your consent and/or knowledge.

**Additional Security Tips**

- Keep wireless routers, access points, or gateways away from exterior walls and windows.
- Turn wireless routers, access points, or gateways off when they are not being used (at night, during vacations).
- Use strong passphrases that are at least eight characters in length. Combine letters and numbers to avoid using standard words that can be found in the dictionary.

**WEB:** For more information on wireless security, visit [www.linksysbycisco.com/security](http://www.linksysbycisco.com/security)
Chapter 3: Advanced Configuration

After setting up the Router with the Setup Wizard (located on the CD-ROM), the Router will be ready for use. If you would like to change its advanced settings, use the Router’s browser-based utility. This chapter describes each web page of the utility and each page’s key functions. You can access the utility via a web browser on a computer connected to the Router.

The browser-based utility has these main tabs: Setup, Wireless, Security, Storage, Access Restrictions, Applications & Gaming, Administration, and Status. Additional tabs will be available after you click one of the main tabs.

How to Access the Browser-Based Utility

To access the browser-based utility, launch the web browser on your computer, and enter the Router’s default IP address, 192.168.1.1 or WRT610N in the Address field. Then press Enter.

A login screen will appear. (Non-Windows XP users will see a similar screen.) Leave the User name field blank. Then enter the password you set up during the Setup Wizard. (If you did not run the Setup Wizard, then use the default password, admin. You can set a new password on the Administration > Management screen. Refer to Administration > Management, page 30.) Click OK to continue.

Setup > Basic Setup

The first screen that appears is the Basic Setup screen. This allows you to change the Router’s general settings.

Language

Language To use a different language, select one from the drop-down menu. The language of the browser-based utility will change five seconds after you select another language.

Click Save Settings to apply your changes, or click Cancel Changes to clear your changes.

Internet Setup

The Internet Setup section configures the Router to your Internet connection. Most of this information can be obtained through your Internet Service Provider (ISP).

Internet Connection Type

Select the type of Internet connection your ISP provides from the drop-down menu. The available types are:

- Automatic Configuration - DHCP
- Static IP
- PPPoE
- PPTP
- L2TP
- Telstra Cable
Chapter 3

Advanced Configuration

Simultaneous Dual-Band Wireless-N Gigabit Router

**Automatic Configuration - DHCP**

The default Internet Connection Type is set to **Automatic Configuration - DHCP**. Keep the default only if your ISP supports DHCP or if you connect using a dynamic IP Address. (This option usually applies to cable connections.)

![Internet Connection Type > Automatic Configuration - DHCP](image)

**Static IP**

If you are required to use a permanent IP address to connect to the Internet, select **Static IP**.

![Internet Connection Type > Static IP](image)

**IP Address** This is the Router’s IP address, when seen from the Internet. Your ISP will provide you with the IP address you need to enter here.

**Subnet Mask** This is the Router’s Subnet Mask, as seen by users on the Internet (including your ISP). Your ISP will provide you with the Subnet Mask.

**Default Gateway** Your ISP will provide you with the Gateway address, which is the ISP server’s IP address.

**DNS** Your ISP will provide you with at least one DNS (Domain Name System) server IP address.

**PPPoE**

Some DSL-based ISPs use PPPoE (Point-to-Point Protocol over Ethernet) to establish Internet connections. If you are connected to the Internet through a DSL line, check with your ISP to see if they use PPPoE. If they do, you will have to enable **PPPoE**.

![Internet Connection Type > PPPoE](image)

**User Name and Password** Enter the User Name and Password provided by your ISP.

**Service Name (optional)** If provided by your ISP, enter the Service Name.

**Connect on Demand: Max Idle Time** You can configure the Router to cut the Internet connection after it has been inactive for a specified period of time (Max Idle Time). If your Internet connection has been terminated due to inactivity, Connect on Demand enables the Router to automatically re-establish your connection as soon as you attempt to access the Internet again. To use this option, select **Connect on Demand**. In the **Max Idle Time** field, enter the number of minutes you want to elapse before your Internet connection terminates. The default is 5 minutes.

**Keep Alive: Redial Period** If you select this option, the Router will periodically check your Internet connection. If you are disconnected, then the Router will automatically re-establish your connection. To use this option, select **Keep Alive**. In the **Redial Period** field, specify how often the Router should check the Internet connection. The default is 30 seconds.

**PPTP**

Point-to-Point Tunneling Protocol (PPTP) is a service that applies to connections in Europe only.
DNS  Your ISP will provide you with at least one DNS (Domain Name System) Server IP address.

Server IP Address  Your ISP will provide you with the Server IP Address.

User Name and Password  Enter the User Name and Password provided by your ISP.

Connect on Demand: Max Idle Time  You can configure the Router to cut the Internet connection after it has been inactive for a specified period of time (Max Idle Time). If your Internet connection has been terminated due to inactivity, Connect on Demand enables the Router to automatically re-establish your connection as soon as you attempt to access the Internet again. To use this option, select Connect on Demand. In the Max Idle Time field, enter the number of minutes you want to elapse before your Internet connection terminates. The default is 5 minutes.

Keep Alive: Redial Period  If you select this option, the Router will periodically check your Internet connection. If you are disconnected, then the Router will automatically re-establish your connection. To use this option, select Keep Alive. In the Redial Period field, specify how often the Router should check the Internet connection. The default is 30 seconds.

Telstra Cable  

Telstra Cable is a service that applies to connections in Australia only.

Server IP Address  This is the IP address of the Telstra Cable. Your ISP will provide you with the IP Address you need to specify here.

User Name and Password  Enter the User Name and Password provided by your ISP.

Optional Settings  Some of these settings may be required by your ISP. Verify with your ISP before making any changes.

Host Name/Domain Name  These fields allow you to supply a host and domain name for the Router. Some ISPs, usually cable ISPs, require these names as identification. You may have to check with your ISP to see if your broadband Internet service has been configured with a host and domain name. In most cases, leaving these fields blank will work.

MTU  MTU is the Maximum Transmission Unit. It specifies the largest packet size permitted for Internet transmission. Select Manual if you want to manually enter the largest packet size that is transmitted. To have the Router select the best MTU for your Internet connection, keep the default setting, Auto.
**Size** When Manual is selected in the *MTU* field, this option is enabled. Leave this value in the 1200 to 1500 range. The default size depends on the Internet Connection Type:

- DHCP, Static IP, or Telstra: **1500**
- PPPoE: **1492**
- PPTP or L2TP: **1460**

**Network Setup**

The *Network Setup* section changes the settings on the network connected to the Router's Ethernet ports. Wireless Setup is performed through the Wireless tab (refer to *Wireless > Basic Wireless Settings*, page 12).

**Router Address**

This presents both the Router's IP Address and Subnet Mask, as seen by your network. The default Router IP address is **192.168.1.1**.

![Router IP Address](image)

**DHCP Server Settings**

The settings allow you to configure the Router's Dynamic Host Configuration Protocol (DHCP) server function. The Router can be used as a DHCP server for your network. A DHCP server automatically assigns an IP address to each computer on your network. If you choose to enable the Router's DHCP server option, make sure there is no other DHCP server on your network.

**DHCP Server**

DHCP is enabled by factory default. If you already have a DHCP server on your network, or you do not want a DHCP server, then select **Disabled** (no other DHCP features will be available).

**DHCP Reservation**

Click **DHCP Reservation** if you want to assign a fixed local IP address to a MAC address.

**DHCP Reservation**

You will see a list of DHCP clients with the following information: Client Name, Interface, IP Address, and MAC Address.

- **Select Clients from DHCP Table** Click the Select check box to reserve a client’s IP address. Then click **Add Clients**.
- **Manually Adding Client** To manually assign an IP address, enter the client’s name in the *Enter Client Name* field. Enter the IP address you want it to have in the *Assign IP Address* field. Enter its MAC address in the *To This MAC Address* field. Then click **Add**.

**Clients Already Reserved**

A list of DHCP clients and their fixed local IP addresses will be displayed at the bottom of the screen. If you want to remove a client from this list, click **Remove**.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes. To update the on-screen information, click **Refresh**. To exit this screen, click **Close**.

**Start IP Address**

Enter a value for the DHCP server to start with when issuing IP addresses. Because the Router’s default IP address is **192.168.1.1**, the Start IP Address must be 192.168.1.2 or greater, but smaller than 192.168.1.253. The default is **192.168.1.100**.

**Maximum Number of Users**

Enter the maximum number of computers that you want the DHCP server to assign IP addresses to. This number cannot be greater than 253. The default is **50**.

**IP Address Range**

The range of available IP addresses is displayed.

**Client Lease Time**

The Client Lease Time is the amount of time a network user will be allowed connection to the Router with their current dynamic IP address. Enter the amount of time, in minutes, that the user will be “leased” this dynamic IP address. After the time is up, the user will be automatically assigned a new dynamic IP address, or
the lease will be renewed. The default is 0 minutes, which means one day.

Static DNS (1-3) The Domain Name System (DNS) is how the Internet translates domain or website names into Internet addresses or URLs. Your ISP will provide you with at least one DNS Server IP Address. If you wish to use another, enter that IP Address in one of these fields. You can enter up to three DNS Server IP Addresses here. The Router will use these for quicker access to functioning DNS servers.

WINS The Windows Internet Naming Service (WINS) manages each computer's interaction with the Internet. If you use a WINS server, enter that server’s IP address here. Otherwise, leave this blank.

Time Setting

Time Zone Select the time zone in which your network functions from this drop-down menu.

Automatically adjust clock for daylight saving changes Select this option to have the Router automatically adjust for daylight saving time.

Click Save Settings to apply your changes, or click Cancel Changes to clear your changes.

Setup > DDNS

The Router offers a Dynamic Domain Name System (DDNS) feature. DDNS lets you assign a fixed host and domain name to a dynamic Internet IP address. It is useful when you are hosting your own website, FTP server, or other server behind the Router.

Before you can use this feature, you need to sign up for DDNS service with a DDNS service provider, www.dyndns.org or www.tzo.com. If you do not want to use this feature, keep the default, Disabled.

DDNS

DDNS Service

If your DDNS service is provided by DynDNS.org, then select DynDNS.org from the drop-down menu. If your DDNS service is provided by TZO, then select TZO.com. The features available on the DDNS screen will vary, depending on which DDNS service provider you use.
**Update**  
To manually trigger an update, click **Update**.  
Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Setup > MAC Address Clone**

Some ISPs will require you to register a MAC address in order to access the Internet. A MAC address is a 12-digit code assigned to a unique piece of hardware for identification. If you do not wish to re-register the MAC address with your ISP, you can use the MAC Address Clone feature to assign the currently registered MAC address to the Router.

**MAC Address Clone**

**Enabled/Disabled**  
To have the MAC address cloned, select **Enabled**.

**MAC Address**  
Enter the MAC address registered with your ISP here.

**Clone My PC’s MAC**  
Click this button to clone the MAC address of the computer you are using.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Setup > Advanced Routing**

This screen is used to set up the Router’s advanced functions. Operating Mode allows you to select the type(s) of advanced functions you use. Dynamic Routing automatically adjusts how packets travel on your network. Static Routing sets up a fixed route to another network destination.

**Advanced Routing**

**NAT**

**Enabled/Disabled**  
If this Router is hosting your network’s connection to the Internet, keep the default, **Enabled**. If another router exists on your network, select **Disabled**. When the NAT setting is disabled, dynamic routing will be enabled.

**Dynamic Routing (RIP)**

**Enabled/Disabled**  
This feature enables the Router to automatically adjust to physical changes in the network’s layout and exchange routing tables with the other router(s). The Router determines the network packets’ route based on the fewest number of hops between the source and the destination. When the NAT setting is enabled, the Dynamic Routing feature is automatically disabled. When the NAT setting is disabled, this feature is available. Select **Enabled** to use the Dynamic Routing feature.

**Static Routing**

A static route is a pre-determined pathway that network information must travel to reach a specific host or network. Enter the information described below to set up a new static route.

**Route Entry**  
To set up a static route between the Router and another network, select a number from the drop-down list. Click **Delete This Entry** to delete a static route.

**Enter Route Name**  
Enter a name for the Route here, using a maximum of 25 alphanumeric characters.

**Destination LAN IP**  
The Destination LAN IP is the address of the remote network or host to which you want to assign a static route.

**Subnet Mask**  
The Subnet Mask determines which portion of a Destination LAN IP address is the network portion, and which portion is the host portion.
**Gateway**  This is the IP address of the gateway device that allows for contact between the Router and the remote network or host.

**Interface**  This interface tells you whether the Destination IP Address is on the **LAN & Wireless** (Ethernet and wireless networks) or the **WAN (Internet)**.

Click **Show Routing Table** to view the static routes you have already set up.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Wireless > Basic Wireless Settings**

The basic settings for wireless networking are set on this screen.

There are two ways to configure the Router’s wireless network(s), manual and Wi-Fi Protected Setup.

Wi-Fi Protected Setup is a feature that makes it easy to set up your wireless network. If you have client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can use Wi-Fi Protected Setup.

**Simultaneous Networks**

For more wireless bandwidth, the Router can create two simultaneous yet separate Wireless-N networks, one using the Wireless-N 5 GHz band and one using the Wireless-N 2.4 GHz band. You can use Wi-Fi Protected Setup to easily configure and connect to both networks (refer to **Wi-Fi Protected Setup, page 13**), or you can manually configure the Router.

If you use manual configuration, then set up each network with the following:

- Unique Network Name (SSID)
- Wireless security settings (refer to **5 GHz or 2.4 GHz Wireless Security, page 14**)

Decide which computers and other wireless devices should join which network. Wireless-N devices support both the 5 GHz and 2.4 GHz bands, so they can join either the 5 GHz or 2.4 GHz network. Wireless-G and Wireless-B devices support only the 2.4 GHz band, so they should join the 2.4 GHz network. Wireless-A devices support only the 5 GHz band, so they should join the 5 GHz network.

For the 5 GHz network, configure all computers and other wireless devices with the same 5 GHz Network Name (SSID) and wireless security settings. For the 2.4 GHz network, configure all computers and other wireless devices with the same 2.4 GHz Network Name (SSID) and wireless security settings.

**NOTE:** Make sure each network uses a unique Network Name (SSID).
devices, select **Wireless-N Only**. If you do not have any Wireless-A and Wireless-N (5 GHz) devices in your network, select **Disabled**.

**Network Mode (2.4 GHz)** Select the wireless standards running on your 2.4 GHz network. If you have both Wireless-B, Wireless-G and Wireless-N (2.4 GHz) devices in your network, keep the default, **Mixed**. If you have only Wireless-B devices, select **Wireless-B Only**. If you have only Wireless-G devices, select **Wireless-G Only**. If you have only Wireless-N (2.4 GHz) devices, select **Wireless-N Only**. If you do not have any Wireless-B, Wireless-G and Wireless-N (2.4 GHz) devices in your network, select **Disabled**.

**Network Name (SSID)** The SSID is the network name shared by all devices in a wireless network. It is case-sensitive and must not exceed 32 keyboard characters. For added security, you should change the default network name to a unique name.

**Channel Width (5 GHz)** For best performance in a network using Wireless-A and Wireless-N (5 GHz) devices, keep the default, **Auto (20MHz or 40MHz)**. For a channel width of 40 MHz, select **40MHz only**. For a channel width of 20 MHz, select **20MHz only**.

**Channel Width (2.4 GHz)** For best performance in a network using Wireless-B, Wireless-G and Wireless-N (2.4 GHz) devices, select **Auto (20MHz or 40MHz)**. For a channel width of 40 MHz, select **40MHz only**. For a channel width of 20 MHz, keep the default, **20MHz only**.

**Wide Channel (5 GHz)** If you selected 40MHz only or Auto (20MHz or 40MHz) for the Channel Width setting, then this setting will be available for your primary Wireless-N (5 GHz) channel. If you are not sure which channel to select, keep the default, **Auto**.

**Wide Channel (2.4 GHz)** If you selected 40MHz only or Auto (20MHz or 40MHz) for the Channel Width setting, then this setting will be available for your primary Wireless-N (2.4 GHz) channel. If you are not sure which channel to select, keep the default, **Auto**.

**Standard Channel (5 GHz)** Select the channel for Wireless-A and Wireless-N (5 GHz) networking. If you selected 40MHz only or Auto (20MHz or 40MHz) for the Channel Width setting, then the Standard Channel will be a secondary channel for Wireless-N (5 GHz). If you are not sure which channel to select, keep the default, **Auto**.

**Standard Channel (2.4 GHz)** Select the channel for Wireless-B, Wireless-G, and Wireless-N (2.4 GHz) networking. If you selected 40MHz only or Auto (20MHz or 40MHz) for the Channel Width setting, then the Standard Channel will be a secondary channel for Wireless-N (2.4 GHz). If you are not sure which channel to select, keep the default, **Auto**.

**SSID Broadcast** When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast by the Router. To broadcast the Router’s SSID, keep the default, **Enabled**. If you do not want to broadcast the Router’s SSID, then select **Disabled**.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Wi-Fi Protected Setup**

There are three methods available. Use the method that applies to the client device you are configuring.

**Method #1** Use this method if your client device has a Wi-Fi Protected Setup button.

1. Click or press the **Wi-Fi Protected Setup** button on the client device.
2. Click the **Wi-Fi Protected Setup** button on the Router’s **Wi-Fi Protected Setup** screen.
3. After the client device has been configured, click **OK** on the Router’s **Wi-Fi Protected Setup** screen. Then refer back to your client device or its documentation for further instructions.

**Method #2** Use this method if your client device has a Wi-Fi Protected Setup PIN number.

1. Enter the PIN number from the client device in the field on the Router’s **Wi-Fi Protected Setup** screen.
2. Click the **Register** button on the Router’s **Wi-Fi Protected Setup** screen.
3. After the client device has been configured, click **OK** on the Router’s *Wi-Fi Protected Setup* screen. Then refer back to your client device or its documentation for further instructions.

**Method #3** Use this method if your client device asks for the Router’s PIN number.

1. On the client device, enter the PIN number listed on the Router’s *Wi-Fi Protected Setup* screen. (It is also listed on the label on the bottom of the Router.)
2. After the client device has been configured, click **OK** on the Router’s *Wi-Fi Protected Setup* screen. Then refer back to your client device or its documentation for further instructions.

The *Wi-Fi Protected Setup Status*, *Network Name (SSID)*, *Security*, and *Passphrase* are displayed at the bottom of the screen.

**NOTE:** If you have client devices that do not support *Wi-Fi Protected Setup*, note the wireless settings, and then manually configure those client devices.

### Wireless > Wireless Security

The wireless security settings configure the security of your wireless network(s). The Router supports the following wireless security options: WPA2 Personal, WPA Personal, WPA2 Enterprise, WPA Enterprise, RADIUS, and WEP. WPA (Wi-Fi Protected Access) is a stronger security standard than WEP (Wireless Equivalent Privacy), and WPA2 is even more secure than WPA. RADIUS is Remote Authentication Dial-In User Service.

#### 5 GHz or 2.4 GHz Wireless Security

Wireless security is strongly recommended, and WPA2 is the strongest method available. Use WPA2 if it is supported by all of your wireless devices.

**Security Mode**

Select the security method for each wireless network. If you do not want to use wireless security, keep the default, **Disabled**.

**WPA2 Personal**

**Encryption** WPA2 supports two encryption methods with dynamic encryption keys, AES or WPA-TKIP/WPA2-AES. The default is **AES**.

**Passphrase** Enter a passphrase of 8-63 characters.

**Key Renewal** Enter a Key Renewal period, which instructs the Router how often it should change the encryption keys. The default is **3600** seconds.

**WPA Personal**

**Encryption** WPA uses TKIP, an encryption method with dynamic encryption keys.

**Passphrase** Enter a passphrase of 8-63 characters.

**Key Renewal** Enter a Key Renewal period, which instructs the Router how often it should change the encryption keys. The default period is **3600** seconds.
WPA2 Enterprise

This option features WPA2 used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.)

**Encryption** WPA2 supports two encryption methods with dynamic encryption keys, AES or WPA-TKIP/WPA2-AES. The default is AES.

**RADIUS Server** Enter the IP address of the RADIUS server.

**RADIUS Port** Enter the port number of the RADIUS server. The default is 1812.

**Shared Key** Enter the key shared between the Router and the server.

**Key Renewal** Enter a Key Renewal period, which instructs the Router how often it should change the encryption keys. The default is 3600 seconds.

WPA Enterprise

This option features WPA used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.)

**Encryption** WPA uses TKIP, an encryption method with dynamic encryption keys.

**RADIUS Server** Enter the IP address of the RADIUS server.

**RADIUS Port** Enter the port number of the RADIUS server. The default is 1812.

**Shared Key** Enter the key shared between the Router and the server.

**Key Renewal** Enter a Key Renewal period, which instructs the Router how often it should change the encryption keys. The default is 3600 seconds.
RADIUS

This option features WEP used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.)

**IMPORTANT:** If you are using WEP encryption, each device in your wireless network MUST use the same WEP encryption method and encryption key, or else your wireless network will not function properly.

![RADIUS Screen](image)

RADIUS Server  Enter the IP address of the RADIUS server.

RADIUS Port  Enter the port number of the RADIUS server. The default is **1812**.

Shared Key  Enter the key shared between the Router and the server.

Encryption  Select a level of WEP encryption, **64 bits 10 hex digits** or **128 bits 26 hex digits**. The default is **64 bits 10 hex digits**.

Passphrase  Enter a Passphrase to automatically generate WEP keys. Then click **Generate**.

Key 1-4  If you did not enter a Passphrase, enter the WEP key(s) manually.

TX Key  Select a default TX (Transmit) Key (choose which Key to use). The default is **1**.

WEP

WEP is a basic encryption method, which is not as secure as WPA.

**IMPORTANT:** If you are using WEP encryption, each device in your wireless network MUST use the same WEP encryption method and encryption key, or else your wireless network will not function properly.

![WEP Screen](image)

Encryption  Select a level of WEP encryption, **64 bits 10 hex digits** or **128 bits 26 hex digits**. The default is **64 bits 10 hex digits**.

Passphrase  Enter a Passphrase to automatically generate WEP keys. Then click **Generate**.

Key 1-4  If you did not enter a Passphrase, enter the WEP key(s) manually.

TX Key  Select a default TX (Transmit) Key (choose which Key to use). The default is **1**.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.
Chapter 3

Advanced Configuration

Wireless > Wireless MAC Filter

Wireless access can be filtered (restricted) by specifying the MAC addresses of the devices in your wireless network.

Enabled/Disabled  To filter wireless users by MAC address, either permitting or blocking access, click Enabled. If you do not wish to filter users by MAC address, keep the default setting, Disabled.

Access Restriction

Prevent PCs listed below from accessing the wireless network  Select this to block wireless access by MAC address. This option is enabled by default.

Permit PCs listed below access to the wireless network  Select this to allow wireless access by MAC address. This option is disabled by default.

MAC Address Filter List

Wireless Client List  Click this to open the Wireless Client List screen.

Save to MAC Address Filter List  for any device you want to add to the MAC Address Filter List. Then click Add.

To update the on-screen information, click Refresh. To exit this screen and return to the Wireless MAC Filter screen, click Close.

MAC XX  Enter the MAC addresses of the devices whose wireless access you want to control.

Click Save Settings to apply your changes, or click Cancel Changes to clear your changes.

Wireless > Advanced Wireless Settings

The Advanced Wireless Settings screen is used to set up the Router’s advanced wireless functions. These settings should only be adjusted by an advanced user because incorrect settings can reduce wireless performance. In most cases, keep the default settings.

Advanced Wireless

AP Isolation  This isolates all wireless clients and wireless devices on your network from each other. Wireless devices will be able to communicate with the Router but not
with each other. To use this function, select Enabled. AP isolation is disabled by default.

**Frame Burst** Enabling this option should provide your network with greater performance, depending on the manufacturer of your wireless products. To use the Frame Burst option, keep the default, Enabled.

**Authentication Type** The default is Auto, which allows either Open System or Shared Key authentication to be used. With Open System authentication, the sender and the recipient do NOT use a WEP key for authentication. With Shared Key authentication, the sender and recipient use a WEP key for authentication.

**Basic Rate** The Basic Rate setting is not actually one rate of transmission but a series of rates at which the Router can transmit. (The Basic Rate is not the actual rate of data transmission. If you want to specify the Router’s rate of data transmission, configure the Transmission Rate setting.) The Router will advertise its Basic Rate to the other wireless devices in your network, so they know which rates will be used. The Router will also advertise that it will automatically select the best rate for transmission. The default setting is Default, for transmission at all standard wireless rates (1-2 Mbps, 5.5 Mbps, 11 Mbps, 18 Mbps, and 24 Mbps).

**Transmission Rate** The rate of data transmission should be set depending on the speed of your wireless network. You can select from a range of transmission speeds, or you can select Auto to have the Router automatically use the fastest possible data rate and enable the Auto-Fallback feature. Auto-Fallback will negotiate the best possible connection speed between the Router and a wireless client. The default value is Auto.

**N Transmission Rate** The rate of data transmission should be set depending on the speed of your Wireless-N networking. You can select from a range of transmission speeds, or you can select Auto to have the Router automatically use the fastest possible data rate and enable the Auto-Fallback feature. Auto-Fallback will negotiate the best possible connection speed between the Router and a wireless client. The default is Auto.

**Transmission Power** Select the appropriate level of transmission power: High, Medium, or Low. In most cases, keep the default, High.

**CTS Protection Mode** The Router automatically uses CTS (Clear-To-Send) Protection Mode when your Wireless-N and Wireless-G devices are experiencing severe problems and are not able to transmit to the Router in an environment with heavy 802.11b traffic. This option boosts the Router’s ability to catch all Wireless-N and Wireless-G transmissions but severely decreases performance. To use this option, keep the default, Auto. To disable this option, select Disabled.

**Beacon Interval** A beacon is a packet broadcast by the Router to synchronize the wireless network. Enter a value between 20 and 1000 milliseconds. The Beacon Interval value indicates the frequency interval of the beacon. The default value is 100.

**DTIM Interval** This value, between 3 and 255, indicates the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the Router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast messages. The default value is 3.

**Fragmentation Threshold** This value specifies the maximum size for a packet before data is fragmented into multiple packets. If you experience a high packet error rate, you may slightly increase the Fragmentation Threshold. Setting the Fragmentation Threshold too low may result in poor network performance. Only minor reduction of the default value is recommended. In most cases, it should remain at its default value of 2346.

**RTS Threshold** Should you encounter inconsistent data flow, only minor reduction of the default value, 2347, is recommended. If a network packet is smaller than the preset RTS threshold size, the RTS/CTS mechanism will not be enabled. The Router sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should remain at its default value of 2347.

Click Save Settings to apply your changes, or click Cancel Changes to clear your changes.
Security > Firewall

The Firewall screen is used to configure a firewall that can filter out various types of unwanted traffic on the Router’s local network.

Firewall

**SPI Firewall Protection** To use firewall protection, keep the default selection, **Enabled**. To turn off firewall protection, select **Disabled**.

Internet Filters

**Filter Anonymous Internet Requests** This feature makes it more difficult for outside users to work their way into your network. This option is enabled by default. Disable it to allow anonymous Internet requests.

**Filter Multicast** Multicasting allows for multiple transmissions to specific recipients at the same time. If multicasting is permitted, then the Router will allow IP multicast packets to be forwarded to the appropriate computers. Select this option to enable the filter.

**Filter Internet NAT Redirection** This feature is used to prevent a local computer from using a URL or Internet address to access the local server. Select this option to enable the filter.

**Filter IDENT (Port 113)** This feature keeps port 113 from being scanned by devices outside of your local network. Select this option to enable the filter.

Web Filters

**Proxy** Use of WAN proxy servers may compromise the Gateway’s security. Denying Proxy will disable access to any WAN proxy servers. Select this option to enable proxy filtering. Deselect the feature to allow proxy access.

**Java** Java is a programming language for websites. If you deny Java, you run the risk of not having access to Internet sites created using this programming language. Select this option to enable Java filtering. Deselect the feature to allow Java usage.

**ActiveX** ActiveX is a programming language for websites. If you deny ActiveX, you run the risk of not having access to Internet sites created using this programming language. Select this option to enable ActiveX filtering. Deselect the feature to allow ActiveX usage.

**Cookies** A cookie is data stored on your computer and used by Internet sites when you interact with them. Select this option to filter cookies. Deselect the feature to allow cookie usage.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

Security > VPN Passthrough

The **VPN Passthrough** screen allows you to enable VPN tunnels using IPSec, L2TP, or PPTP protocols to pass through the Router’s firewall.

**VPN Passthrough**

**IPSec Passthrough** Internet Protocol Security (IPSec) is a suite of protocols used to implement secure exchange of packets at the IP layer. To allow IPSec tunnels to pass through the Router, keep the default, **Enabled**.

**L2TP Passthrough** Layer 2 Tunneling Protocol is the method used to enable Point-to-Point sessions via the Internet on the Layer 2 level. To allow L2TP tunnels to pass through the Router, keep the default, **Enabled**.

**PPTP Passthrough** Point-to-Point Tunneling Protocol (PPTP) allows the Point-to-Point Protocol (PPP) to be tunneled through an IP network. To allow PPTP tunnels to pass through the Router, keep the default, **Enabled**.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.
Chapter 3

Advanced Configuration

Storage > Disk

The storage options are available when a USB storage device is connected to the USB port of the Router.

The Disk screen describes the disk currently attached to the Router. Use this screen to create shared folders, safely remove a disk, or format a disk (any data on the disk will be deleted during formatting).

Shared folders are folders you create to manage access to the folders on the disk.

Disk Detail

If a formatted disk is connected to the Router, then its name is displayed. For each partition of the disk, the Partition, File System, Capacity, and Free Space information are displayed.

Safely Remove Disk  Before physically disconnecting a disk from the Router, click Safely Remove Disk first. This prevents the possible loss of data, which may occur if you remove the disk while it is transferring data.

Create Share  To create a shared folder, click this option for the appropriate partition, and the Shared Folder screen appears. Proceed to Create or Edit a Shared Folder, page 20.

Shared Folder

Shared Disk IP Address  The IP address of the disk is displayed.

Summary  To view a list of shared folders, click this option.

For each shared folder, the Display Name, Partition, and Shared Folder location are displayed.

Edit  To change the access settings of a shared folder, click this option, and the Shared Folder screen appears. Proceed to Create or Edit a Shared Folder, page 20.

Delete  To delete a shared folder, click this option.

Format Disk

Disk  To format a disk and create a new partition, select the disk you want to format, and then click Format Disk. (If your disk was formatted with multiple partitions, then the formatting will delete them and create a single partition.) Proceed to Format Disk, page 21.

Create or Edit a Shared Folder

Use this screen to add a shared folder.

Shared Folder

Display Name  Create a name for the folder. This will appear in the Shared Folder table on the Disk screen.

Partition  The name of the partition is displayed.

Location  The location of the folder is displayed.

New Folder  Create a name for the physical location of the folder. Then click Create.

Share entire Partition  Select this option if the folder should include the entire partition.

If you do not want to share the entire partition, then select the folder you do want to share.
Storage > Media Server

The storage options are available when a USB storage device is connected to the USB port of the Router.

If you have UPnP AV-enabled (or DLNA-certified) devices in your home, then you can use the Router as a media server. Examples of UPnP AV-enabled devices include a digital media adapter, a gaming console with a built-in media player, or a digital picture frame.

For example, if you have a digital media adapter that sends content to your entertainment system, then the digital media adapter can locate the Router using the UPnP AV standard. The folders you specify can then be accessed and played by the digital media adapter.

Setup

Server Name The default server name of the Router is WRT610N.

UPnP Media Server To use the Router’s media server function, select Enabled. Otherwise, select Disabled.

Database

This section lets you select content to add to the database of the Router’s media server.

Specify Folder to Scan To add a media folder to the database of the Router’s media server, click this button. The Media Folder screen appears. Proceed to Add a Media Folder, page 22.

Last scanning time The last time the media server scanned for content is displayed.

Auto-scan every __ To automatically scan the media folders, select this option. Then select the appropriate interval: 2 Hours (default), 6 Hours, 12 Hours, 24 Hours, or 48 Hours.

Scan All To scan all media files, click this button.

The database table lists the media folders with the following information: Display Name, Partition, and Folder.

Scan To scan a folder, click Scan.

Delete To delete a folder, click Delete.
Add a Media Folder

Use this screen to add a media folder.

**Media Folder**

- **Display Name** Create a name for the folder. This will appear in the Database table on the Media Server screen.
- **Partition** The name of the partition is displayed.
- **Location** The location of the folder is displayed.
- **New Folder** Create a name for the physical location of the folder. Then click **Create**.
- **Share entire Partition** Select this option if the folder should include the entire partition.
  If you do not want to share the entire partition, then select the folder you do want to share.
- **Current Folder** The current folder is displayed.
- **Folder Name** The available folders are listed by Folder Name.
- **Enter into Folder** To display sub-folders, click this button.
- **Select** Select a folder.
- **Return to Upper Folder** To return to the previous folder, click this button.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes. Click **Close** to exit the screen.

On the Media Server screen, click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Storage > FTP Server**

The storage options are available when a USB storage device is connected to the USB port of the Router.

The FTP Server tab creates an FTP server that can be accessed from the Internet or your local network.

**Setup**

- **Server Name** The default server name of the Router is WRT610N.
- **FTP Server** Select **Enabled** to use the Router as an FTP server. Otherwise, select **Disabled**. An external USB hard drive or USB disk must be connected to the USB port to use this service.
- **Internet Access** Select **Enabled** to allow access of the FTP server from the Internet. Otherwise, select **Disabled** to only allow local network access.
- **FTP Port** Enter the FTP Port number to use. The default is 21.

**Access**

This section lets you add FTP folders that can be accessed through the FTP client.

- **Specify Folder to Access** To add an FTP folder to the Access table, click this button. The FTP Folder screen appears. Proceed to **Create or Edit an FTP Folder**, page 23.

- **Summary** To view a list of FTP folders, click this option.
  For each FTP folder, the Display Name, Partition, and Folder location are displayed.
  The database table lists the FTP folders with the following information: Display Name, Partition, and Folder.

- **Edit** To change the access settings of an FTP folder, click this option, and the FTP Folder screen appears. Proceed to **Create or Edit an FTP Folder**, page 23.
Delete  To delete an FTP folder, click this option.

Create or Edit an FTP Folder
Use this screen to add an FTP folder.

**FTP Folder Screen**

**Display Name** Create a name for the folder. Enter a display name that will appear in the Access table of the FTP Server screen.

**Partition** The name of the partition is displayed.

**Location** The location of the folder is displayed.

**New Folder** Create a name for the physical location of the folder. Then click Create.

**Share entire Partition** Select this option if the folder should include the entire partition.

If you do not want to share the entire partition, then select the folder you do want to share.

**Current Folder** The current folder is displayed.

**Folder** The available folders are listed by Folder name.

**Enter into Folder** To display sub-folders, click this button.

**Select** Select a folder.

**Return to Upper Folder** To return to the previous folder, click this button.

**Access**
Specify which user groups have read-and-write or read-only access to the folder. (To create user groups, refer to Create or Edit a Group Account, page 24.)

**Available Groups** To allow a group access to the folder, select it, and then click the >> button.

**Groups with Access** To block a group from accessing the folder, select it, and then click the << button.

Click Save Settings to apply your changes, or click Cancel Changes to clear your changes. Click Close to exit the screen.

On the FTP Server screen, click Save Settings to apply your changes, or click Cancel Changes to clear your changes.

**Storage > Administration**
The Administration screen allows you to manage the user groups and individual users who can access the shared folders.

**Information**

**Server Name** The default server name of the Router is WRT610N.

**Workgroup Name** Enter the workgroup name for the Router; it should match the workgroup name of the computers on your local network. The Router’s default is workgroup.

**Server LAN IP Address** The local IP address of the Router’s media and FTP server is displayed.

**Server Internet IP Address** The Internet IP address of the Router’s FTP server is displayed.
User Management

By default the Router creates two users, admin and guest. The users are listed by User Name and Group.

Create New User To create a new user, click this button. The User Account screen appears. Proceed to Create or Edit a User Account, page 24.

Edit To change the settings of a user account, click Edit, and the User Account screen appears. Proceed to Create or Edit a User Account, page 24.

Delete To delete a user, click this button.

Group Management

By default the Router creates two user groups, admin and guest.

The groups are listed by Group Name and Access level. There are two levels of access, r & w (read-and-write) and r (read-only).

Create New Group To create a new group of users, click this button. The Group Account screen appears. Proceed to Create or Edit a Group Account, page 24.

Edit To change the description or access rights of a group, click Edit, and the Group Account screen appears. Proceed to Create or Edit a Group Account, page 24.

Delete To delete a group, click this button.

Create or Edit a User Account

User Account

User Name Create a name for the user.

Full Name Enter the actual name of the user.

Description Enter keywords to describe the user.

Password Enter the password that the user will use for login

Confirm Password Enter the password again to confirm.

Group Member Select the appropriate user group.

Account Disabled To temporarily disable an account, select this option.

Click Save Settings to apply your changes, or click Cancel to clear your changes. Click Close to exit the screen.

On the Administration screen, click Save Settings to apply your changes, or click Cancel Changes to clear your changes.

Create or Edit a Group Account

Group Account

Group Name Create a name for the group.

Description Enter keywords to describe the group.

Access Select the appropriate level of access, read and write or read only.

Click Save Settings to apply your changes, or click Cancel to clear your changes. Click Close to exit the screen.

On the Administration screen, click Save Settings to apply your changes, or click Cancel Changes to clear your changes.
Access Restrictions > Internet Access

The Internet Access screen allows you to deny or allow specific kinds of Internet usage and traffic, such as Internet access, designated services, and websites during specific days and times.

Internet Access Policy

Access Policy Access can be managed by a policy. Use the settings on this screen to establish an access policy (after Save Settings is clicked). Selecting a policy from the drop-down menu will display that policy's settings. To delete a policy, select that policy's number and click Delete This Policy. To view all the policies, click Summary.

Summary

The policies are listed with the following information: No., Policy Name, Access, Days, Time, and status (Enabled). To enable a policy, select Enabled. To delete a policy, click Delete. Click Save Settings to save your changes, or click Cancel Changes to clear your changes. To return to the Internet Access Policy screen, click Close.

Status Policies are disabled by default. To enable a policy, select the policy number from the drop-down menu, and select Enabled.

To create a policy, follow steps 1-11. Repeat these steps to create additional policies, one at a time.

1. Select a number from the Access Policy drop-down menu.

2. Enter a Policy Name in the field provided.

3. To enable this policy, select Enabled.

4. Click Edit List to select which PCs will be affected by the policy. The List of PCs screen appears. You can select a PC by MAC address or IP address. You can also enter a range of IP addresses if you want this policy to affect a group of PCs. After making your changes, click Save Settings to apply your changes, or click Cancel Changes to clear your changes. Then click Close.

5. Select the appropriate option, Deny or Allow, depending on whether you want to block or allow Internet access for the PCs you listed on the List of PCs screen.

6. Decide which days and what times you want this policy to be enforced. Select the individual days during which the policy will be in effect, or select Everyday. Then enter a range of hours and minutes during which the policy will be in effect, or select 24 Hours.

7. You can block websites with specific URL addresses. Enter each URL in a separate Website Blocking by URL Address field.

8. You can also block websites using specific keywords. Enter each keyword in a separate Website Blocking by Keyword field.

9. You can filter access to various services accessed over the Internet, such as FTP or telnet. (You can block up to three applications per policy.) From the Applications list, select the application you want to block. Then click the >> button to move it to the Blocked List. To remove an application from the Blocked List, select it and click the << button.

10. If the application you want to block is not listed or you want to edit a service's settings, enter the application's name in the Application Name field. Enter its range in the Port Range fields. Select its protocol from the Protocol drop-down menu. Then click Add.
To modify a service, select it from the Application list. Change its name, port range, and/or protocol setting. Then click **Modify**.

To delete a service, select it from the Application list. Then click **Delete**.

11. Click **Save Settings** to save the policy’s settings, or click **Cancel Changes** to clear the changes.

**Applications and Gaming > Single Port Forwarding**

The **Single Port Forwarding** screen allows you to customize port services for common applications.

When users send these types of requests to your network via the Internet, the Router will forward those requests to the appropriate servers (computers). Before using forwarding, you should assign static IP addresses to the designated servers (use the DHCP Reservation feature on the **Basic Setup** screen; refer to **DHCP Reservation**, page 9).

**Internal Port** Enter the internal port number used by the server or Internet application. Check with the Internet application documentation for more information.

**Protocol** Select the protocol(s) used for this application, **TCP**, **UDP**, or **Both**.

**To IP Address** For each application, enter the IP address of the computer that should receive the requests. If you assigned a static IP address to the computer, then you can look up its static IP address; refer to **DHCP Reservation**, **page 9**.

**Enabled** For each application, select **Enabled** to enable port forwarding.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Applications and Gaming > Port Range Forwarding**

The **Port Range Forwarding** screen allows you to set up public services on your network, such as web servers, ftp servers, e-mail servers, or other specialized Internet applications. (Specialized Internet applications are any applications that use Internet access to perform functions such as videoconferencing or online gaming. Some Internet applications may not require any forwarding.)

When users send these types of requests to your network via the Internet, the Router will forward those requests to the appropriate servers (computers). Before using forwarding, you should assign static IP addresses to the designated servers (use the DHCP Reservation feature on the **Basic Setup** screen; refer to **DHCP Reservation**, **page 9**).

If you need to forward all ports to one computer, click the **DMZ** tab.

**Port Range Forwarding**

To forward a port, enter the information on each line for the criteria required.
**Application Name**  In this field, enter the name you wish to give the application. Each name can be up to 12 characters.

**Start-End Port**  Enter the number or range of port(s) used by the server or Internet applications. Check with the Internet application documentation for more information.

**Protocol**  Select the protocol(s) used for this application, TCP, UDP, or Both.

**To IP Address**  For each application, enter the IP address of the computer running the specific application. If you assigned a static IP address to the computer, then you can look up its static IP address; refer to **DHCP Reservation**, page 9.

**Enabled**  Select Enabled to enable port forwarding.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

### Applications and Gaming > Port Range Triggering

The Port Range Triggering screen allows the Router to watch outgoing data for specific port numbers. The IP address of the computer that sends the matching data is remembered by the Router, so that when the requested data returns through the Router, the data is pulled back to the proper computer by way of IP address and port mapping rules.

**Port Range Triggering**

**Application Name**  Enter the application name of the trigger.

**Triggered Range**  For each application, enter the starting and ending port numbers of the triggered port number range. Check with the Internet application documentation for the port number(s) needed.

**Forwarded Range**  For each application, enter the starting and ending port numbers of the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.

**Enabled**  Select Enabled to enable port triggering.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

### Applications and Gaming > DMZ

The DMZ feature allows one network computer to be exposed to the Internet for use of a special-purpose service such as Internet gaming or videoconferencing. DMZ hosting forwards all the ports at the same time to one PC. The Port Range Forwarding feature is more secure because it only opens the ports you want to have opened, while DMZ hosting opens all the ports of one computer, exposing the computer to the Internet.

**DMZ**

Any computer whose port is being forwarded should have its DHCP client function disabled and have a new static IP address assigned to it because its IP address may change when using the DHCP function.

**Enabled/Disabled**  To disable DMZ hosting, select Disabled. To expose one PC, select Enabled. Then configure the following settings:

**Source IP Address**  If you want any IP address to be the source, select Any IP Address. If you want to specify an IP address or range of IP addresses as the designated source, select and complete the IP address range fields.

**Destination**  If you want to specify the DMZ host by IP address, select IP Address and enter the IP address in the field provided. If you want to specify the DMZ host by MAC address, select MAC Address and enter the MAC address in the field provided.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.
Applications and Gaming > QoS

Quality of Service (QoS) ensures better service to high-priority types of network traffic, which may involve demanding, real-time applications, such as videoconferencing.

QoS (Quality of Service)

Wireless

WMM Support Wi-Fi Multimedia (WMM) is a wireless Quality of Service feature that improves quality for audio, video, and voice applications by prioritizing wireless traffic. To use this feature, the wireless client devices in your network must support Wireless WMM. If you would like to disable this feature, select Disabled. Otherwise, keep the default, Enabled.

No Acknowledgement If you want to disable the Router’s Acknowledgement feature, so the Router will not re-send data if an error occurs, select Enabled. Otherwise, keep the default, Disabled.

Internet Access Priority

In this section, you can set the bandwidth priority for a variety of applications and devices. There are four levels of priority; High, Medium, Normal, or Low. When you set priority, do not set all applications to High, because this will defeat the purpose of allocating the available bandwidth. If you want to select below normal bandwidth, select Low. Depending on the application, a few attempts may be needed to set the appropriate bandwidth priority.

Enabled/Disabled To use the QoS policies you set, select Enabled. Otherwise, select Disabled.

Category

Select one of the following categories: Applications, Online Games, MAC Address, Ethernet Port, or Voice Device. Proceed to Summary, page 30 for more information.

Summary

This lists the QoS entries you have created for your applications and devices. Refer to Summary, page 30 for more information.

Applications

Applications Select the appropriate application. If you select Add a New Application, follow the instructions in the Add a New Application section.

Priority Select the appropriate priority: High, Medium (Recommended), Normal, or Low.

Click Apply to save your changes. Your new entry will appear in the Summary list.

Add a New Application

Enter a Name Enter a name for this application.

Port Range Enter the port range that the application will be using. For example, if you want to allocate bandwidth for FTP, you can enter 21-21. If you need services for an application that uses from 1000 to 1250, you enter 1000-1250 as your settings. You can have up to three ranges to define for this bandwidth allocation. Port numbers can range from 1 to 65535. Check your application’s documentation for details on the service ports used.

Select the protocol TCP or UDP, or select Both.
**Priority** Select the appropriate priority: **High**, **Medium (Recommended)**, **Normal**, or **Low**.

Click **Apply** to save your changes. Your new entry will appear in the Summary list.

**Online Games**

**Games** Select the appropriate game. If you select **Add a New Game**, follow the instructions in the *Add a New Game* section.

**Priority** Select the appropriate priority: **High**, **Medium (Recommended)**, **Normal**, or **Low**.

Click **Apply** to save your changes. Your new entry will appear in the Summary list.

**Add a New Game**

**Enter a Name** Enter any name to indicate the name of the entry.

**Port Range** Enter the port range that the game will be using. You can have up to three ranges to define for this bandwidth allocation. Port numbers can range from 1 to 65535. Check your application’s documentation for details on the service ports used.

Select the protocol **TCP** or **UDP**, or select **Both**.

**Priority** Select the appropriate priority: **High**, **Medium (Recommended)**, **Normal**, or **Low**.

Click **Apply** to save your changes. Your new entry will appear in the Summary list.

**MAC Address**

The MAC address of the computer you are using is displayed.

**Enter a Name** Enter a name for your device.

**MAC Address** Enter the MAC address of your device.

**Priority** Select the appropriate priority: **High**, **Medium (Recommended)**, **Normal**, or **Low**.

Click **Apply** to save your changes. Your new entry will appear in the Summary list.

**Ethernet Port**

**Ethernet** Select the Ethernet port that you want to use.
**Priority** Select the appropriate priority: **High**, **Medium** (Recommended), **Normal**, or **Low**.

Click **Apply** to save your changes. Your new entry will appear in the Summary list.

**Voice Device**

**Enter a Name** Enter a name for your voice device.

**MAC Address** Enter the MAC address of your voice device.

**Priority** Select the appropriate priority: **High** (Recommended), **Medium**, **Normal**, or **Low**.

Click **Apply** to save your changes. Your new entry will appear in the Summary list.

**Summary**

This lists the QoS entries you have created for your applications and devices.

**Priority** This column displays the bandwidth priority of High, Medium, Normal, or Low.

**Name** This column displays the application, device, or port name.

**Information** This column displays the port range or MAC address entered for your entry. If a pre-configured application or game was selected, there will be no valid entry shown in this section.

**Remove** Click this button to remove an entry.

**Edit** Click this button to make changes.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

---

**Administration > Management**

The **Management** screen allows the network’s administrator to manage specific Router functions for access and security.

**Router Password**

**Router Access**

To ensure the Router’s security, you will be asked for your password when you access the Router’s browser-based utility. The default is **admin**.

**Router Password** Enter a new password for the Router.

**Re-enter to confirm** Enter the password again to confirm.

**Local Management Access**

**Access via** HTTP (HyperText Transport Protocol) is the communications protocol used to connect to servers on the World Wide Web. HTTPS uses SSL (Secure Socket Layer) to encrypt data transmitted for higher security. Select the **HTTP** or **HTTPS**. The default is **HTTP**.

**Access via Wireless** If you are using the Router in a public domain where you are giving wireless access to your guests, you can disable wireless access to the Router’s web-based utility. You will only be able to access the utility via a wired connection if you disable the setting. Keep the default, **Enabled**, to allow wireless access to the utility, or select **Disabled** to block wireless access to the utility.

**Remote Management Access**

**Remote Management** To permit remote access of the Router from the Internet (outside the local network), select **Enabled**. Otherwise, keep the default, **Disabled**.

**Access via** HTTP (HyperText Transport Protocol) is the communications protocol used to connect to servers.
on the World Wide Web. HTTPS uses SSL (Secure Socket Layer) to encrypt data transmitted for higher security. Select HTTP or HTTPS. HTTP is the default.

**Remote Upgrade** If you want to be able to upgrade the Router from the Internet (outside the local network), select **Enabled**. (You must have the Remote Management feature enabled as well.) Otherwise, keep the default, **Disabled**.

**Allowed Remote IP Address** If you want to be able to access the Router from any external IP address, select **Any IP Address**. If you want to specify an external IP address or range of IP addresses, then select the second option and complete the fields provided.

**Remote Management Port** Enter the port number that will be open to outside access. You will need to enter the Router's password when accessing the Router this way, as usual.

**NOTE:** When you are in a remote location and wish to manage the Router, enter `http://xxx.xxx.xxx.xxx:yyyy` or `https://xxx.xxx.xxx.xxx:yyyy`, depending on whether you use HTTP or HTTPS. Enter the Router's specific Internet IP address in place of `xxx.xxx.xxx.xxx`, and enter the Remote Management Port number in place of `yyyy`.

**UPnP**

Universal Plug and Play (UPnP) allows the appropriate Windows operating system to automatically configure the Router for various Internet applications, such as gaming and videoconferencing.

**UPnP** If you want to use UPnP, keep the default, **Enabled**. Otherwise, select **Disabled**.

**Allow Users to Configure** Keep the default, **Enabled**, if you want to be able to make manual changes to the Router while using the UPnP feature. Otherwise, select **Disabled**.

**Allow Users to Disable Internet Access** Select **Enabled**, if you want to be able to prohibit any and all Internet connections. Otherwise, keep the default, **Disabled**.

**Backup and Restore**

**Backup Configurations** To back up the Router's configuration settings, click this button and follow the on-screen instructions.

**Restore Configurations** To restore the Router's configuration settings, click this button and follow the on-screen instructions. (You must have previously backed up the Router's configuration settings.)

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Administration > Log**

The Router can keep logs of all traffic for your Internet connection.

**Log**

To disable the Log function, select **Disabled**. To monitor traffic between the network and the Internet, keep the default, **Enabled**. With logging enabled, you can choose to view temporary logs.

**Logviewer IP Address** If your computer uses Logviewer software, you can enter the fixed IP address of the computer running the software. The Router will now send updated logs to that computer.

When you wish to view the logs, click **View Log**.

- **Save the Log** Click this option to save this information to a file on your computer’s hard drive.
- **Refresh** Click this option to update the log.
- **Clear** Click this option to clear all the information that is displayed.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes.

**Administration > Diagnostics**

The diagnostic tests (Ping and Traceroute) allow you to check the connections of your network devices, including connection to the Internet.
Diagnostics

Ping Test

Ping checks the status of a connection.

**IP or URL Address** Enter the address of the PC whose connection you wish to test.

**Packet Size** Enter the packet size you want to use. The default is 32 bytes.

**Number to Ping** Enter the number of times you wish to test the connection. The default is 5.

**Start Test** To run the test, click this button. The Ping screen shows if the test is successful. Click Close to return to the Diagnostics screen. Click Stop to stop the test.

Traceroute Test

Traceroute checks the performance of a connection.

**IP or URL Address** Enter the address of the PC whose connection you wish to test.

**Start Test** To run the test, click this button. The Traceroute screen shows if the test is successful. Click Close to return to the Diagnostics screen. Click Stop to stop the test.

Administration > Factory Defaults

The Factory Defaults screen allows you to restore the Router’s configuration to its factory default settings.

**Factory Defaults**

**Restore Factory Defaults** To reset the Router’s settings to the default values, select Restore Factory Defaults. Any settings you have saved will be lost when the default settings are restored.

NOTE: Do not restore the factory defaults unless you are having difficulties with the Router and have exhausted all other troubleshooting measures. Once the Router is reset, you will have to re-enter all of your configuration settings.

Administration > Firmware Upgrade

The Firmware Upgrade screen allows you to upgrade the Router’s firmware. Do not upgrade the firmware unless you are experiencing problems with the Router or the new firmware has a feature you want to use.

NOTE: The Router may lose the settings you have customized. Before you upgrade its firmware, write down all of your custom settings. After you upgrade its firmware, you will have to re-enter all of your configuration settings.
**Firmware Upgrade**

Before upgrading the firmware, download the Router’s firmware upgrade file from the Linksys website, www.linksysbycisco.com.

*Please Select a File to Upgrade*  Click **Browse** and select the firmware upgrade file.

*Start Upgrade*  After you have selected the appropriate file, click this button, and follow the on-screen instructions.

**Status > Router**

The **Router** screen displays information about the Router and its current settings.

**Router Information**

**Firmware Version**  The version number of the Router’s current firmware is displayed.

**Firmware Verification**  The unique identifier of the firmware is displayed.

**Current Time**  The time set on the Router is displayed.

**Internet MAC Address**  The Router’s MAC Address, as seen by your ISP, is displayed.

**Server Name**  The Server Name is the name used for the USB network storage, FTP, and media server functions of the Router. The default, WRT610N, is displayed.

**Host Name**  The Host Name of the Router is displayed (if it was entered on the **Setup > Basic Setup** screen).

**Domain Name**  The Domain Name of the Router is displayed (if it was entered on the **Setup > Basic Setup** screen).

**Internet Connection**

This section shows the current network information stored in the Router. The information varies depending on the Internet connection type selected on the **Setup > Basic Setup** screen.

For a DHCP connection, select **Release IP Address** or **Renew IP Address** as appropriate to release or renew a DHCP lease. For a PPPoE or similar connection, select **Connect** or **Disconnect** as appropriate to connect to or disconnect from the Internet.

Click **Refresh** to update the on-screen information.

**Status > Local Network**

The **Local Network** screen displays information about the local network.

**Local Network**

**Local MAC Address**  The MAC address of the Router’s local, wired interface is displayed.

**Router IP Address**  The Router’s IP address, as it appears on your local network, is displayed.

**Subnet Mask**  The Subnet Mask of the Router is displayed.

**DHCP Server**

**DHCP Server**  The status of the Router’s DHCP server function is displayed.

**Start IP Address**  For the range of IP addresses that can be used by devices on your local network, the starting IP address is displayed.

**End IP Address**  For the range of IP addresses that can be used by devices on your local network, the ending IP address is displayed.

**DHCP Clients Table**  Click this button to view a list of computers or other devices that are using the Router as a DHCP server.
Status > Wireless Network

The Wireless Network screen displays the status information of your 5 GHz and/or 2.4 GHz wireless network(s).

5GHz/2.4GHz Wireless Network

**MAC Address**  The MAC address of the Router’s local, wireless interface is displayed.

**Mode**  The wireless mode used by the network is displayed.

**Network Name (SSID)**  The name of the wireless network, which is also called the SSID, is displayed.

**Radio Band**  The Radio Band setting selected on the Basic Wireless Settings screen is displayed.

**Wide Channel**  The Wide Channel setting selected on the Basic Wireless Settings screen is displayed.

**Standard Channel**  The Standard Channel setting selected on the Basic Wireless Settings screen is displayed.

**Security**  The wireless security method used by the Router is displayed.

**SSID Broadcast**  The status of the SSID Broadcast feature is displayed.
Appendix A: Troubleshooting

**Your computer cannot connect to the Internet.**

Follow these instructions until your computer can connect to the Internet:

- Make sure that the Router is powered on. The Power LED should be green and not flashing.
- If the Power LED is flashing, then power off all of your network devices, including the modem, Router, and computers. Then power on each device in the following order:
  1. Cable or DSL modem
  2. Router
  3. Computer
- Check the cable connections. The computer should be connected to one of the ports numbered 1-4 on the Router, and the modem must be connected to the Internet port on the Router.

**The modem does not have an Ethernet port.**

The modem is a dial-up modem for traditional dial-up service. To use the Router, you need a cable/DSL modem and high-speed Internet connection.

**You cannot use the DSL service to connect manually to the Internet.**

After you have installed the Router, it will automatically connect to your Internet Service Provider (ISP), so you no longer need to connect manually.

**The DSL telephone line does not fit into the Router’s Internet port.**

The Router does not replace your modem. You still need your DSL modem in order to use the Router. Connect the telephone line to the DSL modem, and then insert the setup CD into your computer. Click **Setup** and follow the on-screen instructions.

---

**When you double-click the web browser, you are prompted for a username and password. If you want to get rid of the prompt, follow these instructions.**

Launch the web browser and perform the following steps (these steps are specific to Internet Explorer but are similar for other browsers):

1. Select **Tools > Internet Options**.
2. Click the **Connections** tab.
3. Select **Never dial a connection**.
4. Click **OK**.

**The Router does not have a coaxial port for the cable connection.**

The Router does not replace your modem. You still need your cable modem in order to use the Router. Connect your cable connection to the cable modem, and then insert the setup CD into your computer. Click **Setup** and follow the on-screen instructions.

**The computer cannot connect wirelessly to the network.**

Make sure the wireless network name or SSID is the same on both the computer and the Router. If you have enabled wireless security, then make sure the same security method and key are used by both the computer and the Router.

**You need to modify the settings on the Router.**

Open the web browser (for example, Internet Explorer or Firefox), and enter the Router’s IP address in the address field (the default IP address is **192.168.1.1**). When prompted, enter the password to the Router (the default is **admin**). Click the appropriate tab to change the settings.

**The Router does not recognize your USB storage device.**

Make sure the USB storage device uses the NTFS or FAT format. To check its format, follow these instructions:

1. Connect the USB storage device directly to your computer.
2. On your desktop, double-click **Computer** or **My Computer** icon.
3. Right-click the USB storage device, and click **Properties**.
4. The format is listed in the File system description. If the format is not NTFS or FAT, then back up the data on the USB storage device.

After you have backed up the data on the USB storage drive, you can format it. Right-click the USB storage device, and click **Format**. Follow the on-screen instructions. For more information, refer to Windows Help.
If the Router still does not recognize the USB storage device, then remove the power adapter from the Router’s Power port. Wait five seconds, and then re-connect the power adapter to the Router’s Power port.

**In Windows Vista, you do not see the USB storage device in the Network screen.**

Make sure the Router and your computer use the same workgroup name. (The default workgroup name of the Router is `workgroup`. In Windows Vista, right-click the Computer icon and select Properties. Click Advanced system settings. Click the Computer Name tab. The workgroup name is displayed.) If they differ, then change the workgroup name of the Router. Follow these instructions:

1. Access the web-based utility of the Router. (Refer to **Chapter 3: Advanced Configuration**, page 6.)
2. Click the Storage tab.
3. Click the Administration tab.
4. In the Workgroup Name field, enter the workgroup name of your computer.
5. Click Save Settings.

**In Windows XP, you do not see the Router in the My Network Places screen.**

In the Network Tasks section, click Show icons for networked UPnP devices. If the Router does not appear, follow these instructions:

1. Go to Start > Control Panel > Firewall.
2. Click the Exceptions tab.
4. Click OK.

**In Windows XP, you do not see your USB storage device in the View workgroup computers screen.**

Make sure the Router and your computer use the same workgroup name. (The default workgroup name of the Router is `workgroup`. In Windows XP, go to Start > Control Panel > System. Click the Computer Name tab. The workgroup name is displayed.) If they differ, then change the workgroup name of the Router. Follow these instructions:

1. Access the web-based utility of the Router. (Refer to **Chapter 3: Advanced Configuration**, page 6.)
2. Click the Storage tab.
3. Click the Administration tab.
4. In the Workgroup Name field, enter the workgroup name of your computer.
5. Click Save Settings.

WEB: If your questions are not addressed here, refer to the Linksys by Cisco website, [www.linksysbycisco.com](http://www.linksysbycisco.com)
Appendix B: How to Install and Access USB Storage

Overview
This appendix explains how to do the following:

• connect and access a USB storage device
• map a shortcut to a USB storage device
• create a shared folder on a USB storage device (advanced users)
• manage access to shared folders using group and user accounts (advanced users)

Install the USB Storage Device
1. Make sure your computer has a wired or wireless connection to the Router.
2. Connect an external USB hard disk drive or USB flash disk to the USB port of the Router.

Access the USB Storage Device
Follow the instructions for your Windows operating system, Vista or XP.

Windows Vista
1. On your desktop, double-click the Computer icon.
2. In the Address field, enter \WRT610N (the server name of the Router).

   NOTE: Another option is to use the IP address of the Router. In the Address field, enter the local IP address of the Router: \xxx.xxx.xxx.xxx The default is 192.168.1.1. You can change this IP address on the Setup > Basic Setup screen; refer to Setup > Basic Setup, page 6.

   User accounts are set up on the Storage > Administration screen; for more information, refer to page 41.

   On the login screen, enter your account user name and password. (For the admin account, admin is both the default user name and password.)

3. On the login screen, enter your account user name and password. (For the admin account, admin is both the default user name and password.)
3. Enter your account user name and password. (For the admin account, admin is both the default user name and password.)

[Image: Enter Account User Name and Password]

User accounts are set up on the Storage > Administration screen; for more information, refer to page 41.

Create a Shortcut to a Shared Folder

You can map any folder of the USB storage device as a separate drive. Follow the instructions for your Windows operating system, Vista or XP.

Windows Vista

Map a Drive

1. On your desktop, double-click the Network icon.

[Image: Network Icon]

[NOTE: If the My Computer icon is not displayed, then go to Start > All Programs > Accessories > Windows Explorer.]

2. In the Address field, enter \WRT610N (the server name of the Router).

[Image: Enter Server Name of Router]

[NOTE: Another option is to use the IP address of the Router. In the Address field, enter the local IP address of the Router: \xxx.xxx.xxx.xxx The default is 192.168.1.1. You can change this IP address on the Setup > Basic Setup screen; refer to Setup > Basic Setup, page 6.]

3. Right-click the folder you want to share, and click Map Network Drive. (The default shared folder is named Public.)

[Image: Map Network Drive]

4. From the Drive drop-down menu, select an available drive letter.

[Image: Select Drive Letter]

5. Click Finish.
Access Mapped Drive

1. On your desktop, double-click the Computer icon.

![Computer Icon](image)

**NOTE:** If the Computer icon is not displayed, then go to Start > All Programs > Accessories > Windows Explorer.

2. Double-click the mapped drive to access it.

![Double-Click Mapped Drive](image)

**NOTE:** Another option is to use the IP address of the Router. In the Address field, enter the local IP address of the Router: `\192.168.1.1` The default is `192.168.1.1`. You can change this IP address on the Setup > Basic Setup screen; refer to Setup > Basic Setup, page 6.

3. A login screen may appear. If prompted, enter your account user name and password. (For the admin account, admin is both the default user name and password.)

![Enter Account User Name and Password](image)

**NOTE:** Another option is to use the IP address of the Router. In the Address field, enter the local IP address of the Router: `\192.168.1.1` The default is `192.168.1.1`. You can change this IP address on the Setup > Basic Setup screen; refer to Setup > Basic Setup, page 6.

4. Right-click the folder you want to share, and click Map Network Drive. (The default shared folder is named Public.)

![Map Network Drive](image)

**Windows XP**

**Map a Drive**

1. On your desktop, double-click the My Computer icon.

![My Computer Icon](image)

**NOTE:** If the My Computer icon is not displayed, then go to Start > All Programs > Accessories > Windows Explorer.

2. In the Address field, enter `\WRT610N` (the server name of the Router).

![Enter Server Name of Router](image)

User accounts are set up on the Storage > Administration screen; for more information, refer to page 41.
5. From the Drive drop-down menu, select an available drive letter.

![Select Drive Letter](image)

6. Click Finish.

**Access Mapped Drive**

1. On your desktop, double-click the *My Computer* icon.

![My Computer Icon](image)

**NOTE:** If the *My Computer* icon is not displayed, then go to Start > All Programs > Accessories > Windows Explorer.

2. In the *Network Drives* section, double-click the mapped drive to access it.

![Double-Click Mapped Drive](image)

**Advanced Configuration (Advanced Users Only)**

To manage access to the USB storage device, you can create shared folders, user groups, and user accounts.

**Access the Browser-Based Utility**

To access the browser-based utility, launch the web browser on your computer, and enter the Router’s default IP address, 192.168.1.1, in the Address field. Then press Enter.

A login screen will appear. (Non-Windows XP users will see a similar screen.) Leave the *User name* field blank. The first time you open the Web-based utility, use the default password *admin*. (You can set a new password on the Administration > Management screen. Refer to Administration > Management, page 30.) Click OK to continue.

![Login Screen](image)

**Create a Shared Folder**

1. Click the Storage tab.
2. Click the Disk tab.

![Storage > Disk](image)
Appendix B

How to Install and Access USB Storage

3. To create a shared folder, click **Create Share**.

   ![Shared Folder](image)

4. In the **Display Name** field, create a display name for the shared folder.

5. In the **New Folder** field, create a name for the physical location of the shared folder. Then click **Create**.

6. If the shared folder should include the entire partition, select **Share entire Partition** and proceed to step 8. If you do not want to share the entire partition, then specify the folder you do want to share.

7. Select the appropriate folder. To display sub-folders, click **Enter into Folder**. To return to the previous folder, click **Return to Upper Folder**.

8. To allow a group access to the shared folder, select it from the Available Groups column, and then click the **>>** button.

   **NOTE:** Specify which user groups have read-and-write or read-only access to the shared folders.

9. To block a group from accessing the shared folder, select it from the Groups with Access column, and then click the **<<** button.

10. Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes. Click **Close** to exit the screen and return to the **Disk** screen.

---

Create a User Group Account

1. Click the **Storage** tab.

2. Click the **Administration** tab.

   ![Storage > Administration](image)

3. In the **Group Management** section, click **Create New Group**.

   ![Group Account](image)

4. In the **Group Name** field, create a name for the group.

5. In the **Description** field, enter keywords to describe the group.

6. From the **Access** drop-down menu, select the appropriate level of access, **read and write** or **read only**.

7. Click **Save Settings** to apply your changes, or click **Cancel Changes** to clear your changes. Click **Close** to exit the screen and return to the **Administration** screen.
Create a User Account

1. Click the Storage tab.
2. Click the Administration tab.

3. In the User Management section, click Create New User.

4. In the User Name field, create a name for the user.
5. In the Full Name field, enter the actual name of the user.
6. In the Description field, enter keywords to describe the user.
7. In the Password and Confirm Password fields, enter the password that the user will use for login.
8. From the Group Member drop-down menu, select the appropriate user group.

NOTE: To temporarily disable an account, select Account Disabled.

9. Click Save Settings to apply your changes, or click Cancel Changes to clear your changes. Click Close to exit the screen and return to the Administration screen.
## Appendix C: Specifications

### Model
- WRT610N

### Standards
- Draft 802.11n, 802.11a, 802.11g, 802.11b, 802.3, 802.3u, 802.3ab

### Ports
- Power, Ethernet 1-4, Internet, USB

### Button
- Power, Reset, Wi-Fi Protected Setup

### LEDs
- Power, USB, Internet, Wireless, Wi-Fi Protected Setup, Ethernet (1-4)

### No. of Antennas
- 6 Total, 3 Internal Antennas per Each 2.4 GHz & 5 GHz Radio Band

### Detachable (y/n)
- No

### Modulations
- 802.11b: CCK, QPSK, BPSK
- 802.11g: OFDM
- 802.11a: OFDM
- Wireless-N: BPSK, QPSK, 16-QAM, 64-QAM

### RF Pwr (EIRP) in dBm

<table>
<thead>
<tr>
<th>Band</th>
<th>Modulation</th>
<th>Power (dBm) (Typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>802.11b</td>
<td>Max. 20.5</td>
<td>11 Mbps: -87 dBm</td>
</tr>
<tr>
<td>802.11g</td>
<td>Max. 20.5</td>
<td>54 Mbps: -77 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 19.5</td>
<td>MCS15 (20 MHz): -71 dBm</td>
</tr>
<tr>
<td>20 MHz</td>
<td>Max. 20.5</td>
<td>MCS15 (40 MHz): -68 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 18.5</td>
<td>5 GHz: -74 dBm</td>
</tr>
<tr>
<td>40 MHz</td>
<td>Max. 17.0</td>
<td>MCS15 (20 MHz): -68 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 17.0</td>
<td>MCS15 (40 MHz): -65 dBm</td>
</tr>
</tbody>
</table>

### 5 GHz Output Power Per TX Chain

<table>
<thead>
<tr>
<th>UNII-1 (5150-5250 GHz)</th>
<th>Modulation</th>
<th>Power (dBm) (Typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>802.11a</td>
<td>Max. 14.0</td>
<td>54 Mbps: -87 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 11.5</td>
<td>11 Mbps: -71 dBm</td>
</tr>
<tr>
<td>20 MHz</td>
<td>Max. 12.0</td>
<td>54 Mbps: -71 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 17.5</td>
<td>11 Mbps: -68 dBm</td>
</tr>
<tr>
<td>40 MHz</td>
<td>Max. 20.0</td>
<td>54 Mbps: -68 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 17.5</td>
<td>11 Mbps: -65 dBm</td>
</tr>
</tbody>
</table>

### 5 GHz Output Power Per TX Chain

<table>
<thead>
<tr>
<th>UNII-2 (5545-5850 GHz)</th>
<th>Modulation</th>
<th>Power (dBm) (Typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>802.11a</td>
<td>Max. 17.5</td>
<td>54 Mbps: -87 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 20.0</td>
<td>11 Mbps: -71 dBm</td>
</tr>
<tr>
<td>20 MHz</td>
<td>Max. 20.0</td>
<td>54 Mbps: -71 dBm</td>
</tr>
<tr>
<td>Wireless-N</td>
<td>Max. 17.5</td>
<td>11 Mbps: -68 dBm</td>
</tr>
<tr>
<td>40 MHz</td>
<td>Max. 21.0</td>
<td>54 Mbps: -68 dBm</td>
</tr>
</tbody>
</table>

### Receive Sensitivity

<table>
<thead>
<tr>
<th>Band</th>
<th>Modulation</th>
<th>Sensitivity (dBm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4 GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 Mbps</td>
<td>Max. 20.5</td>
<td>-87 dBm</td>
</tr>
<tr>
<td>54 Mbps</td>
<td>Max. 20.5</td>
<td>-77 dBm</td>
</tr>
<tr>
<td>MCS15 (20 MHz)</td>
<td>Max. 19.5</td>
<td>-71 dBm</td>
</tr>
<tr>
<td>MCS15 (40 MHz)</td>
<td>Max. 18.5</td>
<td>-68 dBm</td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>8.86&quot; x 1.38&quot; x 7.09&quot; (225 x 35 x 180 mm)</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>15.94 oz (452 g)</td>
</tr>
<tr>
<td>Power</td>
<td>12V, 2A</td>
</tr>
<tr>
<td>Certifications</td>
<td>FCC, IC, CE, Wi-Fi a/b/g/draft-n, Recycle Logo, Energy Star EPS</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0 to 40°C (32 to 104°F)</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-20 to 60°C (-4 to 140°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>10 to 85%, Relative Humidity and Noncondensing</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>5 to 90% Noncondensing</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Appendix D: Warranty Information

Limited Warranty

FOR CONSUMERS WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. THIS WARRANTY DOES NOT EXCLUDE, LIMIT OR SUSPEND ANY RIGHTS OF CONSUMERS ARISING OUT OF NONCONFORMITY WITH A SALES CONTRACT. SOME COUNTRIES, STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION MAY LAST, SO THE LIMITATIONS OR EXCLUSIONS DESCRIBED BELOW MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY COUNTRY, STATE OR PROVINCE. THIS LIMITED WARRANTY IS GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE COUNTRY IN WHICH THE PRODUCT PURCHASE TOOK PLACE.

Linksys warrants the hardware in this Linksys product against defects in materials and workmanship under normal use for the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

- One (1) year for new product
- Ninety (90) days for refurbished product

Your exclusive remedy and Linksys’ entire liability under this limited warranty will be for Linksys, at its option, to (a) repair the product with new or refurbished parts, (b) replace the product with a reasonably available equivalent new or refurbished Linksys product, or (c) refund the purchase price of the product less any rebates. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All products and parts that are replaced become the property of Linksys.

Linksys additionally warrants that any media on which the software may be provided will be free from defects in materials and workmanship under normal use for a period of ninety (90) days from the date of original purchase. Your exclusive remedy and Linksys’ entire liability under this limited warranty will be for Linksys, at its option, to (a) replace the software media, or (b) refund the purchase price of the software media.

Exclusions and Limitations

This limited warranty does not apply if: (a) the product assembly seal has been removed or damaged, (b) the product has been altered or modified, except by Linksys, (c) the product damage was caused by use with non-Linksys products, (d) the product has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, (e) the product has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident, (f) the serial number on the product has been altered, defaced, or removed, or (g) the product is supplied or licensed for beta, evaluation, testing or demonstration purposes for which Linksys does not charge a purchase price or license fee.

EXCEPT FOR THE LIMITED WARRANTY ON MEDIA SET FORTH ABOVE AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALL SOFTWARE AND SERVICES PROVIDED BY LINKSYS WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND. Without limiting the foregoing, Linksys does not warrant that the operation of the product, software or services will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the product, software or services, or any equipment, system or network on which the product, software or services are used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party’s service for which this product’s use or operation may require.

TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED.

TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO EVENT WILL LINKSYS BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, LOSS OF THE ABILITY TO USE ANY THIRD PARTY PRODUCTS, SOFTWARE OR SERVICES, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT, SOFTWARE OR ANY SERVICES PROVIDED IN RESPECT OF SUCH PRODUCT, SOFTWARE OR SERVICE, EVEN IF LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY
OF SUCH DAMAGES. TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO EVENT WILL LINKSYS’ LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty fails of its essential purpose.

No Linksys employee, agent or reseller is authorized to make any verbal or written modification, extension or addition to this warranty, and Linksys expressly disclaims any such change to this warranty. If any portion of this limited warranty is found to be void or unenforceable, its remaining provisions shall remain in full force and effect.

Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to www.linksysbycisco.com/support where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Linksys Technical Support (or, if you purchased your product from a service provider, contact the service provider) for instructions on how to obtain warranty service. The telephone number for Linksys Technical Support in your area can be found by clicking the “Contact Us” link on the home page of www.linksysbycisco.com. Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials Authorization (RMA) number. You are responsible for properly packaging and shipping your product at your cost and risk. You must include the RMA number and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be rejected. Do not include any other items with the product you are returning. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Linksys’ then-current rates.

Technical Support

This limited warranty is neither a service nor a support contract. Information about Linksys’ current technical support offerings and policies (including any fees for support services) can be found at www.linksysbycisco.com/support.

Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623.
Appendix E: Regulatory Information

FCC 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 product has been tested and complies with the specifications 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 according to 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 is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver’s
- Consult a dealer or an experienced radio/TV technician for assistance

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.

IEEE 802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

FCC Radiation Exposure Statement

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

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

Safety Notices

WARNING: Do not use this product near water, for example, in a wet basement or near a swimming pool.

WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

WARNING: This product contains lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

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

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003 and RSS210.

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Industry Canada Radiation Exposure Statement

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

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

Restrictions in the 5 GHz Band

1. The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.
2. This device has been designed to operate with an antenna having a maximum gain of 4 dBi and 3.5 dBi at 2.4 GHz and 5 GHz respectively. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.
Because high power radars are allocated as primary users (meaning they have priority) in 5250-5350 MHz and 5650-5850 MHz, these radars could cause interference and/or damage to licensed exempt LAN devices.

Additional requirements for the band 5600-5650 MHz: Until further notice, devices subject to this Section shall not be capable of transmitting in the band 5600-5650 MHz, so that Environment Canada weather radars operating in this band are protected.

**Wireless Disclaimer**

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

**Avis de non-responsabilité concernant les appareils sans fil**

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d'accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d'exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.

This document contains important information for users with regards to the proper disposal and recycling of Linksys products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:

![WEEE Symbol]

**English - Environmental Information for Customers in the European Union**

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

**Čeština (Czech) - Informace o ochraně životního prostředí pro zákazníky v zemích Evropské unie**

Evropská směrnice 2002/96/ES zakazuje, aby zařízení označené tímto symbolem na produktu anebo na obalu bylo likvidováno s netříděným komunálním odpadem. Tento symbol udává, že daný produkt musí být likvidován odděleně od běžného komunálního odpadu. Odpovídáte za likvidaci tohoto produktu a dalších elektrických a elektronických zařízení prostřednictvím určených sběrných míst stanovených vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabyvajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

**Deutsch (German) - Umweltinformation für Kunden innerhalb der Europäischen Union**

Simultaneous Dual-Band Wireless-N Gigabit Router
Regulatory Information

Appendix E

Lietuvių (Lithuanian) - Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

Europos direktyva 2002/96/EC numato, kad įrankos, kurio ir Ą korūs pakuotė yra pažymėta šiuo simboliu (iveskite simbolį), negalima šašinti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gamininė reikia šašinti atskirai nuo bendro buitinio atliekų srauto. Jūs privalote užtikrinti, kad ši ir kita elektros ar elektroninė įranga būtų šaštinta per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimo sistemos. Tinkamai šaštinti ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrankų šaštintimą gali pateikti vietinės valdžios institucijos, atliekų šaštintimo tarnybos arba parduotuvės, kuriose jūs galite nusipirkti šiuos simbolius.

Malti (Maltese) - Informazzjoni Ambjentali għal Klijenti fl-Unjoni Ewropea


Magyar (Hungarian) - Környezetvédelmi információ az európai uniós vásárlók számára

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csonlagolásán az alábbi címke ² megjelenik, tilos a többi szélekötéstlán lakossági hulladékkal együtt kibontani. A címke azt jelöl, hogy az adott termék kibontásukor a szórványos háztartási hulladékkészleti rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati és a helyi hatóságok által kijelölt gyűjtőredszereken keresztül számlálja fel. A megfelelő hulladékkedolgozás segít a környezetre és az emberi egészségre potenciálisan ártalmas negatív hatások megelőzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékkedolgozási szolgálattal, vagy azzal üzlettel, ahol a terméket vásárolta.

Nederlands (Dutch) - Milieu-informatie voor klanten in de Europese Unie

De Europese Richtlijn 2002/96/EC schrijft voor dat apparatuur die is voorzien van dit symbool ² op het product of de verpakking, niet mag worden ingezameld met niet-gecheiden huishoudelijk afval. Dit symbool geeft aan dat het product apart moet worden ingezameld. U bent zelf verantwoordelijk voor de vernietiging van deze en andere elektrische en elektronische apparatuur via de daarvoor door de landelijke of plaatselijke overheid aangewezen inzamelingskanalen. De juiste vernietiging en recycling van deze apparatuur voorkomt mogelijke negatieve gevolgen voor het milieu en de gezondheid. Voor meer informatie over het vernietigen van uw oude apparatuur neemt u contact op met de plaatselijke autoriteiten of afvalverwerkingsdienst, of met de winkel waar u het product hebt aangeschaft.

Norsk (Norwegian) - Miljøinformasjon for kunder i EU


Polski (Polish) - Informacja dla klientów w Unii Europejskiej o przepisach dotyczących ochrony środowiska

Dyrektywa Europejska 2002/96/EC wymaga, aby sprzęt oznaczony symbolem ² znajdujący się na produkcie i/lub jego opakowaniu nie był wyrzucać razem z innymi niesortowanymi odpadami komunalnymi. Symbol ten wskazuje, że produkt nie powinien być usuwany razem ze zwykłymi odpadami z gospodarstw domowych. Na Państwu spoczywa obowiązek wyrzucania tego i innych urządzeń elektrycznych oraz elektronicznych w punktach odbioru wyznaczonych przez władze krajowe lub lokalne. Pozbywanie się sprzętu we właściwy sposób, a jego recykling pomaga zapobiec potencjalnie negatywnym konsekwencjom dla środowiska i zdrowia ludzkiego. W celu uzyskania szczegółowych informacji o usuwaniu starego sprzętu, prosimy zwrócić się do lokalnych władz, służb oczyszczania miasta lub sklepu, w którym produkt został nabyty.
Português (Portuguese) - Informação ambiental para clientes da União Europeia

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este simbolo \(\notin\) no produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O simbolo indica que este produto deve ser eliminado separadamente dos resíduos domésticos regulares. É da sua responsabilidade eliminar este e qualquer outro equipamento elétrico e electrónico através das instalações de recolha designadas pelas autoridades governamentais ou locais. A eliminação e reciclagem correctas ajudarão a prevenir as consequências negativas para o ambiente e para a saúde humana. Para obter informações mais detalhadas sobre a forma de eliminar o seu equipamento antigo, contacte as autoridades locais, os serviços de eliminação de resíduos ou o estabelecimento comercial onde adquiriu o produto.

Română (Romanian) - Informații de mediu pentru clienți din Uniunea Europeană


Slovenčina (Slovak) - Informácie o ochrane životného prostredia pre zákazníkov v Európskej unii

Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolom \(\notin\) na zariadení a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať oddelene od bežného odpadu z domácnosti. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom spezializovaných zbieriek zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie lúdov. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaobľújajúce sa likvidáciou odpadov alebo obchod, v ktorem ste si produkt zakúpili.

Slovenščina (Slovene) - Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom \(\notin\) – na izdelku in/ali na embalaži z nesortiranimi komunalnimi odpadki. Ta simbol opozarja, da je treba izdelek zavreči ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo oddate na posebna zbiralniša, ki jih določijo državne osebine in lokalne oblasti. Dovoljitev vseh zADEH zaveznikov, ki prihajajo iz preostalih gospodinjskih odpadkov, vključno z elektronsko opremo, se ne določa z izdelovalnikom. Toda je to morala izvesti tudi tretja stran. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalne oblasti, odlagalniških oddelek ali trgovino, kjer ste izdelek kupili.

Suomi (Finnish) - Ympäristöä koskevia tietoja EU-alueen asiakkaille

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Version 2.1, February 1999

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Software End User License Agreement

Simultaneous Dual-Band Wireless-N Gigabit Router

Schedule 3-C

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