

LINKSYS®

A Division of Cisco Systems, Inc.



Wireless-G

IP Phone

User Guide

VoIP
Voice

Model No. **WIP330**

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

How to Use this Guide

The User Guide to the Wireless-G IP Phone has been designed to make understanding networking with the IP Phone easier than ever. Look for the following items when reading this User Guide:



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



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



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

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

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

word: definition.

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

Figure 0-1: Sample Figure Description

Wireless-G IP Phone

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Chapter 1: Introduction

Welcome

Thank you for choosing the Linksys Wireless-G IP Phone. It will allow you to make phone calls using your broadband connection, whether you are at home, in your office, or at a public hotspot.

How does the IP Phone do this? It connects to your wireless router or gateway, so telephone service is delivered through your cable or DSL Internet connection. You can also surf the Internet with its built-in web browser and backlit, full-color screen.

But what does all of this mean? Networks are useful tools for sharing Internet access and computer resources. Your voice calls can share your high-speed Internet connection. You will be able to make phone calls using the account you set up with your Internet phone service provider, even while you're surfing the Internet on your computer. So, networks not only are useful in homes and offices, but also can be fun.

Use the instructions in this User Guide to help you connect the IP Phone after you have set up an account with your Internet phone service provider. These instructions should be all you need to get the most out of the Wireless-G IP Phone.

What's in This User Guide?

This guide covers the steps for installing the Wireless-G IP Phone.

- Chapter 1: Introduction
This chapter describes the IP Phone's applications and this User Guide.

ip (internet protocol): a protocol used to send data over a network.

***network:** a series of computers or devices connected for the purpose of data sharing, storage, and/or transmission between users.*



NOTE: For information about your Internet phone service, refer to the materials provided by your Internet phone service provider.

Wireless-G IP Phone

- **Chapter 2: Getting to Know the Wireless-G IP Phone**
This chapter describes the physical features of the IP Phone.
- **Chapter 3: Installing and Using the Wireless-G IP Phone**
This chapter explains how to install the IP Phone and use it.
- **Chapter 4: Configuring the Wireless-G IP Phone**
This chapter discusses how to configure the IP Phone's settings.
- **Appendix A: Troubleshooting**
This appendix describes some potential problems and solutions, as well as frequently asked questions, regarding use of the IP Phone.
- **Appendix B: Glossary**
This appendix gives a brief glossary of terms frequently used in networking.
- **Appendix C: Specifications**
This appendix provides the technical specifications for the IP Phone.
- **Appendix D: Warranty Information**
This appendix supplies the warranty information for the IP Phone.
- **Appendix E: Regulatory Information**
This appendix supplies the regulatory information regarding the IP Phone.
- **Appendix F: Contact Information**
This appendix provides contact information for a variety of Linksys resources, including Technical Support.

Chapter 2: Getting to Know the Wireless-G IP Phone

The Bottom Panel

The IP Phone's headset jack and USB port are located on the bottom panel.



Figure 2-1: Bottom Panel

- | | |
|--------------|---|
| Headset Jack | This jack allows you to connect a headset. |
| USB Port | The USB port allows you to attach the included power adapter. |

The Front and Side Panels

The power LED is located at the top of the IP Phone, while its buttons are located on the front and side panels.

Power LED Blue/Red/Purple. The LED is a solid blue when the IP Phone is powered on and ready for phone calls. It flashes red when the IP Phone is not ready for phone calls.

The LED alternates between blue and purple when the IP Phone is powered off and charging.

The buttons of the IP Phone are described in this table.


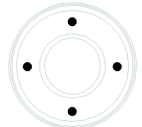




Icon	Button Name	Function
	Soft Key	Selects the appropriate action shown on the left- or right-hand side of the screen
	Navigation Pad and Center Selection Key	Lets you navigate menus and select your choices Controls cursor for its web browser
	Call	Uses Internet phone line



Figure 2-2: Front Panel

Icon	Button Name	Function
	Power or End Call	<p>Press and hold this button for two seconds to power the IP Phone on or off.</p> <p>Ends the call or exits the current menu</p>
	Different Key Choices or + Sign	<p>To enter an entry or setting, use the keypad. Keys 1-9 can represent uppercase letters (A, B, C), lowercase letters (a, b, c), or numbers (1, 2, 3). Press the * (star) key to switch between the different choices.</p> <p>Press the * (star) key twice to enter the + sign.</p>
	Enter Symbol or Space	<p>Press the # (pound) key to open the Symbol Selection menu. Use the navigation pad to move through the menu. When you have the appropriate symbol highlighted, press the center selection key.</p> <p>Press the # (pound) key twice to enter a space.</p>

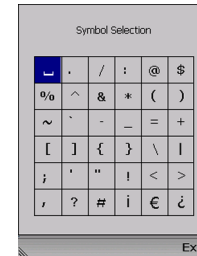




Figure 2-3: Symbol Selection

Icon	Button Name	Function
	Volume	Increases or decreases the volume
		

The Back Panel

The IP Phone's battery compartment is located on the back panel of the IP Phone. For directions on how to insert the battery, refer to "Chapter 3: Installing and Using the Wireless-G IP Phone."



Figure 2-4: Side Panel

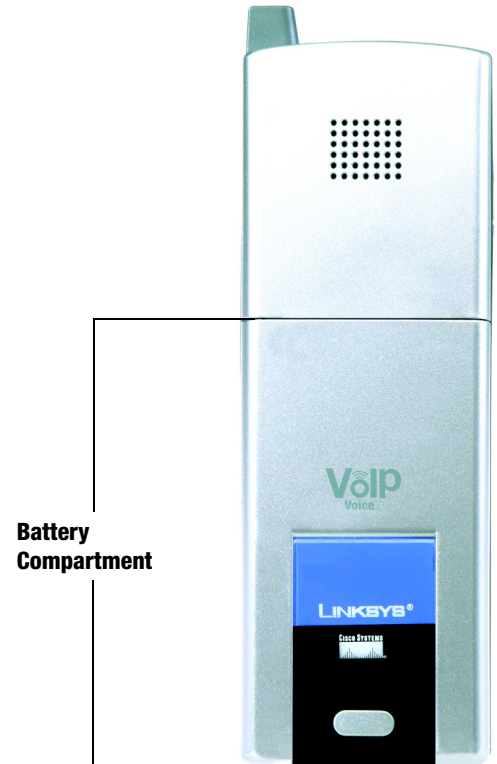


Figure 2-5: Back Panel

Chapter 3: Installing and Using the Wireless-G IP Phone

Overview

This chapter provides instructions for first-time installation and use of the IP Phone. You will insert the battery into the IP Phone and then set it up for your wireless network and Internet phone service. Then you will be able to make and receive Internet phone calls.

Inserting the Battery into the Wireless-G IP Phone

To insert the battery, follow these instructions:

1. Remove the cover of the battery compartment. Push down on the button and slide the cover downward.
2. Insert the battery. Make sure the metal contacts of the battery line up with the metal contacts of the battery compartment.
3. Insert the door and slide it upward until it snaps into place.

Proceed to the next section, "Powering on the Wireless-G IP Phone."

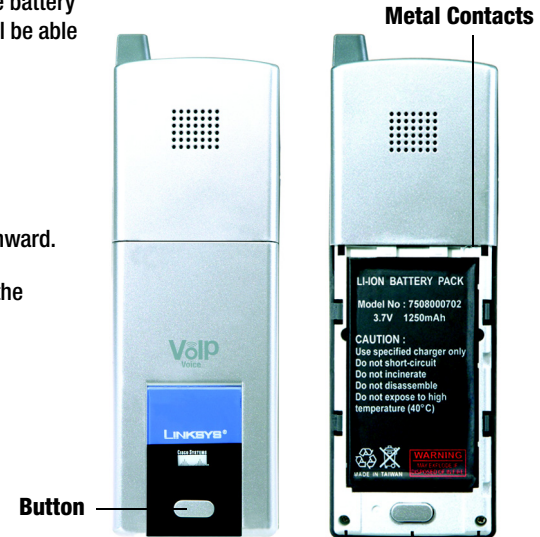


Figure 3-1: Press the Button

Figure 3-2: Insert the Battery

Powering on the Wireless-G IP Phone

Make sure you have the account information, including necessary IP Phone settings, supplied by your Internet phone service provider. If you already have an account set up with your Internet phone service provider, then proceed to step 1. If you do not have an account, then go to the website of your Internet phone service provider and sign up for service. After you have set up an account, proceed to step 1.

1. Make sure you have the account information, including necessary IP Phone settings, supplied by your Internet phone service provider.
2. Plug the USB mini-B connector of the included power adapter into the USB mini-B port of the IP Phone. Then connect the power adapter to a standard electrical outlet.



Figure 3-3: Connect the Power

3. The power LED will flash, alternating between blue and purple. For the initial charge, allow the battery to charge for at least 10 hours, so the battery will have a full charge, which is indicated by a solidly lit power LED. This maximizes battery performance and life.


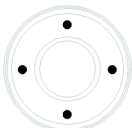




NOTE: When the battery is low on power, it will emit one warning sound or vibration, unless the Ring Type is set to Silent. (For more information about Ring Types, refer to Chapter 4: Configuring the Wireless-G IP Phone.)

When the battery is fully charged, proceed to “Navigating the Wireless-G IP Phone.”

Navigating the Wireless-G IP Phone

Review the descriptions of the buttons you will use to navigate menus and select your choices.

Icon	Button Name	Function
	Soft Key	Press the left or right soft key to select the appropriate action shown on the left- or right-hand side of the screen.
	Navigation Pad and Center Selection Key	To navigate menus and control the cursor for the web browser, use the navigation pad. Use the center selection key to make menu choices.
	Call	Uses Internet phone line
	Power or End Call	To exit a menu without making changes, press this button.

Power LED



Key Choice

Navigation Pad and Center Selection Key

Soft Key

Soft Key



Call

Power or End Call

Different Key Choices or + Sign

Enter Symbol or Space

Figure 3-4: Front Panel

Icon	Button Name	Function
	Different Key Choices or + Sign	To enter an entry or setting, use the keypad. Keys 1-9 can represent uppercase letters (A, B, C), lowercase letters (a, b, c), or numbers (1, 2, 3). Press the * (star) key to switch between the different choices. Press the * (star) key twice to enter the + sign.
	Enter Symbol or Space	Press the # (pound) key to open the Symbol Selection menu. Use the navigation pad to move through the menu. When you have the appropriate symbol highlighted, press the center selection key. Press the # (pound) key twice to enter a space.

For more details, refer to “Chapter 2: Getting to Know the Wireless-G IP Phone.”

Proceed to “Setting up the Wireless-G IP Phone.”

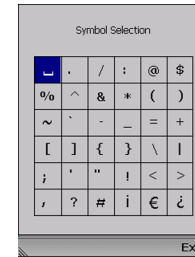


Figure 3-5: Symbol Selection

Setting up the Wireless-G IP Phone

Before you begin, make sure your network has an active Internet connection.

1. Press and hold the **Power** button for two seconds.
2. The IP Phone will boot up and automatically scan for wireless networks.
3. A list of wireless networks will be displayed and show their wireless network names (also known as Service Set Identifier or SSID), security status (a lock indicates wireless security), and signal strength, which is indicated by a bar graph.

Scroll through the network choices, and press the center selection key (in the middle of the navigation pad) to select the wireless network you want to use.

If the network you want is not shown, select **Rescan** for a new scan.

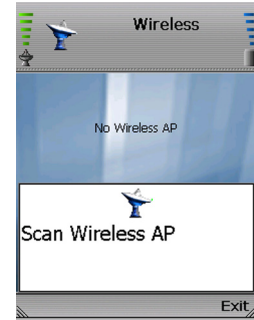


Figure 3-6: Scan for Wireless Networks

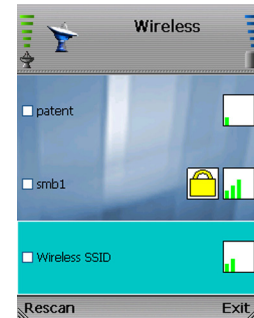


Figure 3-7: Select Wireless Network

4. The IP Phone will automatically connect to the network you have selected.

If WEP security is enabled on the selected network, a new screen will appear. Using the navigation pad, select the appropriate transmit key number and then move to the *WEP Key* field. Enter the network's WEP key. Press the center selection key.

If WPA security is enabled on the selected network, a new screen will appear. Enter the network's WPA key. Press the center selection key.

5. You will be notified when the IP Phone has connected to the network, and a checkmark will appear next to the name of the network.

Select **Exit**.

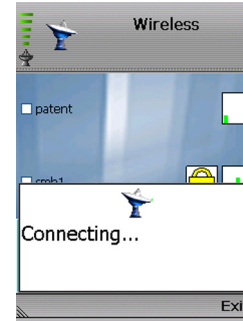


Figure 3-8: Connect to Wireless Network



Figure 3-9: Enter WEP Key (Secured Network)

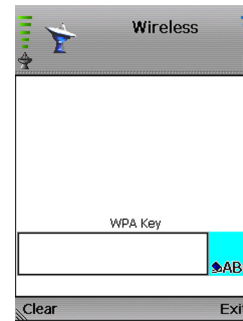


Figure 3-10: Enter WPA Key (Secured Network)

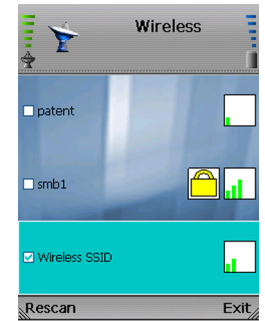


Figure 3-11: Successful Connection

6. The standby screen will appear. Select **Menu**.

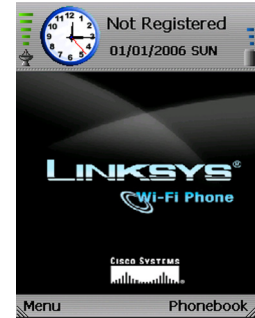


Figure 3-12: Select Menu

7. Phone Settings will be highlighted. Navigate the menu choices, and then select **SIP Settings**. (SIP stands for Session Initiation Protocol.)



Figure 3-13: Select SIP Settings

8. A list of SIP settings will be displayed. For the Proxy IP setting, select **Edit**.



NOTE: The Proxy IP address and other information should have been supplied by your Internet phone service provider. If you do not have this information, contact your Internet phone service provider.

9. Enter the Proxy IP address in the new window, and then press the center selection key.



Figure 3-14: Edit Proxy IP



Figure 3-15: Save Proxy IP

10. Scroll down to Proxy Port, and select **Edit**.

11. Enter the Proxy Port number address in the new window, and then press the center selection key.

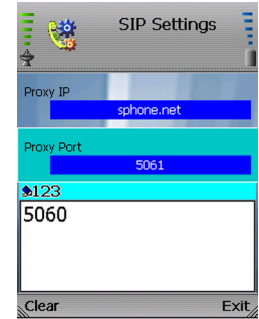


Figure 3-16: Save Proxy Port

12. Scroll down to Register Proxy IP, and select **Edit**.

13. Enter the Register Proxy IP address in the new window, and then press the center selection key.



Figure 3-17: Save Register Proxy IP

14. Scroll down to Register Proxy Port, and select **Edit**.

15. Enter the Register Proxy Port number in the new window, and then press the center selection key.



Figure 3-18: Save Register Proxy Port

16. Scroll down to Outbound Proxy IP, and select **Edit**.

17. Enter the Outbound Proxy IP address in the new window, and then press the center selection key.



Figure 3-19: Save Outbound Proxy IP

18. Scroll down to Outbound Proxy Port, and select **Edit**.

19. Enter the Outbound Proxy Port number in the new window, and then press the center selection key.



Figure 3-20: Edit Outbound Proxy Port

20. If your Internet phone service provider did not provide an Expire Time setting, then keep the default setting, **3600** seconds, and proceed to step 22.

If your Internet phone service provider provided an Expire Time setting, then scroll down to Expire Time, and select **Edit**.

21. Enter the Expire Time in the new window, and then press the center selection key.

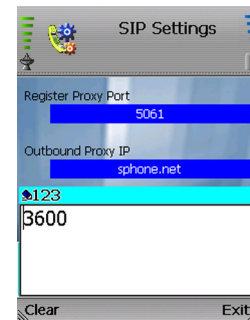


Figure 3-21: Save Expire Time

22. Scroll down to Phone Number, and select **Edit**.
23. Enter the Phone Number you will use for Internet phone calls, and then press the center selection key.

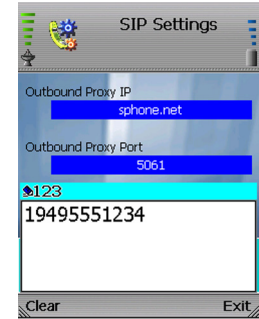


Figure 3-22: Save Phone Number

24. Scroll down to User Name, and select **Edit**.
25. Enter the User Name in the new window, and then press the center selection key.



Figure 3-23: Save User Name

26. Scroll down to Password, and select **Edit**.

27. Enter the Password, and then press the center selection key.

28. On the *SIP Settings* screen, select **Return**.

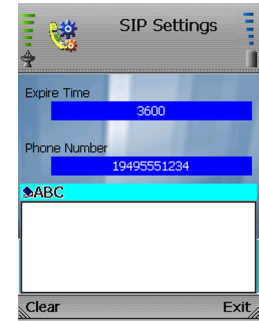


Figure 3-24: Save Password

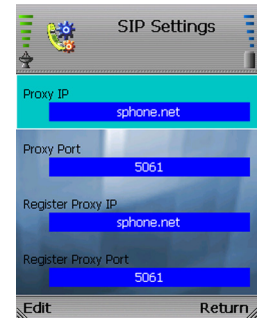


Figure 3-25: Save SIP Settings

29. On the main menu, select **Return**.



Figure 3-26: Return to Standby Screen

30. The standby screen will indicate that the IP Phone is ready for phone calls.

The installation of the Wireless-G IP Phone is complete. Proceed to the next section, “Using the Wireless-G IP Phone.”



Figure 3-27: Standby Screen

Using the Wireless-G IP Phone

To make a call, enter the phone number you want to call. Then press the **Call** button. When you are on a phone call, select **Option** to see a list of menu choices. Select **HangUp** to end the call.

To change the volume, use the **+** and **-** buttons on the side panel of the IP Phone. For more information about the buttons on the IP Phone, refer to “Chapter 2: Getting to Know the Wireless-G IP Phone.”

LineOption

When you are on a call, you have several options available. Press the left softkey to make a selection, and press the right softkey to return to the previous menu. Use the navigation pad to scroll through menu choices.

HangUp. To end the call, select **HangUp**.

Mute. To mute the call, select **Mute**. Then select **UnMute** when you are ready to talk.

Hold. To put a call on hold, select **Hold**. Then select **UnHold** when you are ready to return to this call.

Line-2. When you want to switch back and forth between two separate conversations, use the Line-2 feature. When you are on your first call, select **Line-2** to switch to a second line. A new window will appear. Enter the phone number of the second call, and then press the **Call** button. The current call will be put on hold, and you will be switched to the second call. Select **Switch** to switch back to the first call.

Transfer. There are two types of transfer features available. Use the Transfer feature when you want to introduce the caller you are transferring. Use the Blind TFR (Transfer) feature when you want to transfer the caller without introduction. When you are on your call, select **Transfer**. A new window will appear. Enter the phone number to which you want to transfer the call, and then press the **Call** button. When the second call is answered, speak to the answering party and select **Transfer**. Then hang up.

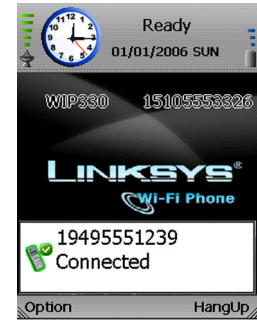


Figure 3-28: Call Connected

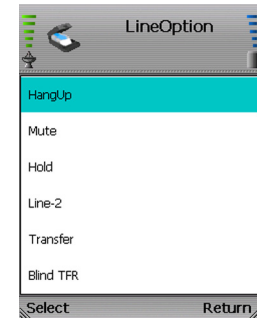


Figure 3-29: Line Options

Blind TFR. For a blind transfer, select **Blind TFR**. Dial the number to which you want to transfer the call. Select **Blind TFR** again. Then hang up. When you are on your call, select **Blind TFR**. A new window will appear. Enter the phone number to which you want to transfer the call, and then press the **Call** button. Then hang up.

Conference. When you are on your call, select **Conference**. A new window will appear. Enter the phone number of the second call, and then press the **Call** button. When the second call is answered, select **Conference**.

Second Incoming Call

When you have a second call coming in, you can select **Option** to see a list of menu choices. Select **HangUp** to end the call.

Keyguard

To lock the keys, press and hold down the # key. To unlock the keys, select **Unlock** and then press the * key.

Voicemail

For instructions on how to check your voicemail, contact your Internet phone service provider.

To configure additional settings, proceed to “Chapter 4: Configuring the Wireless-G IP Phone.”



Figure 3-30: Second Call

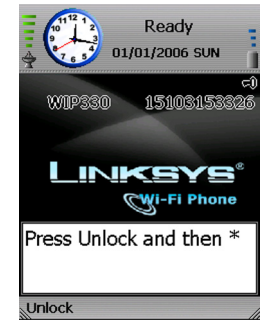


Figure 3-31: Unlock Keys

Chapter 4: Configuring the Wireless-G IP Phone

Instructions for Configuring the Wireless-G IP Phone

Follow these instructions to configure the IP Phone's settings. You will use these buttons to navigate menus and select your choices.


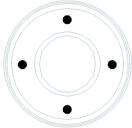



Icon	Button Name	Function
	Soft Key	Press the left or right soft key to select the appropriate action shown on the left- or right-hand side of the screen.
	Navigation Pad and Center Selection Key	To navigate menus and control the cursor for the web browser, use the navigation pad. Use the center selection key to make menu choices.
	Power or End Call	To exit a menu without making changes, press this button.



Figure 4-1: Front Panel

Icon	Button Name	Function
	Different Key Choices or + Sign	<p>To enter an entry or setting, use the keypad. Keys 1-9 can represent uppercase letters (A, B, C), lowercase letters (a, b, c), or numbers (1, 2, 3). Press the * (star) key to switch between the different choices.</p> <p>Press the * (star) key twice to enter the + sign.</p>
	Enter Symbol or Space	<p>Press the # (pound) key to open the Symbol Selection menu. Use the navigation pad to move through the menu. When you have the appropriate symbol highlighted, press the center selection key.</p> <p>Press the # (pound) key twice to enter a space.</p>

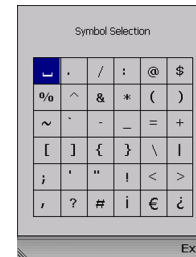


Figure 4-2: Symbol Selection

Status Information

The standby screen will display a variety of information about the IP Phone.

Wireless Signal Strength

At the top of the screen, the icon on the left indicates wireless signal strength.

Time Display

The current time is shown. To change this time and its format, analog or digital, use the main menu.

Status of the IP Phone

The IP Phone has three status messages. “Ready” indicates that the IP Phone is ready to make and receive calls. “Not Ready” indicates that the IP Phone has no wireless connection. “Not Registered” indicates that the IP Phone does not have a registered phone number.

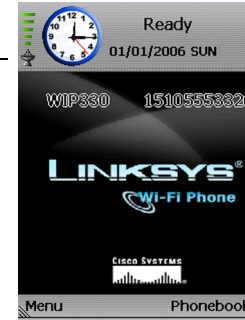
Date Display

The date display gives you the current date. You can change this date using the main menu.

Battery Strength

The icon on the right of the screen indicates battery strength of the IP Phone.

Wireless
Signal
Strength



Battery
Strength

Figure 4-3: Standby Screen

Wireless Network Name

The screen displays the name of the wireless network used by the IP Phone.

Internet Phone Number

The Internet phone number of the IP Phone is shown.

Menu

Press the left soft key button to view the main menu. Its choices will be described in further detail below.

Phonebook

Press the right soft key to access the Phonebook. This can also be accessed through the main menu.

Web Browsing

Press the center selection key to launch the web browser.

Settings of the Wireless-G IP Phone

You will have nine menu choices: Call Log, Phone Book, Network Settings, Wireless, Phone Settings, SIP Settings, Web Site, Web Cam, and Information.

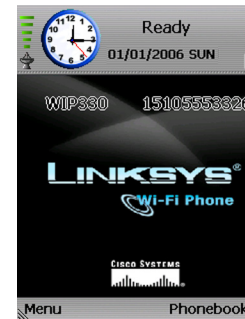


Figure 4-4: Standby Screen



Figure 4-5: Main Menu

Call Log

Scroll through these choices and press the left soft key to make a selection. Select **Return** to return to the previous menu.

Missed

A list of missed calls will be displayed. Scroll through the calls to select the call you want. Select **Option** to see menu choices for the selected call. Select **Return** to return to the previous menu.

Option

You have these choices: Dial (available when you have contacts in the Phone Book), Delete (available when you have contacts in the Phone Book), Delete All, and Add to (or Modify) PhoneBook. Select **Return** to return to the previous menu.

Dial. Select **Dial** to dial the phone number of the selected call.

Delete. Select **Delete** to delete the selected call.

Delete All. Select **Delete All** to delete all calls.

Add to (or Modify) PhoneBook. If the call information is new, select **Add to PhoneBook** to add the phone number to the Phone Book. To select the type of phone number it is, scroll down and select **Home**, **Office**, **Mobile**, **Home-2**, **Office-2**, or **Mobile-2** (select **Return** if you want to return to the previous menu). The *Add Person* screen will appear. Then follow the instructions for the Phone Book settings.

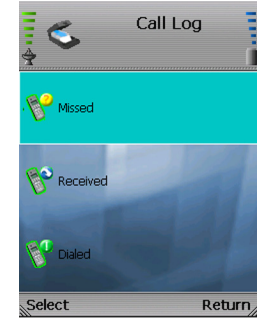


Figure 4-6: Call Log

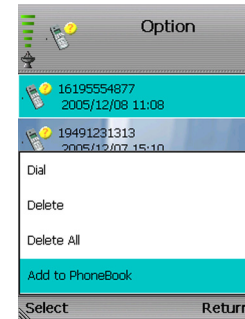


Figure 4-7: Call Log Options

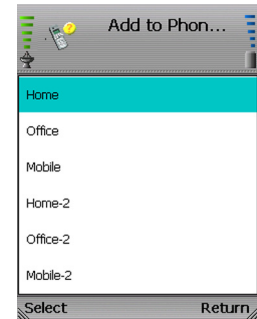


Figure 4-8: Type of Phone Number

Wireless-G IP Phone

If the phone number is already in the Phone Book, select **Modify PhoneBook** to modify its entry in the Phone Book. The *Phone Book* screen will automatically appear. Follow the instructions for the Phone Book settings.

Received

A list of received calls will be displayed. Select **Option** to see menu choices for the selected call. Select **Return** to return to the previous menu.

Option

You have these choices: Dial (available when you have contacts in the Phone Book), Delete (available when you have contacts in the Phone Book), Delete All, and Add to (or Modify) PhoneBook. Select **Return** to return to the previous menu.

Dial. Select **Dial** to dial the phone number of the selected call.

Delete. Select **Delete** to delete the selected call.

Delete All. Select **Delete All** to delete all calls.

Add to (or Modify) PhoneBook. If the call information is new, select **Add to PhoneBook** to add the phone number to the Phone Book. To select the type of phone number it is, scroll down and select **Home, Office, Mobile, Home-2, Office-2, or Mobile-2** (select **Return** if you want to return to the previous menu). The *Add Person* screen will appear. Then follow the instructions for the Phone Book settings.

If the phone number is already in the Phone Book, select **Modify PhoneBook** to modify its entry in the Phone Book. The *Phone Book* screen will automatically appear. Follow the instructions for the Phone Book settings.

Dialed

A list of dialed calls will be displayed. Select **Option** to see menu choices for the selected call. Select **Return** to return to the previous menu.

Option

You have these choices: Dial (available when you have contacts in the Phone Book), Delete (available when you have contacts in the Phone Book), Delete All, and Add to (or Modify) PhoneBook. Select **Return** to return to the previous menu.

Dial. Select **Dial** to dial the phone number of the selected call.

Delete. Select **Delete** to delete the selected call.

Delete All. Select **Delete All** to delete all calls.

Add to (or Modify) PhoneBook. If the call information is new, select **Add to PhoneBook** to add the phone number to the Phone Book. To select the type of phone number it is, scroll down and select **Home, Office, Mobile, Home-2, Office-2, or Mobile-2** (select **Return** if you want to return to the previous menu). The *Add Person* screen will appear. Then follow the instructions for the Phone Book settings.

If the phone number is already in the Phone Book, select **Modify PhoneBook** to modify its entry in the Phone Book. The *Phone Book* screen will automatically appear. Follow the instructions for the Phone Book settings.

Wireless-G IP Phone Phone Book

You will see a list of contacts (when you have contacts in the Phone Book). To search for an entry, enter the contact's name in the field provided. The appropriate entry will be selected.

Select **Option** to see menu choices. Select **Return** to return to the previous menu.

Option

You have these choices: Edit (available when you have contacts in the Phone Book), Add, Delete (available when you have contacts in the Phone Book), and Mem Usage. Select **Return** to return to the previous menu.

Edit. Select **Edit** to edit a contact's information: Name, Home Number, Office Number, Mobile Number, Home-2 Number, Office-2 Number, Mobile-2 Number, Speed-Dial Number, Ring Tone, and E-Mail. For each setting, select **Edit**. Enter the appropriate information in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu. After you have finished your edits, select **Return** to return to the *Phone Book* screen.



Figure 4-9: Select Phone Book

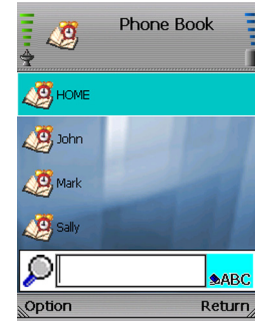


Figure 4-10: Phone Book

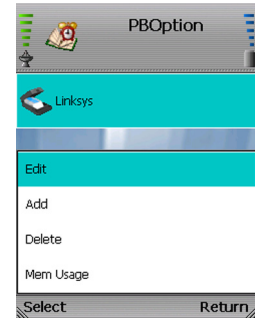


Figure 4-11: Phone Book Options

Add. Select **Add** to add a new contact. Scroll through the different settings: Name, Home Number, Office Number, Mobile Number, Home-2 Number, Office-2 Number, Mobile-2 Number, Speed-Dial Number, Ring Tone, and E-Mail. For each setting, select **Edit**. Enter the appropriate information in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu. After you have entered all of the new contact information, select **Return** to return to the *Phone Book* screen.

Delete. To delete a contact, scroll down the entries until the contact is highlighted. Select **Option** and then select **Delete**. Then you will be automatically returned to the *Phone Book* screen.

Mem Usage. Select **Mem Usage** to find out how much memory has been used. The total number of phone book entries available and number of entries used will be displayed. Select **Exit** to return to the *Phone Book* screen.

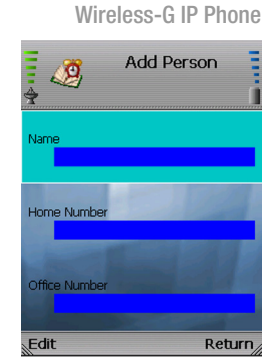


Figure 4-12: Add Person

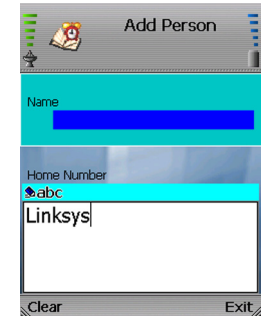


Figure 4-13: Enter Name

Wireless-G IP Phone Network Settings

You have two IP Modes available, DHCP and Fixed IP. In most cases, you should keep the default setting, **DHCP**, if your network router or gateway will assign IP addresses to the IP Phone. If you want to assign a static IP address to the IP Phone, select **Fixed IP**. To change the IP Mode, select **Edit**. The on-screen choices will change depending on which IP Mode is selected. Press the center selection key to save the new information, or select **Return** to return to the previous menu.

DHCP

If DHCP is selected as the IP Mode, there are no other settings to change. Select **Return** to return to the previous menu.



Figure 4-14: Select Network Settings

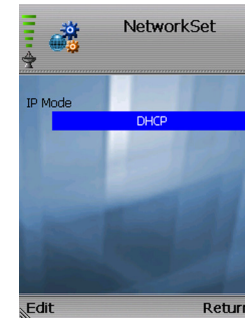


Figure 4-15: Network Settings - DHCP

ip address: the address used to identify a computer or device on a network.

Fixed IP

If Fixed IP is selected as the IP Mode, the screen will show these settings: IP Address, Subnet Mask, Default Gateway, Primary DNS, and Secondary DNS.

IP Address. To add or change the IP Address, select **Edit**. Enter the new IP Address in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Subnet Mask. To add or change the Subnet Mask, select **Edit**. Enter the new Subnet Mask in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Default Gateway. To add or change the Default Gateway, select **Edit**. Enter the new IP address of the Default Gateway in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Primary DNS. To add or change the Primary DNS address, select **Edit**. Enter the new DNS IP address in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Secondary DNS. To add or change the Secondary DNS address, select **Edit**. Enter the new DNS IP address in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

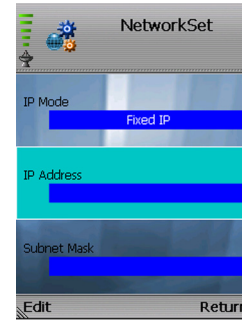


Figure 4-16: Network Settings - Fixed IP

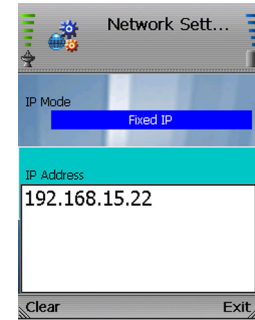


Figure 4-17: Enter IP Address

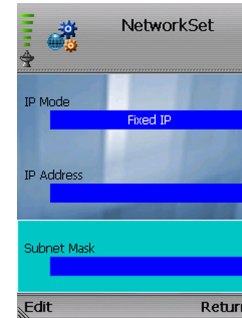


Figure 4-18: Edit Subnet Mask

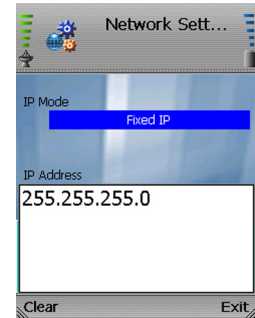


Figure 4-19: Enter Subnet Mask

Wireless

You have three choices, Set Wi-Fi, Profiles, and Hotspot. If you want to scan for wireless networks in your local area, select **Set Wi-Fi**. If you want to set configuration profiles for different network setups, select **Profiles**. The *Hotspot* screen lists the IP Phone's default hotspots. If you want to save your user name and password for these default hotspots, select **Hotspot**. Press the left soft key to make a selection. Select **Return** to return to the previous menu.

Set Wi-Fi

After you have selected Set Wi-Fi, the IP Phone will scan the local area for wireless access points or routers. A list of wireless networks, including hotspots, will be displayed and show their wireless network names, security status (a lock indicates wireless security), and signal strength, which is indicated by a bar graph.

There are three sets of instructions. If you will connect to a wireless network, proceed to this section, "Connection to a Wireless Network."

The IP Phone has a list of default hotspots, which are shown on the *Hotspot* screen. If you will connect to a default hotspot, proceed to this section, "Connection to a Default Hotspot."

If you will connect to a new hotspot, proceed to this section, "Connection to a New Hotspot."

Connection to a Wireless Network

1. Scroll through the choices, and press the center selection key (in the middle of the navigation pad) to select the wireless network you want to use.

If the network you want is not shown, select **Rescan** for a new scan.

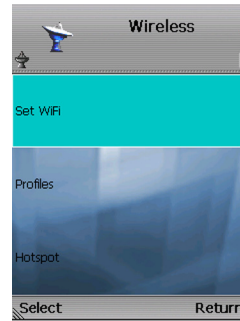


Figure 4-20: Wireless

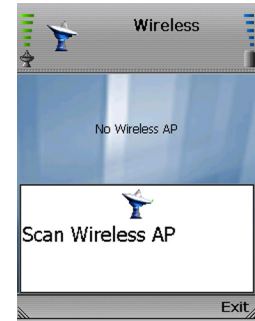


Figure 4-21: Scanning for Wireless Networks

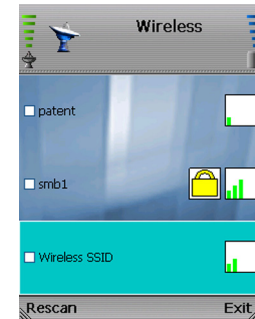


Figure 4-22: List of Wireless Networks

2. The IP Phone will automatically connect to the network you have selected.

WEP Security

If WEP security is enabled on the selected network, a new screen will appear. Using the navigation pad, select the appropriate transmit key number and then move to the *WEP Key* field. Enter the network's WEP key. Press the center selection key.

WPA Security

If WPA security is enabled on the selected network, a new screen will appear. Enter the network's WPA key. Press the center selection key.

3. You will be notified when the IP Phone has connected to the network, and a checkmark will appear next to the name of the network.

Select **Exit** to return to the *Wireless* screen.

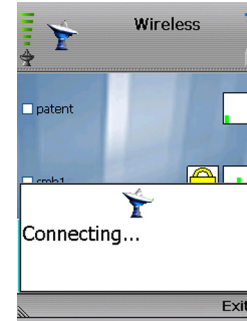


Figure 4-23: Connecting to Wireless Network



Figure 4-24: Enter WEP Key (for Secured Network)

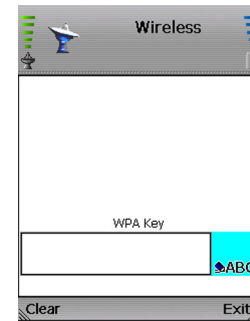


Figure 4-25: Enter WPA Key (for Secured Network)

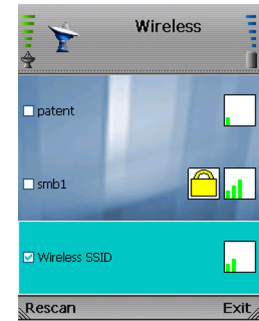


Figure 4-26: Connecting to Wireless Network

Connection to a Default Hotspot

Before you begin, make sure you have saved your User Name and Password for the default hotspot you want to use. These login settings can be configured through the *Hotspot* screen.

1. Scroll through the choices, and press the center selection key (in the middle of the navigation pad) to select the wireless hotspot you want to use.

If the hotspot you want is not shown, select **Rescan** for a new scan.

2. You will be notified when the IP Phone has connected to the hotspot, and a checkmark will appear next to the name of the hotspot.
3. A new window will appear. On the *Select Hotspot* screen, scroll through the choices, and press the center selection key to select the appropriate hotspot.

(If the hotspot you want is not listed on the *Select Hotspot* screen, proceed to step 3 of the following section, "Connection to a New Hotspot.")

4. The IP Phone will automatically use your User Name and Password to log in.

After you have logged in, select **Exit** to return to the *Wireless* screen.

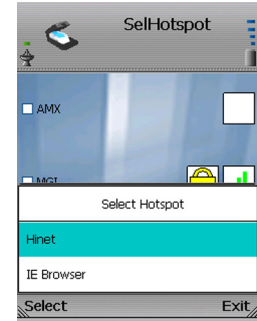


Figure 4-27: Select Default Hotspot

Connection to a New Hotspot

1. Scroll through the choices, and press the center selection key (in the middle of the navigation pad) to select the wireless hotspot you want to use.

If the hotspot you want is not shown, select **Rescan** for a new scan.

2. You will be notified when the IP Phone has connected to the hotspot, and a checkmark will appear next to the name of the hotspot.
3. A new window will appear. On the *Select Hotspot* screen, select **IE Browser**.
4. The web browser will automatically open. Follow the on-screen instructions to access the hotspot.
5. After you have gained access, you can browse the Internet.

If you want to save the new hotspot's settings, follow these instructions:

1. When you are connected to the new hotspot, view the main menu.
2. Select **Wireless**.
3. Select **Profiles**.
4. Select **Option**.
5. Select **Save <network name>**.

Then you will be automatically returned to the *Wi-Fi Profiles* screen.

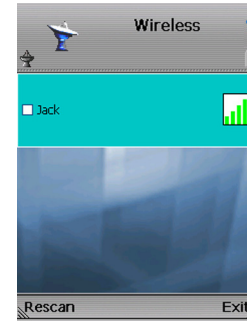


Figure 4-28: Detect Hotspot

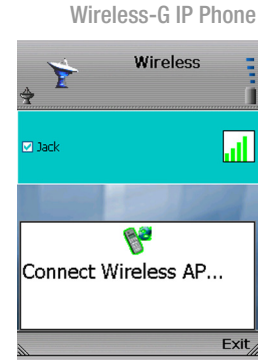


Figure 4-29: Connecting to Hotspot

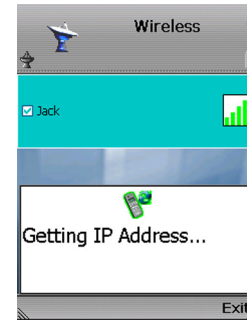


Figure 4-30: Getting IP Address

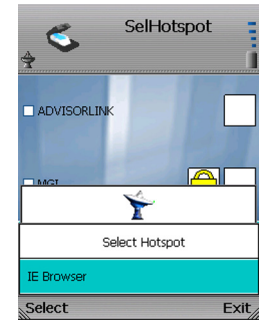


Figure 4-31: Select IE Browser

Wireless-G IP Phone Profiles

You will see a list of profiles (when you have profiles already configured). Select **Option** to see menu choices. Select **Exit** to return to the previous menu.

You can designate the order of the profiles saved by the IP Phone. The next time it is powered on, it will use the first profile to automatically connect to the profile's wireless network. If that network is not available, the IP Phone will try the next profile. This will continue until it has connected to a wireless network.

Option

You have these choices: Edit (available when you have at least one existing profile), Add, Delete (available when you have at least one existing profile), Connect, Go Down/Up (available when you have more than one profile), and Save <network name> (available when the IP Phone is connected to a network lacking a profile). The Edit and Add options configure the same settings. The Edit option is used for changing existing profiles, while the Add option is used for creating new profiles. Select **Return** to return to the previous menu.

Edit. Select **Edit** to edit a profile's information: SSID (wireless network name), Wireless Mode, Authentication Mode, and Encryption. (Additional setting may be available depending on the encryption used.) Scroll through these choices, and select **Edit** to change a setting.

SSID. To change the SSID, select **Edit**. Enter the new SSID in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Wireless Mode. You have a choice of Infrastructure and Ad hoc modes. To change the Wireless Mode, select **Edit**.

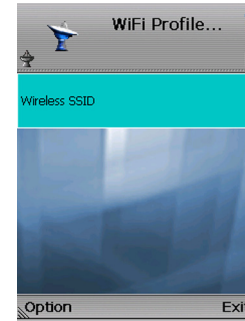


Figure 4-32: Wi-Fi Profiles

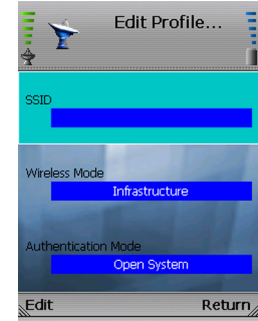


Figure 4-33: Edit SSID

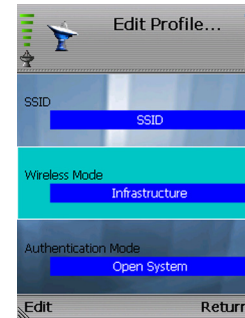


Figure 4-34: Edit Wireless Mode

ssid (service set identifier): your wireless network's name.

ad-hoc: a group of wireless devices communicating directly to each other (peer-to-peer) without the use of an access point.

infrastructure: a wireless network that is bridged to a wired network via an access point.

Authentication Mode. You have a choice of Auto Switch, Share Key, Open System, and WPA-PSK. To change the Authentication Mode, select **Edit**. A new window will open. Scroll through the modes, and select the appropriate mode. Select **Save** to save the new Authentication Mode, or select **Exit** to return to the *Edit Profile* menu without changing the Authentication Mode.

Proceed to the section for the Authentication Mode you have selected.

Auto Switch, Share Key, or Open System

Encryption. You have a choice of Disabled and WEP encryption. To change the Encryption method, select **Edit**. If you select Disabled, there are no other settings to change. If you select WEP, there are two more settings available, Key Index and WEP Key.

Key Index. For the index of transmit keys, you have a choice of 1-4. To specify which WEP key the IP Phone will use, select **Edit**. A new window will open. Scroll through the numbers, and select the appropriate transmit key number. Select **Save** to save the new transmit key number, or select **Exit** to return to the *Edit Profile* menu without changing the number.

WEP Key. To enter the WEP Key, select **Edit**. Enter the new WEP Key in the new window. Press the center selection key to save the new WEP Key, or select **Exit** to return to the *Edit Profile* menu without changing the key.

802.1x. You have a choice of Enable and Disable. The Enable option configures the IP Phone for a network using 802.1x authentication. To change the 802.1x setting, select **Edit**.

If 802.1x is enabled, configure the EAP Type setting. Select **Edit**. You have a choice of TLS, MD5, and PEAP. Select **Save** to save the new EAP Type, or select **Exit** to return to the *Edit Profile* menu without changing the EAP Type.



Figure 4-35: Change Authentication Mode



Figure 4-36: Edit WEP Key



Figure 4-37: Enter WEP Key

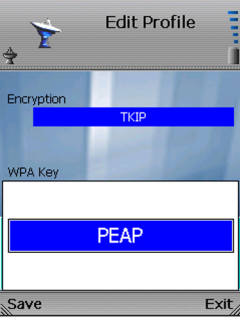


Figure 4-38: Change EAP Type (802.1x)

WPA-PSK

WPA Key. To enter the WPA Key, select **Edit**. Enter the new WPA Key in the new window. Press the center selection key to save the new WPA Key, or select **Exit** to return to the previous menu.

EAP Type. To change the EAP Type setting, select **Edit**. You have a choice of TLS, MD5, and PEAP. Select **Save** to save the new EAP Type, or select **Exit** to return to the *Edit Profile* menu without changing the EAP Type.

Hotspot. If you have default hotspots configured, then this setting will be available. To change the selected hotspot, select **Edit**.

Select **Return** to return to the *Wi-Fi Profiles* screen.

Add. Select **Add** to create a profile and enter its information: SSID (wireless network name), Wireless Mode, Authentication Mode, Key Index, and WEP Key. Scroll through these choices, and select **Edit** to change a setting.

SSID. To enter the SSID, select **Edit**. Enter the new SSID in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Wireless Mode. You have a choice of Infrastructure and Ad hoc modes. To change the Wireless Mode, select **Edit**.

Authentication Mode. You have a choice of Open System, Auto Switch, Share Key, and WPA-PSK. To change the Authentication Mode, select **Edit**. A new window will open. Scroll through the modes, and select the appropriate mode. Select **Save** to save the new Authentication Mode, or select **Exit** to return to the *Add Profile* menu without changing the Authentication Mode.

Proceed to the section for the Authentication Mode you have selected.



Figure 4-39: Edit EAP Type (WPA-PSK)

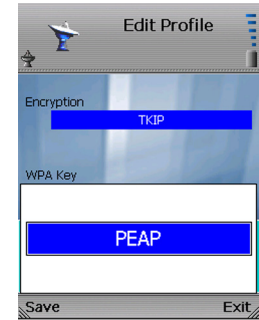


Figure 4-40: Change EAP Type (WPA-PSK)

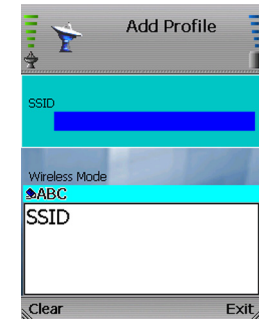


Figure 4-41: Enter SSID

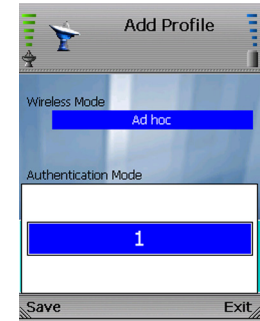


Figure 4-42: Change Transmit Key



Figure 4-43: Edit WPA Key

Auto Switch, Share Key, or Open System

Encryption. You have a choice of Disabled and WEP encryption. To change the Encryption method, select **Edit**. If you select Disabled, there are no other settings to change. If you select WEP, there are three more settings available, Key Index, WEP Key, and 802.1x.

Key Index. For the index of transmit keys, you have a choice of 1-4. To specify which WEP key the IP Phone will use, select **Edit**. A new window will open. Scroll through the numbers, and select the appropriate transmit key number. Select **Save** to save the new transmit key number, or select **Exit** to return to the *Add Profile* menu without changing the number.

WEP Key. To enter the WEP Key, select **Edit**. Enter the new WEP Key in the new window. Press the center selection key to save the new WEP Key, or select **Exit** to return to the *Add Profile* menu without changing the key.

802.1x. You have a choice of Enable and Disable. The Enable option configures the IP Phone for a network using 802.1x authentication. To change the 802.1x setting, select **Edit**.

If 802.1x is enabled, configure the EAP Type setting. Select **Edit**. You have a choice of TLS, MD5, and PEAP. Select **Save** to save the new EAP Type, or select **Exit** to return to the *Add Profile* menu without changing the EAP Type.

WPA-PSK

WPA Key. To enter the WPA Key, select **Edit**. Enter the new WPA Key in the new window. Press the center selection key to save the new WPA Key, or select **Exit** to return to the previous menu.

Wireless-G IP Phone

EAP Type. To change the EAP Type setting, select **Edit**. You have a choice of TLS, MD5, and PEAP. Select **Save** to save the new EAP Type, or select **Exit** to return to the *Add Profile* menu without changing the EAP Type.

Hotspot. If you have default hotspots configured, then this setting will be available. To change the selected hotspot, select **Edit**.

Select **Return** to return to the *Wi-Fi Profiles* screen.

Delete. To delete a profile, scroll down the entries until the profile is highlighted. Select **Option** and then select **Delete**. Then you will be automatically returned to the *Wi-Fi Profiles* screen.

Connect. To connect using a profile, scroll down the entries until the profile is highlighted. Select **Option** and then select **Connect**. The IP Phone will automatically connect to the appropriate network. Then you will be automatically returned to the *Wi-Fi Profiles* screen.

Go Down/Up. You can rearrange the order of the profiles on your list. To move a profile, scroll through the entries until the profile is highlighted. Select **Option** and then select **Go Down** or **Go Up** to move the entry. Then you will be automatically returned to the *Wi-Fi Profiles* screen.

Save <network name>. When the IP Phone is connected to a network lacking a profile, this option will be available. To save the network's settings as a new profile, select **Option** and then select **Save <network name>**. Then you will be automatically returned to the *Wi-Fi Profiles* screen.

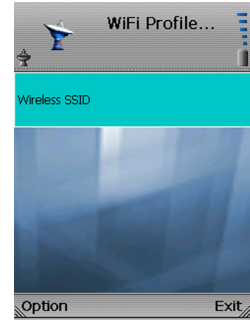


Figure 4-44: Profile Added

Hotspot

You will see a list of the IP Phone's default hotspots. Scroll through these choices and press the left soft key to make a selection. Select **Return** to return to the *Wireless* screen.

User Name. To change the User Name, select **Edit**. Enter the new User Name in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Password. To change the Password, select **Edit**. Enter the new Password in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.



If you want to save a new hotspot's settings, do not use this screen. When you are connected to the new hotspot, select **Profiles** on the *Wireless* screen. Select **Option**, and then select **Save <network name>**. Then you will be automatically returned to the *Wi-Fi Profiles* screen.

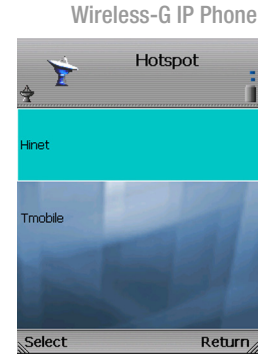


Figure 4-45: Select Hotspot

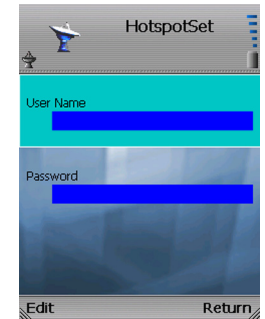


Figure 4-46: Edit User Name

Wireless-G IP Phone Phone Settings

You can customize the settings of the IP Phone. You have these choices: Ring Option, Keypad Tone, Wallpaper, Date & Time, Language, Phone Password, and Upgrade. Select **Return** to return to the previous menu.

Ring Option

Scroll through these choices and press the left soft key to make a selection. Select **Return** to return to the *Phone Settings* screen.

Ring Types. There are five different ring types. The selected ring type is indicated by the <*> symbol. Scroll through these choices to hear the actual ring style. Highlight the ring type you want to select, and then press the center selection key to save your change. Select **Exit** to return to the *Ring Option* menu without changing the ring type.

Ring Tones. There are seven ring tones. The selected ring tone is indicated by the <*> symbol. Scroll through these choices to hear the actual ring tone. Highlight the ring tone you want to select, and then press the center selection key to save your change. Select **Exit** to return to the *Ring Option* menu without changing the ring tone.

Ring Volume. There are five ring volume levels. The selected ring volume level is indicated by the <*> symbol. Scroll through these choices to hear the actual ring volume level. Highlight the ring volume level you want to select, and then press the center selection key to save your change. Select **Exit** to return to the *Ring Option* menu without changing the ring volume level.



Figure 4-47: Select Phone Settings

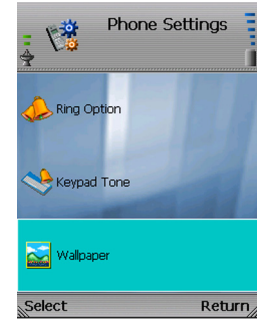


Figure 4-48: Phone Settings

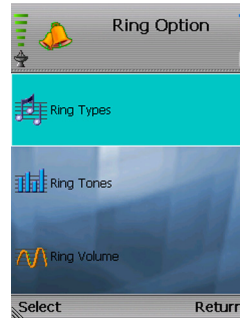


Figure 4-49: Ring Options

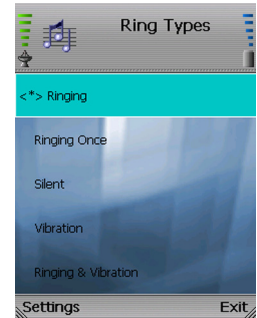


Figure 4-50: Ring Types

Keypad Tone

To hear the actual keypad tone, scroll through these choices: Off, Soft, and Loud. The selected keypad tone is indicated by the <*> symbol. Highlight the keypad tone you want to select, and then press the center selection key to save your change. Select **Exit** to return to the *Phone Settings* menu without changing the keypad tone.

Wallpaper

To see the different wallpaper choices, highlight the wallpaper you want to select, and then select **Preview**. Click **Exit** to return to the *Wallpaper* menu. The selected wallpaper is indicated by the <*> symbol. Highlight the wallpaper you want to select, and then press the center selection key to save your change. Select **Exit** to return to the *Phone Settings* menu without changing the wallpaper.

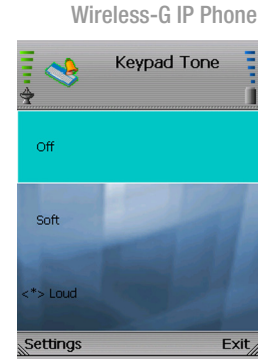


Figure 4-51: Keypad Tone

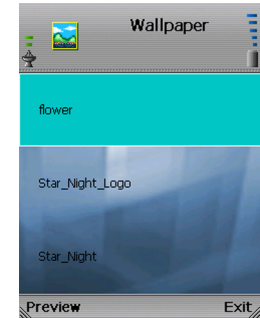


Figure 4-52: Wallpaper

Date & Time

You have six choices: Date, Clock, Time Format, Clock Type, Time Zone, and NTP Server. Select **Exit** to return to the previous menu.

Date. Press the left soft key to select the Date setting. A new window will be displayed. Make your changes, and then press the center selection key to save your change. Select **Exit** to return to the *Date & Time* screen without changing the date.

Clock. Press the left soft key to select the Clock setting. A new window will be displayed. Make your changes, and then press the center selection key to save your change. Select **Exit** to return to the *Date & Time* screen without changing the time.

Time Format. There are two formats available, 12-Hour and 24-Hour. To change the format, highlight **Time Format**, and press the left soft key.

Clock Type. There are two types available, Analog and Digital. To change the format, highlight **Clock Type**, and press the left soft key.

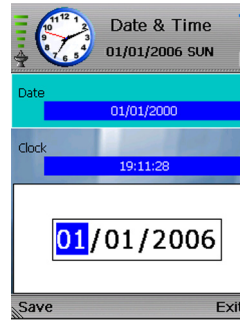


Figure 4-53: Change Date

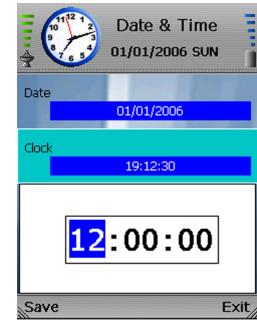


Figure 4-54: Change Clock

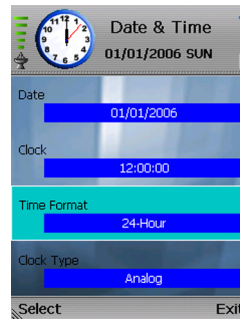


Figure 4-55: Change Time Format



Figure 4-56: Change Clock Type

Time Zone. Press the left soft key to select the Time Zone setting. A list of multiple time zones will be displayed. The selected time zone is indicated by the <*> symbol. Scroll through these choices, and highlight the time zone. Then select **Settings** to save your change. Select **Exit** to return to the *Date & Time* menu without changing the time zone.

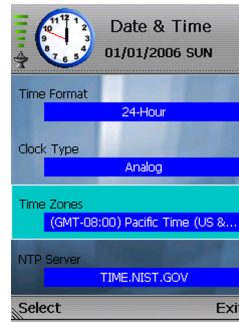


Figure 4-57: Select Time Zone

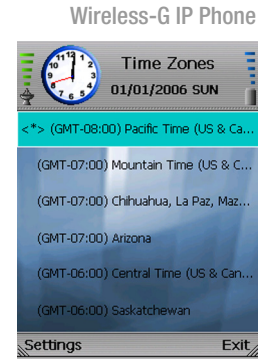


Figure 4-58: Change Time Zone

NTP Server. Press the left soft key to select the NTP Server setting. A new window will be displayed. Enter the URL (web address) of the NTP Server. Press the center selection key to save your change. Select **Exit** to return to the *Date & Time* menu without changing the server.



Figure 4-59: Select NTP Server

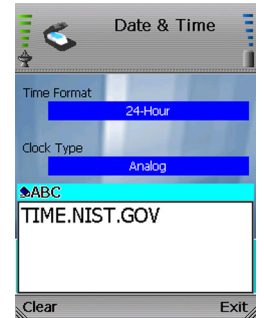


Figure 4-60: Enter Name of NTP Server

Language

The selected language is indicated by the <*> symbol. Highlight the language you want to select, and then press the left soft key to save your change. Select **Exit** to return to the *Phone Settings* menu without changing the language.

Phone Password

You can set a password so only users who know the password can use the IP Phone. Press the left soft key to select the Phone Password setting. To set a password, select **Edit**. Enter the password, and then press the center selection key to save it. Select **Return** to return to the *Phone Settings* menu without changing the password.

The next time the IP Phone is powered on, it will ask for the Phone Password. Enter it in the field provided, and then select **OK**.

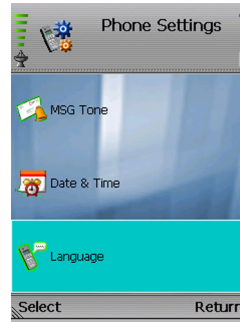


Figure 4-61: Select Language

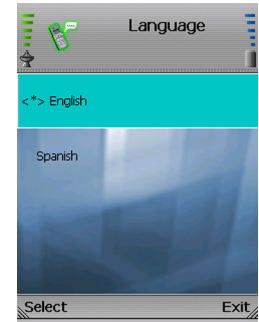


Figure 4-62: Language

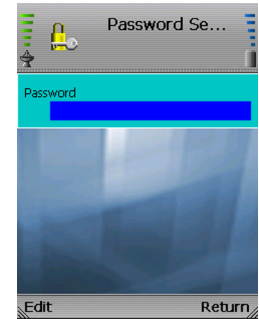


Figure 4-63: Phone Password

Upgrade

Use this screen to upgrade the firmware of the IP Phone.

The IP Phone is pre-configured with the correct Download URL (web address of the download site) and OS Image File (firmware upgrade file) entries.



NOTE: Do not change these settings unless your Internet phone service provider has given you new settings.

Plug the USB mini-B connector of the included power adapter into the USB mini-B port of the IP Phone. Then connect the power adapter to a standard electrical outlet.



NOTE: If the upgrade is interrupted, the IP Phone will revert to its old firmware, and you can attempt the upgrade again.

Select **Upgrade** to start upgrading the IP Phone's firmware, or select **Return** to cancel the upgrade and return to the previous menu.

When the upgrade is complete, the IP Phone will automatically power itself off. Wait five seconds, and then power on the IP Phone.

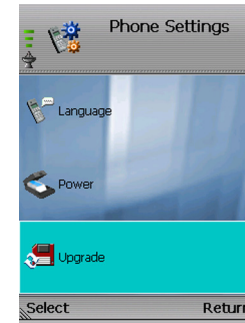


Figure 4-64: Select Upgrade

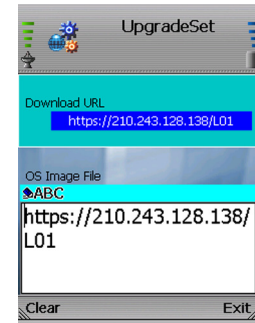


Figure 4-65: Edit Download URL

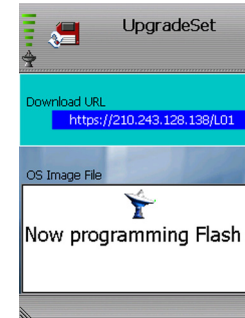


Figure 4-66: Upgrade in Progress

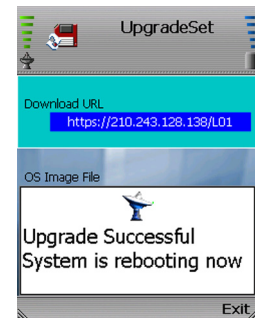


Figure 4-67: Upgrade Successful

SIP Settings

SIP settings are used to configure your Internet phone service. The necessary setup information is supplied by your Internet phone service provider. If you do not have this information, contact your Internet phone service provider before you make any changes. Select **Return** to return to the previous menu.

Proxy IP. To add or change the Proxy IP address, select **Edit**. Enter the new Proxy IP address in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Proxy Port. To add or change the Proxy Port number, select **Edit**. Enter the new Proxy Port number in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Register Proxy IP. To add or change the Register Proxy IP address, select **Edit**. Enter the new Register Proxy IP address in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

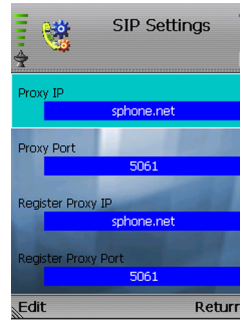


Figure 4-68: Edit Proxy IP



Figure 4-69: Enter Proxy IP



Figure 4-70: Enter Register Proxy IP



Figure 4-71: Enter Register Proxy Port

Register Proxy Port. To add or change the Register Proxy Port number, select **Edit**. Enter the new Register Proxy Port number in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Outbound Proxy IP. To add or change the Outbound Proxy IP address, select **Edit**. Enter the new Outbound Proxy IP address in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Outbound Proxy Port. To add or change the Outbound Proxy Port number, select **Edit**. Enter the new Outbound Proxy Port number in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Expire Time. If your Internet phone service provider did not provide an Expire Time setting, then keep the default setting, **3600** seconds. If your Internet phone service provider provided an Expire Time setting, then scroll down to Expire Time, and select **Edit**. Enter the Expire Time in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Phone Number. To add or change the Phone Number you will use for Internet phone calls, select **Edit**. Enter the new Phone Number in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

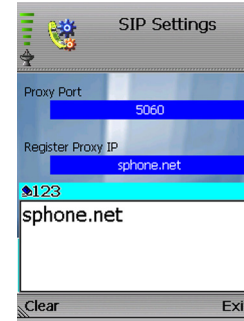


Figure 4-72: Change Outbound Proxy IP

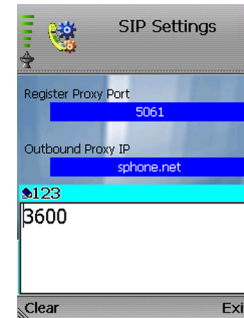


Figure 4-74: Change Expire Time



Figure 4-73: Edit Outbound Proxy Port

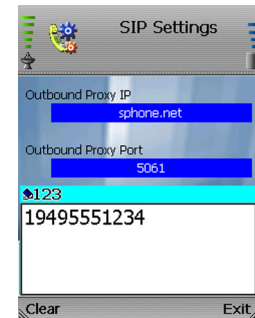


Figure 4-75: Change Phone Number

User Name. To add or change the User Name, select **Edit**. Enter the new User Name in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Password. To add or change the Password, select **Edit**. Enter the new Password in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

Payload Type. G.711a, G.729, and G.711u are the three Payload Types available. They are listed in order of preference. To change the order of preference, select **Edit** until the appropriate order of preference is displayed on-screen.

Packet Time. You have two Packet Time lengths available, Small and Large. To change the time period, select **Edit** until the appropriate Packet Time is displayed on-screen.

DTMF Relay. You can enable or disable the DTMF Relay feature. To enable or disable the feature, select **Edit**.

UDP Port. To add or change the UDP Port number, select **Edit**. Enter the new UDP Port number in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

RTP Port. To add or change the RTP Port number, select **Edit**. Enter the new RTP Port number in the new window. Press the center selection key to save the new setting, or select **Exit** to return to the previous screen.

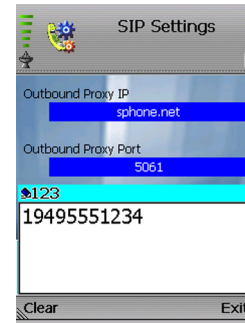


Figure 4-76: Change User Name

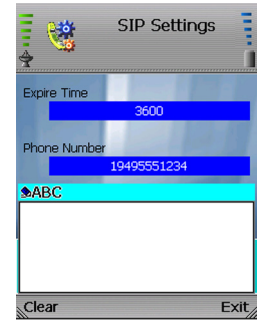


Figure 4-77: Change Password

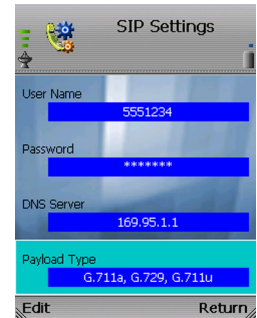


Figure 4-78: Edit Payload Type

Web Site

A list of web sites (if saved) will be shown. Scroll through these choices and press the center selection key to visit the web site you want. To save frequently visited web sites, select **Option** to see menu choices, which will be described in further detail below. Select **Return** to return to the previous menu.

Visiting a Web Site

When the web site is displayed, use the navigation bar below the *Address* field to control the web browser, and use the navigation pad to control the cursor. Click the **<=** and **=>** buttons to move between webpages. Click the red **X** button to stop loading the current webpage. Click the green **refresh** button to reload the current webpage. Click the **home** button to return to your homepage. Click the **search** button to run a search. Click the smaller capital **A** to zoom out, or click the larger capital **A** to zoom in on the webpage. Click the **minimize** button to the left of the *Address* field to minimize the Address bar.

To auto-scroll, press and hold down the center selection key for two seconds until you see an orange navigation cursor. Then use the navigation pad to scroll up and down the webpage. To use the cursor as a page up and down button, press and hold down the center selection key for an additional two seconds until the cursor turns blue with a "P" in the center. Then use the navigation pad to move up and down the webpage.

To visit a different website, select the current web address in the *Address* field. Begin entering the new web address, and a new window will automatically appear. When you have finished entering the new web address, press the center selection key.

You can also use the *Address* drop-down menu. Select the website you want. Then press the center selection key, or select **Option** and then **Enter**.

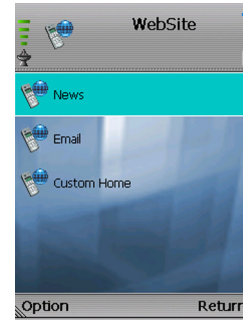


Figure 4-79: Web Site



Figure 4-80: Visit Web Site



Figure 4-81: Auto-Scroll Option

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To change how the cursor works, select **Option**. If your cursor uses the Click feature, the Drag & Drop feature will be available. If your cursor uses the Drag & Drop feature, the Click feature will be available. Press the left soft key to select the new cursor feature, or select **Return** to return to the website.

Select **Exit** to return to the *Web Site* screen.

Option

You have these choices: Edit (available when you have at least one web site saved), Add, and Delete (available when you have at least one web site saved). The Edit and Add options configure the same settings. The Edit option is used for changing existing web site entries, while the Add option is used for saving new web site entries. Select **Return** to return to the previous menu.

Edit. Select **Edit** to edit a web site's information: Name, URL (web address), and Port Number. Scroll through these choices, and select **Edit** to change a setting.

Name. To change the Name, select **Edit**. Enter the new Name in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

URL. To change the URL, select **Edit**. Enter the new URL in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Port Number. To change the Port Number, select **Edit**. Enter the new Port Number in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu. (If you are not sure how to change this setting, keep the default, **80**.)

Select **Return** to return to the *Web Site* screen.

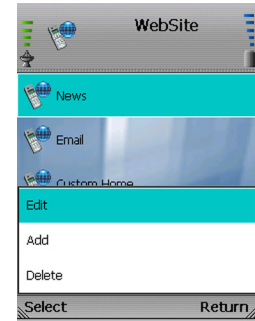


Figure 4-82: Web Site Options



Figure 4-83: Edit Web Site

Add. Select **Add** to create a new web site entry with the following information: Name, URL (web address), and Port Number. Scroll through these choices, and select **Edit** to configure a setting.

Name. To enter the Name, select **Edit**. Enter the new Name in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

URL. To enter the URL, select **Edit**. Enter the new URL in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Port Number. To enter the Port Number, select **Edit**. Enter the new Port Number in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu. (If you are not sure how to change this setting, keep the default, **80**.)

Select **Return** to return to the *Web Site* screen.

Delete. To delete a web site, scroll down the entries until the web site is highlighted. Select **Option** and then select **Delete**. Then you will be automatically returned to the *Web Site* screen.

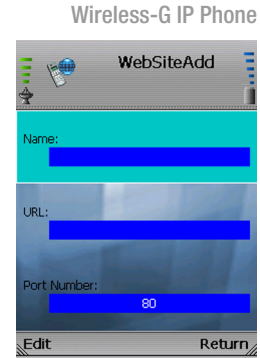


Figure 4-84: Add Web Site

Web Cam

Use the IP Phone to view video from any Linksys web camera. On the *Web Cam* screen, a list of Linksys web cameras (if saved) will be shown. Scroll through these choices and press the center selection key to view video. To save the settings for your Linksys web camera(s), select **Option** to see menu choices, which will be described in further detail below. Select **Return** to return to the previous menu.

Viewing a Web Camera

The IP Phone will display video from the Linksys web camera. Press the right soft key to return to the *Web Cam* screen.

Option

You have these choices: **Edit** (available when you have at least one Linksys web camera saved), **Add**, and **Delete** (available when you have at least one Linksys web camera saved). The **Edit** and **Add** options configure the same settings. The **Edit** option is used for changing existing entries, while the **Add** option is used for adding new entries. Select **Return** to return to the previous menu.

Edit. Select **Edit** to edit a Linksys web camera's information: Name, URL (web address), and Port Number. Scroll through these choices, and select **Edit** to change a setting.

Name. To change the Name, select **Edit**. Enter the new Name in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

URL. To change the URL, select **Edit**. Enter the new URL in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

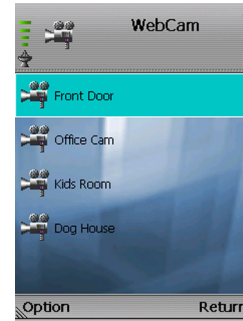


Figure 4-85: Web Cam

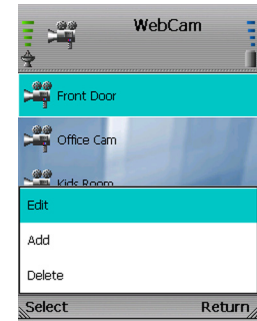


Figure 4-86: Web Cam Options

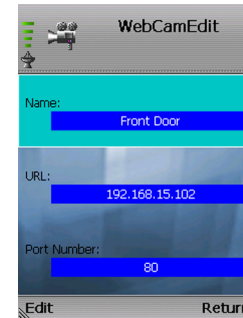


Figure 4-87: Edit Web Cam

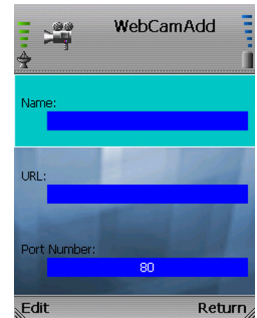


Figure 4-88: Add Web Cam

Port Number. To change the Port Number, select **Edit**. Enter the new Port Number in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu. (If you are not sure how to change this setting, keep the default, **80**.)

Select **Return** to return to the *Web Cam* screen.

Add. Select **Add** to create a new entry with the following information: Name, URL (web address), and Port Number. Scroll through these choices, and select **Edit** to configure a setting.

Name. To enter the Name, select **Edit**. Enter the new Name in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

URL. To enter the URL, select **Edit**. Enter the new URL in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu.

Port Number. To enter the Port Number, select **Edit**. Enter the new Port Number in the new window. Press the center selection key to save the new information, or select **Exit** to return to the previous menu. (If you are not sure how to change this setting, keep the default, **80**.)

Select **Return** to return to the *Web Cam* screen.

Delete. To delete an entry, scroll down until it is highlighted. Select **Option** and then select **Delete**. Then you will be automatically returned to the *Web Cam* screen.

Wireless-G IP Phone Information

The status information of the IP Phone and its software is displayed on this read-only screen. Scroll through the settings to view them. Select **Return** to return to the previous menu.

Phone Number. Displayed here is the Phone Number of the IP Phone.

IP Address. Displayed here is the IP Address of the IP Phone.

Wireless AP. Displayed here is the name of the wireless network used by the IP Phone. (This is also known as the SSID.)

MAC Address. Displayed here is the MAC Address of the IP Phone.

eBoot Version. Displayed here is the version number of the eBoot software.

Image Version. Displayed here is the version number of the image software.

SIP Version. Displayed here is the version number of the SIP software.

UI Version. Displayed here is the version number of the UI (User Interface) software.

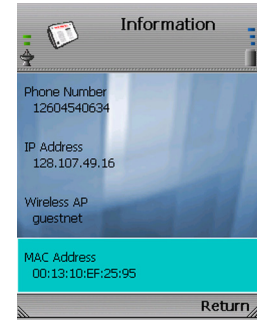


Figure 4-89: Information

Appendix A: Troubleshooting

This appendix provides solutions to problems that may occur during the installation and operation of the Wireless-G IP Phone. Read the description below to solve your problems. If you can't find an answer here, check the website of your Internet phone service provider or the Linksys website at www.linksys.com/international.

Common Problems and Solutions

1. *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:

- Follow these instructions to reboot your cable or DSL modem, IP Phone, 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 IP Phone by pressing and holding down the Power button for two seconds.
 4. Wait 30 seconds, and then power on your cable or DSL modem by plugging its power adapter into an electrical outlet.
 5. Wait 30 seconds. Power on the router by plugging its power adapter into an electrical outlet.
 6. Wait 10 seconds. Power on the IP Phone by pressing and holding down the Power button for two seconds.
 7. Reboot one of your networked computers, and check for an active Internet connection.
 8. Pick up the IP Phone and try your call again.
- Set up port forwarding on your router. You must specify that four port ranges be forwarded to the IP address of the IP Phone. These four port ranges are as follows: 5060-5061 (UDP), 53-53 (UDP), 69-69 (UDP), and 10000-20000 (UDP).

If you have a non-Linksys router, refer to its documentation for instructions.

Wireless-G IP Phone

If you have a Linksys router, then follow these instructions:

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. A login screen will appear. 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, and then click the **Port Range Forwarding** tab.
5. For each port range you must specify, enter a different name in the *Application* field. Then enter the number or range of external port(s) used by the IP Phone.
6. Select the protocol you will be using, **UDP**.
7. Enter the IP address of the IP Phone. For example, if the IP Phone'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 IP Phone.

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

9. Check the **Enable** option for the port services you want to use.
10. When you have completed the configuration, click the **Save Settings** button.

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

Go through this checklist until your problem is solved:

- Are you using a wireless router and cordless phone? If so, the router and cordless phone may be using the same frequency and 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 any Internet telephone call. For example, if you are running a file sharing program, files may be uploading in the background even though you are not downloading any files, so make sure you exit the program before you make an Internet phone call.
- 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 service account at your Internet phone service provider's website, and reduce the bandwidth requirements for your service. For more information, refer to your Internet phone service provider's website.
- There may be too many wireless routers or access points in your location using the same broadcast channel. Try changing the channel that your wireless router or access point uses; refer to the documentation of your router or access point for instructions.

3. The IP Phone does not ring, and my calls automatically go to voicemail.

Go through this checklist until your problem is solved:

- Check the ringer volume on the IP Phone, and make sure it is set to an audible level.
- Follow these instructions to reboot your cable or DSL modem, IP Phone, 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 IP Phone by pressing and holding down the Power button for two seconds.
 4. Wait 30 seconds, and then power on your cable or DSL modem by plugging its power adapter into an electrical outlet.
 5. Wait 30 seconds. Power on the router by plugging its power adapter into an electrical outlet.

6. Wait 10 seconds. Power on the IP Phone by pressing and holding down the Power button for two seconds.
 7. Reboot one of your networked computers, and check for an active Internet connection.
- Set up port forwarding on your router. You must specify that four port ranges be forwarded to the IP address of the IP Phone. These four port ranges are as follows: 5060-5061 (UDP), 53-53 (UDP), 69-69 (UDP), and 10000-20000 (UDP).

Note: By default, the IP Phone uses a dynamic IP address assigned by your router. For port forwarding, you may need to assign a static IP address to the IP Phone. Contact your Internet phone service provider for assistance.

If you have a non-Linksys router, refer to its documentation for instructions. If you have a Linksys router, then follow these instructions:

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. A login screen will appear. 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, and then click the **Port Range Forwarding** tab.
5. For each port range you must specify, enter a different name in the *Application* field. Then enter the number or range of external port(s) used by the IP Phone.
6. Select the protocol you will be using, **UDP**.
7. Enter the IP address of the IP Phone. For example, if the IP Phone'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 IP Phone.

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

9. Check the **Enable** option for the port services you want to use.

10. When you have completed the configuration, click the **Save Settings** button.

4. **The power LED does not light up.**

Go through this checklist until your problem is solved:

- Remove the IP Phone's battery from its compartment. Wait five seconds while the IP Phone resets itself. Insert the battery and power on the IP Phone.
- You may be using the wrong power adapter. Make sure the power adapter you are using is the one included with the IP Phone.

Frequently Asked Questions

Can I make calls if my Internet connection is down?

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

Can I use the IP Phone to make a call and browse the Internet at the same time?

No. The IP Phone supports either calling or web browsing, not both at the same time. However, you can receive a call while web browsing with the IP Phone. Also, you can make calls with the IP Phone while browsing the Internet on your computer. Please note that your web browsing may affect the quality of your telephone call, depending on the amount of upstream data traffic passing through your Internet connection.

Can I receive calls while my network is down?

You cannot directly receive calls while your network is down. However, your Internet phone service account may allow you to forward calls to a different telephone number, such as a cellular phone number. For more information, visit the website of your Internet phone service provider.

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.

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.

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.

Wireless-G IP Phone

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.

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.

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.

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.

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.

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

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.

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.

Appendix B: Glossary

Wireless-G IP Phone

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.

Telnet - 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.

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.

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.

Appendix C: Specifications

Model	WIP330
Standards	802.11b, 802.11g
Channels	11 Channels (US, Canada), 13 Channels (Europe)
Transmit Power	12 dBm for 802.11b and 802.11g @ Normal Temp Range
External Interface	One Mini USB 1.1 Port, One Stereo Ear Phone Jack
Display	QVGA with 65k colors, 2.2 inch (55.9 mm) (240 x 320 pixels)
Network Protocols	TCP/IP
Security	WEP (64/128), WPA-PSK Encryption
QoS	ToS
Voice Protocols	SIP v2 Session Initiation Protocol (RFC3261), SDP (RFC2327)
Voice Codecs	G.711 u/A-law, G.729a/b

DTMF Transmission	In-band, Out-band (RFC2833)
Voice Quality	Acoustic Echo Cancellation Jitter Buffer Control Comfortable Noise Generation Packet Loss Concealment
Dimensions (W x H x D)	1.84" x 5.32" x 0.74" (46.7 mm x 135.2 mm x 18.8 mm)
Unit Weight	4.20 oz. (0.12 kg)
Power	3.7V, 1250mAh Lithium Battery, 5V, 1A AC Adapter
Certifications	FCC, cUL, CE
Operating Temp.	32°F to 113°F (0°C to 45°C)
Storage Temp.	-4°F to 131°F (-20°C to 55°C)
Operating Humidity	10% to 85% Relative Humidity, Non-Condensing
Storage Humidity	10% to 95% Non-Condensing

Appendix D: Warranty Information

LIMITED WARRANTY

Your Internet phone service provider warrants to You that, for a period of one year (the "Warranty Period"), your Linksys Product will be substantially free of defects in materials and workmanship under normal use. Your exclusive remedy and Your Internet phone service provider's entire liability under this warranty will be for Your Internet phone service provider 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 Your Internet phone service provider 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 Your Internet phone service provider.

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 Your Internet phone service provider, (b) has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Your Internet phone service provider, 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, Your Internet phone service provider 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 YOUR INTERNET PHONE SERVICE PROVIDER 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 Your Internet phone service provider HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL Your Internet phone service provider' 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.

Please contact your Internet phone service provider regarding the warranty for the Product.

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 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.

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

IMPORTANT NOTE:

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.

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

This equipment has been SAR-evaluated. The Maximum average SAR(1g) test value is 0.303 W/kg.

Linksys declares that WIP 330 (FCC ID: Q87-WIP330) is limited in CH1~CH11 for 2.4 GHz by specified firmware controlled in U.S.A.

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

This device complies with Industry Canada ICES-003 and RSS210 rules.

Cet appareil est conforme aux normes NMB003 et RSS210 d'Industrie Canada.

IC Statement

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

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:

IC 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 avoid direct contact to the transmitting antenna during transmitting.

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

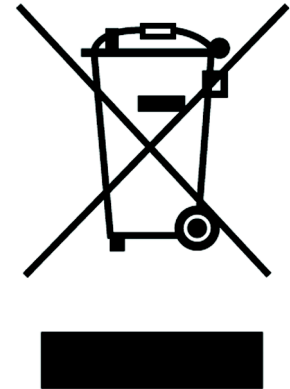
User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

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. Odpovídáte za likvidaci tohoto produktu a dalších elektrických a elektronických zařízení prostřednictvím určených sběrných míst stanovených vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabývajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

Dansk/Danish

Miljøinformation for kunder i EU

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

Deutsch/German**Umweltinformation für Kunden innerhalb der Europäischen Union**

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

Eesti/Estonian**Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele**

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

Español/Spanish

Información medioambiental para clientes de la Unión Europea

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

Ελληνικά/Greek**Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης**

Η Κοινοτική Οδηγία 2002/96/EC απαιτεί ότι ο εξοπλισμός ο οποίος φέρει αυτό το σύμβολο στο προϊόν και/ή στη συσκευασία του δεν πρέπει 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 αρνητικών 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 αγοράσατε το προϊόν.

Français/French**Informations environnementales pour les clients de l'Union européenne**

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

Italiano/Italian

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

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l'ambiente e per la salute dell'essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Latviešu valoda/Latvian

Ekoloģiska informācija klientiem Eiropas Savienības jurisdikcijā

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

Lietuvškai/Lithuanian

Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

Europos direktyva 2002/96/EC numato, kad įrangos, kuri ir (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 perdurbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrangos šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybos arba parduotuvės, kuriose įsigijote tą gaminį.

Malti/Maltese

Informazzjoni Ambjentali għal Kliġenti fl-Unjoni Ewropea

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

Magyar/Hungarian

Környezetvédelmi információ az európai uniós vásárlók számára

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csomagolásán az alábbi címke megjelenik, tilos a többi szelektálatlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kidobásakor a szokványos háztartási hulladékelszállítási rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által kijelölt gyűjtőrendszereken keresztül számolja fel. A megfelelő hulladékfeldolgozás segít a környezetre és az emberi egészségre potenciálisan ártalmas negatív hatások megelőzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékfeldolgozási szolgálattal, vagy azzal üzlettel, ahol a terméket vásárolta.

Nederlands/Dutch

Milieu-informatie voor klanten in de Europese Unie

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

Norsk/Norwegian

Miljøinformasjon for kunder i EU

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

Polski/Polish

Informacja dla klientów w Unii Europejskiej o przepisach dotyczących ochrony środowiska

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

Português/Portuguese

Informação ambiental para clientes da União Europeia

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

Slovenčina/Slovak

Informácie o ochrane životného prostredia pre zákazníkov v Európskej únii

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

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 odvreči ločeno od preostalih gospodinskih 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 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 lokalno upravo, odpad ali trgovino, kjer ste izdelek kupili.

Suomi/Finnish

Ympäristöä koskevia tietoja EU-alueen asiakkaille

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

Svenska/Swedish

Miljöinformation för kunder i Europeiska unionen

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

For more information, visit www.linksys.com.

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> or
[ftp.linksys.com](ftp://ftp.linksys.com)

Can't find information about a product you want to buy on the web? Do you want to know more about networking with Linksys products? Give our advice line a call at:
Or fax your request in to:

800-546-5797 (LINKSYS)
949-823-3002

If you experience problems with any Linksys product, you can call us at:
Don't wish to call? You can e-mail us at:

800-326-7114
support@linksys.com

www.linksys.com

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