



# **Internet Phone Adapter**



with 2 Ports for Voice-over-IP

**User Guide** 





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#### How to Use this Guide

Your guide to the Internet Phone Adapter has been designed to make understanding networking with the Internet Phone Adapter easier than ever. Look for the following items when reading this User Guide:



This exclamation point means that there is a caution or warning and is something that could damage your property or Internet Phone Adapter.



This question mark provides you with a reminder about something you might need to do while using the Internet Phone Adapter.



This checkmark means that there is a note of interest and is something you should pay special attention to while using the Internet Phone Adapter.

In addition to these symbols, there are definitions for technical terms that are presented like this:

word: definition.

Also, each figure (diagram, screenshot, or other image) is provided with a figure number and description, like this:

Figure 0-1: Sample Figure Description

Figure numbers and descriptions can also be found in the "List of Figures" section.

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## **Chapter 1: Introduction**

### Welcome

Thank you for choosing the Linksys Internet Phone Adapter with 2 Ports for Voice-over-IP. This Phone Adapter will allow you to make and receive phone or fax calls using the your broadband connection.

How does the Phone Adapter do this? Just plug the Phone Adapter into your network router or gateway, then connect your phones or fax machines to the Phone Adapter to receive telephone service through your cable or DSL Internet connection. Each of the Phone Adapter's two telephone jacks operates independently, with separate phone service and phone numbers, so you can have up to two Internet phone lines per Phone Adapter.

What does all of this mean? Networks are useful tools for sharing Internet access and computer resources. The Phone Adapter allows your phones or fax machines to take advantage of and share your high-speed Internet connection. You can even make phone calls while you're surfing the Internet (Internet phone services required). Networks are not only useful in homes and offices, they also can be fun too.

Refer to the instructions in the Quick Installation or this User Guide to help you connect the Phone Adapter after you have set up an account with your Internet phone service provider. The instructions in this User Guide will help you get the most out of your Phone Adapter.



**NOTE:** For information about your Internet phone service, refer to your service provider's documentation which is included in the welcome kit.

## What's in this Guide?

This guide covers the steps for installing the Phone Adapter.

- Chapter 1: Introduction Describes the Phone Adapter's applications and the contents of this User Guide.
- Chapter 2: Getting to Know the Phone Adapter Describes the physical features of the Phone Adapter.
- Chapter 3: Connecting the Phone Adapter Explains how to connect the Phone Adapter to your network and phones (or fax machines).
- Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu Explains how to configure the Phone Adapter's network settings using the Interactive Voice Response Menu.
- Appendix A: Troubleshooting Describes potential problems and solutions and frequently asked questions regarding use of the Phone Adapter.
- Appendix B: Windows Help
   Describes how to use Windows Help for instructions about networking, such as installing the TCP/IP protocol.
- Appendix C: Glossary Provides brief descriptions of terms frequently used in networking.
- Appendix D: Specifications Provides technical specifications for the Phone Adapter.
- Appendix E: Warranty Information Provides warranty information for the Phone Adapter.
- Appendix F: Regulatory Information
   Provides regulatory information about the Phone Adapter.
- Appendix G: Contact Information
   Provides contact information for a variety of Linksys resources, including Technical Support.

## **Chapter 2: Getting to Know the Phone Adapter**

### **Back Panel Ports**

The Phone Adapter's ports are located on the back panel.



Figure 2-1: Back Panel

- **PHONE 1** Port For your primary Internet phone line, the **PHONE 1** port allows you to connect your telephone to the Phone Adapter using an RJ-11 telephone cable (not included).
- **PHONE 2** Port If you add a second Internet phone line, then use the **PHONE 2** port. It allows you to connect a second telephone (or fax machine) to the Phone Adapter using an RJ-11 telephone cable (not included).



NOTE: The Phone ports do not carry any voltage.

**ETHERNET** Port The **ETHERNET** port allows you to connect the Phone Adapter to your router or gateway using a Category 5 (or better) Ethernet network cable.

**POWER** Port The **POWER** port is where you will connect the included power adapter.

Chapter 2: Getting to Know the Phone Adapter Back Panel Ports

## **The Front Panel**

The Phone Adapter's LEDs are located on the front panel.



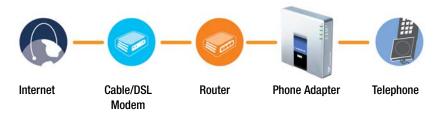
#### Figure 2-2: Front Panel

- **PHONE 1** LED The green **PHONE 1** LED remains solid when your telephone or fax machine has a registered connection to an Internet phone service provider through the PHONE 1 port. (The connection is registered if your Internet phone service account is active.) It flashes quickly when the phone is in use and flashes slowly when you have a message waiting.
- **PHONE 2** LED The green **PHONE 2** LED remains solid when your telephone or fax machine has a registered connection to an Internet phone service provider through the PHONE 2 port. It flashes quickly when the phone is in use and flashes slowly when you have a message waiting.
- **ETHERNET** LED The green **ETHERNET** LED remains solid when the Phone Adapter is connected to your network through the Ethernet port and flashes when there is data being sent or received.
- Power LEDThe Power LED remains solid green when the Phone Adapter is powered on and ready. It<br/>flashes when the Phone Adapter is booting up, undergoing a self-test, or performing a<br/>firmware upgrade. If the LED lights up red, the Phone Adapter has failed its self-test or is<br/>malfunctioning. Refer to "Appendix A: Troubleshooting" for more information.

## **Chapter 3: Connecting the Phone Adapter**

### **Overview**

This chapter gives instructions on how to connect the Phone Adapter to your network and telephones or fax machines. Shown below is a connection diagram displaying a typical setup.



#### Figure 3-1: Connect the Phone Adapter to Your Network and Telephone

This chapter also describes the Phone Adapter's placement options. You can place it flat on a surface, attach the Phone Adapter's base so it can stand in place, or mount the Phone Adapter on a wall.



#### WARNING:

- The Phone Adapter includes a ringer (ring signal generator), that is a source of hazardous voltage. When the ringer is activated by an incoming call, do not touch the Phone port wires, the wires connected to either Phone port, or the internal circuitry o the Phone Adapter.
- Do not connect either of the Phone ports to a telephone wall jack. Make sure you only connect a telephone or fax machine to either of the Phone ports. Otherwise, the Phone Adapter, telephone wiring in your home or office, or both may be damaged.

## **Instructions for Connecting the Phone Adapter**

If you already have an account set up with your Internet phone service provider, proceed to step 1.

If you do not have an account, go to your Internet phone service provider's website and sign up for service. When you have finished setting up and account, proceed to step 1.

- 1 Connect the included Ethernet network cable to the ETHERNET port of the Phone Adapter, then connect the other end to any available Ethernet port on your router or gateway.
- 2. Connect the included power adapter to the POWER port on the back of the Phone Adapter, then plug the other end into a standard electrical outlet.
- 3. Using a telephone cable, connect your telephone to the PHONE 1 port on the back of the Phone Adapter.
- 4. If you have a second Internet phone service account, connect another telephone or a fax machine to the PHONE 2 port of the Phone Adapter.

The Power, Ethernet, and Phone LEDs will be solidly lit when the Phone Adapter is ready for use. To make and receive calls, follow the instructions provided by your Internet phone service provider.

If you need to manually configure the Phone Adapter's network settings, you can use the telephone; for instructions, proceed to "Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu."

#### The installation of the Phone Adapter is complete. Now you can pick up your phone and make calls.

Proceed to the next section, "Placement Options," if you want to attach the Phone Adapter's base.



Figure 3-2: Connect the Ethernet Network Cable



Figure 3-3: Connect the Power Cable



Figure 3-4: Connect the Telephone Cable

### **Placement Options**

There are three ways to place the Phone Adapter. The first way is to place the Phone Adapter horizontally on a flat surface. The second way is to place the Phone Adapter vertically on its stand. The third way is to mount the Phone Adapter on a wall. The second and third options are explained in further detail below.

#### Stand Option

- 1 Line up the center of the Phone adapter's stand with the center of the Phone Adapter's labeled edge.
- 2. Place the Phone Adapter into the stand and push it until it is firmly seated in the stand.

Congratulations! The installation of the Phone Adapter is complete.



Figure 3-5: Attach the Phone Adapter's Stand (Optional)

#### Wall-Mount Option

The Phone Adapter has two wall-mount slots on its back panel. The distance between the two slots is 58 mm (2.28 inches).

- 1 Determine where you want to mount the Phone Adapter.
- 2. Drill two holes into the wall. Make sure the holes are 58 mm (2.28 inches) apart.
- 3. Insert a screw into each hole, and leave 5 mm (0.2 inches) of its head exposed.
- 4. Place the Phone Adapter so that the wall-mount slots line up with the two screws.
- 5. Place the wall-mount slots over the screws and slide the Phone Adapter down until the screws fit snugly into the wall-mount slots.

**Congratulations!** The installation of the Phone Adapter is complete.

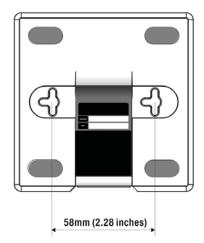


Figure 3-6: Measurement between Wall-Mount Slots

## **Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu**

### **Overview**

You may need to manually configure the Phone Adapter by entering the settings provided by your Internet phone service provider. This chapter explains how to use the Interactive Voice Response Menu to configure the Phone Adapter's network settings. You will use the phone's keypad to enter your commands and select choices, and the Phone Adapter will respond with voice responses. Accessing the Interactive Voice Response Menu



**NOTE:** If your Internet phone service provider sent you the Phone Adapter, then it may be pre-configured for you, and you do not need to change any settings. Refer to the instructions provided by your service provider for more information.

## Accessing the Interactive Voice Response Menu

- 1. Use a telephone connected to the PHONE 1 or PHONE 2 port of the Phone Adapter.
- 2. Press the \* (star) key four times.
- 3. Wait until you hear "Configuration menu. Please enter option followed by the # (pound) key or hang up to exit."
- 4. Refer to the table on page 10 for a list of actions, commands, menu choices, and descriptions. After you select an option, press the # (pound) key. To exit the menu, hang up the telephone.

## **Using the Interactive Voice Response Menu**

When entering values, such as an IP address, you may exit without saving your changes by press the \* (star) key twice within half a second. Otherwise, the \* (star) key will be treated as a decimal point or dot.

After entering a value, such as an IP address, press the # (pound) key to indicate you have finished your selection. To save the new setting, press the 1 key. To review the new setting, press the 2 key. To re-enter the new setting, press the 3 key. To cancel your entry and return to the main menu, press the \* (star) key.

For example, to enter the IP address 191.168.1.105 using your telephone's keypad, press: **191\*168\*1\*105**. When you are finished, press the **#** (pound) key, then press the **1** key to save the IP address. To cancel your entry and return to the main menu, press the **\*** (star) key.

If the menu is inactive for more than one minute, the Phone Adapter will automatically exit the Interactive Voice Response Menu. To re-enter the menu, press the \* (star) key four times.

The settings you have saved will take effect when you hang up the telephone. The Phone Adapter may reboot at this time.

Action	Command (press these keys on the telephone)	Choices	Description
Enter Interactive Voice Response Menu	****	_	Use this command to enter the Interactive Voice Response Menu. Do not press any other keys until you hear, "Configuration menu. Please enter option followed by the # (pound) key or hang up to exit."

Action	Command (press these keys on the telephone)	Choices	Description
Check DHCP	100	-	Use this command to find out if DHCP has been enabled or disabled. If it is enabled, the Phone Adapter will be assigned an IP address automatically by your network router or gateway. If it is disabled, then the Phone Adapter will need to use a static IP address.
Enable/Disable DHCP	101	Enter 1 to enable Enter 0 to disable	Enable or disable the Phone Adapter's DHCP feature. If your network router assigns IP addresses, enter 1, otherwise, enter 0.
Check IP Address	110	_	Use this command to check the current IP address of the Phone Adapter.
Set Static IP Address	111	Enter the IP address using the numbers on your telephone keypad. Use the * (star) key to enter a decimal point.	To set a static IP address, the DHCP feature must be disabled. If the DHCP feature is enabled, you will hear, "Invalid Option," if you try to set a static IP address.
Check Network Mask (or Subnet Mask)	120	_	Use this command to check the current network mask of the Phone Adapter.

Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu Using the Interactive Voice Response Menu

Action	Command (press these keys on the telephone)	Choices	Description
Set Network Mask (or Subnet Mask)	121	Enter the network mask using numbers on your telephone keypad. Use the * (star) key to enter a decimal point.	To set the network mask, the DHCP feature must be disabled. If the DHCP feature is enabled, you will hear, "Invalid Option," if you try to set the network mask.
Check Static Gateway IP Address	130	_	Use this command to check the current gateway IP address of the Phone Adapter.
Set Static Gateway IP Address	131	Enter the IP address using numbers on your telephone keypad. Use the * (star) key to enter a decimal point.	To set a static gateway IP address, the DHCP feature must be disabled. If the DHCP feature is enabled, you will hear, "Invalid Option," if you try to set a static gateway IP address.
Check MAC Address	140	_	Use this command to check the current MAC address of the Phone Adapter in hexadecimal string format.
Check Firmware Version	150	_	Use this command to check the current version number of the firmware currently installed on the Phone Adapter.

Action	Command (press these keys on the telephone)	Choices	Description
Enable/Disable Web-based Utility of Phone Adapter	7932	Enter 1 to enable Enter 0 to disable	This feature is password protected by your Internet phone service provider. (The Web-based Utility is disabled by default because you will not need to use it unless instructed to do so by your service provider.) If you have been provided a password, see "Entering a Password."
Manual Reboot	732668	_	After you hear, "Option successful," hang up the phone. The Phone Adapter will automatically reboot.

Action	Command (press these keys on the telephone)	Choices	Description
Factory Reset	73738	Enter 1 to confirm Enter * (star) to cancel	This feature is password protected by your Internet phone service provider. (You will not need to reset the Phone Adapter to its factory default settings unless instructed to do so by your service provider.) If you have been provided a password, see "Entering a Password." After you have entered your password, the Phone Adapter will request confirmation. After confirmation, you will hear, "Option successful." Hang up the phone. The Phone Adapter will reboot and all settings will be reset to their factory default settings.

### **Entering a Password**

You will be prompted to enter a password if you want to enable the Web-based Utility or reset the Phone Adapter to its factory default settings. To enter a password, use the phone's keypad, and follow the appropriate instructions.

- To enter A, B, C, a, b, or c press the 2 key.
- To enter D, E, F, d, e, or f press the 3 key.
- To enter G, H, I, g, h, or i press the 4 key.
- To enter J, K, L, j, k, or I press the **5** key.
- To enter M, N, O, m, n, or o press the 6 key.
- To enter P, Q, R, S, o, q, r, or s press the **7** key.
- To enter T, U, V, t, u, or v press the 8 key.
- To enter W, X, Y, Z, w, x, y, or z press the **9** key.
- To enter all other characters, press the **0** key.

For example, to enter the password phone@321 by keypad, press: **746630321**. When you are finished, press the **#** (pound) key. To cancel your entry and return to the main menu, press the **\*** (star) key.

## **Configuring the Settings for Your Internet Phone Service**

If you want to change the settings for your Internet phone service, refer to the instructions provided by your Internet phone service provider.

## **Appendix A: Troubleshooting**

This appendix provides solutions to problems you may experience when installing and using the Phone Adapter. Read the descriptions below to solve your problems. If you can't find an answer here, check your Internet phone service provider's website or the Linksys website at *www.linksys.com*.

#### **Common Problems and Solutions**

#### 1. I don't hear a dial tone.

Go through this checklist until your problem is solved:

- Make sure the telephone is plugged into the correct port, PHONE 1 or PHONE 2. (You should use the Phone 2 port only if you have more than one Internet telephone service account.)
- Make sure the yellow ACT LED on the back panel of the Phone Adapter is lit. If it is not lit, check your
  router and network connection to the Internet.
- Make sure the green STATUS LED on the back panel of the Phone Adapter is lit, then pick up the telephone; you should now have a dial tone.
- Follow these instructions to reboot your cable or DSL modem, Phone Adapter, and router:
  - 1. Power off your cable or DSL modem by unplugging its power adapter.
  - 2. Power off the router by unplugging its power adapter.
  - 3. Power off the Phone Adapter by unplugging its power adapter.
  - 4. Wait two minutes, then power on your cable or DSL modem by plugging its power adapter into an electrical outlet.
  - 5. Wait two minutes, then power on the router by plugging its power adapter into an electrical outlet.
  - 6. Wait five minutes, then power on the Phone Adapter by plugging its power adapter into an electrical outlet.

- 7. Reboot one of your networked computers, and check to see if you have an active Internet connection.
- 8. Pick up the telephone. You should now have a dial tone.
- Set up port forwarding on your router. You must specify that ports 5060-5061 (UDP), 53-53 (UDP), 69-69 (UDP), and 10000-20000 (UDP) are forwarded to the IP address of the Phone Adapter.

Before you set up port forwarding on your router, change two of the Phone Adapter's settings using its Interactive Voice Response Menu. First, disable its DHCP feature, then assign a static IP address to the Phone Adapter. See "Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu" for instructions.

If you have a non-Linksys router, refer to your router's documentation for instructions.

If you have a Linksys router, follow the instructions below:

- 1. On one of your networked computers, open your web browser.
- 2. Access the Router's Web-based Utility by going to http://192.168.1.1 or the IP address of the Router.

You see the login screen.

- 3. Leave the *User Name* field blank, enter the Router's password (the default is **admin**) in the *Password* field, then click the **OK** button.
- 4. Click the Applications & Gaming tab, then click the Port Range Forwarding tab.
- 5. For each port range, enter a different name in the *Application* field. Then enter the number or range of external port(s) used by the Phone Adapter.
- 6. Select UDP as the protocol you will be using.

- 7. Enter the IP address of the Phone Adapter. For example, if the Phone Adapter's IP address is 192.168.1.100, you would enter 100 in the field provided.
- 8. Repeat steps 5-7 until you have entered all four port ranges for the Phone Adapter.

Application	Start and End	Protocol	IP Address	Enable
Internet phone 1	5060 to 5061	UDP	(IP address of Phone Adapter)	_
Internet phone 2	53 to 53	UDP	(IP address of Phone Adapter)	_
Internet phone 3	69 to 69	UDP	(IP address of Phone Adapter)	_
Internet phone 4	10000 to 20000	UDP	(IP address of Phone Adapter)	_

- 9. Click the **Enable** checkbox for each port service you want to use.
- 10. When you are finished configuring Port Range Forwarding, click the click the **Save Settings** button.

- When I make a telephone call, the call doesn't go through; instead, I hear a fast busy signal. Go through this checklist until your problem is solved:
  - Pick up your phone and dial 1 + area code + phone number. Some Internet phone services require that you dial 1 and the area code for all calls, even local ones.
  - Follow these instructions to reboot your cable or DSL modem, Phone Adapter, and router:
    - 1. Power off your cable or DSL modem by unplugging its power adapter.
    - 2. Power off the router by unplugging its power adapter.
    - 3. Power off the Phone Adapter by unplugging its power adapter.
    - 4. Wait two minutes, then power on your cable or DSL modem by plugging its power adapter into an electrical outlet.
    - 5. Wait two minutes, then power on the router by plugging its power adapter into an electrical outlet.
    - 6. Wait five minutes, then power on the Phone Adapter by plugging its power adapter into an electrical outlet.
    - 7. Reboot one of your networked computers, and check to see if you have an active Internet connection.
    - 8. Pick up the telephone. You should now have a dial tone.
  - Set up port forwarding on your router. You must specify that ports 5060-5061 (UDP), 53-53 (UDP), 69-69 (UDP), and 10000-20000 (UDP) are forwarded to the IP address of the Phone Adapter.

Before you set up port forwarding on your router, change two of the Phone Adapter's settings using its Interactive Voice Response Menu. First, disable its DHCP feature, then assign a static IP address to the Phone Adapter. See "Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu" for instructions.

If you have a non-Linksys router, refer to your router's documentation for instructions.

If you have a Linksys router, follow the instructions below:

- 1. On one of your networked computers, open your web browser.
- 2. Access the Router's Web-based Utility by going to http://192.168.1.1 or the IP address of the Router.
- 3. You see the login screen.
- 4. Leave the *User Name* field blank, enter the Router's password (the default is **admin**) in the *Password* field, then click the **OK** button.
- 5. Click the Applications & Gaming tab, then click the Port Range Forwarding tab.
- 6. For each port range, enter a different name in the *Application* field. Then enter the number or range of external port(s) used by the Phone Adapter.
- 7. Select UDP as the protocol you will be using.
- 8. Enter the IP address of the Phone Adapter. For example, if the Phone Adapter's IP address is 192.168.1.100, you would enter 100 in the field provided.
- 9. Repeat steps 5-7 until you have entered all four port ranges for the Phone Adapter.

Application	Start and End	Protocol	IP Address	Enable
Internet phone 1	5060 to 5061	UDP	(IP address of Phone Adapter)	—
Internet phone 2	53 to 53	UDP	(IP address of Phone Adapter)	
Internet phone 3	69 to 69	UDP	(IP address of Phone Adapter)	—
Internet phone 4	10000 to 20000	UDP	(IP address of Phone Adapter)	—

- 10. Click the **Enable** checkbox for each port service you want to use.
- 11. When you are finished configuring Port Range Forwarding, click the click the **Save Settings** button.

#### 3. When I'm on a telephone call, words are dropped intermittently.

Go through this checklist until your problem is solved:

- If you're using a wireless router and a cordless phone, they may be using the same frequency and may interfere with each other. Move the cordless phone farther away from the router.
- There may be heavy network activity, particularly if you are running a server or using a file sharing program. Try to limit network or Internet activity during Internet telephone calls. For example, if you are running a file sharing program, file may be uploaded in the background even though you are not downloading any file, so make sure you exit the program before making Internet phone calls.
- There may not be enough bandwidth available for your Internet phone call. You may want to test your bandwidth using one of the bandwidth tests available online. If necessary, access your Internet phone service account and reduce the bandwidth requirements for your service. For more information, refer to your service provider's website.

4. My telephone does not ring, and my calls automatically go to voicemail.

Go through this checklist until your problem is solved:

- Make sure the telephone is plugged into the correct port, PHONE 1 or PHONE 2. (You should use the Phone 2 port only if you have more than one Internet telephone service account.)
- Make sure the ringer volume on your telephone is set to an audible level.
- Follow these instructions to reboot your cable or DSL modem, Phone Adapter, and router:
  - 1. Power off your cable or DSL modem by unplugging its power adapter.
  - 2. Power off the router by unplugging its power adapter.
  - 3. Power off the Phone Adapter by unplugging its power adapter.
  - 4. Wait two minutes, then power on your cable or DSL modem by plugging its power adapter into an electrical outlet.
  - 5. Wait two minutes, then power on the router by plugging its power adapter into an electrical outlet.
  - 6. Wait five minutes, then power on the Phone Adapter by plugging its power adapter into an electrical outlet.
  - 7. Reboot one of your networked computers, and check to see if you have an active Internet connection.
- Set up port forwarding on your router. You must specify that ports 5060-5061 (UDP), 53-53 (UDP), 69-69 (UDP), and 10000-20000 (UDP) are forwarded to the IP address of the Phone Adapter.

Before you set up port forwarding on your router, change two of the Phone Adapter's settings using its Interactive Voice Response Menu. First, disable its DHCP feature, then assign a static IP address to the Phone Adapter. See "Chapter 4: Using the Phone Adapter's Interactive Voice Response Menu" for instructions.

If you have a non-Linksys router, refer to your router's documentation for instructions.

If you have a Linksys router, follow the instructions below:

- 1. On one of your networked computers, open your web browser.
- 2. Access the Router's Web-based Utility by going to http://192.168.1.1 or the IP address of the Router.
- 3. You see the login screen.
- 4. Leave the *User Name* field blank, enter the Router's password (the default is **admin**) in the *Password* field, then click the **OK** button.
- 5. Click the Applications & Gaming tab, then click the Port Range Forwarding tab.
- 6. For each port range, enter a different name in the *Application* field. Then enter the number or range of external port(s) used by the Phone Adapter.
- 7. Select UDP as the protocol you will be using.
- 8. Enter the IP address of the Phone Adapter. For example, if the Phone Adapter's IP address is 192.168.1.100, you would enter 100 in the field provided.
- 9. Repeat steps 5-7 until you have entered all four port ranges for the Phone Adapter.

Application	Start and End	Protocol	IP Address	Enable
Internet phone 1	5060 to 5061	UDP	(IP address of Phone Adapter)	—
Internet phone 2	53 to 53	UDP	(IP address of Phone Adapter)	
Internet phone 3	69 to 69	UDP	(IP address of Phone Adapter)	—
Internet phone 4	10000 to 20000	UDP	(IP address of Phone Adapter)	—

- 10. Click the **Enable** checkbox for each port service you want to use.
- 11. When you are finished configuring Port Range Forwarding, click the click the Save Settings button.

#### 5. The STATUS LED does not light up.

Go through this checklist until your problem is solved:

- Check the cable connecting the Phone Adapter to your router.
- Make sure your network has an active Internet connection. If it does not, follow these instructions to reboot your cable or DSL modem, Phone Adapter, and router:
  - 1. Power off your cable or DSL modem by unplugging its power adapter.
  - 2. Power off the router by unplugging its power adapter.
  - 3. Power off the Phone Adapter by unplugging its power adapter.
  - 4. Wait two minutes, then power on your cable or DSL modem by plugging its power adapter into an electrical outlet.
  - 5. Wait two minutes, then power on the router by plugging its power adapter into an electrical outlet.
  - 6. Wait five minutes, then power on the Phone Adapter by plugging its power adapter into an electrical outlet.
  - 7. Reboot one of your networked computers, and check to see if you have an active Internet connection.

## **Frequently Asked Questions**

#### How do I make a phone call?

Pick up your phone and dial a phone number. Some Internet phone service providers require you to dial 1 and then the area code for all calls, even local ones.

#### Can I make calls if my Internet connection is down?

No. Your high-speed Internet connection must be active when you make Internet phone or fax calls.

#### Can I make calls while I'm browsing the Internet?

Yes. You can make Internet phone or fax calls while browsing the Internet, however, upstream data traffic passing through your Internet connection may affect the quality of your telephone call.

## **Appendix B: Glossary**

This glossary contains some basic networking terms you may come across when using this product. For more advanced terms, see the complete Linksys glossary at http://www.linksys.com/glossary.

Access Point - A device that allows wireless-equipped computers and other devices to communicate with a wired network. Also used to expand the range of a wireless network.

Ad-hoc - A group of wireless devices communicating directly with each other (peer-to-peer) without the use of an access point.

AES (Advanced Encryption Standard) - A security method that uses symmetric 128-bit block data encryption.

Bandwidth - The transmission capacity of a given device or network.

Bit - A binary digit.

Boot - To start a device and cause it to start executing instructions.

Broadband - An always-on, fast Internet connection.

**Browser** - An application program that provides a way to look at and interact with all the information on the World Wide Web.

Byte - A unit of data that is usually eight bits long

**Cable Modem** - A device that connects a computer to the cable television network, which in turn connects to the Internet.

Daisy Chain - A method used to connect devices in a series, one after the other.

**DDNS** (Dynamic Domain Name System) - Allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (e.g., www.xyz.com) and a dynamic IP address.

Default Gateway - A device that forwards Internet traffic from your local area network.

**DHCP** (Dynamic Host Configuration Protocol) - A networking protocol that allows administrators to assign temporary IP addresses to network computers by "leasing" an IP address to a user for a limited amount of time, instead of assigning permanent IP addresses.

**DMZ** (Demilitarized Zone) - Removes the Router's firewall protection from one PC, allowing it to be "seen" from the Internet.

DNS (Domain Name Server) - The IP address of your ISP's server, which translates the names of websites into IP addresses.

**Domain** - A specific name for a network of computers.

**Download** - To receive a file transmitted over a network.

DSL (Digital Subscriber Line) - An always-on broadband connection over traditional phone lines.

Dynamic IP Address - A temporary IP address assigned by a DHCP server.

**EAP** (Extensible Authentication Protocol) - A general authentication protocol used to control network access. Many specific authentication methods work within this framework.

**Encryption** - Encoding data transmitted in a network.

**Ethernet** - IEEE standard network protocol that specifies how data is placed on and retrieved from a common transmission medium.

**Firewall** - A set of related programs located at a network gateway server that protects the resources of a network from users from other networks.

Firmware - The programming code that runs a networking device.

FTP (File Transfer Protocol) - A protocol used to transfer files over a TCP/IP network.

Full Duplex - The ability of a networking device to receive and transmit data simultaneously.

Gateway - A device that interconnects networks with different, incompatible communications protocols.

Half Duplex - Data transmission that can occur in two directions over a single line, but only one direction at a time.

**HTTP** (HyperText Transport Protocol) - The communications protocol used to connect to servers on the World Wide Web.

Infrastructure - A wireless network that is bridged to a wired network via an access point.

IP (Internet Protocol) - A protocol used to send data over a network.

IP Address - The address used to identify a computer or device on a network.

IPCONFIG - A Windows 2000 and XP utility that displays the IP address for a particular networking device.

IPSec (Internet Protocol Security) - A VPN protocol used to implement secure exchange of packets at the IP layer.

ISP (Internet Service Provider) - A company that provides access to the Internet.

LAN - The computers and networking products that make up your local network.

MAC (Media Access Control) Address - The unique address that a manufacturer assigns to each networking device.

Mbps (MegaBits Per Second) - One million bits per second; a unit of measurement for data transmission.

**NAT** (Network Address Translation) - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.

**Network** - A series of computers or devices connected for the purpose of data sharing, storage, and/or transmission between users.

Packet - A unit of data sent over a network.

**Passphrase** - Used much like a password, a passphrase simplifies the WEP encryption process by automatically generating the WEP encryption keys for Linksys products.

Ping (Packet INternet Groper) - An Internet utility used to determine whether a particular IP address is online.

**POP3** (Post Office Protocol 3) - A standard mail server commonly used on the Internet.

Port - The connection point on a computer or networking device used for plugging in cables or adapters.

Power over Ethernet (PoE) - A technology enabling an Ethernet network cable to deliver both data and power.

**PPPoE** (Point to Point Protocol over Ethernet) - A type of broadband connection that provides authentication (username and password) in addition to data transport.

**PPTP** (Point-to-Point Tunneling Protocol) - A VPN protocol that allows the Point to Point Protocol (PPP) to be tunneled through an IP network. This protocol is also used as a type of broadband connection in Europe.

**RADIUS** (Remote Authentication Dial-In User Service) - A protocol that uses an authentication server to control network access.

RJ-45 (Registered Jack-45) - An Ethernet connector that holds up to eight wires.

**Roaming** - The ability to take a wireless device from one access point's range to another without losing the connection.

Router - A networking device that connects multiple networks together.

Server - Any computer whose function in a network is to provide user access to files, printing, communications, and other services.

SMTP (Simple Mail Transfer Protocol) - The standard e-mail protocol on the Internet.

SNMP (Simple Network Management Protocol) - A widely used network monitoring and control protocol.

**SPI (Stateful Packet Inspection) Firewall** - A technology that inspects incoming packets of information before allowing them to enter the network.

SSID (Service Set IDentifier) - Your wireless network's name.

Static IP Address - A fixed address assigned to a computer or device that is connected to a network.

Static Routing - Forwarding data in a network via a fixed path.

Subnet Mask - An address code that determines the size of the network.

**Switch** - 1. A data switch that connects computing devices to host computers, allowing a large number of devices to share a limited number of ports. 2. A device for making, breaking, or changing the connections in an electrical circuit.

TCP (Transmission Control Protocol) - A network protocol for transmitting data that requires acknowledgement from the recipient of data sent.

TCP/IP (Transmission Control Protocol/Internet Protocol) - A set of instructions PCs use to communicate over a network.

Teinet - A user command and TCP/IP protocol used for accessing remote PCs.

**TFTP** (Trivial File Transfer Protocol) - A version of the TCP/IP FTP protocol that has no directory or password capability.

Throughput - The amount of data moved successfully from one node to another in a given time period.

**TKIP** (Temporal Key Integrity Protocol) - a wireless encryption protocol that provides dynamic encryption keys for each packet transmitted.

Topology - The physical layout of a network.

TX Rate - Transmission Rate.

Upgrade - To replace existing software or firmware with a newer version.

Upload - To transmit a file over a network.

URL (Uniform Resource Locator) - The address of a file located on the Internet.

VPN (Virtual Private Network) - A security measure to protect data as it leaves one network and goes to another over the Internet.

WAN (Wide Area Network)- The Internet.

WEP (Wired Equivalent Privacy) - A method of encrypting network data transmitted on a wireless network for greater security.

WLAN (Wireless Local Area Network) - A group of computers and associated devices that communicate with each other wirelessly.

**WPA** (Wi-Fi **P**rotected **A**ccess) - a wireless security protocol using TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.

## **Appendix C: Specifications**

Model	PAP2T
Standards	IEEE 802.3 (10BaseT), IEEE 802.3u (100BaseTX)
Ports/Buttons	One 10/100 RJ-45 Network Port, Two Standard RJ-11 Phone Ports, One Power Port, Reset
Cabling Type	RJ45 Ethernet Category 5, RJ11 Standard Phone Cable
LEDs	Power, Ethernet, Phone 1, Phone 2
Voice Protocol	Session Initiation Protocol (SIP v2)
Voice Codecs	G.711 a-law, G.711µ-Law, G.726, G.729 A, G.723.1
Ringer Equivalence Number	5 REN per RJ-11 port
FXS Port Impedance	600 ohm terminating impedance (Configurable to match other types of impedances)
Ring Voltage	50-60 Vrms ringing voltage
Security Features	Password Protected Administration
Dimensions (W x H x D)	101 x 101 x 15 mm
Unit Weight	0.15 kg
Power	5 V DC, 2.0 A
Certifications	FCC, cUL, CE

Internet Phone Adapter with 2 Ports for Voice-over-IP

Operating Temp.	5 °C~45 °C
Storage Temp.	-25 °C~70 °C
Operating Humidity	10~90% Non-Condensing
Storage Humidity	5~90% Non-Condensing

## **Appendix D: Warranty and Registration Information**

Linksys warrants to You that, for a period of two years (the "Warranty Period"), your Linksys Product will be substantially free of defects in materials and workmanship under normal use. Your exclusive remedy and Linksys' entire liability under this warranty will be for Linksys at its option to repair or replace the Product or refund Your purchase price less any rebates. This limited warranty extends only to the original purchaser.

If the Product proves defective during the Warranty Period call Linksys Technical Support in order to obtain a Return Authorization Number, if applicable. If You are requested to return the Product, mark the Return Authorization Number clearly on the outside of the package. You are responsible for shipping defective Products to Linksys.

ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY 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 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 warranty gives You specific legal rights, and You may also have other rights which vary by jurisdiction.

This warranty does not apply if the Product (a) has been altered, except by Linksys, (b) has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, or (c) has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident. In addition, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the Product will be free of vulnerability to intrusion or attack.

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 Agreement 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.

This warranty is valid and may be processed in the country of purchase.

Please contact Linksys regarding the warranty for the Product. Refer to "Appendix F: Contact Information" for Linksys contact information.

For product registration, please visit http://www.linksys.com/registration.

Internet Phone Adapter with 2 Ports for Voice-over-IP

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# **Appendix E: Regulatory Information**

#### **FCC Statement**

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

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

#### FCC Part 68 Statement

This equipment complies with Part 68 of the FCC Rules. A label is attached to the equipment that contains, among other information, its FCC registration number and ringer equivalence number. If requested, this information must be provided to the telephone company.

This equipment uses the following USOC Jack: RJ-11.

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack, which is FCC Part 68 compliant. Connection to the telephone network should be made by using the standard modular telephone jack.

The REN is useful to determine the quantity of devices that may be connected to the telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of RENs should not exceed 5. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If this equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

In the event this equipment should fail to operate properly, disconnect the unit from the telephone line. Try using another FCC approved device in the same telephone jack. If the trouble persists, call the telephone company repair service bureau. If the trouble does not persist and appears to be with this unit, disconnect the unit from the telephone line and discontinue use of the unit until it is repaired. Please note that the telephone company may ask that you disconnect the equipment from the telephone network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. The user must use the accessories and cables supplied by the manufacturer to get optimum performance from the product.

No repairs may be done by the customer. If trouble is experienced with this equipment, please contact your authorized support provider for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved. This equipment cannot be used on telephone company provided coin service. Connection to Party Line Service is subject to state tariffs.

Safety Notices

Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.

Do not use this product near water, for example, in a wet basement or near a swimming pool.

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Industry Canada (Canada)

This device complies with Canadian ICES-003 rule. Cet appareil est conforme à la norme NMB-003 d'Industry Canada.

**CE Declaration of Conformity (Europe)** 

In compliance with the EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC, and Amendment Directive 93/68/EEC, this product meets the requirements of the following standards: EN55022 Emission and EN55024 Immunity

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

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

#### English

#### Environmental Information for Customers in the European Union

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

#### Ceština/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. Odpovidáte 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 likvidaci komunálních odpadů nebo obchodu, kde jste produkt zakoupili.





#### Dansk/Danish

#### Miljøinformation for kunder i EU

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

#### Nederlands/Dutch

#### Milieu-informatie voor klanten in de Europese Unie

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

#### Suomi/Finnish

#### Ympäristöä koskevia tietoja EU-alueen asiakkaille

EU-direktiivi 2002/96/EY edellyttää, että jos laitteistossa on tämä symboli itse tuotteessa ja/tai sen pakkauksessa, laitteistoa ei saa hävittää lajittelemattoman yhdyskuntajätteen mukana. Symboli merkitsee sitä, että tämä tuote on hävitettävä erillään tavallisesta kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektroniikkatuote ja muut vastaavat elektroniikkatuotteet viemällä tuote tai tuotteet viranomaisten määräämään keräyspisteeseen. Laitteistön oikea hävittäminen estää mahdolliset kielteiset vaikutukset ympäristöön ja ihmisten terveyteen. Lisätietoja vanhan laitteiston oikeaat hävitystavasta saa paikallisilta viranomaisilta, jätteenhävityspalvelusta tai siitä myymälästä, josta ostii tuotteen.

#### Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele

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

#### Français/French

#### Informations environnementales pour les clients de l'Union européenne

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole sur le produit et/cu son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter con atériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit du vous avez acheté le produit.

#### Deutsch/German

#### Umweltinformation für Kunden innerhalb der Europäischen Union

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

#### Ξλληνικά/Greek

#### Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης

Η Κοινοτική Οδηγία 2002/96/EC απαιτεί ότι ο εξαπλισμός ο οποίος φέρει αυτό το σύμβολο στο προϊόν και/ή στη συσκευασία του δεν τρέπει να απορρίπτεται μαζί με τα μικτά κοινοτικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορρίπτεται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παρόντος και άλλου ηλεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμμάτων οι οποίες παρέχονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη πιθανών συγητικών συνεπειών για το περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλιού σας εξοπλισμού, παρακαλώ επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες απόρριψης ή το κατάστημα από το οποίο αγοράσσει το πορίολν.

#### Lietuvškai/Lithuanian

#### Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

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

#### Latviešu valoda/Latvian

#### Ekoloģiska informācija klientiem Eiropas Savienības jurisdikcijā

Direktīvā 2002/96/EK ir prasība, ka aprīkojumu, kam pievienota zīme uz paša izstrādājuma vai uz tā iesaiņojuma, nedrīkst izmest nešķirotā veidā kopā ar komunālajiem atkritumiem (tiem, ko rada vietēji iedzīvotāji un uzņēmumi). Šī zīme nozīmē to, ka šī ierīce ir jāizmet atkritumos tā, lai tā nenonāktu kopā ar parastiem mājsaimniecības atkritumiem. Jūsu pienākums ir šo un citas elektriskas un elektroniskas ierīces izmest atkritumos, izmantojot īpašus atkritumu savākšanas veidus un līdzekļus, ko nodrošina valsts un pašvaldību iestādes. Ja izmešana atkritumos un pārstrāde tiek veikta pareizi, tad mazinās iespējamais kaitējums dabai un cilvēku veselībai. Sīkākas ziņas par novecojuša aprīkojuma izmešanu atkritumos jūs varat saņemt vietējā pašvaldībā, atkritumu savākšanas dienestā, kā arī veikalā, kur iegādājāties šo izstrādājumu.

#### **Appendix E:**

#### Italiano/Italian

#### Informazioni relative all'ambiente per i clienti residenti nell'Unione Europea

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate on questo simbolo sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifuti domestici. E 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 edi 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.

#### 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, tílos a többi szelektálatlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kidobásakor a szokványos háztartási hulladékelszállítási rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt. és más elektromis és elektronikus berendezéseit a kományzati vagy a helyi hatóságok által kijelölt gyűjföredszereken keresztül számolja fel. A megfelelő hulladékfeldogzás segít a környezetre és az emberi egészségre potencialisan ártalmas negatív hatások megelőzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékfeldogzási szolgálattal, vagy azal üzlettel, ahol a terméket vásárolta.

#### Malti/Maltese

#### Informazzjoni Ambjentali għal Klijenti fl-Unjoni Ewropea

Id-Direttiva Ewropea 2002/96/KE titlob li t-taghmir li jkun fih is-simbolu fuq ilprodott u/jew fuq l-ippakkjar ma jistax jinterma ma' skart municipali li ma giex isseparat. Is-simbolu jindika li dan il-prodott ghandu jinterma separatament minn ma' l-iskart domestiku regolari. Hija responsabbiltà tieghek li tarmi dan it-taghmir u kull taghmir iehor ta' l-elettriku u elettroniku permezz ta' facilitajiet ta' gbir appuntati apposta mill-gvern jew mill-awtoritajiet lokali. Ir-rimi b'mod korrett u rriciklagg jghin jipprevjeni konsegwenzi negattivi potenzjali ghal-ambjent u ghassahha tal-bniedem. Ghal aktar informazzjoni dettaljata dwar ir-rimi tat-taghmir antik tieghek, jekk joghgbok ikkuntattja lill-awtoritajiet lokali tieghek, is-servizzi ghar-rimi ta' l-iskart, jew il-hanut minn fejn xtraji li-prodott.

#### Norsk/Norwegian

#### Miljøinformasjon for kunder i EU

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

#### Português/Portuguese

#### Informação ambiental para clientes da União Europeia

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo no produto e/ou na sua embalagem não seja eliminado junto com os residuos municipais não separados. O símbolo indica que este produto deve ser eliminado separadamente dos residuos domésticos regulares. E da sua responsabilidade eliminar este e qualquer outro equipamento eléctrico e electrônico através dos 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 residuos ou o estabelecimento comercial onde adquiriu o produto.

#### Polski/Polish

### Informacja dla klientów w Unii Europejskiej o przepisach dotyczących ochrony środowiska

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

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#### Slovenčina/Slovene

#### Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/EC prepoveduje odlaganje opreme, označene s tem simbolom – na izdelku in/ali na embalaži – med običajne, nerazvrščene odpadke. Ta simbol opozarja, da je treba izdelek odvrčel ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo odnesete na posebna zbirališča, ki jih določijo državne ustanove ali lokalna uprava. S pravlinim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalno upravo, odpad ali trgovino, kjer ste izdelek kupili.

#### Slovenčina/Slovak

#### Informácie o ochrane životného prostredia pre zákazníkov v Európskej únii

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

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

#### Svenska/Swedish

#### Miljöinformation för kunder i Europeiska unionen

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

#### For more information, visit www.linksys.com.

Internet Phone Adapter with 2 Ports for Voice-over-IP

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# **Appendix F: Contact Information**

Need to contact Linksys?

Visit us online for information on the latest products and updates to your existing products at:

http://www.linksys.com/international

If you experience problems with any Linksys product, you can e-mail us at:

In Europe	E-mail Address
Austria	support.at@linksys.com
Belgium	support.be@linksys.com
Denmark	support.dk@linksys.com
France	support.fr@linksys.com
Germany	support.de@linksys.com
Italy	support.it@linksys.com
Netherlands	support.nl@linksys.com
Norway	support.no@linksys.com
Portugal	support.pt@linksys.com
Spain	support.es@linksys.com
Sweden	support.se@linksys.com

In Europe	E-mail Address
Switzerland	support.ch@linksys.com
United Kingdom & Ireland	support.uk@linksys.com

Outside of Europe	E-mail Address
Asia Pacific	asiasupport@linksys.com (English only)
Latin America	support.portuguese@linksys.com or support.spanish@linksys.com
Middle East & Africa	support.mea@linksys.com (English only)
U.S. and Canada	support@linksys.com

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