

**LINKSYS**<sup>®</sup> by Cisco



USER GUIDE

# Wireless-G Ethernet Bridge

Model: WET54G (EU)



# About This Guide

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## 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.

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

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

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## 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.

Resource	Website
Linksys	www.linksys.com
Linksys International	www.linksys.com/international
Glossary	www.linksys.com/glossary
Network Security	www.linksys.com/security

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# Chapter 1: Product Overview

Thank you for choosing the Wireless-G Ethernet Bridge. The versatile Wireless-G Ethernet Bridge can make any wired Ethernet-equipped device a part of your wireless network. At home, use the Bridge to connect game consoles, set-top boxes, or computers to your Wireless-G network and its shared high-speed Internet connection. In the office, convert your Ethernet-wired printer, camera, notebook or desktop into a wireless networked device.

## Front Panel



**Power** (Green) This LED lights up when the Bridge is powered on. The LED flashes while the Bridge is booting up and performing a self-test, and remains lit after the self-test has ended.



**Ethernet** (Green) This LED will be lit steadily when the Bridge is connected to the wired network. The LED will flash when there is wired network traffic.



**Wireless-G** (Green) This LED will be lit steadily when the Bridge is connected to the wireless network. The LED will flash when there is wireless network traffic.

## Back Panel



**Reset** When pressed, the Reset button resets the Bridge to its factory default settings.



**LAN** The LAN port is where you will connect the Ethernet network cable.



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



**NOTE:** If you reset the Wireless-G Ethernet Bridge, you will erase all of your settings (WEP encryption, wireless settings, etc.) and replace them with the factory defaults. Do not reset the Wireless-G Ethernet Bridge if you want to retain these settings.

## 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](http://www.linksys.com/security)

## Chapter 3: Configuration using the Web-based Utility

The Bridge is designed to function properly after you configure it using the Setup Wizard. However, if you would like to change these basic settings or make advanced configuration changes, use your web browser and the Wireless-G Ethernet Bridge Web-based Utility. This chapter explains how to use the Utility.

### How to Access the Web-Based Utility

1. Open your web browser, and enter the IP address of the Wireless-G Ethernet Bridge (the default is **192.168.1.226**) in the browser's *Address* field. Then press **Enter**.



Internet Explorer Address Bar

2. The *Password* screen will appear. In lowercase letters, enter the default password, **admin**, in the *Password* field. Click **OK**. You can set a new password on the *Password* screen later.

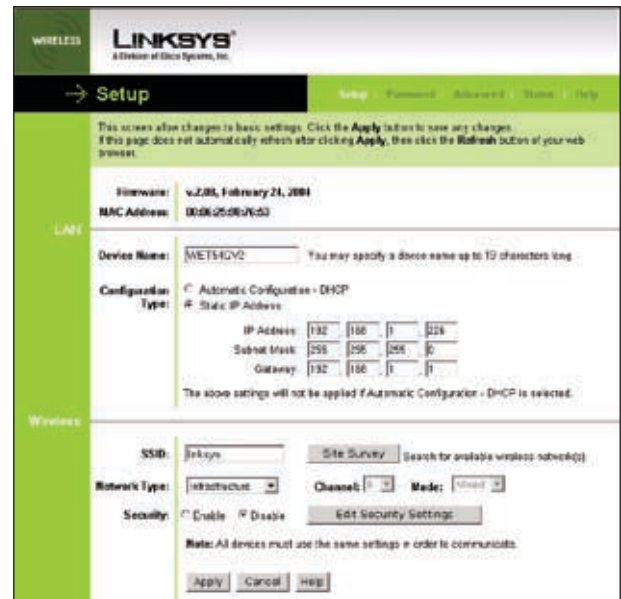


Password Screen

3. The utility's *Setup* screen will appear. The Utility provides a convenient, web-browser-based way to alter the Bridge's settings. It offers five main tabs
  - **Setup** - Enables you to configure the IP address and wireless settings.
  - **Password** - Allows you to change the password or reset all settings to factory defaults.
  - **Advanced** - Lets you change the advanced wireless settings and clone a MAC address onto the Bridge.
  - **Status** - Displays the Bridge's current settings.
  - **Help** - Provides explanations of various configuration settings and links to online technical support resources. You can also upgrade the Bridge's firmware using the Help screen.

### Setup Tab

The *Setup* screen lets you configure the wired and wireless network settings for the Bridge.



Setup

**Firmware** The version number of the Bridge's firmware is displayed here. Firmware should be upgraded **ONLY** if you experience problems with the Bridge. Firmware updates are posted at [www.linksys.com](http://www.linksys.com).

**MAC Address** The Bridge's MAC address is displayed here.

### LAN

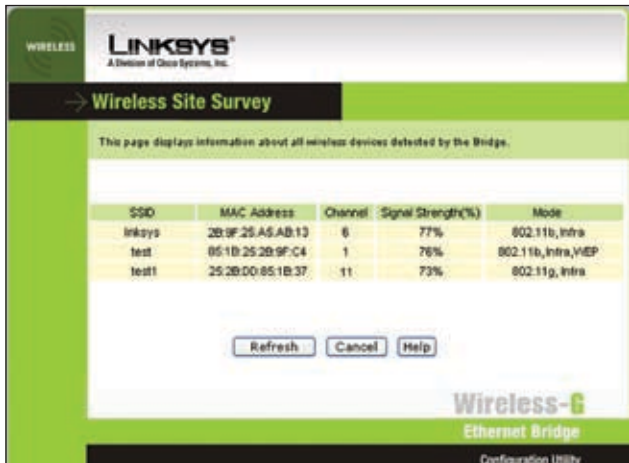
**Device Name** You may assign any name to the Bridge. Unique, memorable names are helpful, especially if you are using multiple bridges on the same wireless network.

**Configuration Type** If the Bridge will obtain an IP address automatically from a DHCP server, such as a router, then select **Automatic Configuration-DHCP**. If you are assigning the Bridge a static IP address, then select **Static IP Address**, and enter an IP Address, Subnet Mask, and Gateway address in the *IP Address*, *Subnet Mask*, and *Gateway* fields.

### Wireless

**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 alphanumeric characters (A-Z, a-z, 0-9; do not use spaces). Make sure this setting is the same for all devices in your wireless network. For added security, Linksys recommends that you change the default SSID (linksys) to a name of your choice.

**Site Survey** To search for available wireless networks, click **Site Survey**. The *Wireless Site Survey* screen will appear. This screen shows all the wireless networks detected by the Bridge and their general information. You can use this screen to connect to one of these networks.



Wireless Site Survey

For each wireless network detected, the following information is displayed:

- **SSID** The network name. To join a wireless network, click its SSID.
- **MAC Address** The MAC address of the network's access point.
- **Channel** The channel setting.
- **Signal Strength (%)** The percentage of wireless signal strength.
- **Mode** The type of wireless standard, network mode, and status of WEP encryption.

Click **Refresh** to obtain the most up-to-date data. Click **Cancel** to close this screen. Click **Help** for additional on-screen information.

**Network Type** Choose a wireless operating mode for the Bridge. Keep the default setting, **Infrastructure**, if you want your wireless-equipped device to communicate with computers and other devices on your wired network using a wireless access point. Select **Ad-Hoc** if you want multiple wireless-equipped devices to communicate directly with each other.

If you chose Ad-Hoc mode, then select the correct operating channel for your network from the *Channel* drop-down menu. This should match the channel setting of the other devices in your wireless network.

Select the appropriate network mode from the *Mode* drop-down menu. Keep the default, **Mixed**, if you have Wireless-G (802.11g) and Wireless-B (802.11b) devices in your network. Select **G-Only** if you have only Wireless-G devices in your network

**Security** To enable security, select **Enable**, then click **Edit Security Settings**. To disable security, select **Disable**. If you have not enabled security before clicking **Edit Security Settings**, you will be asked if you want to enable security settings; click **OK** to edit the security settings, or click **Cancel** to cancel.



Enable Security Settings

If you click **Edit Security Settings**, the *Security* screen will appear.



Security

From the *Security Mode* drop-down menu, select one of the four wireless security modes supported by the Bridge:

- WPA (Wi-Fi Protected Access) Pre-Shared Key
- WPA RADIUS
- RADIUS (Remote Authentication Dial-In User Service)
- WEP (Wired Equivalent Privacy)

WPA is a security standard stronger than WEP encryption. The four security modes are briefly discussed here. For detailed instructions on configuring wireless security for the Bridge, refer to the "Wireless Security" chapter.

## WEP

Use the *WEP* screen to configure the WEP encryption for the Bridge.



Security > WEP

Select a *Default Transmit Key* (choose which Key to use), and a level of *WEP Encryption*, **64 bits (10 hex digits)** or **128 bits (26 hex digits)**. Then either generate a WEP Key using a *Passphrase* or enter the WEP key manually.

**Default Transmit Key** Select which WEP key (1-4) will be used when the Bridge sends data. Make sure the other wireless-equipped devices are using the same key.

**WEP Encryption** In order to use WEP encryption, select **64-Bit (10 hex digits)** or **128-Bit (26 hex digits)** from the drop-down menu.

**Passphrase** Instead of manually entering WEP keys, you can enter a Passphrase. This Passphrase is used to generate one or more WEP keys. It is case-sensitive and should not be longer than 16 alphanumeric characters. (The Passphrase function is compatible with Linksys wireless products only. If you want to communicate with non-Linksys wireless products, you will need to enter your WEP key manually on the non-Linksys wireless products.) After you enter the Passphrase, click **Generate** to create WEP key(s).

**Keys 1-4** If you are not using a Passphrase, then you can enter one or more WEP keys manually.

In each key field, manually enter a set of values. (Do not leave a key field blank, and do not enter all zeroes. These are not valid key values.) If you are using 64-bit WEP encryption, then each key must consist of exactly 10 hexadecimal characters in length. If you are using 128-bit

WEP encryption, then each key must consist of exactly 26 hexadecimal characters in length. Valid hexadecimal characters are "0"-"9" and "A"-"F".

Click **Apply** to save your changes. If your page does not automatically refresh itself, then click **Refresh** on your web browser.

## WPA Pre-Shared Key

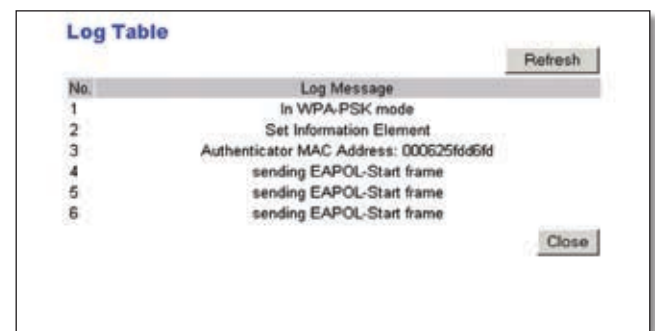
WPA gives you TKIP for the encryption method.



Security > WPA Pre-Shared Key

**WPA Shared Key** Enter a WPA Shared Key of 8-32 characters. This is a key shared between the Bridge and the server.

**View Log** Click **View Log** to display the *Log Table* screen. This screen displays a log of the authentication process.



Log Table

Click **Refresh** to refresh the *Log Table* screen. Click **Close** to return to the the *WPA Pre-Shared Key* screen.

Click **Apply** to save your changes. If your page does not automatically refresh itself, then click **Refresh** on your web browser.

## 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.) It offers three authentication methods: MD5, TLS, and TTLS.

**EAP Type** Select the authentication method: MD5, TLS, or TTLS. The appropriate screen appears depending on the selection. The screens are described below.

### MD5

Security > RADIUS-MD5

Select a Default Key (choose which Key to use), and a level of WEP encryption, **64 bits 10 hex digits** or **128 bits 26 hex digits**. Then either generate a WEP key using a Passphrase or enter the WEP key manually.

**Default Transmit Key** Select which WEP key (1-4) will be used when the Bridge sends data. Make sure that the receiving device (wireless client) is using the same key.

**WEP Encryption** An acronym for Wired Equivalent Privacy, WEP is an encryption method used to protect your wireless data communications. WEP uses 64-bit or 128-bit keys to provide access control to your network and encryption security for every data transmission. To decode data transmissions, all devices in a network must use an identical WEP key. Higher encryption levels offer higher levels of security, but due to the complexity of the encryption, they may decrease network performance. Select **64 bits (10 hex digits)** or **128 bits (26 hex digits)**.

**Passphrase** Instead of manually entering WEP keys, you can enter a passphrase. This passphrase is used to generate one or more WEP keys. It is case-sensitive and

should not be longer than 32 alphanumeric characters. (This Passphrase function is compatible with Linksys wireless products only and cannot be used with Windows XP Zero Configuration. If you want to communicate with non-Linksys wireless products or Windows XP Zero Configuration, make a note of the WEP key generated in the Key 1 field, and enter it manually in the wireless client.) After you enter the Passphrase, click **Generate** to create WEP keys.

**Keys 1-4** WEP keys enable you to create an encryption scheme for wireless network transmissions. If you are not using a Passphrase, then manually enter a set of values. (Do not leave a key field blank, and do not enter all zeroes; they are not valid key values.) If you are using 64-bit WEP encryption, the key must be exactly 10 hexadecimal characters in length. If you are using 128-bit WEP encryption, the key must be exactly 26 hexadecimal characters in length. Valid hexadecimal characters are "0"- "9" and "A"- "F".

**User ID and Password** A user identification and password are required for your security. Enter the ID in the User ID field, then the password in the Password field.

Click **Apply** to save your changes. If your page does not automatically refresh itself, then click **Refresh** on your web browser. Click **View Log** to view a log.

### TLS

TLS is a mutual authentication method that uses digital certificates.

Security > RADIUS-TLS

Enter the Login name of your wireless network in the *User ID* field. Enter the User Certificate and Root Certificate in

the fields or click **Browse** to browse for it, then upload it.

**User ID** Your User ID is the Login name of your wireless network. Enter the Login name of your wireless network in the User ID field.

**User Certificate** Enter the user certificate you have installed to authenticate you on your wireless network or click the Browse button to browse for it. Click the Upload button to upload the certificate.

**Root Certificate** Enter the root certificate you have installed to authenticate you on your wireless network or click the Browse button to browse for it. Click the Upload button to upload the certificate.

Click **Apply** to save your changes. If your page does not automatically refresh itself, then click **Refresh** on your web browser. Click **View Log** to view a log.

## TTLS

TTLS is a mutual authentication method that uses digital certificates.



Security > RADIUS-TTLS

Enter the Login name of your wireless network in the *User ID* field and the password in the *Password* field. Enter the *Root Certificate* in the field or click **Browse** to browse for it, then upload it.

**EAP Type** The authentication method that your network uses. Select **TTLS** from the drop-down menu.

**User ID** Your User ID is the Login name of your wireless network. Enter the Login name of your wireless network in the *User ID* field.

**Password** This is the password used for your wireless network. Enter the password in the *Password* field.

**Root Certificate** Enter the root certificate you have installed to authenticate you on your wireless network or click **Browse** to browse for it. Click **Upload** to upload the certificate.

Click **Apply** to save your changes. If your page does not automatically refresh itself, then click **Refresh** on your web browser. Click **View Log** to view a log.

To save your changes, click **Apply**. Click **Cancel** to cancel your changes. Click **Help** for additional on-screen information.

## Password Tab

The *Password* screen lets you change the Bridge's Password and restore the factory default settings.



Password

**Administrative Password** It is strongly recommended that you change the factory default password of the Bridge from **admin** to a new password that you create. All users who try to access the Bridge's Web-based Utility will be prompted for the Bridge's Password. The new Password must not exceed 12 characters in length and must not include any spaces. Enter the new Password a second time to confirm it.



**NOTE:** Any settings you have saved will be lost if the default settings are restored.

**Restore Factory Defaults** Click **Yes** to reset all configuration settings to their default values. If you do not want to restore the factory defaults, then keep the default setting, **No**.

To save your changes, click **Apply**. Click **Cancel** to cancel your changes. Click **Help** for additional on-screen information.

## Advanced Settings Tab

Use the *Advanced Settings* screen to customize advanced wireless settings and clone a MAC address onto the Bridge.

Advanced Settings

## Wireless

**Transmission Rate** The default setting is **Auto**. The range is from 1 to 54Mbps. 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 keep the default setting, **Auto**, to have the Bridge automatically use the fastest possible data rate and enable the Auto-Fallback feature. Auto-Fallback will negotiate the best possible connection speed between the Bridge and another wireless-equipped device.

**Authentication Type** The default setting is **Auto**. The choices are **Auto**, **Open**, and **Shared**. This setting allows the Bridge to authenticate communication with the wireless devices in your network. With the Shared key setting, all wireless devices must have the same WEP keys so that the Bridge and the client can authenticate each other and start transmitting data. With the Open system setting, any device can join a network without performing any security check. Using the Auto setting, the Bridge will automatically detect whether a wireless device uses shared key or open system authentication, and then it will transmit data using the appropriate authentication type.

**RTS Threshold** This value should remain at its default setting of **2347**. The range is 0-2347 bytes. Should you encounter inconsistent data flow, only minor modifications are 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.

**Fragmentation Threshold** This value should remain at its default setting of **2346**. The range is 256-2346 bytes. It 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 modifications of this value are recommended.

## MAC Address

**Cloning Mode** You can clone the MAC address of any network device onto the Bridge. To disable MAC address cloning, keep the default setting, **Disable**. To use the MAC cloning feature, select **Enable**.

If you have enabled MAC cloning, then select **Auto** if you want to clone the MAC address of the device currently connected to the Bridge's LAN port. The Bridge will actively scan for a new MAC address to be cloned whenever you disconnect and re-connect the Bridge through its LAN port. Select **Manual** if you want to specify a MAC address in the Enter MAC Address field. This is useful when the Bridge is connected to multiple devices through a switch or a hub.

Click **Apply** to save your changes. If your page does not automatically refresh itself, then click **Refresh** on your web browser. Click **Cancel** to cancel your changes. Click **Help** for additional on-screen information.

## Status Tab

The *Status* screen displays the Bridge's current status and settings. All information is read-only.



Status

**Device Name** The name you have assigned to the Bridge is displayed here.

**Firmware Version** The version number of the Bridge's firmware is displayed here. Firmware updates are posted at [www.linksys.com](http://www.linksys.com). Firmware should be upgraded **ONLY** if you experience problems with the Bridge. To upgrade the Bridge's firmware, use the Help screen.

**MAC Address** The MAC Address of the Bridge is displayed here.

## LAN Settings

**IP Address** The Bridge's IP Address is displayed here.

**Subnet Mask** The Bridge's Subnet Mask is displayed here.

**Gateway** The Gateway address for the Bridge is displayed here.

## Statistics

**Ethernet TX** The number of packets transmitted to the Ethernet network is displayed here.

**Ethernet RX** The number of packets received from the Ethernet network is displayed here.

**Wireless TX** The number of packets transmitted to the wireless network is displayed here.

Wireless-G Ethernet Bridge

**Wireless RX** The number of packets received from the wireless network is displayed here.

## Wireless Settings

**SSID** The Bridge's SSID is displayed here.

**Network Type** The Bridge's mode is displayed here.

**Channel** The Bridge's channel setting is displayed here.

**Security** The status of the Bridge's security is displayed here.

**TX Rate** The Bridge's transmission rate is displayed here.

**Link Quality** The quality of the Bridge's connection is displayed here.

Click **Refresh** to obtain the most up-to-date settings and statistics. Click **Help** for additional on-screen information.

## Help Tab

The *Help* screen offers links to all of the help information for the Web-based Utility's screens and the Bridge's online technical support resources (all information is read-only). You can also upgrade the Bridge's firmware.



Help

**Linksys Website** Click the link to visit Linksys's website, [www.linksys.com](http://www.linksys.com).

**Online manual in PDF format** Click the link to view this User Guide on-screen. It is in Adobe Acrobat Portable Document File (.pdf) format, so you will need the free Adobe Acrobat Reader to view the pdf. If you do not have the Reader, click the Adobe Website link to download it.

**Adobe Website (software for viewing PDF documents)** If you need to download the Adobe Acrobat Reader to view the User Guide pdf, then click the this link.

**Firmware Upgrade** The version number of the Bridge's firmware is displayed here. Firmware updates are posted

at [www.linksys.com](http://www.linksys.com). Firmware should be upgraded ONLY if you experience problems with the Bridge.

To upgrade the firmware, follow these instructions:

1. Download the Bridge's firmware upgrade file from the Linksys website, [www.linksys.com](http://www.linksys.com). Then extract the file.
2. On the *Help* screen, click **Firmware Upgrade**.
3. The *Firmware Upgrade* screen will appear. In the field provided, enter the name of the extracted firmware upgrade file, or click **Browse** to locate the file on your computer.



Firmware Upgrade

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

## Appendix A: Troubleshooting

### *I can't connect to the access point.*

Open the Web-based Utility. On the Setup tab, perform the following steps:

- Verify that the operating mode is set to Infrastructure mode.
- Make sure that the SSID is the same as the SSID of the access point.
- On the WEP Encryption screen, make sure that all of the WEP settings are the same as the WEP settings of the access point.

### *I want to play head-to-head (ad-hoc) gaming with two Xboxes, but they won't communicate.*

Perform the following steps:

- Make sure both Bridges are set to the same SSID, network mode (Ad-Hoc), channel setting, and WEP settings.
- Verify that the Bridges are set to different IP addresses.
- You need to enable MAC address cloning on the Bridge for each Xbox. Follow these instructions:
  1. Open the Web-based Utility for one of the Bridges.
  2. Click the Advanced tab.
  3. Select **Enable** from the *MAC Address Cloning Mode* drop-down menu.
  4. Click the Auto radio button.
  5. Click **Apply** to save your changes. When you connect the Bridge to its Xbox, the Bridge will automatically clone the Xbox's MAC address.
- Repeat steps 1-5 for the other Bridge.

### *I don't know how to change the Bridge's IP address.*

You have two ways to change the Bridge's IP address.

- Open the Web-based Utility. On the *Setup* screen, click the **Static IP Address** radio button, and change the IP address there.
- If you encounter problems, power the Bridge off and on again, or push the Reset button. Then try to change the IP address again.

### *The Bridge-enabled PC won't communicate with a wireless-enabled PC or printer.*

Perform the following steps:

- Check that the wireless-enabled PC or printer is on the same wireless network as the PC using the Bridge.
- Make sure that the SSID and network mode are the same for all devices connected to the same wireless network.
- If the wireless LAN settings are okay, make sure that all the devices are on the same IP network.

### *The Web-based Utility won't open.*

Make sure you correctly entered the Bridge's IP address in the *Address* field of your web browser. If you are not sure what the Bridge's IP address is, then run the Setup Wizard. Follow the on-screen instructions until you see a screen that lists all the Wireless-G Ethernet Bridges on your network. Select the Bridge you want to access, and its IP address will appear in the *Status* box. Enter this IP address in your web browser's *Address* field.

### *The Web-based Utility does not recognize my password.*

The password is case-sensitive. Make sure that you are using the correct case(s) when entering the password. If you forget your password, you can push the Bridge's Reset button. This will reset the password to the default setting; however, all other Bridge settings will be reset to the factory defaults as well. To use the default setting, enter **admin** in the *Password* field.

### *After I make changes through the Web-based Utility, the new settings aren't displayed on-screen.*

Click **Refresh** in your web browser. If the new settings aren't displayed, then unplug the power adapter from the Bridge. Plug the power adapter back in, and then click **Refresh** again.



**WEB:** If your questions are not addressed here, refer to the Linksys website, [www.linksys.com](http://www.linksys.com)

## Appendix B: Specifications

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Model	WET54G
Standards	IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u
Ports	One 10/100 Auto-Cross Over (MDI/MDI-X) Port, Power Port
Buttons	Reset
LEDs	Power, Ethernet, Wireless-G
Cabling Type	Category 5 or better
Transmit Power	16 ± 1 dBm @ 11Mbps CCK 12 ± 1 dBm @ 54Mbps OFDM
Security Features	WEP Encryption, WPA
WEP Key Bits	64/128-bit
Protocols	802.11b: CCK (11Mbps), CCK (5,5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)  802.11g: OFDM (54Mbps)

### Environmental

Dimensions	126 x 27 x 107 mm
Weight	240 g
Power	5V DC
Certification	FCC, CE, ICES-003
Operating Temp.	0 to 40°C
Storage Temp.	-20 to 70°C
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

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.

ALL SOFTWARE PROVIDED BY LINKSYS WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED "AS IS" WITHOUT ANY WARRANTY OF ANY KIND. Without limiting the foregoing, Linksys does not warrant that the operation of the product or software will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the product, service, software or any equipment, system or

network on which the product or software is used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party's service for which this product's use or operation may require.

TO THE EXTENT NOT PROHIBITED BY LAW, ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary by jurisdiction.

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](http://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](http://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 doivent 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)

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

Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ftigiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Română [Romanian]:	Acest echipament este în conformitate cu cerințele esențiale și cu alte prevederi relevante ale Directivei 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

For all products, the Declaration of Conformity (DofC) 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](http://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.



or



or



or



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 Ausnahme 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**

Frequency Band (MHz)	Max Power Level (EIRP) (mW)	Indoor ONLY	Indoor & Outdoor
2400-2483,5	100		X
5150-5350 <sup>†</sup>	200	X	
5470-5725 <sup>†</sup>	1000		X

<sup>†</sup>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

Location	Frequency Range (MHz)	Power (EIRP)
Indoor (No restrictions)	2400-2483,5	100 mW (20 dBm)
Outdoor	2400-2454 2454-2483,5	100 mW (20 dBm) 10 mW (10 dBm)

## 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.

*Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN a 2,4 GHz richiede una "Autorizzazione Generale". Consultare <http://www.comunicazioni.it/it/> per maggiori dettagli.*

## 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.

*2,4 GHz frekveču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: <http://www.esd.lv>.*

### 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](http://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](http://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 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:




### 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.


### 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 сметосъбирането на обикновените битови отпадъци. Вашата отговорност е 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 спомогнат да се предотвратят евентуални вредни за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обърнете към местните власти, службите за сметосъбиране или магазина, от който сте закупили уреда.


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

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


### Dansk (Danish) - Miljøinformation for kunder i EU

EU-direktiv 2002/96/EF kræver, at udstyr der bærer dette symbol  på produktet og/eller emballagen ikke må bortskaffes som usorteret kommunalt affald. Symbolet betyder, at dette produkt skal bortskaffes adskilt fra det almindelige husholdningsaffald. Det er dit ansvar at bortskaffe dette og andet elektrisk og elektronisk udstyr via bestemte indsamlingssteder udpeget af staten eller de lokale myndigheder. Korrekt bortskaffelse og genvinding vil hjælpe med til at undgå mulige skader for miljøet og menneskers sundhed. Kontakt venligst de lokale myndigheder, renovationstjenesten eller den butik, hvor du har købt produktet, angående mere detaljeret information om bortskaffelse af dit gamle udstyr.


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

Die Europäische Richtlinie 2002/96/EC verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist , nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt von regulärem Haushaltsmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler, bei dem Sie das Produkt erworben haben.


### **Eesti (Estonian) - Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele**

Euroopa Liidu direktiivi 2002/96/EÜ nõuete kohaselt on seadmeid, millel on tootel või pakendil käesolev sümbol , keelatud kõrvaldada koos sorteerimata olmejäätmetega. See sümbol näitab, et toode tuleks kõrvaldada eraldi tavalistest olmejäätmevoogudest. Olete kohustatud kõrvaldama käesoleva ja ka muud elektri- ja elektroonikaseadmed riigi või kohalike ametiasutuste poolt ette nähtud kogumispunktide kaudu. Seadmete korrektne kõrvaldamine ja ringlussevõtt aitab vältida võimalikke negatiivseid tagajärgi keskkonnale ning inimeste tervisele. Vanade seadmete kõrvaldamise kohta täpsema informatsiooni saamiseks võtke palun ühendust kohalike ametiasutustega, jäätmekäitlusfirmaga või kauplusega, kust te toote ostsite.


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

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo  en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o 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/ΕΚ, ο εξοπλισμός που φέρει αυτό το σύμβολο  στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα μη διαχωρισμένα αστικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορρίπτεται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παρόντος και άλλου ηλεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμμάτων, οι οποίες ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη ενδεχόμενων αρνητικών επιπτώσεων στο περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες αποκομιδής απορριμμάτων ή το κατάστημα από το οποίο αγοράσατε το προϊόν.


### **Français (French) - Informations environnementales pour les clients de l'Union européenne**

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole  sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact 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 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 aprīkojumu, kam pievienota zīme  uz paša izstrādājuma vai uz tā iesaiņojuma, nedrīkst izmest nešķīrotā veidā kopā ar komunālajiem atkritumiem (tiem, ko rada vietēji iedzīvotāji un uzņēmumi). Šī zīme nozīmē to, ka šī ierīce ir jāizmet atkritumos tā, lai tā nenonāktu kopā ar parastiem mājsaimniecības atkritumiem. Jūsu pienākums ir šo un citas elektriskas un elektroniskas ierīces izmest atkritumos, izmantojot īpašus atkritumu savākšanas veidus un līdzekļus, ko nodrošina valsts un pašvaldību iestādes. Ja izmešana atkritumos un pārstrāde tiek veikta pareizi, tad mazinās iespējamais kaitējums dabai un cilvēku veselībai. Sīkākas ziņas par novecojuša aprīkojuma izmešanu atkritumos jūs varat saņemt vietējā pašvaldībā, atkritumu savākšanas dienestā, kā arī veikalā, kur iegādājāties šo izstrādājumu.


### Lietuvškai (Lithuanian) - Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

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


### Malti (Maltese) - Informazzjoni Ambjentali għal Kliġenti fl-Unjoni Ewropea

Id-Direttiva Ewropea 2002/96/KE titlob li t-tagħmir li jkun fih is-simbolu  fuq il-prodott u/jew fuq l-ippakkjar ma jistax jintrema ma' skart municipali li ma għex isseparat. Is-simbolu jindika li dan il-prodott għandu jintrema separatament minn ma' l-iskart domestiku regolari. Hija responsabbiltà tiegħek li tarmi dan it-tagħmir u kull tagħmir ieħor ta' l-elettriku u elettroniku permezz ta' faċilitajiet ta' għbir appuntati apposta mill-gvern jew mill-awtoritajiet lokali. Ir-rimi b'mod korrett u r-riċiklaġġ jgħin jipprevjeni konsegwenzi negattivi potenzjali għall-ambjent u għas-saħħa tal-bniedem. Għal aktar informazzjoni dettaljata dwar ir-rimi tat-tagħmir antik tiegħek, jekk jogħġbok ikkuntattja lill-awtoritajiet lokali tiegħek, is-servizzi għar-rimi ta' l-iskart, jew il-ħanut minn fejn xtrajt il-prodott.


### 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 hulladékészállítás rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által kijelölt gyűjtőredszereken keresztül számolja fel. A megfelelő hulladékfeldolgozás segít a környezetre és az emberi egészségre potenciálisan ártalmas negatív hatások megelőzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékfeldolgozási szolgálattal, vagy azzal üzlettel, ahol a terméket vásárolta.


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

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


### Norsk (Norwegian) - Miljøinformasjon for kunder i EU

EU-direktiv 2002/96/EF krever at utstyr med følgende symbol  avbildet på produktet og/eller pakningen, ikke må kastes sammen med usortert avfall. Symbolet indikerer at dette produktet skal håndteres atskilt fra ordinær avfallsinnsamling for husholdningsavfall. Det er ditt ansvar å kvitte deg med dette produktet og annet elektrisk og elektronisk avfall via egne innsamlingsordninger slik myndighetene eller kommunene bestemmer. Korrekt avfallshåndtering og gjenvinning vil være med på å forhindre mulige negative konsekvenser for miljø og helse. For nærmere informasjon om håndtering av det kasserte utstyret ditt, kan du ta kontakt med kommunen, en innsamlingsstasjon for avfall eller butikken der du kjøpte produktet.


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

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


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

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


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

Directiva europeană 2002/96/CE impune ca echipamentele care prezintă acest simbol  pe produs și/sau pe ambalajul acestuia să nu fie casate împreună cu gunoiul menajer municipal. Simbolul indică faptul că acest produs trebuie să fie casat separat de gunoiul menajer obișnuit. Este responsabilitatea dvs. să cașiți acest produs și alte echipamente electrice și electronice prin intermediul unităților de colectare special desemnate de guvern sau de autoritățile locale. Casarea și reciclarea corecte vor ajuta la prevenirea potențialelor consecințe negative asupra sănătății mediului și a oamenilor. Pentru mai multe informații detaliate cu privire la casarea acestui echipament vechi, contactați autoritățile locale, serviciul de salubritate sau magazinul de la care ați achiziționat produsul.


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

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 oddelene od bežného odpadu z domácností. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom špecializovaných zberných zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie ľudí. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaoberajúce 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 zbirališča, ki jih določijo državne ustanove ali lokalne oblasti. S pravilnim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalne oblasti, odlagališče odpadkov ali trgovino, kjer ste izdelek kupili.

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

EU-direktiivi 2002/96/EY edellyttää, että jos laitteistossa on tämä symboli  itse tuotteessa ja/tai sen pakkauksessa, laitteistoa ei saa hävittää lajittelemattoman yhdyskuntajätteen mukana. Symboli merkitsee sitä, että tämä tuote on hävitettävä erillään tavallisesta kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektroniikkatuote ja muut vastaavat elektroniikkatuotteet 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, jätteenhävityspalvelusta tai siitä myymälästä, josta ostit tuotteen.

### Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen

Det europeiska direktivet 2002/96/EC kräver att utrustning med denna symbol  på produkten och/eller förpackningen inte får kastas med osorterat kommunalt avfall. Symbolen visar att denna produkt bör kastas efter att den avskiljts från vanligt hushållsavfall. Det faller på ditt ansvar att kasta denna och annan elektrisk och elektronisk utrustning på fastställda samlingsplatser utsedda av regeringen eller lokala myndigheter. Korrekt kassering och återvinning skyddar mot eventuella negativa konsekvenser för miljön och personhälsa. För mer detaljerad information om kassering av din gamla utrustning kontaktar du dina lokala myndigheter, avfallshanteringen eller butiken där du köpte produkten.



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

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