4. After the settings have been saved, the *Safe Surfing* screen will appear. Click the **Norton Internet Security Suite** button to install the special edition of Norton Internet Security on your computer, or click the **Finish** button to complete the Setup Wizard.

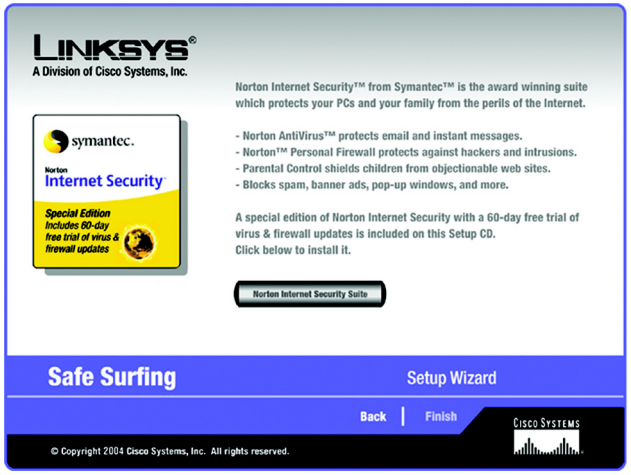

Figure 5-25: Setup Wizard's Safe Surfing Screen

5. The *Congratulations* screen will appear. Click the **Online Registration** button to register the Router, or click the **Exit** button to exit the Setup Wizard.

Congratulations! The installation of the Wireless-G Broadband Router is complete.

If you want to make advanced configuration changes, proceed to "Chapter 6: Configuring the Wireless-G Broadband Router."

Figure 5-26: Setup Wizard's Congratulations Screen

Manually Configuring the Router's Wireless Settings

1. If you do not have other SecureEasySetup devices, then click the E**nter Wireless Settings Manually** button.

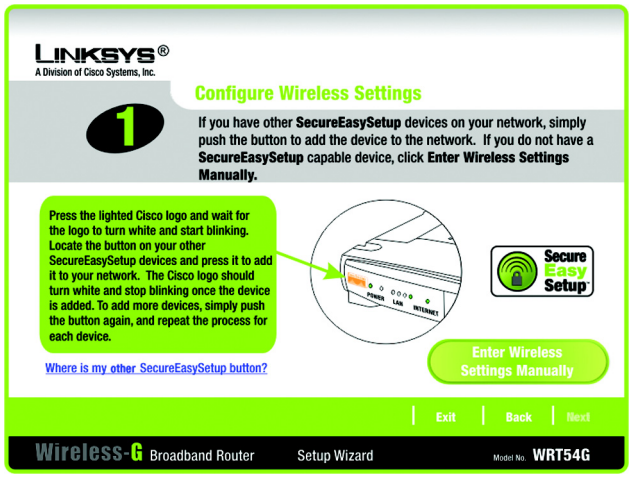

Figure 5-27: Setup Wizard's Configure Wireless Settings Screen

2. The Setup Wizard will ask you to enter the settings for your wireless network.

   In the *SSID* field, enter the name of your wireless network. The SSID must be identical for all devices in the network. The default setting is **linksys** (all lowercase).

   NOTE: An SSID is the network name shared by all devices in a wireless network. Your network's SSID should be unique to your network and identical for all devices within the network.

   Select the operating channel for your wireless network. All of your wireless devices will use this channel to communicate.

   From the *Network Mode* drop-down menu, select the wireless standards running on your network. If you have both 802.11g and 802.11b devices in your network, keep the default setting, **Mixed Mode**. If you have only 802.11g devices, select **G-Only**. If you have only 802.11b devices, select **B-Only**. If you want to disable your wireless network, select **Disable**.

   Enter a name for the Router in the *Device Name* field.

   Click the **Next** button to continue or the **Back** button to return to the previous screen.

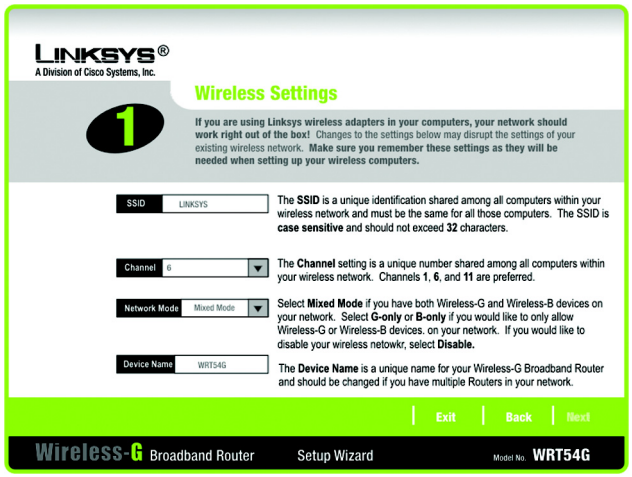

Figure 5-28: Setup Wizard's Wireless Settings Screen

3. Select the method of security you want to use: **WPA-PSK** (also called WPA-Personal), **WEP (64-Bit)**, or **WEP (128-Bit)**. WPA stands for Wi-Fi Protected Access, and WEP stands for Wired Equivalent Privacy. WPA is a stronger security method than WEP. Proceed to the appropriate section for your security method.

   If you want to use WPA-RADIUS (also called WPA-Enterprise), then you should select **Disabled** and use the Router's Web-based Utility to configure your wireless security settings. Click the **Next** button and proceed to step 4.

   If you do not want to use any wireless security method, select **Disabled** and then click the **Next** button. Proceed to step 4.

WPA-PSK

WPA-PSK offers two encryption methods, TKIP and AES, with dynamic encryption keys. Select **TKIP** or **AES** for encryption. Then enter a Passphrase that is 8-32 characters in length.

Encryption - Select the type of algorithm you want to use, **TKIP** or **AES**, from the *Encryption* drop-down menu.

Passphrase - Enter a Passphrase, also called a pre-shared key, of 8-32 characters in the *Passphrase* field. The longer and more complex your Passphrase is, the more secure your network will be.

Click the **Next** button to continue or the **Back** button to return to the previous screen.

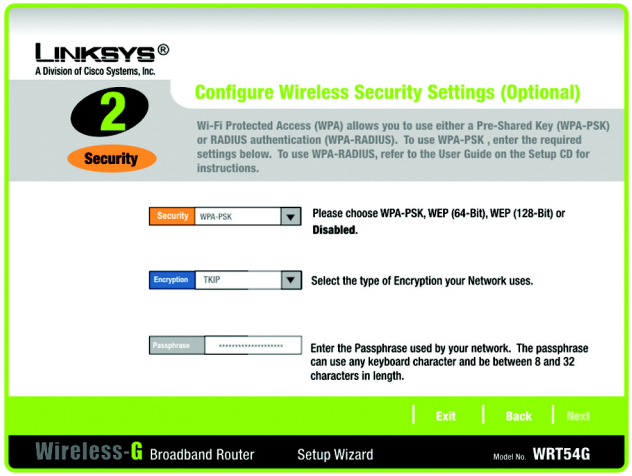

Figure 5-29: Setup Wizard's Wireless Security - WPA-PSK Screen

wpa *(wi-fi protected access: a wireless security protocol using TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.*

wep *(wired equivalent privacy): a method of encrypting network data transmitted on a wireless network for greater security.*

radius *(remote authentication dial-in user service): a protocol that uses an authentication server to control network access.*

encryption: *encoding data transmitted in a network.*

WEP (64-Bit)

Enter a passphrase or WEP key.

Passphrase - Enter a passphrase in the *Passphrase* field, so a WEP key is automatically generated. The passphrase is case-sensitive and should not be longer than 16 alphanumeric characters. It must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (If you have any non-Linksys wireless products, enter the WEP key manually on those products.)

WEP Key - The WEP key you enter must match the WEP key of your wireless network. For 64-bit encryption, enter exactly 10 hexadecimal characters. Valid hexadecimal characters are “0” to “9” and “A” to “F”.

Click the **Next** button to continue or the **Back** button to return to the previous screen.

Figure 5-30: Setup Wizard’s Wireless Security - WEP (64-Bit) Screen

WEP (128-Bit)

Enter a passphrase or WEP key.

Passphrase - Enter a passphrase in the *Passphrase* field, so a WEP key is automatically generated. The passphrase is case-sensitive and should not be longer than 16 alphanumeric characters. It must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (If you have any non-Linksys wireless products, enter the WEP key manually on those products.)

WEP Key - The WEP key you enter must match the WEP key of your wireless network. For 128-bit encryption, enter exactly 26 hexadecimal characters. Valid hexadecimal characters are “0” to “9” and “A” to “F”.

Click the **Next** button to continue or the **Back** button to return to the previous screen.

4. The Setup Wizard will ask you to review your settings before it saves them. Click the **Yes** button if you are satisfied with your settings, or click the **No** button if you do not want to save your new settings.

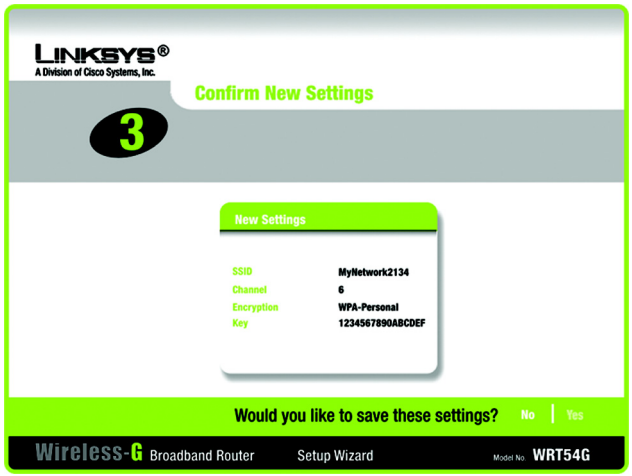

Figure 5-32: Setup Wizard’s Confirm New Settings Screen

5. After the settings have been saved, the *Safe Surfing* screen will appear. Click the **Norton Internet Security Suite** button to install the special edition of Norton Internet Security on your computer, or click the **Finish** button to complete the Setup Wizard.

Figure 5-31: Setup Wizard's Norton Screen

6. The *Congratulations* screen will appear. Click the **Online Registration** button to register the Router, or click the **Exit** button to exit the Setup Wizard.

Congratulations! The installation of the Wireless-G Broadband Router is complete.

If you want to make advanced configuration changes, proceed to "Chapter 6: Configuring the Wireless-G Broadband Router."

Figure 5-33: Setup Wizard's Congratulations Screen

Using SecureEasySetup to Configure Your Notebook

This section explains how to use SecureEasySetup if you have a computer displaying the SecureEasySetup logo.

NOTE: SecureEasySetup uses WPA-Personal encryption. If your current wireless devices do not support WPA-Personal security, then you cannot use SecureEasySetup on your network. You will need to manually configure your network security using the encryption supported by your existing devices.

Figure 5-34: Setup Wizard's Welcome - Start Wizard Screen

1. After you have clicked Wireless Setup on the *Welcome* screen, the first screen that appears will describe the two steps you will take to configure your notebook. Click the **Next** button to continue.

   To exit the Wireless Setup Wizard, click the **Exit** button. If you need more information, click the **Help** button.

Figure 5-35: SecureEasySetup Welcome Screen

2. The next screen will tell you to press the lighted Cisco logo on the Router. After you have pressed the logo, click the **Next** button to continue.

   To exit the Wireless Setup Wizard, click the **Exit** button. If you need more information, click the **Help** button.

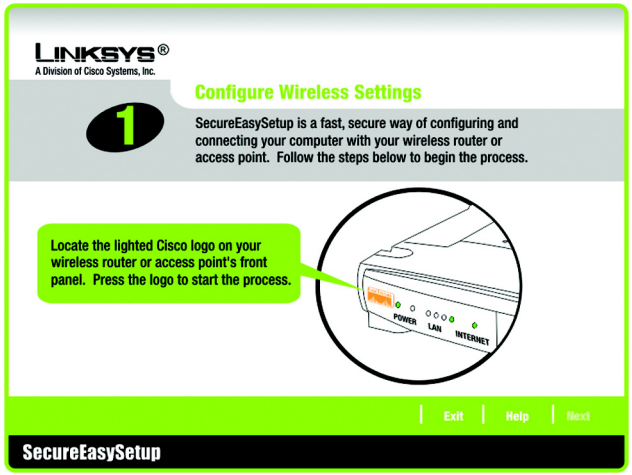

Figure 5-36: Configure Wireless Settings #1 Screen

3. Click the on-screen **START** button to continue.

   To exit the Wireless Setup Wizard, click the **Exit** button. If you need more information, click the **Help** button. To return to the previous screen, click the **Back** button.

Figure 5-37: Configure Wireless Settings #2 Screen

4. The *Your Wireless Settings* screen will appear when the wireless settings have been configured. To save your configuration settings to a text file on your computer, click the **Save** button. To print your configuration settings, click the **Print** button. (You may need these settings so you can manually configure any non-SecureEasySetup devices you may have.)

   To exit the Wireless Setup Wizard, click the **Exit** button. If you need more information, click the **Help** button. To return to the previous screen, click the **Back** button.

Congratulations! The installation of the Wireless-G Broadband Router is complete.

If you want to make advanced configuration changes, proceed to "Chapter 6: Configuring the Wireless-G Broadband Router."

Figure 5-38: Your Wireless Settings Screen

Chapter 6: Configuring the Wireless-G Broadband Router

Overview

Linksys recommends using the Setup CD-ROM for first-time installation of the Router. If you do not wish to run the Setup Wizard on the Setup CD-ROM, then you can use the Web-based Utility to configure the Router. For advanced users, you may configure the Router's advanced settings through the Web-based Utility.

This chapter will describe each web page in the Utility and each page's key functions. The utility can be accessed via your web browser through use of a computer connected to the Router. For a basic network setup, most users will use these two screens of the Utility:

- Basic Setup. On the *Basic Setup* screen, enter the settings provided by your ISP.
- Management. Click the **Administration** tab and then the **Management** tab. The Router's default password is **admin**. To secure the Router, change the Password from its default.

There are seven main tabs: Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. Additional tabs will be available after you click one of the main tabs.

To access the Web-based Utility, launch Internet Explorer or Netscape Navigator, and enter the Router's default IP address, **192.168.1.1**, in the *Address* field. Then press **Enter**.

A password request page, shown in Figure 6-1 will appear. (Non-Windows XP users will see a similar screen.) Leave the *User Name* field blank. The first time you open the Web-based Utility, use the default password **admin**. (You can set a new password from the Administration tab's *Management* screen.) Then click the **OK** button.

NOTE: For first-time installation, Linksys recommends using the Setup Wizard on the Setup CD-ROM. If you want to configure advanced settings, use this chapter to learn about the Web-based Utility.

HAVE YOU: Enabled TCP/IP on your PCs? PCs communicate over the network with this protocol. Refer to "Appendix D: Windows Help" for more information on TCP/IP.

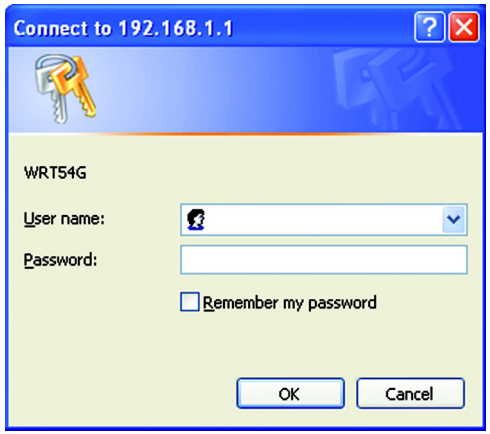

Figure 6-1: Password Screen

The Setup Tab - Basic Setup

The first screen that appears displays the Setup tab. This allows you to change the Router's general settings. Change these settings as described here and click the **Save Settings** button to apply your changes or **Cancel Changes** to cancel your changes.

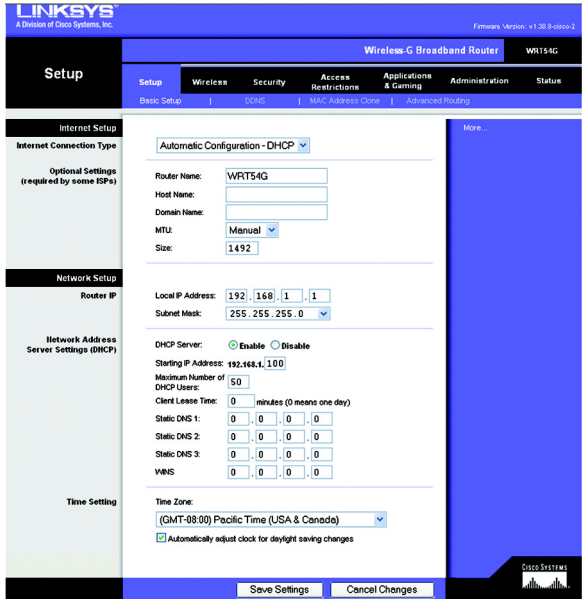

Figure 6-2: Setup Tab - Basic Setup

Internet Setup

The Internet Setup section configures the Router to your Internet connection. Most of this information can be obtained through your ISP.

Internet Connection Type

Choose the type of Internet connection your ISP provides from the drop-down menu.

- **DHCP**. By default, the Router's Internet Connection Type is set to **Automatic Configuration - DHCP**, which should be kept only if your ISP supports DHCP or you are connecting through a dynamic IP address.

Figure 6-3: DHCP Connection Type

- **Static IP**. If you are required to use a permanent IP address to connect to the Internet, select **Static IP**.

  Internet IP Address. This is the Router's IP address, when seen from the Internet. Your ISP will provide you with the IP Address you need to specify here.

  Subnet Mask. This is the Router's Subnet Mask, as seen by users on the Internet (including your ISP). Your ISP will provide you with the Subnet Mask.

  Gateway. Your ISP will provide you with the Gateway Address, which is the ISP server's IP address.

  DNS. Your ISP will provide you with at least one DNS (Domain Name System) Server IP Address.

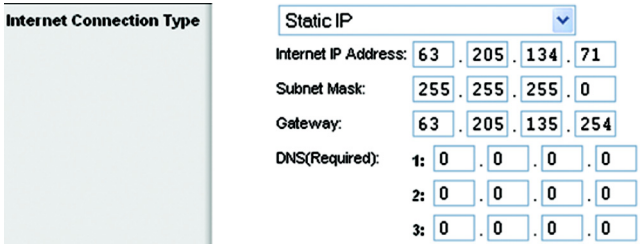

Figure 6-4: Static IP Connection Type

***Static IP address**: a fixed address assigned to a computer or device connected to a network.*