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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<tr>
<td>Linksys</td>
<td><a href="http://www.linksys.com">www.linksys.com</a></td>
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<tr>
<td>Linksys International</td>
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Chapter 1: Product Overview

Thank you for choosing the Wireless-G USB Network Adapter. Setting up your network and your Wireless-G USB Network Adapter is easier than ever.

How does the Adapter do this? Like all wireless products, the Adapter allows for greater range and mobility within your wireless network, whether it’s using the Wireless-G (802.11g) or Wireless-B (802.11b) standard.

LEDs

- **Power** (Green) The Power LED lights up when the Adapter is powered on.
- **Link** (Green) The Link LED lights up when the Adapter has an active connection.
**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

Configuration is done through the Wireless Network Monitor (the Monitor). You can use the Monitor to check the link information, search for available wireless networks, or create profiles that hold different configuration settings.

Accessing the Wireless Network Monitor

After installing the Adapter, the Wireless Network Monitor icon appears in the system tray of your computer. If the Wireless Network Monitor is enabled, the icon is green. If the Wireless Network Monitor is disabled or the Adapter is not connected, the icon is gray.

Using the Wireless Network Monitor

The opening screen of the Wireless Network Monitor is the Link Information screen. From this screen, you can find out how strong the current wireless signal is and how good the connection’s quality is. You can also click More Information to view additional status information about the current wireless connection. To search for available wireless networks, click the Connect tab. To perform configuration changes or create connection profiles, click the Profiles tab.

Link Information

The Link Information screen displays network mode, signal strength, and link quality information about the current connection. It also provides a More Information button to click for additional status information.

Ad-Hoc Mode or Infrastructure Mode
The screen indicates whether the Adapter is currently working in ad-hoc or infrastructure mode.

Signal Strength
The Signal Strength bar indicates signal strength.

Link Quality
The Link Quality bar indicates the quality of the wireless network connection.

Click More Information to view additional information about the wireless network connection on the Wireless Network Status screen.

Wireless Network Status

The Wireless Network Status screen provides information on your current network settings.

Wireless Network Status

Status This shows the status of the wireless network connection..

SSID This is the unique name (SSID) of the wireless network.

Wireless Mode This is the mode of the wireless network currently in use.

Transfer Rate The data transfer rate of the current connection is shown here.

Channel This is the channel used by your wireless network.

Security This is the status of the wireless security feature.

Authentication This is your wireless network’s authentication method.

IP Address This is the IP Address of the Adapter.

Subnet Mask This is the Adapter’s Subnet Mask.

Default Gateway This is the Default Gateway address.

DNS This is the DNS address of the Adapter.
Chapter 3

DHCP Client This displays the Adapter’s status as a DHCP client.

MAC Address This is the MAC address of the wireless network’s access point or wireless router.

Cisco AP IP This displays the Cisco AP IP Address when LEAP wireless security is used.

Signal Strength The Signal Strength bar indicates the signal strength.

Link Quality The Link Quality bar indicates the quality of the wireless network connection.

Click Statistics to go to the Wireless Network Statistics screen. Click Back to return to the initial Link Information screen. Click Save to Profile to save the currently active connection settings to a profile.

Wireless Network Statistics

The Wireless Network Statistics screen provides statistics on your current network settings.

| Transmit Rate | This is the data transfer rate of the current connection. (In Auto mode, the Adapter dynamically shifts to the fastest data transfer rate at any given time.) |
| Receive Rate | This is the rate that the Adapter receives data. |
| Packets Received | This shows the packets that the Adapter receives, in real time, after connecting to the wireless network or after clicking Refresh. |
| Packets Transmitted | This shows the packets that the Adapter transmits, in real time, after connecting to the wireless network or after clicking Refresh. |
| Bytes Received | This shows the bytes received by the Adapter, in real time, since connecting to the wireless network or since the Refresh Statistics button was last pressed. |
| Bytes Transmitted | This shows the bytes transmitted by the Adapter, in real time, since connecting to the wireless network or since the Refresh Statistics button was last pressed. |
| Driver Version | This shows the Adapter’s driver version. |
| Noise Level | This shows the level of background noise that affects the wireless signal. A lower reading translates into a higher quality signal. |
| Signal Strength | This is the intensity of the wireless signal that the Adapter receives. |
| Transmit Power | This is the power output at which the Adapter is transmitting. |
| Up Time | This indicates the length of the most recent connection to a wireless network. |
| Total Up Time | This indicates the cumulative total of the Adapter’s connection time. |
| Signal Strength | The Signal Strength bar indicates the signal strength. |
| Link Quality | The Link Quality bar indicates the quality of the wireless network connection. |

Click Back to return to the initial Link Information screen. Click Status to go to the Wireless Network Status screen. Click Save to Profile to save the currently active connection settings to a profile. Click Refresh to reset the statistics.

SecureEasySetup

While using the Monitor, you might see the SecureEasySetup button on the right-hand side of the screen. This button can be used to set up the Adapter, if this has not already been done. With SecureEasySetup, setting up the Adapter is as simple as pushing a couple of buttons. Before you press any buttons, though, you should locate the SecureEasySetup button on the device you’re connecting the Adapter to, such as a wireless router or access point.
Chapter 3

Configuration

Locate the Button

After clicking the SecureEasySetup button, you will be asked to locate the SecureEasySetup button or Cisco logo button on the device with which the Adapter will be communicating. If you are not sure where to find this button, click Where can I find the button?

This will walk you through a couple of screens to help you find the button, which is usually located on the front of the wireless router or access point.

If you've clicked the button by accident or do not wish to use SecureEasySetup, you can click Back to return to the previous screen.

Press the Cisco logo or SecureEasySetup button on the wireless router or access point. When it turns white and begins to flash, click the Next button on the Setup Wizard screen. The logo or button will stop flashing on the wireless router or access point when the Adapter has been successfully added to the network. Repeat this procedure for any additional SecureEasySetup device.

NOTE: You can only add one SecureEasySetup device at a time.

SecureEasySetup is now complete and a configuration profile will has been created automatically. You may save your configuration profile to a text file by clicking the Save button, or print the configuration by clicking the Print button. Click Connect to Network to connect to your network.

Site Survey

The Site Survey screen displays a list of available networks in the table on the left. The table shows each network’s SSID, Channel, and the quality of the wireless signal the Adapter is receiving. You may click SSID, CH (Channel), or Signal, to sort by that field.

Site Information

For each network selected, the following settings are listed:

SSID This is the SSID or unique name of the Wireless Network.
Wireless Mode: This is the mode of the wireless network currently in use.

Channel: This is the channel to which the wireless network devices are set.

Security: This is the status of the wireless security feature.

MAC Address: This is the MAC address of the wireless network's access point.

Refresh: Click Refresh to perform a new search for wireless devices.

Connect: To connect to one of the networks on the list, select the wireless network, and click Connect. If the network's wireless security is enabled, then one of these wireless security screens appears:

WEP: If the network has WEP encryption enabled, then you see the WEP Key Needed for Connection screen. Select the appropriate level of WEP encryption, 64-Bit or 128-Bit. Then enter the network's Passphrase or WEP Key. Click Connect. To cancel the connection, click Cancel.

WPA Personal: If the network has the WPA Personal security enabled, then you see the WPA Personal Needed for Connection screen. Select the appropriate encryption type, TKIP or AES. Enter the network's Passphrase in the Passphrase field. Then click Connect. To cancel the connection, click Cancel.

PSK2: If the network has PSK2 wireless security enabled, then you will see the PSK2 Needed for Connection screen. Enter the network's Passphrase or pre-shared key in the Passphrase field. To connect to the network, click Connect. To cancel the connection, click Cancel.

Profiles: The Profiles screen lets you save different configuration profiles for different network setups. The table on the left displays a list of available profiles with their profile names and wireless network names.
Profiles

Profile  This is the name of the profile.
SSID   This is the SSID or unique name of the wireless network.

Profile Information

For each profile selected, the following are listed:

Wireless Mode  This is the mode of the wireless network currently in use.
Channel  This is the channel to which the wireless network devices are set.
Security  This is the status of the wireless security.
Authentication  This is the authentication setting for the network.

Connect  To connect to a wireless network using a specific profile, select the profile, and click Connect.
New  Click New to create a new profile. See the next section, “Creating a New Profile,” for instructions.
Edit  Select the profile you want to change and click Edit.
Import  Click Import to import a profile that is saved in another location. Select the appropriate file, and click Open.
Export  Select the profile you want to save in a different location, and click Export. Direct Windows to the appropriate folder, and click Save.
Delete  Select the profile you want to delete and click Delete.

NOTE: If you want to export more than one profile, you must export them one at a time.

Create a New Profile

The next screen is the Available Wireless Networks screen.

Available Wireless Networks

This screen provides two options for setting up the Adapter.

SecureEasySetup  This Adapter features SecureEasySetup. This means that you can set it up with just the press of a button when connecting to wireless routers or access points that also feature SecureEasySetup. Both points on the network must feature SecureEasySetup for this to work.

Available Wireless Networks  (For most users.) Use this option if you already have a network set up. The networks available to this Adapter are listed on this screen. You can choose one of these networks and click Connect to connect to it. Click Refresh to update the Available Wireless Networks list.

Manual Setup  If your network is not listed on this screen, select Manual Setup to set up the adapter manually. This method of setting up the Adapter is intended for Advanced Users only.

The setup for each option is described, step by step, under the appropriate heading on the following pages.

Click Exit to close the Setup Wizard and set up the Adapter later.

SecureEasySetup

While using the Monitor, you might see the SecureEasySetup button on the right-hand side of the screen. This button can be used to set up the Adapter, if this has not already been done. With SecureEasySetup, setting up the Adapter is as simple as pushing a couple of buttons. Before you press any buttons, though, you should locate the SecureEasySetup button on the device you’re connecting the Adapter to, such as a wireless router or access point.
Chapter 3

Configuration

Locate the Button

After clicking the SecureEasySetup button, you will be asked to locate the SecureEasySetup button or Cisco logo button on the device with which the Adapter will be communicating. If you are not sure where to find this button, click Where can I find the button?

This will walk you through a couple of screens to help you find the button, which is usually located on the front of the wireless router or access point.

If you've clicked the button by accident or do not wish to use SecureEasySetup, you can click Back to return to the previous screen.

Press the Cisco logo or SecureEasySetup button on the wireless router or access point. When it turns white and begins to flash, click the Next button on the Setup Wizard screen. The logo or button will stop flashing on the wireless router or access point when the Adapter has been successfully added to the network. Repeat this procedure for any additional SecureEasySetup device.

NOTE: You can only add one SecureEasySetup device at a time.

SecureEasySetup is now complete and a configuration profile will has been created automatically. You may save your configuration profile to a text file by clicking the Save button, or print the configuration by clicking the Print button. Click Connect to Network to connect to your network.

Congratulations! SecureEasySetup is complete.

Available Wireless Networks

The available networks are listed in the table on the center of the screen by Wireless Network Name. Select the wireless network you wish to connect to and click Connect. (If you do not see your network listed, you can click Refresh to bring the list up again.) If the network utilizes wireless security, you will need to configure security on the Adapter. If not, you will be taken directly to the Congratulations screen.

1. If you have wireless security enabled on your network, continue to step 2. If you don’t have wireless security enabled, continue to step 3.
2. If your network has WEP, WPA, or WPA2 wireless security enabled, then that security screen appears. Continue to the screen for your wireless security.
WEP (Wired Equivalent Privacy)
If you have WEP enabled, this screen appears. Select **64-Bit** or **128-Bit**. Then enter a passphrase or WEP key.

**Passphrase** Enter a passphrase in the **Passphrase** field, so a WEP key is automatically generated. The passphrase is case sensitive and must be 31 or fewer alphanumeric characters. It must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (For non-Linksys wireless products, enter the WEP key manually.)

**WEP Key** The WEP key must match the WEP key of your wireless network. For 64-Bit encryption, enter exactly 10 hexadecimal characters ("0" to "9" and "A" to "F"). For 128-Bit encryption, enter exactly 26 hexadecimal characters.

Click **Connect** and proceed to Step 3.

WPA Personal offers two encryption methods, TKIP and AES, with dynamic encryption keys. Select **TKIP** or **AES** for encryption. Then enter a Passphrase that is 8-63 characters in length.

Encryption Select the type of algorithm you want to use, TKIP or AES, from the **Encryption** drop-down menu.

**Passphrase** Enter a Passphrase of 8-63 characters in the **Passphrase** field.
Click **Next** to continue or **Back** to return to the previous screen.

PSK2 Needed For Connection
**Passphrase** Enter a Passphrase, also called a pre-shared key, of 8-63 characters in the **Passphrase** field. The longer and more complex your Passphrase is, the more secure your network will be.

3. After the profile installs, the **Congratulations** screen appears. Click **Connect to Network** to implement the new settings immediately and return to the **Link Information** screen. Click **Return to Profiles Screen** to keep the current settings active and return to the **Profiles** screen.
Congratulations! The profile is successfully configured.

**Manual Setup**

If you are not taking advantage of SecureEasySetup and your network is not listed among the available networks, click Manual Setup on the *Available Wireless Network* screen to set up the adapter manually.

1. Click **Manual Setup** on the *Available Wireless Networks* screen to set up the adapter manually.

2. The *Network Settings* screen appears.

   - **IP Address** This IP Address must be unique to your network.
   - **Subnet Mask** The Adapter’s Subnet Mask must be the same as your wired network’s Subnet Mask.
   - **Default Gateway** Enter the IP address of your network’s Gateway here.
   - **DNS 1 and DNS 2** Enter the DNS address of your wired Ethernet network here.

   Click **Next** to continue, or click the **Back** button to return to the previous screen.

3. The *Wireless Mode* screen shows a choice of two wireless modes. Select **Infrastructure Mode** if you want to connect to a wireless router or access point. Select **Ad-Hoc Mode** if you want to connect to another wireless device directly without using a wireless router or access point. Enter the SSID for your network.
Chapter 3

Configuration

Wireless Mode

Infrastructure Mode Use this mode if you want to connect to a wireless router or access point.

Ad-Hoc Mode Use this mode if you want to connect to another wireless device directly without using a wireless router or access point.

SSID This is the wireless network name (SSID) that must be used for all the devices in your wireless network. It is case sensitive and should be a unique name to help prevent others from entering your network.

Click Next to continue, or click Back to return to the previous screen.

4. If you chose Infrastructure Mode, go to Step 5 now. If you chose Ad-Hoc Mode, the Ad-Hoc Mode Settings screen appears.

Network Mode Select the Network Mode in which your wireless network will operate. In Mixed mode, Wireless-B and Wireless-G devices can operate on the same network. In Wireless-G Only mode, no Wireless-B devices can operate in the network.

Click Next to continue. Click the Back button to change any settings.

5. If your wireless network doesn’t have wireless security, select Disabled and then click Next to continue. Proceed to Step 6.

If your wireless network has wireless security, select the method of security used: WEP, WPA Personal, PSK2, WPA Enterprise, RADIUS, or LEAP. WEP stands for Wired Equivalent Privacy, WPA stands for Wi-Fi Protected Access, which is a security standard stronger than WEP encryption, PSK2 stands for Pre-Shared Key 2, which is a security standard stronger than WPA-Personal, RADIUS stands for Remote Authentication Dial-In User Service, and LEAP stands for Lightweight Extensible Authentication Protocol. Click Next to continue or the Back button to return to the previous screen.

Ad-Hoc Mode Settings

Channel Select the correct channel for your wireless network. The channel you choose should match the channel set on the other devices in your wireless network. If you are unsure about which channel to use, keep the default setting.

Wireless Security

Proceed to the section for your security method.
WEP

Select 64-Bit or 128-Bit encryption.

Passphrase Enter a passphrase in the Passphrase field, so a WEP key is automatically generated. It is case sensitive and should not be longer than 16 alphanumeric characters. This passphrase must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (If you have any non-Linksys wireless products, enter the WEP key manually on those products.)

WEP Key The WEP key you enter must match the WEP key of your wireless network. For 64-Bit encryption, enter exactly 10 hexadecimal characters. For 128-Bit encryption, enter exactly 26 hexadecimal characters. Valid hexadecimal characters are "0" to "9" and "A" to "F".

Advanced Users

TX Key The default transmit key number is 1. If your network’s access point or wireless router uses transmit key number 2, 3, or 4, select the appropriate number from the TX Key drop-down box.

Authentication The default is set to Auto, so it will auto-detect for Shared Key or Open System authentication. For Shared Key authentication, both the sender and the recipient share a WEP key for authentication. For Open System authentication, the sender and the recipient do not share a WEP key for authentication. If you are not sure which authentication method to select, keep the default, Auto.

Click Next to continue, or click Back to return to the previous screen.

WPA Personal

Encryption Select the type of algorithm you want to use, TKIP or AES, from the Encryption drop-down menu.

Passphrase Enter a Passphrase of 8-63 characters in the Passphrase field.

Click Next to continue or Back to return to the previous screen.

PSK2

Passphrase Enter a Passphrase of 8-63 characters in the Passphrase field.

Click Next to continue or Back to return to the previous screen.
Click **Next** to continue or **Back** to return to the previous screen.

**WPA Enterprise**

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

WPA Enterprise offers two authentication types: EAP-TLS and PEAP.

**Authentication** Select the authentication method your network is using, **EAP-TLS** or **PEAP**.

**EAP-TLS**

![WPA Enterprise - EAP-TLS](image)

**Login Name** Enter the login name of your wireless network in the **Login Name** field.

**Server Name** Enter the name of the authentication server in the **Server Name** field (this is optional).

**Certificate** From the **Certificate** drop-down menu, select the certificate you have installed to authenticate you on your wireless network; if you want to use any certificate, keep the default setting, **Trust Any**.

**Encryption** Select the type of algorithm, **TKIP** or **AES**, for the encryption type.

**PEAP**

![WPA Enterprise - PEAP](image)

**Login Name** Enter the login name of your wireless network in the **Login Name** field.

**Password** Enter the password of your wireless network in the **Password** field.

**Server Name** Enter the name of the authentication server in the **Server Name** field (this is optional).

**Certificate** From the **Certificate** drop-down menu, select the certificate you have installed to authenticate you on your wireless network; if you want to use any certificate, keep the default setting, **Trust Any**.

**Inner Authen.** Select the authentication method used inside the PEAP tunnel.

**Encryption** Select the type of algorithm, **TKIP** or **AES**, for the encryption type.

Click **Next** to continue or **Back** to return to the previous screen.

**RADIUS**

RADIUS uses the security of a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.) RADIUS offers two authentication types: EAP-TLS and PEAP.

**Authentication** Select the authentication method your network is using, **EAP-TLS** or **PEAP**.
### EAP-TLS

**Login Name** Enter the login name of your wireless network in the *Login Name* field.

**Server Name** Enter the name of the authentication server in the *Server Name* field (this is optional).

**Certificate** From the *Certificate* drop-down menu, select the certificate you have installed to authenticate you on your wireless network; if you want to use any certificate, keep the default setting, *Trust Any*.

### PEAP

**Login Name** Enter the login name of your wireless network in the *Login Name* field.

**Password** Enter the password of your wireless network in the *Password* field.

**Server Name** Enter the name of the authentication server in the *Server Name* field (this is optional).

**Certificate** From the *Certificate* drop-down menu, select the certificate you have installed to authenticate you on your wireless network; if you want to use any certificate, keep the default setting, *Trust Any*.

**Inner Authen.** Select the authentication method used inside the PEAP tunnel.

Click *Next* to continue or *Back* to return to the previous screen.

### LEAP

If you selected LEAP, then enter the Username and Password that will authenticate you on your wireless network. Windows XP and 2000 users can also enable LEAP CCKM, and select the Encryption, if they enabled CCX2.0 on the *Advanced Wireless Settings* screen.

**Username** Enter the username used for authentication.

**Password** Enter the password used for authentication.

**Confirm** Enter the password again.

**LEAP CCKM** Windows XP and 2000 users can enable this Cisco Central Key Management method if they enabled CCX2.0 on the *Advanced Wireless Settings* screen.

**Encryption** Windows XP and 2000 users can select an encryption method if they enabled CCX2.0 on the *Advanced Wireless Settings* screen.

Click the *Next* button to continue, or click the *Back* button to return to the previous screen.

### Advanced Wireless Settings

This screen is for advanced users to enable CCX2.0.

**CCX2.0** Cisco Compatible Extensions, a Cisco wireless network protocol. Select *Enabled* from the drop-down menu to use the function. Select *Disabled* to disable it function.
QoS  Quality of Service. QoS mechanisms ensure better service to high-priority types of network traffic, which may involve demanding, real-time applications, such as videoconferencing. To use this function, select Enabled from the drop-down menu. Select Disabled to disable the function.

Fast Roaming  To use fast roaming, select Enabled from the drop-down menu. Select Disabled to disable the function. Enter the rate in the field. The default is -70 dBm.

Measurement  To use measurement, select Non-Serving or Serving from the drop-down menu. Select Disabled to disable the function. Enter the limit from 0-2000 Ms in the field. The default limit is 250 Ms.

6. The Confirm New Settings screen appears next and shows the new settings.

To save the new settings, click Save. To edit the new settings, click Back. To exit the Manual Setup through the Wireless Network Monitor, click Exit.

7. The Congratulations screen appears next. Click Finish.
Appendix A: Troubleshooting

Your computer does not recognize the Adapter.
Make sure that the Adapter is properly inserted into the USB slot.

The Adapter does not work properly.
Remove the Adapter, and then reinsert it into the computer’s USB slot.

Your computer cannot communicate with the other computers linked via Ethernet in the Infrastructure configuration.
1. Make sure that the computers are powered on.
2. Make sure that the Adapter is configured with the same Wireless Network Name (SSID) and wireless security settings as the other wireless computers in the infrastructure configuration.

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><strong>Security Features</strong></td>
<td>WEP and WPA Encryption</td>
</tr>
<tr>
<td><strong>Security Key Bits</strong></td>
<td>Up to 128-Bit Encryption</td>
</tr>
</tbody>
</table>

### Environmental

| **Dimensions** | 3.58" x 0.91" x 2.80" |
| | (91 x 23 x 71 mm) |
| **Certification** | FCC, Wi-Fi, CE |
| **Unit Weight** | 2.82 oz (80 g) |
| **Operating Temp.** | 32 to 131°F (0 to 55°C) |
| **Storage Temp.** | -40 to 185°F (-40 to 85°C) |
| **Operating Humidity** | 10 to 85% Noncondensing |
| **Storage Humidity** | 5 to 90% Noncondensing |
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.

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Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to www.linksys.com/support where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Linksys Technical Support for instructions on how to obtain warranty service. The telephone number for Linksys Technical Support in your area can be found in the product User Guide and at www.linksys.com. Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials Authorization (RMA) number. You are responsible for properly packaging and shipping your product to Linksys at your cost and risk. You must include the RMA number and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be
rejected. Do not include any other items with the product you are returning to Linksys. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Linksys' then-current rates.

**Technical Support**

This limited warranty is neither a service nor a support contract. Information about Linksys’ current technical support offerings and policies (including any fees for support services) can be found at: [www.linksys.com/support](http://www.linksys.com/support).

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 equipment has been tested and found to comply with the limits 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 in accordance with 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 can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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.

FCC Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instructions as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with USB slot, and this product could be used in typical laptop computer(s) with USB slot. Other applications like handheld PC or similar device have not been verified and may not be in compliance with related RF exposure rule and such use shall be prohibited.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

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.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with RSS-210 of the Industry Canada 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.

Règlement d’Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:
1. Ce périphérique ne doit pas causer d’interférence et.
2. Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

IMPORTANT NOTE

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

REMARQUE IMPORTANTE

Exposition aux radiofréquences :

Ce matériel est conforme aux limites d’exposition aux radiofréquences établies pour un environnement non contrôlé. Pour assurer le maintien de cette conformité, l’utilisateur doit suivre les consignes d’utilisation décrites dans le présent manuel.

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.
User Information for Consumer Products

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

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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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Bulgarian (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 сместосъбирането на обикновените битови отпадъци. Вашият отговорност е 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 вреди за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обрнете към местните власти, службите за сместосъбиране 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

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

Europos direktyva 2002/96/EC numato, kad įrangos, kurią ir ≠ kurios pakuotė yra pažymėta šiuo simboliu (iveskite simbolį), negalima šaalių kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gaminin reikia šaalių atskirti nuo bendro butinių atliekų sauto. Jūs privalote užtikrinti, kad šis įrankis elektroninė įranga būtų šalintina per tam tikras nacionalinės ar vietinės valdźios nustatytas atliekų rinkimo sistemas. Tinkamai šalinti ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrangos šalimą gali pateikti vietinės valdžios institucijos, atliekų šalimento tarnybos arba pardavėjus, kuriose įsigijote tą gaminį.

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


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, tiltos a többi szeletláthatatlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kibocsátásakor a szókíványa háztartási hulladékkészleti rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektronos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által megengedett hulladékkellőolózás segítségével elszámlálja az eljárást. A hulladékellőolózást 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 hulladékkellőolózás szolgálattal, vagy azzal üzlettel, ahol a terméket vásárolta.

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

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

Norsk (Norwegian) - Miljøinformasjon for kunder i EU


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

Dyrektywa Europejska 2002/96/EC wymaga, aby sprzęt oznaczony symbolem ≠ znajdującym się na produkcie i/lub jego opakowaniu nie był wyrzucany razem z innymi niesortowanymi odpadami komunalnymi. Symbol ten wskazuje, że produkt nie powinien być usuwany razem ze zwykłymi odpadami z gospodarstw domowych. Na Państwu spoczywa obowiązek wyrzucania tego i innych urządzeń elektrycznych oraz elektronicznych w punktach odbioru wyznaczonych przez władze krajowe lub lokalne. Pozbywanie się sprzętu we właściwym punkcie z innymi elektronicznymi odpadami jest odpowiedzialnością korzystającego z produktu.
Regulatory Information

Appendix D

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

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo simbolo na produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O símbolo indica que este produto deve ser eliminado separadamente dos resíduos domésticos regulares. É da sua responsabilidade eliminar este e qualquer outro equipamento eletrónico e electrométrico 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


Romansh (Romansh) - Okoljenske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom simbol na izdelku in/ali na embalaži z nesortiranimi komunalnimi odpadki. Ta simbol opozarja, da je treba izdelek zavrze ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo oddate na posebna zbirališča, ki jih določijo državne ustavobe 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, odlagališča ali trgovino, kjer ste izdelek kupili.

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

Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolom simbol na produkte a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať oddelene od bežného odpadu z domácnosti. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom zberaných zariadení určených vládou alebo miestnymi orgánmi. Správaná likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie lúd. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaobľučujúce sa likvidáciou odpadov alebo obchod, v ktorom ste si produkt zakúpili.

Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen


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

Software in Linksys Products

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Appendix E

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

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