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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<td>Linksys International</td>
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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.

Back Panel

- **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.
- **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
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.

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.

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.

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.

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.

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.

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

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.

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.

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.

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

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.
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.

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.

**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.

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 Screen](image)

**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. 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 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 Screen](image)

**Linksy Website** Click the link to visit Linksys's website, 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** Click the link 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. Firmware should be upgraded ONLY if you experience problems with the Bridge.

To upgrade the firmware, follow these instructions:

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.
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
# Appendix B: Specifications

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<tr>
<td>Ports</td>
<td>One 10/100 Auto-Cross Over (MDI/MDI-X) Port, Power Port</td>
</tr>
<tr>
<td>Buttons</td>
<td>Reset</td>
</tr>
<tr>
<td>LEDs</td>
<td>Power, Ethernet, Wireless-G</td>
</tr>
<tr>
<td>Cabling Type</td>
<td>Category 5 or better</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>16 ± 1 dBm @ 11Mbps CCK</td>
</tr>
<tr>
<td></td>
<td>12 ± 1 dBm @ 54Mbps OFDM</td>
</tr>
<tr>
<td>Security Features</td>
<td>WEP Encryption, WPA</td>
</tr>
<tr>
<td>WEP Key Bits</td>
<td>64/128-bit</td>
</tr>
<tr>
<td>Protocols</td>
<td>802.11b: CCK (11Mbps), CCK (5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)</td>
</tr>
<tr>
<td></td>
<td>802.11g: OFDM (54Mbps)</td>
</tr>
</tbody>
</table>

## Environmental

| Dimensions    | 4.96" x 1.06" x 4.21" (126 x 27 x 107 mm) |
| Weight        | 8.50 oz (240 g) |
| Power         | 5V DC |
| Certification | FCC, CE, ICES-003 |
| Operating Temp.| 32 to 104°F (0 to 40°C) |
| Storage Temp. | -4 to 158°F (-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 this Linksys hardware product against defects in materials and workmanship under normal use for the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

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

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 parts that are replaced become the property of Linksys.

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 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, 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 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.

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

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

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

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. IEEE 802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

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.

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

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. This device has been designed to operate with an antenna having a maximum gain of 2dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

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 20cm 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. Le dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximum de 2 dBi. Les règlements d’Industrie Canada interdisent strictement l’utilisation d’antennes dont le gain est supérieur à cette limite. L’impédance requise de l’antenne est de 50 ohms.

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.

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

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English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol 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 на продукта и/или облаковката му, да не се изхвърлят с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от сметосъбирането на обикновените битови отпадъци. Ваша е отговорността този и другите електрически и електронни уреди да се изхвърлят в предвидено и определено от държавните или общинските органи специализиране пунктове за събиране. Правилното изхвърляне и рециклиране ще помогнат да се предотвратят евентуални вреди за околната среда и здравето на населението и очакванията. За по-подробна информация относно изхвърлянето на вашите стари уреди се обрнете към местните власти, службите за сметосъбиране или магазина, от който сте закупили уреда.

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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.

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Dansk (Danish) - Miljøinformation for kunder i EU


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

Appendix D

Regulatory Information

Wireless-G Ethernet Bridge

Eesti (Estonian) - Keskkonnaalane informatioon
Euroopa Liidus asuvatele klientidele


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

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

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

Σύμφωνα με την Κοινοτική Οδηγία 2002/96/EC, ο εξοπλισμός που φέρει αυτό το σύμβολο ☑ στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα 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 παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, υγεία.

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 sullo 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) - Ekoģiska informācija klientiem Eiropas Savienības jurisdikcijā

**Appendix D**

**Regulatory Information**

**Lietuviškai (Lithuanian) - Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams**

Europos direktiva 2002/96/EC numato, kad įrankos, kuri ir/ir kurio pakuotė yra pažymėta šiuo simboliu (iveskite simbolį), negalima šaliuti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gaminin reikia šaliinti atskirai nuo bando būtinų atliekų su rauto. Jūs privalote užtikrinti, kad ši ir kita elektrinis ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų kilmės sistemės. Tinkamai šalinti ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrankos šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybos arba parduotuvės, kuriose jisgiijote tą gamini.

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

Appendix D

Regulatory Information

Wireless-G Ethernet Bridge

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

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo \( \mathbb{X} \) 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 residuos domésticos regulares. É da sua responsabilidade eliminar este equipamento correctamente.

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

EU-direktiivi 2002/96/EC edellyttää, että jos laitteistossa on tämä symboli \( \mathbb{X} \) itse tuotteessa ja/tai sen pakkausessa, laitteisto ei saa hävittää laittelemattoman yhdyskuntajätteen mukaan. Symboli merkitsee sitä, että tämä tuote on hävitettävä erillään tavallisesta kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektronikkatuote ja muut vastaavat elektronikkatuotteet viemällä tuote tai tuotteet viranomaisten määramään keräyspisteeseen. Laitteiston oikea hävittäminen estää mahdolliset kielteiset vaikutukset ympäristöön ja ihmisten terveyteen. Lisätietoja vanhan laitteiston oikeasta hävitystavasta saa paikallisilta viranomaisilta, jätteenhätystyysympäristöön ja siitä myymälästä, josta ostit tuotteen.

Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen


WEB: For additional information, please visit www.linksys.com
Appendix E: Software End User License Agreement

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IN THE EVENT THAT YOU HAVE ELECTED TO OBTAIN A SUBSCRIPTION LICENSE, AS INDICATED IN YOUR ORDER, YOU ADDITIONALLY AGREE TO BE BOUND BY THE “TERMS OF SERVICE” SET FORTH IN SCHEDULE 2 IF APPLICABLE.

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Wireless-G Ethernet Bridge

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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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The implementation was written so as to conform with Netscape’s SSL.

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