



Package Contents

- IP Telephony System
- Power Adapter
- RJ-45 Ethernet Cable
- Quick Installation

IP Telephony System



Quick Installatio

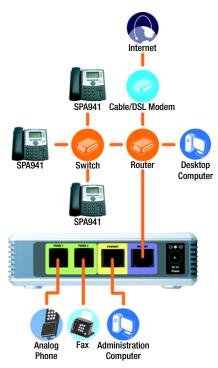


Before You Begin

For first-time installation of the System, Linksys strongly recommends that you run the Setup Wizard, which you can download from www.linksys.com. For advanced users, you may follow the instructions in this Quick Installation.

Make sure you have the following:

- IP Telephony System
- One or more Internet phones (for example, Linksys SPA-family IP Phones, model number: SPA9411
- A router and cable/DSL modem (or gateway)
- One or more Ethernet network switches (so you can connect Internet phones or computers)
- At least one active Internet phone service account and its settings if you want to make external calls
- An active Internet connection if you want to make external calls
- At least one computer for configuration of the System and Internet phones
- Two or more Ethernet network cables
- Analog telephones or fax machines (optional)



A Typical Scenario

NOTE: For best results, use a switch that offers QoS (Quality of Service) and full wire-speed switching. QoS enables the switch to give top priority to voice traffic, while full wire-speed switching lets it forward packets as fast as your network can deliver them. The next best choice is a QoS (Quality of Service) switch.

Install the IP Telephony System

- Plug an analog telephone into the Phone 1 port of the System. (optional)
- If you have a second analog telephone or fax machine, plug it into the Phone 2 port. (optional)
 - Connect an Ethernet network cable to the Internet port of the System. Connect the other end to one of the Ethernet ports on vour router.
- Connect a different Ethernet network cable to the Ethernet port of the System. Then connect the other end to the computer you will use to manage the System (this will be the administration computer).
- Connect the included power adapter to the Power port of the System, and then plug the power adapter into an electrical outlet.
- Launch the web browser on the administration computer.
- Enter 192.168.0.1/admin/ voice/advanced in the Address field. Press Enter.



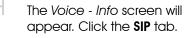
IMPORTANT: Do not connect the Phone port to a telephone wall jack. Make sure you only connect a telephone or fax machine to the Phone port. Otherwise, the System or the telephone wiring in your home or office may be damaged.







NOTE: 192.168.0.1 is the default local IP address of the System.



In the PBX Parameters section, select **WAN** for the Proxv Network Interface.

Click Submit All Changes.

The Voice - Info screen will appear. Click the Router

Click the **WAN Setup** tab.

For the Connection Type, select Static IP.

In the Static IP Settinas section, complete the following fields:

> Static IP - Enter a static IP address appropriate for your network. Write this down; you will use it later.

NetMask - Enter the subnet mask of vour router.

Gateway - Enter the local IP address of your router or aatewav.

PBX Parameters Froxy Neteroix Interface:	WAR I		Proxy Listen Ports	6060
Phillipset Address:	224.148.148.148.6061		Group Page Address:	224 168 168 168 365
Max Express:	3600		Force Hedia Press	no •
Proce Debug Option	Tut.			
Call Fouting Rule:	(<:12,2,3,4×9×x.)			
Internal Music URL:	tfp://192.168.0.A/aria73	In det		
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Sitemai MCH Refresh Stroll			Cell Park MOH Servers	
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Group 2 User 3D1			Group 3 Line:	
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NOTE: Make sure your router will not assign the System's IP address to any other device. For example, you can assign an IP address outside of vour router's DHCP IP address range: however, it must be within the router's subnet range.

For information about IP addressing. refer to the router's documentation.

In the Optional Settings section, complete the Primary DNS field.

> **Primary DNS** - Enter the DNS IP address of your router.

In the Remote Management section, select **ves** from the *Enable* WAN Web Server drop-down menu.

Click **Submit All Changes**.

The Router - Status screen will appear. Verify that the following settings match your entries:

- WAN Connection Type -Static IP
- Current IP
- Current NetMask
- Current Gateway
- Primary DNS

Proceed to the next section.

NOTE: If you decide to keep

traditional phone service, which is

also known as Plain Old Telephone

Linksys Analog Telephone Adapter

(model number: SPA3000), For

Adapter's documentation.

Service (POTS), then you will use the

details, refer to the Analog Telephone

Connect the switch's power adapter to its power port, and then plug the power adapter into an electrical outlet.

Connect an Ethernet network cable to an Internet phone. Then connect the other end to one of the Ethernet ports on the switch.

(If the Internet phone has been used before, reset it to its factory default settings first. Refer to its documentation for more information.)

Connect the Internet phone's power adapter to its power port, and then plug the power adapter into an electrical outlet.

The Internet phone will reboot two to three times (each reboot may take up to one minute). The System will automatically assign an extension number to the Internet phone. When the Internet phone displays it extension number, then it is ready for use.

NOTE: The System automatically registers Linksys SPA-family Internet phones (including model number SPA941). If you connect a different SIP-compatible phone, then registration will be manual. Refer to your phone's documentation.

NOTE: The default SIP port of the System is **6060**.

Repeat steps C-E until you have installed all of your Internet phones.

Congratulations! Now you can make calls from one Internet phone to another by dialing an extension number.

Continue to the next section.

Make sure you have an active Internet connection. Then configure the settings for your Internet phone service.

Launch the web browser on the administration computer.

Enter < IP address of the System > /admin/voice/advanced in the Address field (use the static IP address you previously assigned to the System). Then press Enter.

The Voice - Info screen will appear. Click the Line 1 tab.

In the Subscriber Information section, complete these fields:

User ID - Enter the user ID (also called the account number) supplied by your ITSP. Do not use any hyphens, spaces, or other punctuation.

Password - Enter the case-sensitive password supplied by your ITSP.

NOTE: If your Internet Telephony
Service Provider (ITSP) supplied the
System, then it may be
pre-configured for you, and you do
not need to change any settings.
Refer to the instructions supplied by
your ITSP for more information.

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In the Proxy and Registration section, complete the *Proxy* field.

Proxy - Enter the proxy address supplied by your ITSP.

If you have additional settings, enter those as well. Refer to the instructions your ITSP gave you.

Click **Submit All Changes**.

The System will reboot itself.
Then the Internet phones will reboot themselves.

The Voice - Info screen will appear. In the Line 1 Status section, make sure that the Registration Status says, "Registered."

You can use any phone connected to the System to make external calls. However, you cannot receive calls on any analog telephone unless you configure the appropriate settings. Refer to the User Guide for instructions about the FXS settings. (You can download the User Guide at www.linksys.com.)

Congratulations! Now you can make external calls.

NOTE: Dial **9** first when you make an external call with the default US dial plan.

If you cannot make calls with the default US dial plan, visit www.linksys.com/kb for additional dial plans, or refer to the User Guide to write your own script. (You can download the User Guide at www.linksys.com.)

you need to know the Direct Inward Dialing (DID) number assigned to you by your ITSP. Usually this is the same as your user ID, but it can be a different number. Check with your ITSP to find out what your DID number is.

To receive external phone calls,

Then decide which Internet phones will ring when an outside caller calls your DID number. The default is **aa**, which stands for auto-attendant, an automated system that picks up external calls and plays pre-recorded voice messages. If you want only the auto-attendant to receive a call, keep the default setting. When the auto-attendant receives a call, it will prompt the caller to dial the appropriate extension.

If you want specific Internet phones to ring when your DID number is called, then refer to the User Guide for instructions about the Contact List setting. (You can download the User Guide at www.linksys.com.)

By default, the daytime autoattendant is enabled, so the first message it plays ("If you know your party's extension, you may enter it now") is suitable for business hours.

If you want a caller to hear a different greeting during nighttime (non-business) hours, then refer to the Auto-Attendant Quick Installation, which is available at www.linksys.com.

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For additional information or troubleshooting help, refer to the User Guide, which is available on the Linksys website. Contact your Internet Telephony Service Provider for further support.

Linksys Website

http://www.linksys.com or http://www.linksys.com/support

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