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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 Wireless-G Broadband Router. The Router lets you access the Internet via a wireless connection, broadcast at up to 54 Mbps, or through one of its four switched ports. You can also use the Router to share resources such as computers, printers and files. A variety of security features help to protect your data and your privacy while online. Security features include WPA2 security, a Stateful Packet Inspection (SPI) firewall and NAT technology. Configuring the Router is easy using the provided browser-based utility.

Front Panel

SecureEasySetup (Orange/White) The Cisco logo is the Router’s SecureEasySetup button. It lights up and will stay orange when the Router is powered on. The color orange indicates that the Router is not using the SecureEasySetup feature, while the color white indicates that the Router is using the SecureEasySetup feature. When the Router enters SecureEasySetup mode, the Cisco logo will turn white and start flashing. After the Router has generated the SSID and WPA Personal key, the Cisco logo will stop flashing and stay white.

To clear the SSID and WPA Personal key, press and hold down the Cisco logo for five seconds. The Cisco logo will flash slowly as the Router resets itself. The Cisco logo will turn orange to indicate a successful reset.

NOTE: SecureEasySetup is a feature that makes it easy to set up your wireless network. If you have SecureEasySetup devices, run the Router’s Setup Wizard CD-ROM and follow the on-screen instructions to use SecureEasySetup.

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.

DMZ (Green) The DMZ LED indicates when the DMZ function is being used. This LED will remain lit as long as DMZ is enabled.

WLAN (Green) The WLAN LED lights up when the wireless feature is enabled. If the LED is flashing, the Router is actively sending or receiving data over the network.

1, 2, 3, 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 successfully connected to a device through that port. A flashing LED indicates network activity over that port.

Internet (Green) The Internet LED lights up when there is a connection made through the Internet port. A flashing LED indicates network activity over the Internet port.

Back Panel

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.

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.

Power The Power port is where you will connect the power adapter.
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. Currently, devices that are Wi-Fi certified are required to support WPA2, but are not required to support WEP.

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. 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.

Setup > Basic Setup

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

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.

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

Service Name  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.

PPPoE

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.

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.

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.

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

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.

Optional Settings

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

Router Name  In this field, you can enter a name of up to 39 characters to represent the Router.

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

MTU  MTU is the Maximum Transmission Unit. It specifies the largest packet size permitted for Internet transmission. Select Manual if you want to manually enter the largest packet size that is transmitted. To have the Router select the best MTU for your Internet connection, keep the default setting, Auto.

Size  When Manual is selected in the MTU field, this option is enabled. Leave this value in the 1200 to 1500 range. The default size depends on the Internet Connection Type:

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

The Network Setup section changes the settings on the network connected to the Router’s Ethernet ports. Wireless Setup is performed through the Wireless tab.

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.

**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 **Disable** (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.

**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.

**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 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, **Disable**.

**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.
Chapter 3

Advanced Configuration

DynDNS.org

System Select the DynDNS service you use: Dynamic, Static, or Custom. The default selection is Dynamic.

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.

Mail Exchange (Optional) Enter the address of your mail exchange server, so e-mails to your DynDNS address go to your mail server.

Backup MX This feature allows the mail exchange server to be a backup. To disable this feature, keep the default, No. To enable the feature, select Yes. If you are not sure which setting to select, keep the default, No.

Wildcard This setting enables or disables wildcards for your host. For example, if your DDNS address is myplace.dyndns.org and you enable wildcards, then x.myplace.dyndns.org will work as well (x is the wildcard). To disable wildcards, keep the default, Off. To enable wildcards, select On. If you are not sure which setting to select, keep the default, Off.

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.

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

TZO.com

E-mail Address, 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.

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

Enable/Disable To have the MAC Address cloned, select Enable.

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.
Chapter 3

Advanced Configuration

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**

**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 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. From the drop-down menu, you can also select **LAN & Wireless**, which performs dynamic routing over your Ethernet and wireless networks. You can also select **WAN (Internet)**, which performs dynamic routing with data coming from the Internet. Selecting **Both** enables dynamic routing for both networks, as well as data from the Internet.

**Static Routing**

**Select set 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.

**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)**.

Click **Show Routing Table** to view the Static Routes you have already set up.

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

**Wireless > Basic Wireless Settings**

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

**Wireless Network 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 **G-Only**. If you have only 802.11b devices, select **B-Only**. If you do not have any 802.11g and 802.11b devices in your network, select **Disable**.

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

**Wireless Channel** Select the appropriate channel from the list provided to correspond with your network settings. All devices in your wireless network must use the same channel in order to communicate.

**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, **Enable**. If you do not want to broadcast the Router’s SSID, then select **Disable**.

**SecureEasySetup** If you did not utilize this network connection feature during the Setup Wizard, you may use it here by clicking the green logo. When you are prompted to start the push button setup, click **OK**.

**Reset Security** Use this button to reset the security settings on your network. You will need to run SecureEasySetup again on each device on your network to re-associate it with your network.

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. WEP stands for Wired Equivalent Privacy, while 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**.

**WPA Personal**

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

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

**WPA Shared Key** Enter a WPA Shared Key of 8-63 characters.

**Group Key Renewal** Enter a Group Key Renewal period, which instructs 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.)
Security Mode > WPA Enterprise

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

Security Mode > WPA2 Enterprise

**WPA Algorithm** 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 **TKIP + AES**.

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

WPA2 Personal

**WPA Algorithm** 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 **TKIP + AES**.

**WPA Shared Key** Enter a WPA Shared Key of 8-63 characters.

**Group Key Renewal** Enter a Group Key Renewal period, which instructs the Router how often it should change the encryption keys. The default Group Key Renewal 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.)
Chapter 3

Advanced Configuration

**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.

**RADIUS Server Address** 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.

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

**WEP 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.

**WEP**

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

**Wireless > Wireless MAC Filter**

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

**Wireless MAC Filter**

- **Wireless MAC Filter** To filter wireless users by MAC Address, either permitting or blocking access, click **Enable**. If you do not wish to filter users by MAC Address, keep the default setting, **Disable**.
- **Prevent** Select this to block wireless access by MAC Address. This button is selected by default.
- **Permit Only** Select this to allow wireless access by MAC Address. This button is not selected by default.
- **Edit MAC Filter List** Click this to open the **MAC Address Filter List** screen. On this screen, you can list users, by MAC Address, to whom you wish to provide or block access. For easy reference, click **Wireless Client MAC 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 Settings

**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 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 Default, 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.

**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-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.

**Frame Burst**  Enabling this option should provide your network with greater performance, depending on the manufacturer of your wireless products. To turn on the Frame Burst option, select Enable. The default is Disable.

**Beacon Interval**  The default value is 100. Enter a value between 1 and 65,535 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.

**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, 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.

**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 On. AP Isolation is turned Off by default.

**SecureEasySetup**  This feature allows you to enable or disable the SecureEasySetup feature. Select Disabled to disable the feature and turn off the button’s light. The feature is Enabled by default.

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

Firewall Protection  To use firewall protection, keep the default selection, Enable. To turn off firewall protection, select Disable.

Block WAN Requests

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.

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

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, Enable.

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, Enable.

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, Enable.

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 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 Enable.

To create an Internet Access policy:

1. Select a number from the Internet Access Policy drop-down menu.
2. To enable this policy, select Enable.
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 20 services.) 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/Edit Service. Then the Port Services screen will appear.
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 on the right. 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 Apply to save the changes. If you want to cancel your changes, click Cancel. 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 Forward

The Applications & Gaming > Port Range Forward 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 Forward
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.

Enable Select Enable 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.

Enable  Select Enable 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 Enable. 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.

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.

There are three types of QoS available: Device Priority, Ethernet Port Priority, and Application Priority.

Wired QoS

Enable/Disable  To enable QoS, select Enable. Otherwise, select Disable. QoS is disabled by default.

Upstream Bandwidth  Select Auto or Manual from the drop-down menu. Manual allows you to specify the maximum outgoing bandwidth that applications can utilize.

Device Priority

Enter the name of your network device in the Device name field, enter its MAC Address, and then select its priority from the drop-down menu.

Ethernet Port Priority

Ethernet Port Priority QoS allows you to prioritize performance for the Router’s four ports, LAN Ports 1-4. For each port, select the priority and flow control setting.
**Priority** Select **High** or **Low** in the Priority column. The Router’s four ports have been assigned low priority by default.

**Flow Control** If you want the Router to control the transmission of data between network devices, select **Enabled**. To disable this feature, select **Disabled**. Ethernet Port Priority QoS does not require support from your ISP because the prioritized ports LAN ports 1-4 are in your network. This feature is enabled by default.

**Application Priority**

Application Priority QoS manages information as it is transmitted and received. Depending on the settings of the QoS screen, this feature will assign information a high or low priority for the applications that you specify.

**Optimize Gaming Applications** Select this to automatically allow common game application ports to have a higher priority. These games include, but are not limited to: Counter-Strike, Half-Life, Age of Empires, Everquest, Quake2/Quake3, and Diablo II. The default setting is unselected.

**No Acknowledgement** This feature prevents the Router from re-sending data if an error occurs. To use this feature, select **Enabled**. Otherwise, keep the default, **Disabled**.

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

**Wireless QoS**

**WMM Support** Wi-Fi Multimedia (WMM), formerly known as Wireless Multimedia Extensions (WME), is a Wi-Fi Alliance certified feature, based on the IEEE 802.11e standard. This feature provides QoS to wireless networks. It is especially suitable for voice, music and video applications; for example, Voice over IP (VoIP), video streaming, and interactive gaming. If you have other devices on your wireless network that support WMM, select **Enabled**. Otherwise, keep the default, **Disabled**.

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

**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**

**Access Server** 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 **HTTP** or **HTTPS**. The default selection is HTTP.

**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, **Enable**, to enable wireless access to the Router’s web-based utility, or select **Disable** to disable wireless access to the utility.

**Remote Router Access**

**Remote Management** To access the Router remotely, from outside the network, select **Enable**.

**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.

**Use https** To require the use of HTTPS for remote access, select this feature.

**UPnP**

**UPnP** Keep the default, **Enable** to enable the UPnP feature; otherwise, select **Disable**.

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

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

When you wish to view the logs, click Incoming Log or Outgoing Log, depending on which you wish to view.

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

The Ping test checks the status of a connection. Click Ping to open the Ping Test screen. Enter the address of the PC whose connection you wish to test and how many times you wish to test it. Then, click Ping. The Ping Test screen will show if the test was successful. To stop the test, click Stop. Click Clear Log to clear the screen. 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. To stop the test, click Stop. Click Clear Log to clear the screen. 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 Yes, and then click Save Settings. 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.

Administration > Config Management

This screen is used to back up or restore the Router’s configuration file.

Backup Configuration

To back up the Router’s configuration file, click Backup. Then follow the on-screen instructions.

Restore Configuration

Please select a file to restore Click Browse and select the configuration file. Then click Restore.

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.

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 Clients Table  Clicking this button will open a screen to show you which PCs are utilizing the Router as a DHCP server. You can delete PCs from that list, and sever their connections, by checking a Delete box and clicking the Delete button.

DHCP Clients Table

Click Refresh to update the on-screen information.

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.

DHCP Server  The status of the DHCP server function is displayed here.

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

Encryption Function  As selected on the Wireless > Wireless Security screen, this displays the status of the Router’s wireless security.

Click Refresh to update the on-screen information.
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, insert the setup CD into your computer, and then 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, insert the setup CD into your computer, and then 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, leave the User name field blank and 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>WRT54GL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>IEEE 802.3, IEEE 802.3u, IEEE 802.11g, IEEE 802.11b</td>
</tr>
<tr>
<td>Channels</td>
<td>11 Channels (US, Canada), 13 Channels (Europe, Japan)</td>
</tr>
<tr>
<td>Ports</td>
<td>Internet: One 10/100 RJ-45 Port, LAN: Four 10/100 RJ-45 Switched Ports, One Power Port</td>
</tr>
<tr>
<td>Button</td>
<td>Reset, SecureEasySetup</td>
</tr>
<tr>
<td>Cabling Type</td>
<td>CAT5</td>
</tr>
<tr>
<td>LEDs</td>
<td>Power, DMZ, WLAN, LAN (1-4), Internet, SecureEasySetup</td>
</tr>
<tr>
<td>RF Power Output</td>
<td>18 dBm</td>
</tr>
<tr>
<td>UPnP able/cert</td>
<td>Able</td>
</tr>
<tr>
<td>Security Features</td>
<td>Stateful Packet Inspection (SPI), Firewall, Internet Policy</td>
</tr>
<tr>
<td>Wireless Security</td>
<td>Wi-Fi Protected Access™2 (WPA2), WEP, Wireless MAC Filtering</td>
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</table>

**Environmental**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>186 x 48 x 154 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>391 g</td>
</tr>
<tr>
<td>Power</td>
<td>External, 12V DC, 0.5A</td>
</tr>
<tr>
<td>Certifications</td>
<td>FCC, IC-03, CE, Wi-Fi (802.11b, 802.11g), WPA2, WMM</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0 to 40ºC</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-20 to 70ºC</td>
</tr>
<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>
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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TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL LINKSYS BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT (INCLUDING ANY SOFTWARE), EVEN IF LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL LINKSYS’ LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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.

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 devraient être choisis de façon à ce que la puissance isotrope 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>Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Български (Bulgarian)</td>
<td>Това оборудване отговаря на съществените изисквания и приложими клуази на Директива 1999/5/EC.</td>
</tr>
<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>Deutsch (German)</td>
<td>Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.</td>
</tr>
<tr>
<td>Eesti (Estonian)</td>
<td>See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.</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/CE.</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>Français (French)</td>
<td>Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.</td>
</tr>
<tr>
<td>Iceland (Icelandic)</td>
<td>Petta tæki er samkvæmt grunnkröfum og öðrum vídeigandi 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>Latvies (Latvian)</td>
<td>Šī iekārta atbilst Direktivas 1999/5/EK būtiskajām prasībām un citiem ar to saistījām noteikumiem.</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>Malti (Maltese)</td>
<td>Dan l-apparat huwa konformi mal-htigiet essenzjali u l-provendimenti l-ohra rilevanti tad-Direttiva 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 szczególnymi 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 Directiva 1999/5/EC.</td>
</tr>
<tr>
<td>Română (Romanian)</td>
<td>Acest echipament este în conformitate cu cerințele esentiale și cu alte prevederi relevante ale Directivei 1999/5/EC.</td>
</tr>
<tr>
<td>Slovenko (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>Toto zariadenie je v zhode so základnými požiadavkami inostrónym Diafraktom 1999/5/EC.</td>
</tr>
<tr>
<td>Suomi (Finnish)</td>
<td>Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetetujen muiden laitetta koskevien määräysten mukainen.</td>
</tr>
<tr>
<td>Svenska (Swedish)</td>
<td>Denna utrustning är i överensstämme 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** 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.

- 0560
- 0678
- 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 transposés 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.

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.

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 (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).

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
User Information for Consumer Products
Covered by EU Directive 2002/96/EC on
Waste Electric and Electronic Equipment
(WEEE)

This document contains important information for users regarding 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 \( \square \) 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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Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/ЕС изисква уредите, носещи този символ \( \square \) върху изделието и/или опаковката му, да не се изхвърлят с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от смесът от битови отпадъци. Ваша 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 уред се обърнете към местните власти, службите за смесътъръбиране или магазина, от който сте закупили уреда.

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


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

Evropská směrnice 2002/96/ES zakazuje, aby zařízení označené tímto symbolem \( \square \) 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 pro přístroji s určenými sběrnými místy stanovenými vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabývajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

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Dansk (Danish) - Miljøinformation for kunder i EU

Appendix D

Regulatory Information

French (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 \( \mathbb{X} \) 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/CE richiede che le apparecchiature contrassegnate con questo simbolo \( \mathbb{X} \) 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 riciclaggio 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

Direktīvā 2002/96/EK ir prasība, ka aprikojumu, kam pievienota zīme \( \mathbb{X} \) uz pašu izstrādājuma vai uz tā iesainojuma, nedrīkst izmest nešķirētā veidā kopā ar komunālākiem atkritumiem (tiem, ko rada vietiēji iedzīvotāji un uzņēmumi). Tās īstnieks ir viens un citas elektriskas un elektroniskas ierīces izmest atkritumos tā, lai tai nenonāktu kopā ar parastiem mājsaimniecības atkritumiem. Jūsu pienākums ir to nodrošināt, lai tie attālumi un citas elektroniskas ierīces izmest atkritumos jūs varat saņemt vieta veikalu, tad mazinās iespējamais kaitējums dabai un cilvēku veselībai. Sīkākas ziņas par novēcojušā aprikojuma izmešanu atkritumos jūs varat saņemt vieta veikalu, atkritumu savāksanas dienestā, kā arī veikalā, kur iegādājāties šo izstrādājumu.
Appendix D
Regulatory Information

European Union (European) - Compliance Information

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

Lietuvių (Lithuanian) - Plėtros informacija

Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

Europos direktyva 2002/96/EC numato, kad įrankio, kuris ir Ž kurios pakuotė yra pažymėta šiuo simboliu (ieskite simbolį), negalima šalinti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad įrankio reikia atskirai nuo bendro buitinio atliekų srauto. Jūs privalote užtikrinti, kad ši įrankio elektros ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimą sistemas. Tinkamai šalinant ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiausiai informacijos apie jūsų senos įrankio šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybos arba parduotuvės, kuriose įsigijote šį įrankį.

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


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

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

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Norwegian (Norwegian) - Miljøinformasjon for kunder i EU


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

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Regulatory Information

Appendix D

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

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


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


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


Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen


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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Appendix E

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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 SCHEDULE 3

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

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