Connect the Router to your cable or DSL modem and to your notebook or desktop Step 1: Connect the Router

coulidate your equipment to enable shared high-speed access to the internet. nome or business network. The next three sections explain now you will set up and This Fast Start guide gives you the "big picture" of what you need to set up a basic

puters in your home or business. This is called a Local Area Network or LAN. ilar. The Router lets you share your fast cable or DSL connection among several com-You may have different computers than what are pictured here, but the setup is sim-

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(Figure AZ). (Follow the instructions from your capie or USL modem's installation connection-the coaxial jack for cable (Figure A1), or the phone jack for use

A. If you haven't already done so, connect your cable or DSL modem to its proper

ing your PCs, modem, and the Router. First, make sure that all devices you'll be working with are powered down, includ-

buters in your home or business. In Step 1, you will connect the Router to your cable or DSL modem and to the com-



Step 1: Connect the Router

Connect Router

σουμές α πυρ ος switch to any οτ της μένα ροτίς οτ της κουτές. Note: If you are connecting more than four PCs to the Router, you will need to

adapter's user guide for more information. Note: If your PC's Ethernet adapter is not set up, please refer to the Ethernet





process for every PC you wish to connect to the Router. the cable to one of the Ethernet ports on the back of the Router. Repeat this C. Connect an Ethernet cable to your PC's Ethernet adapter. Connect the other end of

modem to the Internet port of the Router. B. Using an Ethernet cable, connect the LAN or Ethernet port of the cable or DSL

Rout



Proceed to Step 2: Configure the PCs on the next page.



use to coundure the Router. trical outlet. Turn on the cable or DSL modem. Then turn on the PC you wish to D. Connect the power adapter to the Router. Connect the power adapter to the elec-

If you are running: Windows 2000

A. Go to the Network screen by clicking the Start button. Click Settings and then Control Panel. From there, double-click the Network and Dial-up Connections icon.

B. Select the Local Area Connection icon for the applicable Ethernet adapter* (usually it is the first Local Area Connection listed). Doubleclick the Local Area Connection. Click the Properties button.

C. Select Internet Protocol (TCP/IP), and click the Properties button.

- D. Select Obtain an IP address automatically. Once the new window appears, click the OK button. Click the OK button again to complete the PC configuration.
- E. Restart your computer.



PCs

Configure

DK Centri



If you are running:

Windows XP

A. Click to the Network screen by clicking the Start button and then Control Panel. From Packetz there, click the Network and Internet Popertes Disable Connections icon and then the Network nnections icon.

B. Select the Local Area Connection icon for the applicable Ethernet adapter (usually it is the first Local Area Connection listed). Double-click the Local Area Connection Click the Properties button.

C. Select Internet Protocol (TCP/IP), and click the Properties button.

- D. Select Obtain an IP address automatically Once the new window appears, click the OK button. Click the OK button again (or the Close button if any settings were changed) to complete the PC configuration.
- E. Restart your computer.

Step 2: Configure the PCs



In Step 2, you will configure each of your computers to be able to communicate with the Router

To do this, you need to configure your PC's network settings to obtain an IP (or TCP/IP) address automatically (called DHCP). Computers use IP addresses to communicate with each other across a network or the Internet.

Find out which operating system your computer is running, such as Windows 98, Millennium, 2000, or XP.

You will need to know which operating system your computer is running. You can find out by clicking the Start button and then going to the Settings option. Then click Control Panel, and then double-click the System icon. If your Start menu doesn't have a Settings option, you're running Windows XP. Click the Cancel button when done.

You may need to do this for each computer you are connecting to the Router.

The next few pages tell you, step by step, how to configure your network settings based on the type of Windows operating system you are using. Once you've config-ured your computers, continue to Step 3: Configure the Router.

If you are running **Windows 98 or Windows Millennium**

- A. Go to the Network screen by clicking the Start button. Click Settings and then Control Panel. From there, double-click the Network
- B. On the Configuration tab, select the TCP/IP line for the applicable Ethernet adapter*. If the word TCP/IP appears by itself, select that line.** Click the Properties button.
- C. Click the IP Address tab. Select Obtain an IP address automatically.
- D. Now click the Gateway tab to ensure that the Installed Gateway field is left blank. Click the **OK** button
- E. Click the OK button again. Windows may ask you for the original Windows installation disk or additional files. Supply them by pointing to the correct file location, e.g., D:\win98, D:\win9x. c:\windows\options\cabs. etc. (if
- "D" is the letter of your CD-ROM drive). F. Windows may ask you to restart your PC. Click the Yes button. If Windows does not ask
 - you to restart, restart your computer anyway.

*Note: Do not choose a TCP/IP entry whose name mentions DUN, PPPoE, VPN, or AOL.

**Note: If there is no TCP/IP line listed, refer to the User Guide found on the Setup Wizard CD-ROM or your Ethernet adapter's user guide to install TCP/IP now.

Configure

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If you are doing a brand new setup, please use the Fast Start guide to get you up and running quickly!

Fast Start EtherFast[®] Cable/DSL Router with 4-Port Switch

CISCO SYSTEMS



Introduction

A Division of Cisco Systems, Inc.

The Router allows you to set up a home or small business network to share your Congratulations! Thank you for choosing the Linksys EtherFast® Cable/DSL Router.

they can also be used for fun. tiplayer video games. So, not only are networks useful in homes and businesses, but such as printers, mes, and UD-RUM drives. Networks are even used for playing mul-Why do I need a network? Networks are useful for sharing computer resources

widest area ot all! All PCs connected to the houter can share this connection. Network) to the Internet. The Internet is a network that, being global, covers the or DSL connection to the Internet. The Router connects your LAN (Local Area I ve wozt remarkable tring the kouter does is to let you share your high-speed cable

network you are setting up. accessories, such as cables and adapters, because Ethernet refers to the type of of the Router's LAN ports. The term "Ethernet" is used to refer to your network nected via Ethernet cable from an Ethernet adapter (in or attached to your PC) to one How is this accomplished? You will be setting up a simple LAN. Your PCs are con-

one internet connection simultaneously. seem as if each PC is connected directly to the Internet. Several PCs can then use Then the Router is connected to your cable or DSL modem. The Router makes it

you connect the Router, configure your PCs, and configure the Router. Dae the Linksys Router Setup CD-ROM or the instructions in this Fast Start to help

support.linksys.com or by reading the User Guide on the Setup CD-ROM. tion (for gaming, VPNs, web hosting, etc.) by visiting our website at Unce you have access to the internet, you can get advanced configuration intormasource instructions will get you up and running quickly using the most basic settings.



SUL

Step 2: Configure the PCs

.spnmas Step 3: Configure the Router

this section of refer to the Help section in this Fast Start guide. It you are unable to reach our website, you may want to review what you did in

Η www.linksys.com/registration. notextrager/mon.zvz/ml.www/l.qt/ml_extension_mont_narray_m Congratulations! You've successfully configured the Router. Test the setup by

H. Restart your computers so that they can obtain the houter's new settings.

e. Reset the power on your cable or ust modem.

Configure

Router

J9SW010 F. If you haven't already done so, click the Save Settings button. Close the web

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are usually left blank. If requested by your ISP (usually cable ISPs), complete name and domain name for the Router. The Host Name and Domain Name fields ${\bf E}.$ Based on the setup instructions from your ISP, you may need to provide a host



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setup intormation.

Help



The Help section contains the most frequently asked Internet connection questions. If you have additional setup needs or you wish to get information on the Advanced Features, please visit www.linksys.com or see the User Guide, which contains a Troubleshooting appendix (available on the Setup CD-ROM).

1. I'm not sure what information I need from my Internet Service Provider (ISP) to get my network up and running. What questions should I ask?

What type of connection do I have: dynamic IP address, static IP address, or PPPoE?

- · If I am using a dynamic IP address, I should ask
- What is my Host Name (if needed)?
- What is my Domain Name (if needed)?

If I am using a static IP address, I should ask:

- What is my IP Address? What is my Gateway?
- What is my DNS?
- If I am using PPPoE (typically used by DSL ISPs), I should ask:
- What is my User Name? What is my Password?

After you obtain the information, follow the instructions in the Fast Start - Step 3: Configure the Router, and use this information to enter on the Basic Setup tab. In the Internet Connection Type section, refer to the chart on the next page:

Address (DHCP)	 Select Ubtain an IP automatically as the internet Connection Type. Click the Save Settings button. 			
Static IP Address	Select Static IP as the Internet Connection Type. Enter the IP Address. Enter the Subnet Mask. Enter the Default Gateway. Enter the Default Gateway. Enter the DNS in the <i>Primary</i> and <i>Secondary DNS</i> fields. You need to enter at least one DNS address. C ick the Save Settings button.			
PPPoE	Select PPPoE as the Internet Connection Type. Enter the User Name. Senter the Password. Click the Save Settings button.			
RAS, PPTP, or Heart Beat Signal	If you are using RAS (Singapore SingTel), PPTP (service in Europe), or Heart Beat Signal (service in Australia), check with your ISP for the necessary setup information.			

ecting to the Internet, what LEDs should be lit on the front of the Router?

Each Router's LED will light up for any proper connection made on the back of the Router-whether it is an Ethernet cable or power cord.

For example, the following are typical LEDs that light up once a computer and a cable or DSL modern are connected:

- When the Router is turned on (the power adapter is plugged into the Router), the Power LED lights up.
- When an Ethernet cable is properly connected between a PC and Port 2 of the Router, the Ethernet LED in Column 2 lights up.
- A cable or DSL modem connection causes the Internet LED to light up.

- 3. I cannot get onto the Internet, nor can I access the Router's Setup page What should I check?
- A. First check that the cable or DSL modem and computers are properly connected to the Router. See Question #2 for how to verify that the connections are good.
- B. Then, check that you have properly configured your PCs to communicate with the Router. Below you will find instructions for the various versions of Windows.

Windows 98 or Millennium

Configure

Router

- Click the Start menu, and then click Run. After the Run window appears. enter winipcfg in the Open field, and then click the OK button.
- When the IP Configuration window appears, click the gray box with a black arrow pointing down.
- A list of adapters will appear. Select the adapter that you use to connect to the Internet. These items should not contain "PPP", "VPN", "AOL", or "Dial-Up adapter" as part of the entry.
- The IP Address field should show an IP address of 192.168.1.100 or 192.168.1.xxx, with "xxx" being any number greater than 100. If your IP address is not in that range, hold the reset button on the front of the Router for more than 30 seconds. This will cause your Router to be set to factory default, so you will need to re-configure the Router's Setup page. After re-configuring the Setup page, restart the computer.

- Windows 2000 or XP

- Click the Start menu, and then click Run. After the Run window appears. enter cmd in the Onen field, and then click the OK button.
- This will open a command prompt. Enter ipconfig /all and then press the Enter key
- The IP Address field should show an IP address of 192,168,1,100 or 192.168.1.xxx. with "xxx" being any number greater than 100. If your IP address is not in that range, hold the reset button on the front of the Router for more than 30 seconds. This will cause your Router to be set to factory default, so you will need to re-configure the Router's Setup page. After re-configuring the Setup page, restart the computer.

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e. Click the Status tab, and then

d. Click the Save Settings button.

a. Select PPPoE as the Internet

password to access the Internet,

you normally enter a user name and are connecting through PPPoE or it

It your DSL provider says that you

f. Click the Save Settings button.

Primary DNS and Secondary

e. Enter the DNS addresses in the

a. Select Static IP as the Internet

address from your ISP, perform

necting through a static or fixed IP

It your ISP says that you are con-

2. Static IP Address or Specify an IP Address

Enter the Default Gateway.

c. Enter the Subnet Mask.

b. Enter the IP Address.

connection type.

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DNS fields. You need to enter at least one DNS address.

D2

A DESCRIPTION OF TAXABLE PARTY.

c. Enter the Password.

b. Enter the User Name.

Connection Type.

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3. PPPoE

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sre using. nection type you select. Proceed to the instructions for the connection type you Setup screen and available teatures will differ depending on what kind of coned in the drop-down menu for the Internet Connection Type setting. Each Basic Static IP Address, PPPoE, RAS, PPTP, and Heart Beat Signal. These types are list-D. The Router supports six connection types: DHCP (obtain an IP automatically),

c. The Router configuration screen will appear with the Basic Setup tab selected.

C. Now you will configure some settings in Windows.

- Go to your desktop and double-click My Computer, and then double-click Control Panel (Windows XP users using the default interface, click Start, and then select Control Panel).
- When the Control Panel window pops up, double-click the Internet Options icon (Windows XP users using the default interface, click Network and Internet Connections, and then click Internet Options).
- When the Internet Options window appears, click the Connections tab Check Never Dial Up a Connection. (If this choice is grayed out, that is fine.)
- Click the LAN Settings ... button in the lower right-hand corner.
- When the Local Area Network (LAN) Settings window appears, uncheck all boxes.
- Click the OK button and the Apply button (the Apply button will be graved out if you did not have to make any changes). Then click the **OK** button again.
- Exit the Control Panel, and restart your computer.
- 4. When I click on the icon to access the Internet, and enter the user name and password that my ISP gave me, I cannot connect to the Internet. What

This means that you're using the software given to you by your ISP. Please use Internet Explorer or Netscape Navigator, which is located on your desktop (located on the Start Menu in Windows XP).

5. When I use Internet Explorer, a box pops up prompting me to dial up a connection. How can I disable that?

- A. Go to your desktop and double-click My Computer, and then double-click Control Panel (Windows XP users using the default interface, click Start, and then select Control Panel).
- B. When the Control Panel window pops up, double-click the Internet Options icon (Windows XP users using the default interface, click Network and Internet
- Connections, and then click Internet Options). C. When the Internet Options window appears, click the Connections tab.
- D. Check Never Dial Up a Connection.
- E. Click the Apply button.
- F. Click the OK button.

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5. PPTP

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Johngure Koute

User Name field empty, and enter admin in lowercase letters in the Password users will see a Connect to 192.168.1.1 screen, shown in Figure B2). Leave the B. An Enter Network Password screen, shown in Figure B1, will appear (Windows XP

http://igite Enter key. Address field. Press the Enter key.

Iowing these directions.) Enter sage at this point. Continue fol-



Note: You only need to configure the Router once using the first computer you set up. purers, you will use the setup information to configure the Router instead of your PC. Recause you are now using the Kouter to share internet access among several com-The instructions from your ISP tell you how to set up your PC for Internet access.

IN THE HEID SECTION.

proceeding. To find out what questions you should ask your ISP, refer to Question #1 vided by your ISP. If you do not have this information, please contact your ISP before through your Internet Service Provider (ISP). You will need the setup information pro-In Step 3, you will contigure the Router to be able to gain access to the Internet



Step 3: Configure the Router

- 6. When I click the Save Settings button on the Setup page of the Router, I get prompted for my user name and password again. I try to enter admin for the password, but I get a red screen after 3 tries. How do I fix this?
- A. Go to your desktop, and double-click the Internet Explorer icon (located on the Start Menu for Windows XP).
- B. When Internet Explorer appears, enter http://192.168.1.1/Management.htm in the Address field, and click Go.
- C. The Enter Network Password screen will appear (Windows XP users will see a Connect to 192.168.1.1 screen).
- D. Leave the User Name field blank. Type admin in the Password field. Then click the OK button.
- ***** (Windows XP users will see a series of bullets), and delete each *. (Make sure this field is left blank.)
- G. Select the second field that displays a series of asterisks. *** *** (Windows XP users will see a series of bullets), and delete each *. (Make sure this field is left blank.)
- H. Click the Save Settings button.
- Now the Router does not have a password.

You should now be able to click the Save Settings button on the Setup page. Don't forget to add a password later.

7. I tried the suggestions above and still cannot get access to the Internet from my Router. What can I do?

You can refer to the Troubleshooting appendix of the User Guide on the Setup CD-ROM, or you can get additional assistance through one of the resources listed below.

800-326-7114 (toll free from U.S. or Canada) Technical Support 949-271-5465 (6:00 am to 5:00 pm PST, M-F) E-mail Support support@linksys.com Website http://www.linksys.com or http://support.linksys.com FTP Site ftp://ftp.linksys.com Sales Information 800-546-5797 (800-LINKSYS)

b. Click the Save

Connection Typ se (ileo a. Select Obtain

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