

LINKSYS[®]

A Division of Cisco Systems, Inc.



Package Contents

- Phone Adapter with Router
- Ethernet Cable
- Power Adapter
- Quick Installation and Compliance Guide

Phone Adapter with Router

VoIP
Voice

Quick Installation and Compliance Guide

Model No. SPA2102

CISCO SYSTEMS



Getting Started

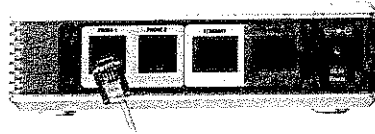
Before You Begin

Make sure that you have the following:

- An Internet phone service account
- An active Internet connection
- Analog telephones or fax machines
- At least one computer for configuration of the Phone Adapter

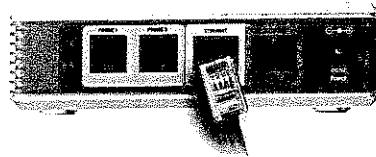
Step 1: Connect the Phone Adapter

1. Connect one end of the RJ-11 phone cable to the Phone Adapter's PHONE 1 port.
2. Connect the other end to your analog telephone or fax machine.



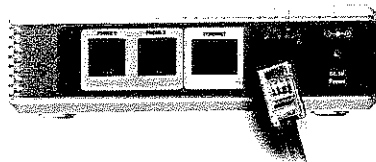
IMPORTANT: Do not connect the PHONE port to a telephone wall jack. Make sure you only connect a telephone or fax machine to the PHONE port. Otherwise, the Phone Adapter or the telephone wiring in your home or office may be damaged.

3. Repeat steps 1-2 with the PHONE 2 port.
4. Disconnect your PC from the modem. (You will use the Ethernet network cable in the next step.)
5. Connect an Ethernet network cable to the Ethernet port of the Phone Adapter.



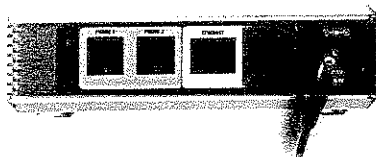
Connect the other end to the Ethernet network port of your PC.

6. Connect one end of the included Ethernet network cable to the Internet port on the Phone Adapter.



Connect the other end to your broadband modem.

7. Connect the included power adapter to the Power port of the Phone Adapter, and then plug the power adapter into an electrical outlet.



NOTE: Make sure your PC's Ethernet adapter is set to obtain an IP address automatically. For more information, refer to Windows Help.

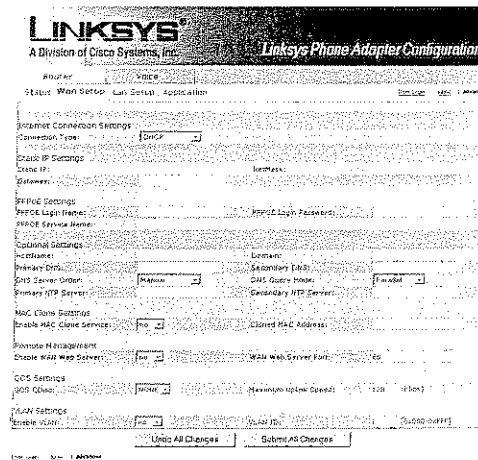
Step 2: Configure the Phone Adapter

NOTE: If the Phone Adapter is pre-configured by your Internet Telephone Service Provider (ITSP), you will not need to change any settings. Refer to the documentation supplied by your service provider for more information.

If the Phone Adapter is not pre-configured, then make sure you have the setup information supplied by your Internet Service Provider (ISP), as well as your Internet phone service provider. You will use the Web-based Utility to enter the appropriate settings.

To access the Web-based Utility, follow these instructions:

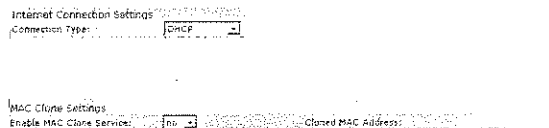
1. Launch a web browser on your PC.
2. Enter the Phone Adapter's default IP address, **192.168.0.1/admin/advanced**, in the *Address* field (**192.168.0.1** is the default local IP address). Then press **Enter**.
3. Select the **Router** tab, and then select the **WAN Setup** tab.
4. Proceed to the appropriate instructions for your Internet Connection Type.



Internet Connection Type

DHCP. If you use a dynamic IP address, perform these steps:

- a. Select **DHCP** from the *Connection Type* drop-down menu.
- b. If you use a cable modem, you may need to configure the MAC Clone Settings. (Contact your ISP for more information.)
Enable MAC Clone Service. If your service uses a specific PC MAC address, then select **yes** from the *Enable MAC Clone Service* setting. Then enter the PC's MAC address in the *Cloned MAC Address* field.
- c. Click the **Submit All Changes** button.

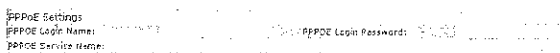


Static IP. If you use a static or fixed IP address, perform these steps:



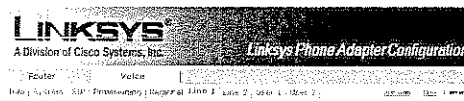
- a. Select **Static IP** from the *Connection Type* drop-down menu.
- b. Under *Static IP Settings*, enter the IP Address in the *Static IP* field, the subnet mask in the *NetMask* field, and the default gateway IP address in the *Gateway* field.
- c. Under *Optional Settings*, enter the DNS server address(es) in the *Primary DNS* and optional *Secondary DNS* fields.
- d. Click the **Submit All Changes** button.

PPPoE. If you need a user name and password to connect to the Internet, perform these steps:



- a. Select **PPPoE** from the *Connection Type* drop-down menu.
- b. Enter the user name in the *PPPoE Login Name* field.
- c. Enter the password in the *PPPoE Login Password* field.
- d. Click the **Submit All Changes** button.

5. Select the **Voice** tab, and then select the **Line 1** tab.

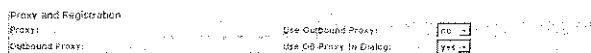


6. On the *Line 1* screen, enter the settings for your Internet phone service account.

Proxy and Registration

Proxy. Enter the SIP proxy

supplied by your Internet phone service provider.



If you are using NAT (Network Address Translation), you may also need to select **yes** for the *Outbound Proxy* setting. Then enter the outbound proxy supplied by your Internet phone service provider.

Subscriber Information

User ID. Enter the user ID (also called the account number)

supplied by your Internet phone service provider. Do not use any hyphens or spaces.



Password. Enter the password supplied by your Internet phone service provider.

If your Internet phone service provider supplied additional settings, make sure you enter those as well. Refer to their instructions for more details.

7. Click the **Submit All Changes** button to save your new settings.

Congratulations! The installation of the Phone Adapter with Router is complete.

Proceed to the next section to learn about the Interactive Voice Response Menu.

Interactive Voice Response Menu

You can use the Interactive Voice Response Menu to check and configure various network settings. You will use the telephone's keypad to enter your commands and select choices, and the Phone Adapter will use voice responses.

Accessing the Interactive Voice Response Menu

1. Press **** (in other words, press the star key four times).
2. Wait until you hear "Linksys configuration menu. Please enter the option followed by the # (pound) key, or hang up to exit."
3. Refer to the following table that lists actions, commands, menu choices, and descriptions. After you select an option, press the # (pound) key. To exit the menu, hang up the phone.

Using the Interactive Voice Response Menu

While entering a value, such as an IP address, you may exit without entering any changes. Press the * (star) key twice within half a second. Otherwise, the * will be treated as a decimal point or dot.

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

For example, to enter the IP address *191.168.1.105* by keypad, press these keys: **191*168*1*105**. Press the # (pound) key to indicate that you have finished entering the IP address, and then press **1** to save the IP address. To cancel your entry and return to the main menu, press * (star). The settings you have saved will take effect after you have hung up the telephone.

Interactive Voice Response Menu

Action	Command	Choices	Description
Enter Interactive Voice Response Menu	****		Use this command to enter the Interactive Voice Response Menu. Do not press any other keys until you hear, "Linksys configuration menu. Please enter option followed by the # (pound) key or hang up to exit."
Check Internet Connection Type	100		Hear the Internet connection type of the Phone Adapter.

Interactive Voice Response Menu

Action	Command	Choices	Description
Check Internet IP Address	110		Hear the IP address assigned to the Phone Adapter's Internet (external) interface.
Check Network Mask (or Subnet Mask)	120		Hear the network or subnet mask assigned to the Phone Adapter.
Check Gateway IP Address	130		Hear the gateway IP address assigned to the Phone Adapter.
Check MAC Address	140		Hear the MAC address of the Phone Adapter in hexadecimal string format.
Check Firmware Version	150		Hear the version number of the firmware currently running on the Phone Adapter.
Check Primary DNS Server IP Address	160		Hear the IP address of the primary DNS (Domain Name Service) server.
Check Internet Web Server Port	170		Hear the port number of the Internet Web server used for the Web-based Utility.
Check Local IP Address	210		Hear the local IP address of the Phone Adapter.
Set Internet Connection Type	101	Press 1 to use DHCP Press 2 to use a static IP address Press 3 to use PPPoE	Select the type of Internet connection you are using. Refer to the documentation supplied by your Internet service provider.
Set Static IP Address	111	Enter the IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	First, set the Internet Connection Type to static IP address; otherwise, you will hear, "Invalid Option," if you try to set the static IP address.
Set Network Mask (or Subnet Mask)	121	Enter the network or subnet mask using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	First, set the Internet Connection Type to static IP address; otherwise, you will hear, "Invalid Option," if you try to set the network or subnet mask.

Interactive Voice Response Menu

Action	Command	Choices	Description
Set Gateway IP Address	131	Enter the IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	First, set the Internet Connection Type to static IP address; otherwise, you will hear, "Invalid Option," if you try to set the gateway IP address.
Set Primary DNS Server IP Address	161	Enter the IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	First, set the Internet Connection Type to static IP address; otherwise, you will hear, "Invalid Option," if you try to set the IP address of the primary DNS server.
Enable/Disable Web-based Utility	7932	Press 1 to enable Press 0 to disable	Use this setting to enable or disable the Web-based Utility provided by the built-in web server. (This Utility lets you configure the Phone Adapter.)
Manual Reboot	732668		After you hear, "Option successful," hang up the phone. The Phone Adapter will automatically reboot.
Factory Reset	73738	Press 1 to confirm Press * (star) to cancel	If necessary, enter the password. The Phone Adapter will request confirmation; enter 1 to confirm. You will hear, "Option successful." Hang up the phone. The Phone Adapter will reboot and all settings will be reset to their factory default settings.
User Factory Reset	877778	Press 1 to confirm Press * (star) to cancel	The Phone Adapter will request confirmation; enter 1 to confirm. You will hear, "Option successful." Hang up the phone. The Phone Adapter will reboot and all user-configurable settings will be reset to their factory default settings.