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.

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<th>Resource</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linksys</td>
<td><a href="http://www.linksys.com">www.linksys.com</a></td>
</tr>
<tr>
<td>Linksys International</td>
<td><a href="http://www.linksys.com/international">www.linksys.com/international</a></td>
</tr>
<tr>
<td>Glossary</td>
<td><a href="http://www.linksys.com/glossary">www.linksys.com/glossary</a></td>
</tr>
<tr>
<td>Network Security</td>
<td><a href="http://www.linksys.com/security">www.linksys.com/security</a></td>
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Chapter 1: Product Overview

Thank you for choosing the Dual-Band Wireless-N Gigabit Router with Storage Link. 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.

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. If the LED is continuously lit, the Router is successfully connected to a device through that port. A flashing LED indicates network activity over that port. The LED lights up Green when it is connected to 10/100 port and Blue when it is connected to a gigabit 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 Wi-Fi Protected Setup to automatically configure wireless security for your wireless network(s).

To use Wi-Fi Protected Setup, run the Linksys Easy Link Advisor (LELA), or refer to the “Wireless > Basic Wireless Settings” section of “Chapter 3: Advanced Configuration”.

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

Back Panel

USB Port For use with an external hard drive.

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

1, 2, 3, 4 These Ethernet ports (1, 2, 3, 4) connect the Router to PCs 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 Administration > Factory Defaults in the Router’s web-based utility.

Power The Power port is where you will connect the power adapter.
Chapter 1

Product Overview

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.

<table>
<thead>
<tr>
<th>Suggested Mounting Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 mm</td>
</tr>
<tr>
<td>1.5 mm</td>
</tr>
<tr>
<td>2.5-3.0 mm</td>
</tr>
</tbody>
</table>

Note: Mounting hardware illustrations are not true to scale.

NOTE: Linksys is not responsible for damages incurred by unsecure 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. Maneuver 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.
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 Equivalency 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.linksys.com/security](http://www.linksys.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'd like to change its advanced settings, use the Router's web-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 web-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.

NOTE: When you first install the Router, you should use the Setup Wizard on the Setup CD-ROM. If you want to configure advanced settings, use this chapter to learn about the web-based utility.

How to Access the Web-Based Utility

To access the web-based utility, launch the web browser on your computer, and enter the Router's default IP address, 192.168.1.1 or http://wrt610n.com in the Address field. Then, press Enter.

A password request 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.) 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 web-based utility will change five seconds after you select another language.

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

Automatic Configuration - DHCP

By default, the Router’s Internet Connection Type is set to **Automatic Configuration - DHCP**, which should be kept only if your ISP supports DHCP or you are connecting through a dynamic IP address. (This option usually applies to cable connections.)

**Internet Connection Type > Automatic Configuration - DHCP**

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**

**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**

**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 have elapsed before your Internet connection terminates. The default Max Idle Time 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, you specify how often you want the Router to check the Internet connection. The default Redial Period is 30 seconds.

PPTP

Point-to-Point Tunneling Protocol (PPTP) is a service that applies to connections in Europe only.

**Internet Connection Type > PPTP**

If your ISP supports DHCP or you are connecting through a dynamic IP address, then select **Obtain an IP Address Automatically**. If you are required to use a permanent IP address to connect to the Internet, then select **Specify an IP Address**. Then configure the following:

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

**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 have elapsed before your Internet connection terminates. The default Max Idle Time 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 you want the Router to check the Internet connection. The default Redial Period is 30 seconds.

**Telstra Cable**

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

<table>
<thead>
<tr>
<th>Internet Connection Type</th>
<th>Telstra Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server IP Address</td>
<td></td>
</tr>
<tr>
<td>User Name</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td></td>
</tr>
</tbody>
</table>

**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**

**L2TP**

L2TP is a service that applies to connections in Israel only.

<table>
<thead>
<tr>
<th>Internet Connection Type</th>
<th>L2TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server IP Address</td>
<td></td>
</tr>
<tr>
<td>User name</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td></td>
</tr>
</tbody>
</table>

**Server IP Address**  This is the IP address of the L2TP Server. 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.
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.

Router Address

This presents both the Router’s IP Address, Subnet Mask, and URL Address as seen by your network. The default Router IP address is \texttt{192.168.1.1} and URL address is \texttt{http://WRT610N.com}.

Network Address Server Settings (DHCP)

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 don’t want a DHCP server, then select \texttt{Disabled} (no other DHCP features will be available).

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

- **Maximum Number of DHCP Users**  
  Enter the maximum number of PCs that you want the DHCP server to assign IP addresses to. This number cannot be greater than 253. The default is \texttt{50}.

- **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. The default is \texttt{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 PC’s interaction with the Internet. If you use a WINS server, enter that server’s IP Address here. Otherwise, leave this blank.

DHCP Reservation  
Click \texttt{DHCP Reservation} if you want to assign a fixed local IP address to a MAC address.

You will see a list of DHCP clients with the following information: Client Name, Interface, IP Address, and MAC Address. Click the Select checkbox to reserve a client’s IP address. Then click Add Clients.

If you want 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. Make sure the IP address is between the starting DHCP server’s IP address and maximum number of DHCP users range. Enter its MAC Address in the To This MAC Address field. Click Add.

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.
When you finish your changes, click **Save Settings** to save your changes. Click **Cancel Changes** to cancel your changes. To view the most up-to-date information, click **Refresh**. To exit this screen, click **Close**.

**Time Setting**

Select the time zone in which your network functions from this drop-down menu. (You can even automatically adjust for daylight saving time.)

![Time Setting](image)

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

**DynDNS.org**

![DynDNS.org](image)

**User Name** Enter the User Name for your DDNS account.

**Password** Enter the Password for your DDNS account.

**Host Name** The is the DDNS URL assigned by the DDNS service.

**Wildcard** Select **Enabled** to enable this feature or **Disabled** to disable it.

**Internet IP Address** The Router's Internet IP address is displayed here. Because it is dynamic, it will change.

**Status** The status of the DDNS service connection is displayed here.

**Update** To manually trigger an update, click **Update**. Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

**TZO.com**

![TZO.com](image)

**E-mail Address**, **TZO Password**, and **Domain Name** Enter the settings of the account you set up with TZO.

**Internet IP Address** The Router's Internet IP address is displayed here. Because it is dynamic, it will change.

**Status** The status of the DDNS service connection is displayed here.

**Update** To manually trigger an update, click **Update**. Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.
Chapter 3

Advanced Configuration

Setup > MAC Address Clone

Every computer hardware device, including the network adapter of your computer, has a unique code called a MAC address. Some Internet Service Providers (ISPs) require you to register this address with them in order to access the Internet. If you do not wish to re-register the MAC address with your ISP, you may assign the MAC address you have currently registered with your ISP to the Router with the MAC Address Clone feature.

MAC Address Clone

Enabled/Disabled To enable MAC Address cloning, select Enabled.

User Defined Entry Enter the MAC Address registered with your ISP here.

Clone Your PC’s MAC Clicking this button will clone the MAC address of the computer you are using.

Click Save Settings to apply your changes, or click Cancel Changes to cancel 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 If this Router is hosting your network’s connection to the Internet, select Enabled. When NAT is disabled, Dynamic Routing (RIP) will be available as an option.

Dynamic Routing (RIP) 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. This feature is Disabled by default.

Static Routing

Select Route Entry number To set up a static route between the Router and another network, select a number from the drop-down list. (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. (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.

**Routing Table**

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

**Wireless > Basic Wireless Settings**

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

**Wireless Configuration**

**Wireless Configuration**  Keep the default selection, Wi-Fi Protected Setup to configure your network using Wi-Fi Protected Setup. Select **Manual** to set up your wireless network your wireless network manually.

**Manual**

If you set the **Wireless Configuration** to **Manual**, the Basic Wireless Settings screen displays the following fields.

**Network Mode (5 GHz)**  From this drop-down menu, you can select the wireless standards running on your network. If you have both Wireless-A and Wireless-N (5GHz) devices in your network, keep the default setting, **Mixed**. If you have only Wireless-A devices, select **Wireless-A Only**. If you have only Wireless-N (5GHz) devices, select **Wireless-N Only**. If you do not have any Wireless-A and Wireless-N (5GHz) devices in your network, select **Disabled**.

**Network Mode (2.4 GHz)**  From this drop-down menu, you can select the wireless standards running on your network. If you have both Wireless-B, Wireless-G and Wireless-N (2.4GHz) devices in your network, keep the default setting, **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 (2.4GHz) devices, select **Wireless-N Only**. If you do not have any Wireless-B, Wireless-G and Wireless-N (2.4GHz) devices in your network, select **Disabled**.

**Wireless Network Name (SSID)**  The SSID is the network name shared among all points in a wireless network. The SSID must be identical for all devices in the wireless network. It is case-sensitive and must not exceed 32 keyboard characters. Make sure this setting is the same for all points in your wireless network. For added security, you should change the default SSID to a unique name.

**Radio Band (5 GHz)**  For best performance in a network using Wireless-A and Wireless-N (5GHz) devices, keep the default, **Auto**.

**Radio Band (2.4 GHz)**  For best performance in a network using Wireless-B, Wireless-G and Wireless-N (2.4GHz) devices, select **Auto**. The default is **Standard - 20MHz Channel**.

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

**Wide Channel (2.4 GHz)**  If you selected Wide - 40MHz Channel for the Radio Band setting, then this setting will be available for your primary Wireless-N (2.4GHz) 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 (5GHz) networking. If you selected Wide – 40MHz Channel for the Radio Band setting, then the Standard Channel will be a secondary channel for Wireless-N (5GHz). If you are not sure which channel to select, keep the default, **Auto (DFS)**.
**Standard Channel (2.4 GHz)** Select the channel for Wireless-B, Wireless-G and Wireless-N (2.4GHz) networking. If you selected Wide – 40MHz Channel for the Radio Band setting, then the Standard Channel will be a secondary channel for Wireless-N (2.4GHz). 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 setting, 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 cancel 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 this screen.
3. After the client device has been configured, click the **OK** button. 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 this screen.
2. Click the **Register** button.
3. After the client device has been configured, click the **OK** button. 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. Enter the PIN number listed on this screen. (It is also listed on the label on the bottom of the Router.)
2. After the client device has been configured, click the **OK** button. Then refer back to your client device or its documentation for further instructions.

The Wi-Fi Protected Setup Status, Network Name (SSID), Security, Encryption, 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. There are six wireless security mode options supported by the Router: WPA Personal, WPA Enterprise, WPA2 Personal, WPA2 Enterprise, RADIUS, and WEP. (WPA stands for Wi-Fi Protected Access, which is a security standard stronger than WEP encryption. WEP stands for Wired Equivalent Privacy, while RADIUS stands for Remote Authentication Dial-In User Service.) These six are briefly discussed here. For detailed information on setting up wireless security networks, refer to “Chapter 2: Wireless Security.”

Wireless Security

Security Mode

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

WPA Personal

**NOTE:** If you are using WPA or WPA2, each device in your wireless network MUST use the same WPA or WPA2 method and shared key, or else the network will not function properly.

**Encryption**  WPA supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, **TKIP** or **AES**. The default is **TKIP**.

**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 Key Renewal period 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 supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, **TKIP** or **AES**. The default is **TKIP**.

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

**RADIUS Port**  Enter the port number of the RADIUS server. The default value 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 Key Renewal period is **3600** seconds.

WPA2 Personal

**Encryption**  WPA supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, **TKIP** or **AES**. The default is **TKIP**.

**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 Key Renewal period is **3600** seconds.
**Encryption**  WPA2 supports two encryption methods with dynamic encryption keys; AES or WPA-TKIP/WPA2-AES. You must select **WPA-TKIP** or **WPA2-AES** to connect to the Router.

**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 Key Renewal 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.)

**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.)

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

**RADIUS Port**  Enter the port number of the RADIUS server. The default value 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 Key Renewal time out period is **3600** seconds.

**IMPORTANT:**  If you are using WEP encryption, always 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 Server**  Enter the IP Address of the RADIUS server.

**RADIUS Port**  Enter the port number of the RADIUS server. The default value 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 key from the drop-down menu.
WEP

WEP is a basic encryption method that is not as secure as WPA.

**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 key from the drop-down menu.

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

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**Wireless > Wireless MAC Filter**

Wireless access can be filtered by using the MAC addresses of the wireless devices transmitting within your network's radius.

**Access Restriction**

**Wireless MAC Filter**  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.

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

**Permit PCs listed below to the wireless network**  Select this to allow wireless access by MAC Address. This option is not selected by default.

**MAC Address Filter List**

Click the Wireless Client List button to display the Wireless Client List. It shows computers and other devices on the wireless network. Click the Save to MAC Address Filter List checkbox for any device you want to add to the MAC Address Filter List. Then click the Add button. To retrieve the most up-to-date information, click the Refresh button. To exit this screen and return to the Wireless MAC Filter screen, click the Close button.
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 cancel your changes.

Wireless > Advanced Wireless Settings

This Wireless > Advanced Wireless Settings screen is used to set up the Router’s advanced wireless functions. These settings should only be adjusted by an expert administrator as incorrect settings can reduce wireless performance.

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, select Enabled. The default is Disabled.

Authentication Type  The default is set to 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 one, 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, when the Router can transmit at all standard wireless rates.

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.

CTS Protection Mode  CTS (Clear-To-Send) Protection Mode should remain disabled unless you are having severe problems with your wireless products not being able to transmit to the Router in an environment with heavy latency wireless traffic. This function boosts the Router’s ability to catch all wireless transmissions but will severely decrease performance. The default value is Auto.

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.
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**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 cancel your changes.

**Security > Firewall**

The *Security > 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 feature is selected by default. Deselect the feature 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. It is selected by default. Deselect this feature to disable it.

**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 **Filter Internet NAT Redirection** to filter Internet NAT redirection. It is not selected by default.

**Filter IDENT (Port 113)** This feature keeps port 113 from being scanned by devices outside of your local network. It is selected by default. Deselect this feature to disable it.

**Web Filters**

**Filters** Select to filter Proxy, Java, ActiveX, and Cookies.

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

**Security > VPN Passthrough**

The *Security > VPN Passthrough* screen allows you to enable VPN tunnels using IPSec, PPTP, or L2TP 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**.

**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**.

**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**.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.
Storage > Disk

An external USB hard drive or USB disk must be connected to the USB Port of the Router to use the storage feature.

The Disk screen describes the disk currently attached to the Router. Using this screen, you can format a blank disk, safely remove a disk, or erase a disk.

Disk Detail

If a formatted disk is attached to the Router, you can view the Partition, File System, Capacity, and Free Space information for each partition of the disk. Click Create Share to create a shared folder.

Safely Remove Disk  Before physically disconnecting a disk from the Router, click Safely Remove first. This prevents the possible loss of data, if the disk is removed while data is transferring to or from the disk.

If you click Create Share, the Shared Folder screen appears.

Shared Folder Screen

Use this screen to add a Shared folder.

Display Name  Enter a display name that will appear in the Shared Folder table of the Disk screen.

Partition  The name of the Partition to share, that you selected in the Shared Folder will appear here.

Location  The location of the shared folder is displayed.

New Folder  To create a new folder, enter a name for the folder and click Create.

Share entire Partition  To share the entire partition, click the check box for Share entire Partition.

If you don’t want to share the entire partition, you can specify the folder you do want to share. Select a folder name to share. To see a sub-folder, click Enter into Folder. To return to the previous folder, click Return to Upper Folder. To create a new folder, enter a name in the New Folder field, then click Create.

Access  Select the right Access arrows to allow access to a group or the left arrows to remove access to a group. You can allow Read and Write or Read Only access. To add more groups, go to the Storage > Administration s

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

Each Display Name you created on the Shared Folder screen will be listed with its partition and shared folder, which you can edit or delete. Select Edit to edit an item or Delete to delete the item.

If you click the Edit, the Shared Folder screen appears. Refer to the “Shared Folder Screen” section above.

Format Disk

Select the disk you want to format, then click Format Disk to format the disk and create a new partition. If your hard drive is formatted with multiple partitions, it will delete them and create a single partition. Enter the name of the partition you want to format. Select Format to start the formatting or Cancel to cancel it before it begins.

Database

This section lets you select content to add to the database of the Router’s media server. Click Specify Folder to Scan to add a media folder to the Database table.

If you click Specify Folder to Scan, the Media Folder screen appears.

Media Folder Screen

Use this screen to add a Media folder.
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Storage > FTP Server

An external USB hard drive or USB disk must be connected to the USB Port of the Router to use the storage feature. The FTP Server tab creates an FTP Server that can be accessed from the Internet or your local network.

Setup

Server Name The name of the Router’s FTP server is displayed here. It can be changed on the Storage > Administration screen.

FTP Server Select Enabled to set this Router as an FTP Server. Otherwise, select Disabled to turn the service off. 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 port is 21.

Access This section lets you add FTP folders that can be accessed through the FTP client. Click Specify Folder to Access to add a FTP folder to the Access table.

If you click Specify Folder to Access, the FTP Folder screen appears.

FTP Folder Screen

Use this screen to add an FTP folder.

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

Partition The name of the Partition to share, that you selected in the Shared Folder will appear here.

Location The location of the shared folder is displayed.

New Folder To create a new folder, enter a name for the folder and click Create.

Share entire Partition To share the entire partition, click the check box for Share entire Partition.

If you don’t want to share the entire partition, you can specify the folder you do want to share. Select a folder name to share. To see a sub-folder, click Enter into Folder. To return to the previous folder, click Return to Upper Folder. To create a new folder, enter a name in the New Folder field, then click Create.

Access Select the right Access arrows to allow access to a group or the left arrows to remove access to a group. You can allow Read and Write or Read Only access. To add more groups, go to the Storage > Administration screen.

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

Each Display Name you created on the FTP Folder screen will be listed with its partition and folder, which you can edit or delete. Select Edit to edit an item or Delete to delete the item.
If you click Edit, the FTP Folder screen appears. Refer to the “FTP Folder Screen” section above.

Click Save Settings to apply your changes, or click Cancel Changes to cancel your changes. For more information, click Help.

**Storage > Administration**

The Administration screen allows you to manage the users and groups of users that can access the shares.

**Information**

**Server Name** Enter a name that will be used for the network storage FTP and Media server. Punctuation, spaces, and other special characters (e.g., * / | ) cannot be used in the name.

**Workgroup Name** Enter the Workgroup Name of your Router in the local network.

The (FTP and Media) Server LAN IP Address and the (FTP) Server Internet IP Address are displayed here.

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**User Management**

The available users are listed in the User Management table. The two default users, Admin (read and write access) and Guest (read-only access) cannot be deleted. Click Create New User to create a new user.

If you click Create New User, the User Account screen appears.

Each user you created on the User Account screen will be listed with its group, which you can edit or delete. Select Edit to edit a user or Delete to delete the user.

If you click Edit, the User Account screen appears. Refer to the “User Account Screen” section.

**User Account Screen**

Users can be added, edited or deleted through the User Account screen:

1. Enter a user name for the user.
2. Enter the full name and description for the user.
3. Enter a password and enter it again in the Confirm Password field.
4. Select Admin or Guest from the Group Member drop-down menu. You can create a new group in the Group Management section.
5. Click Save Settings to save the new changes, or click Cancel Changes to cancel the changes. Click Close to close the screen.
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Group Management

The groups are listed in the Group Management table. There are two default groups, **Admin** and **Guest**; these cannot be deleted. Click **Create New Group** to create a new group.

If you click **Create New Group**, the **Group Account** screen appears.

Each group you created on the **Group Account** screen will be listed with its access rights, which you can edit or delete. Select **Edit** to edit a user or **Delete** to delete the user.

If you click **Edit**, the **Group Account** screen appears. Refer to the “Group Account Screen” section.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes. For more information, click **Help**.

Access Restrictions > Internet Access

The **Access Restrictions > 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

**Internet Access Policy** Internet 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**. To view all the policies, click **Summary**.

**Deny or Allow** If you select Deny, the PC on the Edit List will be denied Internet Access by the dates and times selected. PCs not on the list will still have Internet access. If you select Allow, the PCs on the Edit List will have Internet access by the dates and times selected. The PCs not on the list will be denied Internet access. If there is a conflict with a policy, the lower numbered policy will have priority over a higher numbered policy.

To create an Internet Access Policy:

1. Select a number from the **Internet Access Policy** drop-down menu.
2. Enter a Policy Name in the field.
3. To enable this policy, select **Enabled**.

Group Account Screen

Groups can be added, edited or deleted:

1. Enter a name for the group.
2. Enter a description for the group.
3. Select **read and write** or **read only** access.
4. Click **Save Settings** to save the new changes, or click **Cancel Changes** to cancel the changes. Click **Close** to close the screen.
4. Click **Edit List of PCs** 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 **Cancel Changes** to cancel 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. Enter a URL address or Keyword for Website Blocking or select any Blocked Applications you wish to use. Using these features can slow down your Internet speed.

8. Click **Save Settings** to save the policy’s settings, or click **Cancel Changes** to cancel the policy’s settings.

**Blocked Applications**

You can filter access to various services accessed over the Internet, such as FTP or telnet, by selecting applications from the Applications List.

To add an application, 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 an application, select it from the Application List. Change the application name, port range, or protocol setting. Then click **Modify**.

To delete an application, select it from the Application List. Then click **Delete**.

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

**Single Port Forwarding**

To forward a port, enter the information on each line for the criteria required.

**Application** Select a pre-configured application, or enter the name you wish to give the application. Each name can have up to 12 characters.

**External and Internal Port** Enter the external and internal port numbers.

**Protocol** Select the protocol used for this application, either **TCP** or **UDP**.

**IP Address** For each application, enter the IP address of the computer that should receive the requests.

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

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.
Applications and Gaming > Port Range Forwarding

The Applications & Gaming > 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.)

Port Range Forwarding

To forward a port, enter the information on each line for the criteria required.

**Application**  In this field, enter the name you wish to give the application. Each name can be up to 12 characters.

**Start/End**  This is the port range. Enter the number that starts the port range in the Start column and the number that ends the range in the End column.

**Protocol**  Select the protocol used for this application, either TCP or UDP, or Both.

**IP Address**  For each application, enter the IP Address of the PC running the specific application.

**Enabled**  Select Enabled to enable port forwarding for the relevant application.

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

Applications & Gaming > Port Triggering

The Applications & Gaming > Port 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 Triggering

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

**Triggered Range**  For each application, list the triggered port number range. Check with the Internet application documentation for the port number(s) needed.

**Start Port**  Enter the starting port number of the Triggered Range.

**End Port**  Enter the ending port number of the Triggered Range.

**Forwarded Range**  For each application, list the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.

**Start Port**  Enter the starting port number of the Forwarded Range.

**End Port**  Enter the ending port number of the Forwarded Range.

**Enabled**  Select Enabled to enable port triggering for the applicable application.

Click Save Settings to apply your changes, or click Cancel Changes to cancel 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 Forward 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 PC 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.

To allow PCs on the Internet to access a local PC, select Enabled. Then, select Any IP Address or manually enter a specific source IP address of the computer you want to allow access from the Internet. Then, enter your local PC's IP address or MAC address that you want to allow access to. This feature is disabled by default.

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

Wireless

Wireless WMM (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, your 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

There are four categories available. Select one of the following: Applications, Online Games, MAC Address, Ethernet Port, or Voice Device. Proceed to the instructions for your selection.

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, Normal, or Low.

Click Add 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, Normal, or Low.

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

Online Games

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, Normal, or Low.

Click Add 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 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, Normal, or Low.

Click Add to save your changes. Your new entry will appear in the Summary list.
Chapter 3

Advanced Configuration

MAC Address

**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**, **Normal**, or **Low**.

Click **Add** 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**, **Normal**, or **Low**.

Click **Add** 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**, **Medium**, **Normal**, or **Low**.

Click **Add** 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 displays the bandwidth priority of High, Medium, Normal, or Low.

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

**Information**  This 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.

When you finish making changes to this screen, click **Save Settings** to save the changes, or click **Cancel Changes** to undo your changes. For more information, click **Help**.
Administration > Management

The Administration > Management screen allows the network's administrator to manage specific Router functions for access and security.

Router Password

Router Access

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 (Secured Socket Layer) to encrypt data transmitted for higher security. Select the HTTP or HTTPS check box. The default selection 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 web-based utility via a wired connection if you disable the setting. Keep the default, Enabled, to enable wireless access to the Router's web-based utility, or select Disabled to disable wireless access to the utility.

Remote Management Access

Remote Management  To access the Router remotely from the Internet, select Enabled.
Access via  Select HTTP or HTTPS communications protocols for remote access from the Internet.
Remote Upgrade  Select Enabled to be able to upgrade the firmware remotely from the Internet.

Allowed Remote IP Address  Select Any IP Address or manually enter an Internet IP address to allow remote access to the web-based utility from the Internet.

Remote Management Port  Enter the port number that will provide outside access to the Router's web-based utility. You will need to enter the Router's password when accessing the Router this way, as usual.

UPnP

UPnP  Keep the default, Enabled, to enable the UPnP feature; otherwise, select Disabled.

Allow Users to Configure  To use the Allow Users to Configure UPnP options from the Windows operating system, select Enabled.

Allow Users to Disabled Internet Access  To use the Allow Users to Disabled Internet Access options from the Windows operating system, click Disabled.

Backup and Restore

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

Restore Configurations  To restore the Router's configuration file, click this button. Then, follow the on-screen instructions.

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

Administration > Log

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

Log

Log  To disable the Log function, keep the default setting, Disabled. To monitor traffic between the network and the Internet, select Enabled.

Logviewer IP Address  If your computer uses Logviewer software you can enter enter the fixed IP address of the PC running the software in the Logviewer IP Address field. The Router will now send updated logs to that PC.
When you wish to view the logs, click View Log.

Click Save the Log to save your log, click Refresh to refresh the screen, or click Clear to clear the screen.

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

Administration > Diagnostics

The diagnostic tests (Ping and Traceroute) allow you to check the connections of your Internet network.

Ping Test

Ping The Ping test checks the status of a connection. Enter the address of the PC whose connection you wish to test and how many times you wish to test it. Then, click Start to Ping. The Ping Test screen will show if the test was successful. Click Close to return to the Diagnostics screen.

Traceroute Test

Traceroute To test the performance of a connection, click Traceroute to open the Traceroute Test screen. Enter the address of the PC whose connection you wish to test and click Traceroute. The Traceroute Test screen will show if the test was successful. Click Close to return to the Diagnostics screen.

Administration > Factory Defaults

The Administration > 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.

Administration > Firmware Upgrade

The Administration > 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.

**Upgrade Firmware**

**Please select a file to upgrade** Click **Browse** and select the extracted firmware upgrade file. Then click **Upgrade** and follow the on-screen instructions.

**Status > Router**

The **Status > Router** screen displays the Router’s current status.

**Router Information**

**Firmware Version** This is the Router’s current firmware.

**Firmware Verification** This is a unique identifier that verifies that you have valid firmware.

**Current Time** This shows the time, as you set on the **Setup** tab.

**Internet MAC Address** This is the Router’s MAC Address, as seen by your ISP.

**Server Name** This is the specific name that will be used for the network storage FTP and Media Server. You entered this name on the **Storage > Administration** tab.

**Host Name** If required by your ISP, this would have been entered on the **Setup** tab.

**Domain Name** If required by your ISP, this would have been entered on the **Setup** tab.

**Internet Connection**

**Connection Type**

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.

Select **Release IP Address** or **Renew IP Address** as appropriate to release or renew a DHCP lease.

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

**Status > Local Network**

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

**Local Network**

**Local MAC Address** The MAC Address of the Router’s local interface is displayed here.

**Router IP Address** This shows the Router’s IP address, as it appears on your local network.

**Subnet Mask** The Router’s Subnet Mask is shown here.

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

**Start IP Address** For the range of IP addresses used by devices on your local network, the beginning IP address is shown here.
**End IP Address**  For the range of IP addresses used by devices on your local network, the ending IP address is shown here.

**DHCP Client Table**  Click **DHCP Client Table** to view the DHCP Client Table. It lists computers and other devices that have been assigned IP addresses by the Router.

For more information, click **Help**.

**Status > Wireless Network**

The **Status > Wireless Network** screen displays the status information of your 5 GHz and/or 2.4 GHz wireless networks.

**5GHz/2.4GHz Wireless Network**

**MAC Address**  The MAC Address of the Router’s wireless interface is displayed here.

**Mode**  The wireless mode (Mixed, Wireless-N Only, Wireless-G Only, Wireless-B Only, Wireless-A Only or Disabled) used by the network is displayed here.

**Network Name (SSID)**  The name of the wireless network or SSID is displayed here.

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

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

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

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

**SSID Broadcast**  The status of the SSID Broadcast feature is displayed here.

For more information, click **Help**.
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.

WEB: If your questions are not addressed here, refer to the Linksys website, www.linksys.com
Appendix B: How to Install and Access USB Storage

Overview
This appendix explains how to connect and access an external USB storage device.

How to Install the USB Storage
1. Make sure your computer has a wired or wireless connection to the Router.
2. Connect an external USB hard drive or USB flash disk to the USB port of the Router.
3. Proceed to the next section, “How to Access the USB Storage”.

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

Instructions for Windows XP
1. Click Start.
2. Click Search.
3. Click Computers or people.
4. Click A computer on the network.
5. In the Computer name field, enter the server name that you created on the Storage > Administration screen. The default server name is WRT610N. See the Advanced Configuration section later in this Appendix for information on how to change the server name. Then click Search.
6. In the Name column, double-click Wrt610n.

7. In the User name and Password fields enter the default User name and password, admin. If you want to change the password, see the Advanced Configuration section later in this Appendix. Click OK.

8. The Default shared folder of your USB storage appears. To access your USB storage, double-click Default.

9. To map the Default shared folder to your computer, right-click Default. Click Map Network Drive.

10. Keep the default Drive letter, or select the letter you want to use from the Drive drop-down menu. Click Finish.
11. On your desktop, double-click My Computer. The Default shared folder of your USB storage is listed under Network Drives.

To access your USB storage, double-click the Default shared folder. You can use the Default shared folder as another drive on your network.

**NOTE:** Repeat steps 1-11 to map the USB storage to each XP computer on your network.

**Instructions for Windows Vista**

1. Click Start.
2. Click Network.

3. You will be notified if file sharing is turned off. Click the message.

4. Click **Turn on network discovery and file sharing.**
5. Double-click WRT610N listed in the Computer category (do not double-click WRT610N listed in the Network Infrastructure category).

If you do not see the WRT610N listed in the Computer category, then enter the default server name, WRT610N in the Search field, and press the Enter key. See the Advanced Configuration section later in this Appendix for information on how to change the server name.

6. In the User name and Password fields, enter the default User name and password, admin. If you want to change the password, see the Advanced Configuration section later in this Appendix. Click OK.

7. The Default shared folder of your USB storage appears. To access your USB storage, double-click Default.

8. To map the Default shared folder to your computer, right-click Default. Click Map Network Drive.

9. Keep the default Drive letter, or select the letter you want to use from the Drive drop-down menu. Click Finish.
10. On your desktop, double-click **My Computer**. The Default shared folder of your USB storage is listed under Network Location.

To access your USB storage, double-click the Default shared folder. You can use the Default shared folder as another drive on your network.

**NOTE:** Repeat steps 1-10 to map the USB storage to each Vista computer on your network.

---

**Advanced Configuration (Advanced Users Only)**

To manage access to the USB storage device, you can create shared folders, user groups, and user accounts. Follow the instructions in this section.

**How to Access the Web-Based Utility**

To access the web-based utility, launch the web browser on your computer, and enter the Router’s default IP address, **192.168.1.1** or **http://wrt610n.com**, in the Address field. Then, press Enter.

A password request 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 from the Administration tab’s Management screen.) Click **OK** to continue.
Appendix B

How to Install and Access USB Storage

Display Name Enter a display name that will appear in the Shared Folder table of the Disk screen.

Partition The name of the Partition to share, that you selected in the Shared Folder will appear here.

Location The location of the shared folder is displayed.

New Folder To create a new folder, enter a name for the folder and click Create.

Share entire Partition To share the entire partition, click the check box for Share entire Partition.

If you don’t want to share the entire partition, you can specify the folder you do want to share. Select a folder name to share. To see a sub-folder, click Enter into Folder. To return to the previous folder, click Return to Upper Folder. To create a new folder, enter a name in the New Folder field, then click Create.

Access Select the right Access arrows to allow access to a group or the left arrows to remove access to a group. You can allow Read and Write or Read Only access. To add more groups, go to the Storage > Administration section.

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

How to Create a User Group

1. Click the Storage tab.
2. Click the Administration tab.
3. In the Group Management section, click Create New Group.

4. The Group Account screen appears. In the Group Name field, enter a name for the new group.

5. In the Description field, enter a description for the new group.

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

7. On the Group Account screen, click Save Settings to save the new changes, or click Cancel Changes to cancel the changes. Click Close to close the screen.

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

How to Change the Server Name

1. Click the Storage tab.
Appendix B

How to Install and Access USB Storage

2. Click the Administration tab.
3. In the Information, Server Name field enter a new Server name.

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

How to 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. The User Account screen appears. In the User Name field, enter a name for the new user.

5. In the Full Name field, enter the full name of the new user.
6. In the Description field, enter a description for the new user.
7. In the Password and Confirm Password fields, enter a password.
8. From the Group Member drop-down menu, select the appropriate group.
9. If you want to disable the user account, select Account Disabled.
10. On the User Account screen, click Save Settings to save the new changes, or click Cancel Changes to cancel the changes. Click Close to close the screen.
11. On the Administration screen, click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.
## Appendix C: Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>WRT610N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>Draft 802.11n, 802.11a, 802.11g, 802.11b, 802.3, 802.3u, 802.3ab</td>
</tr>
<tr>
<td>Ports</td>
<td>Power, Ethernet, Internet, USB</td>
</tr>
<tr>
<td>Button</td>
<td>Reset, Wi-Fi Protected Setup</td>
</tr>
<tr>
<td>LEDs</td>
<td>Power, USB, Internet, Wireless, Wi-Fi Protected Setup, Ethernet (1-4)</td>
</tr>
</tbody>
</table>
| No. of Antennas | 3 Antennas for 2.4 GHz Wireless-N  
3 Antennas for 5 GHz Wireless-N |
| 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 | 2.4 GHz:  
802.11b: 16 ± 1.5dBm Typical @ Normal Temp Range  
802.11g: 13.5 ± 1.5dBm Typical @ Normal Temp Range  
Wireless-N 20MHz: 13 ± 1.5dBm Typical @ Normal Temp Range  
Wireless-N 40MHz: 13 ± 1.5dBm Typical @ Normal Temp Range  
5GHz:  
802.11a: 12.5 ± 1.5dBm Typical @ Normal Temp Range  
Wireless-N 20MHz: 8.5 ± 1.5dBm Typical @ Normal Temp Range  
Wireless-N 40MHz: 11 ± 1.5dBm Typical @ Normal Temp Range |
| Receive Sensitivity | 2.4GHz:  
11Mbps: -86dBm @ Typical  
54Mbps: -71dBm @ Typical  
130Mbps (20MHz): -70dBm @ Typical  
270Mbps (40MHz): -66dBm @ Typical  
5GHz:  
54Mbps: -67dBm @ Typical  
130Mbps (20MHz): -68dBm @ Typical  
270Mbps (40MHz): -62dBm @ Typical |
| Antenna Gain in dBi | 2.4GHz: RIFA 1 & RIFA 2 & RIFA 3 ≤ 4dBi (Typical)  
5GHz: RIFA 1 & RIFA 2 & RIFA 3 ≤ 3.5dBi (Typical) |
| UPnP          | Supported |
| Security Features | WEP, WPA, WPA2 |
| WEP Key Bits  | Up to 128-Bit Encryption |
| Environmental |  
Dimensions: 225 x 35 x 180 mm  
Unit Weight: 452 g  
Power: 12V 1.5A  
Certifications: FCC, IC, CE, Wi-Fi a/b/g/draft-n  
Operating Temp.: 0 to 40°C  
Storage Temp.: -20 to 60°C  
Operating Humidity: 10 to 80%, Noncondensing  
Storage Humidity: 5 to 90% Noncondensing |

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

Limited Warranty

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

- Two (2) years for new product
- Ninety (90) days for refurbished product

This limited warranty is non-transferable and extends only to the original end-user purchaser. 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/or parts that are replaced become the property of Linksys.

This limited warranty shall apply in addition to any statutory or other rights which you may have under a contract of sale.

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.

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Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to www.linksys.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 for instructions on how to obtain warranty service. The telephone number for Linksys Technical Support in your area can be found in the product User Guide and at www.linksys.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 to Linksys 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 to Linksys. 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.linksys.com/support](http://www.linksys.com/support).

**General**

This limited warranty is governed by the laws of the jurisdiction in which the Product was purchased by you.

If any portion of this limited warranty is found to be void or unenforceable, its remaining provisions shall remain in full force and effect.

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

**For more information, please contact us**

[www.linksys.com](http://www.linksys.com)

Select your country, and then select SUPPORT/TECHNICAL

**For product returns:**

Select your Country and then select CUSTOMER SUPPORT
Appendix E: Regulatory Information

FCC Statement
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 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.

Safety Notices
- Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.
- Do not use this product near water, for example, in a wet basement or near a swimming pool.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

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.

Avis d’Industrie Canada
Cet appareil numérique de la classe B est conforme aux normes NMB-003 et RSS210 du Canada.

L’utilisation de ce dispositif est autorisée seulement aux conditions suivantes :
1. il ne doit pas produire de brouillage et
2. il doit accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Afin de réduire le risque d’interférence aux autres utilisateurs, le type d’antenne et son gain doivent être choisis de façon à ce que la puissance isotope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour obtenir une communication satisfaisante.

Avis d’Industrie Canada concernant l’exposition aux radiofréquences
Ce matériel est conforme aux limites établies par IC en matière d’exposition aux radiofréquences dans un environnement non contrôlé. Ce matériel doit être installé et utilisé à une distance d’au moins 20 cm entre l’antenne et le corps de l’utilisateur.

L’émetteur ne doit pas être placé près d’une autre antenne ou d’un autre émetteur, ou fonctionner avec une autre antenne ou un autre émetteur.
**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.
### Declaration of Conformity with Regard to EU Directive 1999/5/EC (R&TTE Directive)

Compliance Information for 2.4-GHz and 5-GHz Wireless Products Relevant to the EU and Other Countries Following the EU Directive 1999/5/EC (R&TTE Directive)

<table>
<thead>
<tr>
<th>Language</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bulgarian</strong></td>
<td>Това оборудване отговаря на съществените изисквания и приложими клauзи на Директива 1999/5/EC.</td>
</tr>
<tr>
<td><strong>Czech</strong></td>
<td>Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.</td>
</tr>
<tr>
<td><strong>Danish</strong></td>
<td>Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.</td>
</tr>
<tr>
<td><strong>German</strong></td>
<td>Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EC.</td>
</tr>
<tr>
<td><strong>Estonian</strong></td>
<td>See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td>This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.</td>
</tr>
<tr>
<td><strong>Spanish</strong></td>
<td>Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.</td>
</tr>
<tr>
<td><strong>Greek</strong></td>
<td>Αυτός ο εξοπλισµός είναι σε συµµόρφωση µε τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.</td>
</tr>
<tr>
<td><strong>French</strong></td>
<td>Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.</td>
</tr>
<tr>
<td><strong>Icelandic</strong></td>
<td>Petta tæki er samkvæmt grunnkröfum og öðrum víbeigandi ákvæðum Tilskipunar 1999/5/EC.</td>
</tr>
<tr>
<td><strong>Italian</strong></td>
<td>Questo apparato è conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.</td>
</tr>
<tr>
<td><strong>Latvian</strong></td>
<td>Šī iekārta atbilst Direktivas 1999/5/EK būtiskajām prasībām un citem ar to saistītajiem noteikumiem.</td>
</tr>
<tr>
<td><strong>Lithuanian</strong></td>
<td>Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.</td>
</tr>
</tbody>
</table>

For all products, the Declaration of Conformity (DoC) is available through one or more of these options:

- A pdf file is included on the product’s CD.
- A print copy is included with the product.
- A pdf file is available on the product’s webpage. Visit [www.linksys.com/international](http://www.linksys.com/international) and select your country or region. Then select your product.

If you need any other technical documentation, see the “Technical Documents on www.linksys.com/international” section, as shown later in this appendix.
Wireless Equipment
(Wireless-N/G/A/B Products)

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 300 328 and/or EN 301 893 as applicable
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950 and either EN 50385 or EN 50371

Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) are required for operation in the 5 GHz band.

DFS: The equipment meets the DFS requirements as defined in ETSI EN 301 893. This feature is required by the regulations to avoid interference with Radio Location Services (radars).

TPC: For operation in the 5 GHz band, the maximum power level is 3 dB or more below the applicable limit. As such, TPC is not required.

CE Marking

For the Linksys Wireless-N, -G, -B, and/or -A products, the following CE mark, notified body number (where applicable), and class 2 identifier are added to the equipment.

![CE Mark](image)

Check the CE label on the product to find out which notified body was involved during the assessment.

National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l’UE (et dans tous les pays ayant transposé la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesi menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Aufnahme der folgenden aufgeführten Staaten:

In the majority of the EU and other European countries, the 2,4- and 5-GHz bands have been made available for the use of wireless local area networks (LANs). The table labeled “Overview of Regulatory Requirements for Wireless LANs” provides an overview of the regulatory requirements applicable for the 2,4- and 5-GHz bands.

Later in this document you will find an overview of countries in which additional restrictions or requirements or both are applicable.

The requirements for any country may evolve. Linksys recommends that you check with the local authorities for the latest status of their national regulations for both the 2,4- and 5-GHz wireless LANs.

Overview of Regulatory Requirements for Wireless LANs

<table>
<thead>
<tr>
<th>Frequency Band (MHz)</th>
<th>Max Power Level (EIRP) (mW)</th>
<th>Indoor ONLY</th>
<th>Indoor &amp; Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400-2483,5</td>
<td>100</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5150-5350†</td>
<td>200</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5470-5725†</td>
<td>1000</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

†Dynamic Frequency Selection and Transmit Power Control are required in the frequency ranges of 5250-5350 MHz and 5470-5725 MHz.

The following countries have restrictions and/or requirements in addition to those given in the table labeled “Overview of Regulatory Requirements for Wireless LANs”:

Denmark

In Denmark, the band 5150 - 5350 MHz is also allowed for outdoor usage.

†Danmark må frekvensbåndet 5150 - 5350 også anvendes udendørs.
France

For 2.4 GHz, the product should not be used outdoors in the band 2454 - 2483.5 MHz. There are no restrictions when used in other parts of the 2.4 GHz band when used indoors. Check http://www.arcep.fr/ for more details.

Pour la bande 2.4 GHz, l’équipement ne doit pas être utilisé en extérieur dans la bande 2454 - 2483.5 MHz. Il n’y a pas de restrictions pour des utilisations en intérieur dans d’autres parties de la bande 2.4 GHz. Consultez http://www.arcep.fr/ pour de plus amples détails.

Applicable Power Levels in France

<table>
<thead>
<tr>
<th>Location</th>
<th>Frequency Range (MHz)</th>
<th>Power (EIRP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor</td>
<td>2400-2483.5</td>
<td>100 mW (20 dBm)</td>
</tr>
<tr>
<td>(No restrictions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor</td>
<td>2400-2454</td>
<td>100 mW (20 dBm)</td>
</tr>
<tr>
<td></td>
<td>2454-2483.5</td>
<td>10 mW (10 dBm)</td>
</tr>
</tbody>
</table>

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this 2.4-GHz wireless LAN product is operating within the boundaries of the owner’s property, its use requires a “general authorization”. Please check http://www.comunicazioni.it/it/ for more details.


Latvia

The outdoor usage of the 2.4 GHz band requires an authorization from the Electronic Communications Office. Please check http://www.esd.lv for more details.


Notes:
1. Although Norway, Switzerland and Liechtenstein are not EU member states, the EU Directive 1999/5/EC has also been implemented in those countries.
2. The regulatory limits for maximum output power are specified in EIRP. The EIRP level of a device can be calculated by adding the gain of the antenna used (specified in dBi) to the output power available at the connector (specified in dBm).

Product Usage Restrictions

This product is designed for indoor usage only. Outdoor usage is not recommended, unless otherwise noted.

2.4 GHz Restrictions

This product is designed for use with the standard, integral or dedicated (external) antenna(s) that is/are shipped together with the equipment. However, some applications may require the antenna(s), if removable, to be separated from the product and installed remotely from the device by using extension cables. For these applications, Linksys offers an R-SMA extension cable (AC9SMA) and an R-TNC extension cable (AC9TNC). Both of these cables are 9 meters long and have a cable loss (attenuation) of 5 dB. To compensate for the attenuation, Linksys also offers higher gain antennas, the HGA7S (with R-SMA connector) and HGA7T (with R-TNC connector). These antennas have a gain of 7 dBi and may only be used with either the R-SMA or R-TNC extension cable.

Combinations of extension cables and antennas resulting in a radiated power level exceeding 100 mW EIRP are illegal.

Third-Party Software or Firmware

The use of software or firmware not supported/provided by Linksys may result that the equipment is no longer compliant with the regulatory requirements.

Technical Documents on www.linksys.com/international

Follow these steps to access technical documents:

1. Enter http://www.linksys.com/international in your web browser.
2. Select the country or region in which you live.
3. Click the Products tab.
4. Select the appropriate product category.
5. Select the product sub-category, if necessary.
6. Select the product.
7. Select the type of documentation you want from the More Information section. The document will open in PDF format if you have Adobe Acrobat installed on your computer.

NOTE: If you have questions regarding the compliance of this product or you cannot find the information you need, please contact your local sales office or visit www.linksys.com/international

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:

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English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol [cross] 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.

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


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Dansk (Danish) - Miljøinformation for kunder i EU


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

Appendix E

Regulatory Information

Eesti (Estonian) - Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele


Español (Spanish) - Información medioambiental para clientes de la Unión Europea

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o prégame en la tienda donde adquirió el producto.

Ελληνικά (Greek) - Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης

Σύμφωνα με την Κοινοτική Οδηγία 2002/96/EC, ο εξοπλισμός που φέρει αυτό το σύμβολο ξεκινά την πρόκληση να απορριπτείται μαζί με τα μη διαχωρισμένα αστικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορριπτείται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παρόντος και άλλων ελεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμμάτων, οι οποίες ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλει στην πρόληψη και την ολοκληρωμένη εστίαση του περιβάλλοντος και την υγεία. Για περισσότερες πληροφορίες, προκειμένου να εκφράσετε συμπαθητικά με τις τοπικές αρχές, τις υπηρεσίες αποκομιδής απορριμμάτων ή το κατάστημα από το οποίο αγοράσατε το προϊόν.

Français (French) - Informations environnementales pour les clients de l’Union européenne

La directive européenne 2002/96/CE exige que l’équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L’élimination et le recyclage en bonne et due forme ont pour but de lutter contre l’impact négatif potentiel de ce type de produits sur l’environnement et la santé publique. Pour plus d’informations sur le mode d’élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l’endroit où vous avez acheté le produit.

Italiano (Italian) - Informazioni relative all’ambiente per i clienti residenti nell’Unione Europea

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull’imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiutano a prevenire conseguenze potenzialmente negative per l’ambiente e per la salute dell’essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Latviešu valoda (Latvian) - Ekoloģiska informācija klientiem Eiropas Savienības juridiskājā

Appendix E
Regulatory Information

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

Europos direktyva 2002/96/EC numato, kad jangos, kuri ir ≠ kurios pakutė yra pažymėta šiuo simboliu (iveskite simbolį), negalima šaisti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gaminį reikia atskirai nuo bendro buitinio atliekų srauto. Jūs privalate užtikrinti, kad ši iki elektroninė įranga būtų šalinama per tam tikras nacionalinius ar vietinės valdžios nustatytas atliekų rinkimo sistematas. Tinkamai šalinti ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiaus informacijos apie įsūsų senos jangos šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybų arba pardavėjų, kurios įsigijote šį gaminį.

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


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

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csemagolásán az alábbi címke ≠ megjelenik, tilos a többi szelektáltlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kidolgozásakor a szokványos háztartási hulladékkészleti rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által megfelelő hulladékfeldolgozás segít a környezet és az emberi egészségre potenciálisan ártalma negatív hatások megelőzésében. Ha elavult berendezéseinek felszámlolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékfeldolgozási 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 ≠ op het product of de verpakking, niet mag worden ingezameld met niet-gescheiden 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 inzamelingssystemen. 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 ≠ znajdującym się na produkcie i/lub jego opakowaniu nie był wyrzucany 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 właściwym sposób i 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 símbolo no produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O símbolo 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) - Informaţii de mediu pentru clienţii din Uniunea Europeană

Slovenčina (Slovak) - Informácie o ochrane životného prostredia pre zákazníkov v Európskej unii
Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolem na produkte 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 specializovaných zberných zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadnym negatívnym dopadom na životné prostredie a zdravie ľudí. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaobľučujúce sa likvidáciou odpadov alebo obchod, v ktrom ste si produkt zakúpili.

Slovenščina (Slovene) - Okoljske informacije za stranke v Evropski uniji
Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom – 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 odnese na posebna zbiralnišča, ki jih določijo državne ustanove ali lokalne oblasti. S pravilnim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalne oblasti, odlagališče odpadov ali trgovino, kjer ste izdelek kupili.

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

Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen

WEB: For additional information, please visit www.linksys.com/international
Appendix F: Software License Agreement

Software in Linksys Products

This product from Cisco-Linksys LLC or from one of its affiliates Cisco Systems-Linksys (Asia) Pte Ltd. or Cisco-Linksys K.K. ("Linksys") contains software (including firmware) originating from Linksys and its suppliers and may also contain software from the open source community. Any software originating from Linksys and its suppliers is licensed under the Linksys Software License Agreement contained at Schedule 1 below. You may also be prompted to review and accept that Linksys Software License Agreement upon installation of the software.

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Simultaneous Dual-N Band Wireless Router

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Appendix F

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

END OF SCHEDULE 3

Schedule 4

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This package is an SSL implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with Netscape's SSL.

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END OF SCHEDULE 4