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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Chapter 1: Product Overview

Thank you for choosing the Linksys Compact Wireless-G Broadband Router. The Compact Wireless-G Broadband Router will allow you to network wirelessly better than ever, sharing Internet access, files and fun, easily and securely.

Front Panel

Ethernet 1-4 (Green) 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 connected to a device through that port. A flashing LED indicates network activity over that port.

Wireless (Green) The WIRELESS LED flashes when there is a successful wireless connection.

Internet (Green) The INTERNET LED lights up when there is a connection through the Internet port.

Power (Green) The POWER LED lights up and will stay on while the Router is powered on. When the Router goes through its self-diagnostic mode during every boot-up, this LED will flash. When the diagnostic is complete, the LED will be solidly lit.

Back Panel

- Ethernet 1-4 These ports connect the Router to your networked PCs and other Ethernet network devices.
- Internet The Internet port is where you will connect your broadband Internet connection.
- Power The Power port is where you will connect the power adapter.

Bottom Panel

The Router’s Reset button is located on the bottom panel. To access the button, turn the stand perpendicular to the Router. Use a sharp object like a pencil to push in the button.

Reset There are two ways to reset the Router’s factory defaults. Either press the RESET button, for approximately eight seconds, or restore the defaults from Administration > Factory Defaults in the Router’s Web-based Utility.
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, routers, and gateways, 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 and gateways 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
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. However, 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, Access Restrictions, Applications & Gaming, Administration, and Status. Additional tabs will be available after you click one of the main tabs.

NOTE: When first installing 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, 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.

Internet Setup

The Internet Setup section configures the Router to your Internet connection. Most of this information can be obtained through your 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

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.)
Static IP

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

Internet 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 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 (1 to 3) 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.

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. If your ISP charges you by the amount of time you are connected to the internet, you should use this option.

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 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.

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. If your ISP charges you by the amount of time you are connected to the internet, you should use this option.

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 value is 30 seconds.
L2TP

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

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

Default Gateway This is the IP address of the L2TP Server. Your ISP will provide you with the IP Address you need to specify here.

NOTE: If you are a L2TP client using DHCP, the IP Address must be left to 0.0.0.0, Gateway Address is required.

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. If your ISP charges you by the amount of time you are connected to the internet, you should use this option.

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.

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 or Static IP: **1500**
- PPPoE: **1492**
- PPTP: **1460**
- L2TP: **1452**

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 IP

This presents both the Router’s IP Address and Subnet Mask as seen by your network.

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.
want a DHCP server, then select **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 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 **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 **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 **0 minutes**, which means one day.

**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.

**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.)

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 at one of two DDNS service providers, DynDNS.org or TZO.com. If you do not want to use this feature, keep the default setting, **Disabled**.

**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**

**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.

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

Click **Connect** to establish the DDNS connection.

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

**TZO.com**

**E-mail Address, TZO Password, Domain Name** Enter the settings of the account you set up with TZO.
**Status** The status of the DDNS service connection is displayed here.

**Connect** Click **Connect** to establish the DDNS connection.

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

**Setup > MAC Address Clone**

A MAC address is a 12-digit code assigned to a unique piece of hardware for identification. Some ISPs will require you to register a MAC address 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 have the MAC Address cloned, select **Enabled**.

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

**Clone My 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 routing functions. NAT routes the host Router’s network connection to the Internet. Dynamic Routing automatically adjusts how packets travel on your network. Static Routing sets up a fixed route to another network destination.

**Advanced Routing**

**Operating Mode** Select the mode in which this Router will function. If this Router is hosting your network’s connection to the Internet, select **Gateway**. If another Router exists on your network, select **Router**. When Router is chosen, **Dynamic Routing** will be available as an option.

**Dynamic Routing (RIP)** This option is displayed only if the Operating Mode is set to Router. This settings 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.

**Route Entries** To set up a static route between the Router and another network, select a number from the Static Routing 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 the Delete This Entry button to delete a static route.)

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

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.

Default 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).

Delete This Entry To delete a route, select its number from the drop-down menu, and click this button.

Show Routing Table Click Show Routing Table to open a screen displaying how data is routed through your local network. For each route, the Destination LAN IP address, Subnet Mask, Gateway, and Interface are displayed. Click Refresh to update the information. Click Close to exit this screen.

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 Network

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

Mode From this drop-down menu, you can select the wireless standards running on your network. If you have both 802.11g and 802.11b devices in your network, keep the default setting, Mixed. If you have only 802.11g devices, select Wireless G-Only. If you have only 802.11b devices, select Wireless B-Only. If you do not have any 802.11g and 802.11b devices in your network, select Disabled.

Wireless Network Name (SSID) The SSID is the network name shared among all devices 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 characters (use any of the characters on the keyboard). Make sure this setting is the same for all devices in your wireless network. For added security, you should change the default SSID (linksys) to a unique name.

Wireless Channel Select the channel from the list provided to correspond with your network settings. All devices in your wireless network must be broadcast on the same channel in order to function correctly.

Wireless 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.

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. WPA2 is a more advanced, more secure version of WPA. WEP stands for Wired Equivalent Privacy, and RADIUS stands for Remote Authentication Dial-In User Service.) These six are briefly discussed here. For detailed instructions on configuring wireless security for the Router, 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.
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WPA Personal

Encryption  WPA supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, **TKIP** or **AES**. (AES is a stronger encryption method than TKIP.)

Passphrase  Enter the Passphrase (shared key) used by the Router and your other network devices. It must have 8-63 characters.

Key Renewal  Enter a Key Renewal period, which tells the Router how often it should change the encryption keys. The default Group 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**. (AES is a stronger encryption method than 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 Timeout period is **3600** seconds.

WPA2 Personal

Encryption  WPA2 supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, **AES**, or **TKIP + AES**. The default selection is **AES**.

Passphrase  Enter a WPA Passphrase (shared key) 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 Group 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.)

Encryption  WPA2 supports two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of algorithm, **AES**, or **TKIP + AES**. The default selection is **AES**.

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 Timeout period is **3600** seconds.
RADIUS

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

**IMPORTANT:** If you are using WEP encryption, always remember that 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.

First, choose the Radius settings:

- **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** Select a level of WEP encryption, 64-bit (10 hex digits) or 128-bit (26 hex digits). The default is 64 bit (10 hex digits).

Then, choose the WEP settings:

- **Encryption** Select a level of WEP encryption, 40/64-bit (10 hex digits) or 108/128-bit (26 hex digits). The default is 40/64 bit (10 hex digits).
- **Passphrase** Enter a Passphrase to automatically generate WEP keys. Then click **Generate**.
- **WEP Key 1-4** If you did not enter a Passphrase, enter the WEP key(s) manually.
- **TX Key** Select a Transmit Key (choose which Key to use). The default is 1.

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

Wireless > Wireless MAC Filter

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

WEP

WEP is a basic encryption method, which is not as secure as WPA.
Chapter 3

Advanced Configuration

Wireless MAC Filter

**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** Select this to block wireless access by MAC Address. This button is selected by default.

**Permit** Select this to allow wireless access by MAC Address. This button is not selected by default.

**MAC 01 - MAC 40** Enter the MAC address for each wireless client to be filtered.

**Wireless Client List** Click this to open the Wireless Client List screen. This screen lists network users by MAC Address, to whom you wish to provide or block access. For easy reference, click **Wireless Client List** to display a list of network users by MAC Address.

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**

**Authentication Type** This setting cannot be changed.

**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**.

**Basic Rate** The Basic Rate setting is not actually one rate of transmission but a series of rates at which the Router can transmit. The 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 **Auto**, when the Router can transmit at all standard wireless rates (1-2Mbps, 5.5Mbps, 11Mbps, 18Mbps, and 24Mbps). Other options are **1-2Mbps**, for use with older wireless technology, and **All**, when the Router can transmit at all wireless rates. 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.

**CTS Protection Mode** CTS (Clear-To-Send) Protection Mode should remain disabled unless you are having severe problems with your Wireless-G products not being able to transmit to the Router in an environment with heavy 802.11b traffic. This function boosts the Router's ability to catch all Wireless-G transmissions but will severely decrease performance.

**DTIM Interval** This value, between 1 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 **1**.

**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, **2346**, 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 **2346**.
Beacon Interval  The default value is 100. Enter a value between 20 and 1,000 milliseconds. The Beacon Interval value indicates the frequency interval of the beacon. A beacon is a packet broadcast by the Router to synchronize the wireless network.

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.

Block 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. This feature is selected by default. Deselect this feature to disable it.

Filter Internet NAT Redirection This feature uses port forwarding to block access to local servers from local networked computers. Select Filter Internet NAT Redirection to filter Internet NAT redirection. This feature is not selected by default.

Web Filters Select any web filters that you want to use.

- Proxy If local users have access to WAN proxy servers, they may be able to circumvent the Router’s content filters and access Internet sites blocked by the Router. Proxy filtering will block access to any WAN proxy servers. To enable proxy filtering, click the box in front of this option.

- Java Java is a programming language for websites. If you deny Java, you run the risk of not having access to Internet sites created using this programming language. To enable Java applet filtering, click the box in front of this option.

- ActiveX ActiveX is a programming language for websites. If you deny ActiveX, you run the risk of not having access to Internet sites created using this
programming language. To enable ActiveX filtering, click the box in front of this option.

- Cookies A cookie is data stored on your PC and used by Internet sites when you interact with them. To enable cookie filtering, click the box in front of this option.

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.

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

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

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

**Access Restrictions > Internet Access**

The Access Restrictions > Internet Access screen allows you to block 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** 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. (Policies can be deleted from the Summary screen by selecting the policy or policies and clicking Delete. To return to the Internet Access tab, click Close.)

**Status** Policies are disabled by default. To enable a policy, select the policy number from the drop-down menu, and select Enabled.
To create an Internet Access policy:

1. Select a number from the Internet Access Policy drop-down menu.
2. To enable this policy, select Enabled.
3. Enter a Policy Name in the field provided.
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. Select any Blocked Services or Website Blocking you wish to use.
8. Click Save Settings to save the policy’s settings, or click Cancel Changes to cancel the policy’s settings.

Blocked Services
You can filter access to various services accessed over the Internet, such as FTP or telnet, by selecting services from the drop-down menus next to Blocked Services. (You can block up to 2 services per policy.) Then enter the range of ports you want to filter.

If the service you want to block is not listed or you want to edit a service’s settings, then click Add or Modify.

Port Services
To add a service, enter the service’s name in the Service Name field. Select its protocol from the Protocol drop-down menu, and enter its range in the Port Range fields. Then click Add.

To modify a service, select it from the list. Change its name, protocol setting, or port range. Then click Modify.

To delete a service, select it from the list on the right. Then click Delete.

When you are finished making changes on the Port Services screen, click Save Settings to save the changes. If you want to cancel your changes, click Cancel Changes. To close the Port Services screen and return to the Access Restrictions screen, click Close.

Website Blocking by URL Address
If you want to block websites with specific URL addresses, enter each URL in a separate field next to Website Blocking by URL Address.

Website Blocking by Keyword
If you want to block websites using specific keywords, enter each keyword in a separate field next to Website Blocking by Keyword.

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

**Start ~ End Port** 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.

**To 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 Range Triggering

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

Port Range Triggering

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

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

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

**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 Range 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 must have its DHCP client function disabled and should have a new static IP address assigned to it because its IP address may change when using the DHCP function.

To expose one PC, select Enabled. Then, enter the computer’s IP address in the DMZ Host IP Address field. This feature is disabled by default.

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

Administration > Management

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

Router Password

Local Router Access

Router Password  Enter a new Password for the Router.
Re-enter to confirm  Enter the Password again to confirm.

Web Access

Wireless Access Web  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 Router Access

Remote Management  To access the Router remotely, from outside the network, select Enabled.
Remote Upgrade  Select Enabled to be able to upgrade the firmware remotely from the Internet.
Allow 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 be open to outside access. 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 Disable Internet Access To allow users to disable options from the Windows operating system, click Enabled.

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

Backup and Restore

Click Backup Settings or Restore Settings, then enter the file location, or click Browse to find the settings file you want to backup or restore.

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.

To view a log, click View Log. A new window will appear and you can select the type you want to view: Incoming Log, Outgoing Log, Security Log or DHCP Client Log. On this screen you can click Refresh to see up-to-date information, Clear Log to delete the log or Close to exit the screen.

When you return to the Log 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 network components.

Ping Test

Ping Test The Ping test checks the status of your Internet connection.

To IP or URL Address Enter the IP address or URL that you want to ping.

Packet Size Enter the size, (up to 32 bytes) of the packet to test.

Times to Ping Select the number of times you wish to test the connection, the minimum is 5. Then, click Ping. A new screen will show the test results.

Traceroute Test

Traceroute Test To test the performance of a connection, click Traceroute to open the Traceroute Test screen. This test shows how many hops a packet from your computer takes to reach the Internet, and how long each hop takes.
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, click Restore Factory Defaults. A new screen will appear. Click OK to confirm that you want to reset to the factory defaults. Any settings you have saved will be lost when the default settings are restored.

Administration > Upgrade Firmware

The Administration > Upgrade Firmware 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.


**Firmware Upgrade**

**Please Select a language** Select your language from the drop-down menu. The choices are English (default), French, German, Italian, Spanish, Portuguese, Dutch.

**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.

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

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

**Router Name** This is the specific name for the Router, which you set on the Setup 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**

**Configuration 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.

Example: IP Release or IP Renew buttons appear if you are using DHCP for your connection. Disconnect and Connect buttons appear if you are using PPPoE, PPTP or L2TP.

Click Refresh to update the on-screen information.
Chapter 3

Advanced Configuration

Status > Local Network

The Status > Local Network screen displays the status of your network.

Local Network

MAC Address  This is the Router’s MAC Address, as seen on your local, Ethernet network.

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

Subnet Mask  This shows the current subnet mask being configured for your local network.

DHCP Server  If you are using the Router as a DHCP server, that will be displayed here.

Start IP Address  For the range of IP Addresses used by devices on your local, Ethernet network, the beginning of that range is shown here.

End IP Address  For the range of IP Addresses used by devices on your local, Ethernet network, the end of that range is shown here.

DHCP Client Table

To see assigned IP Addresses, MAC Addresses, Interface or Client Names on the DHCP server, click DHCP Client Table. A new screen will appear. Choose the option to view from the drop down list. Click Refresh to see an up-to-date list or Close to exit the screen.

Status > Wireless

The Status > Wireless screen displays the status of your wireless network.

Wireless

MAC Address  This is the Router’s MAC Address, as seen on your local, wireless network.

Mode  As selected from the Wireless > Basic Wireless Settings screen, this displays the wireless mode (Mixed, G-Only, or Disabled) used by the network.

SSID  As entered on the Wireless > Basic Wireless Settings screen, this displays the wireless network name or SSID.

Channel  As entered on the Wireless > Basic Wireless Settings screen, this displays the channel on which your wireless network is broadcasting.

SSID Broadcast  As entered on the Wireless > Basic Wireless Settings screen, this displays whether SSID Broadcast is enabled or disabled.
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: Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>WRT54GC v3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>IEEE 802.3, IEEE 802.3u,</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11g, IEEE 802.11b</td>
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<tr>
<td>Channels</td>
<td>11 Channels (US, Canada)</td>
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<tr>
<td></td>
<td>13 Channels (most of Europe)</td>
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<tr>
<td>Ports</td>
<td>Internet: One 10/100 RJ-45 Port</td>
</tr>
<tr>
<td></td>
<td>LAN: Four 10/100 RJ-45 Switched Ports</td>
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<tr>
<td></td>
<td>One Power Port</td>
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<tr>
<td>Button</td>
<td>Reset</td>
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<tr>
<td>Cabling Type</td>
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<td>LEDs</td>
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<td>RF Power Output</td>
<td>802.11g: Typical 13 dBm (± 1.5)</td>
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<td></td>
<td>802.11b: Typical 16.5 dBm (± 2)</td>
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<td>UPnP able/cert</td>
<td>Able</td>
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<td>Security Features</td>
<td>Stateful Packet Inspection (SPI)</td>
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<td>Firewall, Internet Policy</td>
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<td>Wireless Security</td>
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<td>Certifications</td>
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<td>Operating Temp.</td>
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<tr>
<td>Storage Temp.</td>
<td>-20 to 70°C</td>
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<tr>
<td>Operating Humidity</td>
<td>10 to 85%, Noncondensing</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>5 to 90%, Noncondensing</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Appendix C: 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 D: 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.

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.

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>Declaration of Conformity</th>
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</thead>
<tbody>
<tr>
<td>Български [Bulgarian]</td>
<td>Това оборудване отговаря на съществените изисквания и приложимите клauзи на Директива 1999/5/EC.</td>
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<tr>
<td>Česky [Czech]</td>
<td>Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.</td>
</tr>
<tr>
<td>Dansk [Danish]</td>
<td>Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.</td>
</tr>
<tr>
<td>English</td>
<td>This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.</td>
</tr>
<tr>
<td>Español [Spanish]</td>
<td>Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/EC.</td>
</tr>
<tr>
<td>Ελληνική [Greek]</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>Íslenska [Icelandic]</td>
<td>Petta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.</td>
</tr>
<tr>
<td>Italiano [Italian]</td>
<td>Questo apparato è conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.</td>
</tr>
<tr>
<td>Lietuvių [Lithuanian]</td>
<td>Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.</td>
</tr>
<tr>
<td>Nederlands [Dutch]</td>
<td>Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.</td>
</tr>
<tr>
<td>Magyar [Hungarian]</td>
<td>Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.</td>
</tr>
<tr>
<td>Norsk [Norwegian]</td>
<td>Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.</td>
</tr>
<tr>
<td>Polski [Polish]</td>
<td>Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczegółowymi warunkami określonymi Dyrektywą UE: 1999/5/EC.</td>
</tr>
<tr>
<td>Português [Portuguese]</td>
<td>Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Diretiva 1999/5/EC.</td>
</tr>
<tr>
<td>Română [Romanian]</td>
<td>Acest echipament este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Direcției 1999/5/EC.</td>
</tr>
<tr>
<td>Slovensko [Slovenian]</td>
<td>Toto zariadenie je v zhode so základnými požiadavkami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.</td>
</tr>
<tr>
<td>Slovensky [Slovak]</td>
<td>Táma laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.</td>
</tr>
<tr>
<td>Svenska [Swedish]</td>
<td>Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.</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.
Appendix D

Regulatory Information

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 0560

or

CE 0678

or

CE 0336

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 transposée 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 seguo 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.

I 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 2.4GHz. Consultez http://www.arcep.fr/ pour de plus amples détails.

<table>
<thead>
<tr>
<th>Location</th>
<th>Frequency Range (MHz)</th>
<th>Power (EIRP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor (No restrictions)</td>
<td>2400-2483.5</td>
<td>100 mW (20 dBm)</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).
User Information for Consumer Products

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

![WEEE Symbol]

English - Environmental Information for Customers in the European Union

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

Dansk (Danish) - Miljøinformation for kunder i EU


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


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

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

Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/EC изисква уредите, носещи този символ върху изделието и/или опаковката му, да не се изхвърлят с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от смесованите битови отпадъци. Вашата е отговорността този и другите електрически и електронни уреди да се изхвърлят в предварително определени от държавните или общински органи специализирани пунктове за събиране. Правилното изхвърляне и рециклиране ще помогнат да се предотвратят евентуални вреди за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашия стар или магазина, от който сте закупили уреда.
Appendix D
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 deshacerse de 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 deshacerse 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 pregunte 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 ∅ στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα άλλα σταθμισμένα αστικά απορρίμματα. Το σύμβολο υποδηλώνει ότι αυτό το προϊόν θα πρέπει να απορριπτείται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παλαιού εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες αποκομιδής απορριμάτων ή το κατάστημα από υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη ενδεχόμενων αρνητικών επιπτώσεων στο περιβάλλον και την υγεία. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη οι οποίες ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές.

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 néfaste 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 ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il reciclaggio aiuteranno 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 jurisdikcijā

Nederlands (Dutch) - Milieuvorming voor klanten in de Europese Unie

De Europese Richtlijn 2002/96/EC schrijft voor dat apparatuur die is voorzien van dit symbool bij 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.

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

Dyrektywa Europejska 2002/96/EC wymaga, aby sprzęt oznaczony symbolem nie 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 wyrzucanych przez władze krajowe lub lokalne. Pozbywanie się sprzętu we właściwych punktach pozwoli 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, czy agencji zajmujących się tymi kwestiami.

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

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csomagolásán az alábbi címke megjelenik, tilos a többi szelektálatlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kidobásakor 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 megfelelően hulladékfeldolgozás segítségével győződhet. A megfelelő hulladékfeldolgozásért a kormányzati vagy a helyi hatóságok által kifejezett kötelezettségek mellett számlázza fel. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérelje meg a kapcsolatba lépő szolgáltató vagy azzal üzlettel, ahol a terméket vásárolta.

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


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

Europos direktyva 2002/96/EC numato, kad įrangos, kurių ir ūkio pakuotė yra pažeista šiuo simboliu (iveskite simbolį), negalima šališkai kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simboliškai, kad gaminį reikia atskirtai nuo bendro buitinio atliekų sukties. Žiūrėkite priežiūrėjų užtikrinti, kad ši įrankio ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytais atliekų rinkimui. Tinkamai šalinti ir perdirbant atliekas, bus išvengta tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimo ūkio. Šis simbolis rodo, kad gaminį reikia šalinti atskirai nuo bendro buitinio atliekų sukties. Žiūrkite priežiūrėjų užtikrinti, kad ši įrankio ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimui.
Appendix D
Regulatory Information

Português (Portuguese) - Informação ambiental para clientes da União Europeia

A Diretiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo na 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 eletrónico através das instalações de recolha designadas pelas autoridades governamentais ou locais. A eliminação e reciclagem corretas 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 symbolom na produkte a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať odoloľšenému domácnosti. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom specializovaných zbieraných zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie lúdi. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaobľracie sa likvidáciou odpadov alebo obchod, v ktorom 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 oddate 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, odlagališč odpadkov ali trgovino, kjer ste izdelek kupili.

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

EU-direktiivi 2002/96/EY edellyttää, että jos laitteistossa on tämä symboli itse tuotteessa ja/tai sen pakkaussessa, laitteistoa ei saa hävittää laittelemattoman yhdyskuntajätteen mukana. Symboli merkitsee sitä, että tämä tuote on hävitettävä erillään tavallisesta kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektronikkatuote ja muut vastaavat elektronikkatuotteet viemällä tuote tai tuotteet viranomaisten määräämään keräyspisteeseen. Laitteiston oikea hävittäminen estää mahdolliset kielteiset vaikutukset ympäristöön ja ihmisten terveyteen. Lisätietoja vanhan laitteiston oikeasta hävitystavasta saa paikallisilta viranomaisilta, jätteenhavittajilta tai siitä myymälästä, josta ostit tuotteen.

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Compact Wireless-G Broadband Router

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END OF SCHEDULE 3

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

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