

USER GUIDE

**PrintServer for USB  
with 4-Port Switch**

Model: PSUS4



# About This Guide

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## Icon Descriptions

While reading through the User Guide you may see various icons that call attention to specific items. Below is a description of these icons:



**NOTE:** This check mark indicates that there is a note of interest and is something that you should pay special attention to while using the product.

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**WARNING:** This exclamation point indicates that there is a caution or warning and it is something that could damage your property or product.

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**WEB:** This globe icon indicates a noteworthy website address or e-mail address.

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## Online Resources

Website addresses in this document are listed without **http://** in front of the address because most current web browsers do not require it. If you use an older web browser, you may have to add **http://** in front of the web address.

Resource	Website
Linksys	<a href="http://www.linksys.com">www.linksys.com</a>
Linksys International	<a href="http://www.linksys.com/international">www.linksys.com/international</a>
Glossary	<a href="http://www.linksys.com/glossary">www.linksys.com/glossary</a>
Network Security	<a href="http://www.linksys.com/security">www.linksys.com/security</a>

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# Chapter 1:

## Product Overview

Thank you for choosing the Linksys PrintServer for USB with 4-Port Switch (PrintServer). The PrintServer will allow you to network your printers.

The PrintServer lets you connect a USB printer directly to your network, eliminating the need to dedicate a PC to print serving chores. In addition, the PrintServer includes a 4-port 10/100 switch, so you can easily add more devices to your network. All four ports are auto speed negotiating, and have automatic MDI/MDI-X crossover detection. Each port independently negotiates the best speed and half- or full-duplex mode, for up to 200 Mbps of bandwidth per port. Fast store-and-forward switching prevents damaged packets from being passed on into the network.

### Front Panel



- **Status** (Green) The Status LED will remain continuously lit when a printer is correctly connected to the PrintServer. The LED will flicker when print jobs are being transmitted to the printer over the network.
- **USB** (Green/Orange) The USB LED lights up green when a printer is connected. The USB LED lights up orange when there is an error.
- **1, 2, 3, 4** (Green) These numbered LEDs, corresponding with the numbered ports on the PrintServer's back panel, serve two purposes. If the LED is continuously illuminated, the PrintServer is successfully connected to a device through the LAN port. If the LED is flickering, the PrintServer is actively sending or receiving data to the wired network.

### Back Panel



- **Reset** The Reset button can be used to reset the PrintServer to the factory default settings, or to generate a diagnostic printout.

To reset the factory default settings:

1. Unplug the PrintServer.
2. Press and hold the Reset button. While pressing the button, plug in the PrintServer.
3. Continue pressing the button for 10 seconds, and the PrintServer will be reset to factory defaults.



**NOTE:** Resetting the PrintServer will erase all of your settings and replace them with the factory defaults. Do not reset the PrintServer if you want to retain the settings.

To generate a diagnostic printout (non-Postscript printers only):

1. Ensure that both the PrintServer and the printer attached to the Printer port are on.
2. Press the diagnostic button, and hold it in for 2 seconds.
3. The test page, containing the current settings, will be printed.



**1, 2, 3, 4** The Ethernet port connects the Adapter to your wired PC or other Ethernet network device.



**USB** The USB port is where you will connect the USB printer to the PrintServer. The PrintServer comes with one USB cable. One end of the USB cable has a rectangular plug, or Type A connector. The other end of the cable has a square plug, or Type B connector. The cable's Type A end connects to the PrintServer and the Type B end connects to the printer.



USB Connector—Type A



USB Connector—Type B

### Side Panel



**Power** The Power port is where you will connect the power adapter.

## Chapter 2: Configuration

The PrintServer has been designed to be functional right out of the box with the default settings in the Setup Wizard. However, if you'd like to change these settings, you can use the PrintServer's 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 the use of a computer.

### How to Access the Web-Based Utility

To access the web-based utility, launch your web browser, and enter the PrintServer's IP address in the *Address* field. Then press **Enter**.



Internet Explorer Address Bar



**NOTE:** Use the PrintServer's IP address that you noted during the Setup Wizard. If you did not note the IP address or if you have lost it, insert the Setup CD-ROM, and when the *Welcome* screen appears, click **Setup Wizard**. Follow the instructions until you reach the third screen, where the IP address is shown. After you note the IP address, click **Back** until you reach the *Welcome* screen of the Setup Wizard. Click **Exit**.

### How to Use the Web-Based Utility

The web-based utility has five main tabs: Setup, Protocol, Printer, Status, and Exit. Click a tab to display its screen. If the tab is divided into subfunctions, the names of those subfunctions will appear below the main tab. Select the desired subfunction to display its screen. The default screen for a tab is its first listed subfunction.



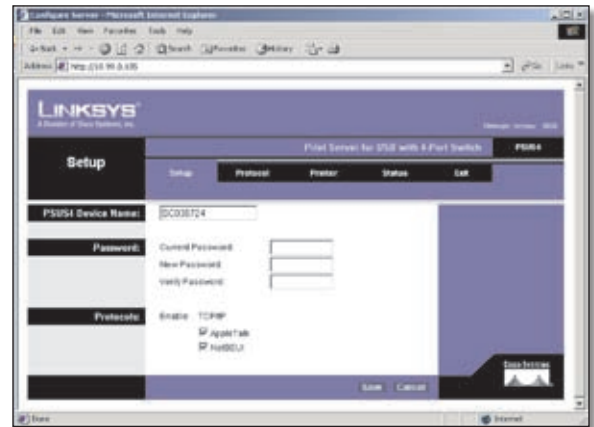
**NOTE:** Screens are identified by the convention *Tab > Sub*, where *Tab* is a main tab, and *Sub* is one of its subfunctions. For example, the *Protocol > TCP/IP* screen appears when you click the **Protocol** tab, then the **TCP/IP** subfunction.

Use the tabs and subfunctions to navigate through the utility and make all necessary changes to the PrintServer's settings. When you have finished making changes on a screen, click the **Save Settings** button to save the changes, or click the **Cancel Changes** button to undo your changes.

To exit the utility, click the Exit tab.

### The Setup Tab

The *Setup* screen is the first screen you see when you access the web-based utility. This screen allows you to change the PrintServer's general settings.



Setup

**PSUS4 Device Name** Enter the PrintServer's name in this field. The name can be located on a sticker that is on the bottom of the PrintServer.

#### Password

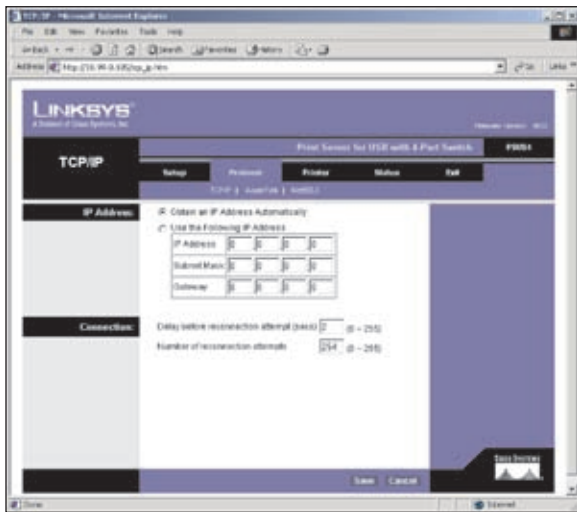
**Current Password, New Password, Verify Password** To change the PrintServer's password, enter the current password in the *Current Password* field, enter the new password in the *New Password* field, and then enter the new password again in the *Verify Password* field.

**Protocols** Select **AppleTalk** or **NetBEUI**, if they apply to your network.

Change these settings as described here and click **Save** to apply your changes or click **Cancel** to cancel your changes.

## The Protocol Tab > TCP/IP

Click the TCP/IP tab to view or change the TCP/IP values of the PrintServer.



Protocol > TCP/IP

### IP Address

**Obtain an IP Address Automatically** If you are using DHCP to assign IP addresses, select **Obtain an IP Address Automatically**. This option is enabled by default.

**Use the Following IP Address** If you need to assign the PrintServer a fixed IP address (also known as Static IP Address), select **Use the Following IP Address**, and enter the appropriate values under *IP Address*, *Subnet Mask*, and *Gateway*. To find your router's IP address, consult your router's documentation. The Device IP Address and Subnet Mask are the same as those of any PC connected to the network. If you change the PrintServer's IP address, make sure you that you reconnect to the PrintServer using that new IP address. Otherwise, you will not be communicating with the PrintServer. The Gateway IP Address is not necessary for using the PrintServer.

### Connection

**Delay before reconnection attempt** To specify how long you want the PrintServer to delay between attempting connections to the network, enter the delay (in seconds).

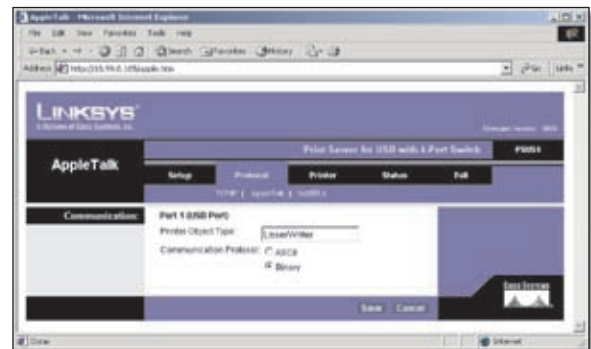
**Number of reconnection attempts** If you want to specify the number of times that the PrintServer will attempt to reconnect after losing the connection, enter the number.

Change these settings as described here and click **Save** to apply your changes or click **Cancel** to cancel your changes.

## The Protocol Tab > Apple Talk

AppleTalk is a network communications protocol that

allows computers to talk to each other using Ethernet. Typically only Macintosh computers use AppleTalk, although other platforms can be made to use it with extra software.



Protocol > Apple Talk

### Communication

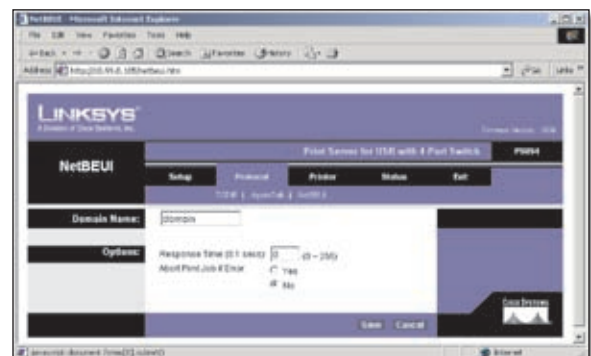
**Printer Object Type** Enter the type of printer in this field. This information can be obtained from the manufacturer of the printer.

**Communications Protocol** For each printer connected to the PrintServer, choose the Communications Protocol that allows the devices on the network to communicate. Select **ASCII** or **Binary** for each printer, according to the recommendation of the printer's manufacturer.

Change these settings as described here and click **Save** to apply your changes or click **Cancel** to cancel your changes.

## The Protocol Tab > NetBEUI

NetBEUI connection settings of the PrintServer are available on this tab.



Protocol > NetBEUI

**Domain Name** Enter the name of the domain that you want to associate with the PrintServer. If you are unsure of the Domain Name, you can find it out by looking on any computer already on the network. In Windows 98, right-click **Network Neighborhood** and select **Properties**. Under the *Identification* tab, you will see a list of that computer's name, and the Domain to which it is connected. For Windows Me and 2000, right-click **My Network Places**. In Windows Me, choose **Properties** from the menu that appears. In Windows 2000 or XP, choose **Properties** from the menu that appears. Then, right-click **Local Area Connection** and choose **Properties**. The Domain name will appear. If you want the PrintServer to be connected to that same Domain, enter that Domain name here. If no Domain name exists there, you will use the Workgroup name from that window.

## Options

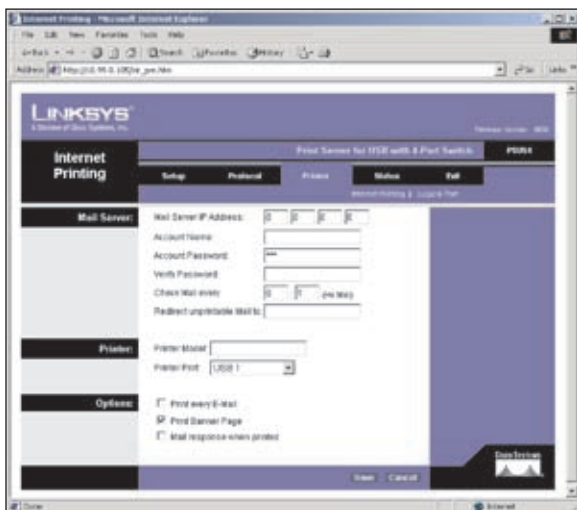
**Response** This allows you to specify the amount of time (measured in seconds) that the PrintServer will wait for a response from the network before "timing out."

**Abort Print Job if Error** Select **Yes** if you want to terminate a print job if an error of any kind occurs. If you select **No**, print jobs that have errors will be sent to the printer, but might not print properly.

Change these settings as described here and click **Save** to apply your changes or click **Cancel** to cancel your changes.

## The Printer Tab > Internet Printing

Internet Printing allows you to automatically print any e-mails that are sent to a specific e-mail account on your network. This is especially useful for printing information when you are not connected to the network. You can print from anywhere that you can access e-mail.



Printer > Internet Printing

## Mail Server

**Mail Server IP Address** Enter the address of your mail server in the Mail Server IP Address. (This value must be a fixed IP address.)

**Account Name, Account Password, Verify Password** Enter the account name and password in the *Account Name* and *Account Password* fields, then enter the password again in the *Verify Password* field.

**Check Mail every** Specify how often the PrintServer will check for e-mail to be printed by entering the time interval in hours and minutes.

**Redirect unprintable Mail to** Use this to specify an e-mail address where mail that cannot be printed will be sent. This is useful for both graphic-intensive e-mails and for troubleshooting purposes.

## Printer

**Printer Model** Enter the printer model in this field. If you do not know this information, you can find it in the Device Manager.

**Printer Port** Choose the printer port from the drop down menu.

## Options

**Print every E-Mail** Select this option to enable it.

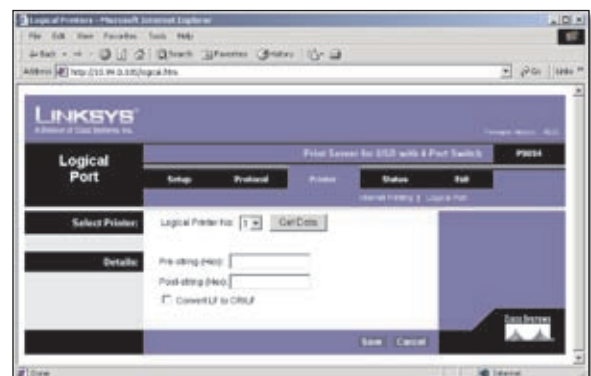
**Print Banner Page** Select this option to enable it. It is enabled by default.

**Mail response when printed** Select this option to enable it.

Change these settings as described here and click **Save** to apply your changes or click **Cancel** to cancel your changes.

## The Printer Tab > Logical Port

The Logical Printers tab contains the logical printer settings of the PrintServer. Select from the following fields for each Logical Printer.



Printer > Logical Port

## Select Printer

**Logical Printer No:** In the drop-down menu, select the logical printer number (1-3) you wish to configure. Click **Get Data** to update the display with the current data for the selected logical printer.

## Details

**Pre-string (Hex)** Enter the printer control string (in hexadecimal characters) to be sent to the printer before each print job. This string cannot exceed 30 characters.

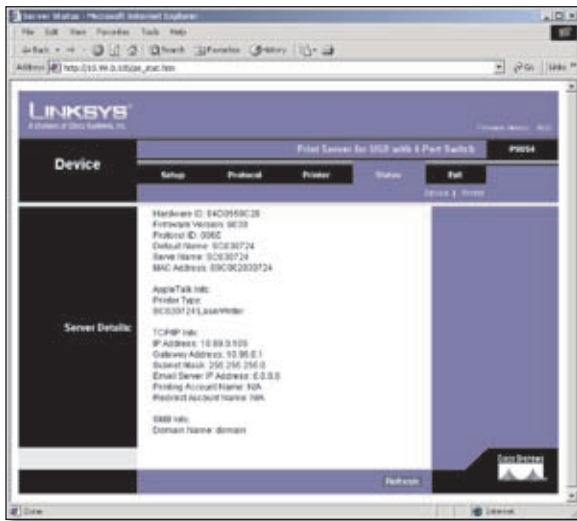
**Post String (Hex)** Enter the printer control string (in hexadecimal characters) to be sent to the printer after each print job. This string cannot exceed 30 characters.

**Convert LF to CR+LF** Select this option if you want to change all LF (line feed) characters to CR+LF (carriage return + line feed).

Change these settings as described here and click **Save** to apply your changes or click **Cancel** to cancel your changes.

## The Status Tab > Device

The Device tab allows you to view information about the PrintServer. No settings can be changed on this screen. This screen is for information only.

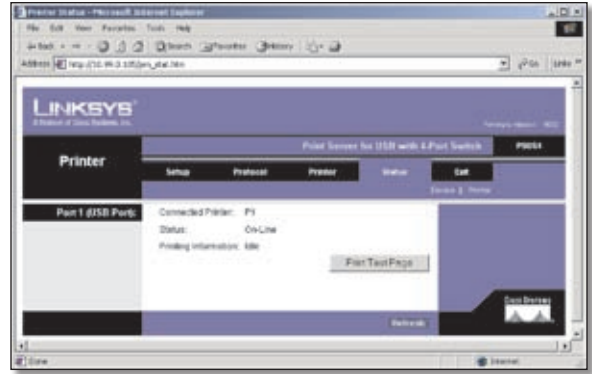


Status > Device

Click **Refresh** to cause the PrintServer to retrieve this information again.

## The Status Tab > Printer

The Printer tab allows you to view information about the Printer. No settings can be changed on this screen. This screen is for information only.



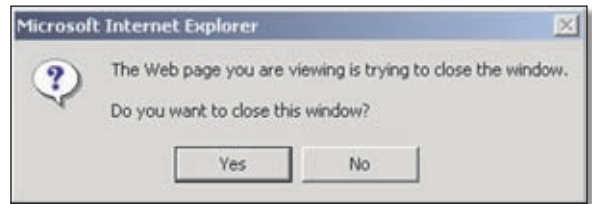
Status > Printer

Click **Refresh** to cause the PrintServer to retrieve this information again.

## The Exit Tab

This tab is used exclusively for exiting the Web-based Utility.

Select the Exit tab and the following screen will appear. Click **Yes** if you want to exit the Utility. Click **No** if you don't want to exit the Utility.



Status > Device



## Chapter 3: Internet Printing Protocol

### Overview

Internet Printing Protocol (IPP) is a new standards-based system to allow remote printing from a PC to any accessible printer. Normally, the printer will be attached to a computer or other device that functions as an IPP Server. For client PCs, it is necessary to install a compatible IPP Client program. The Client must also know the IP Address or URL of the IPP Server.

The PrintServer contains the necessary firmware to act as an IPP Server. No additional configuration is necessary. However, the following requirements must be met:

- The PrintServer must have a valid IP Address. For printing via the Internet, the PrintServer's IP Address must be external (allocated by your ISP), rather than an IP Address on your local LAN.
- Any Router, Gateway, or Firewall linking your LAN to the Internet must NOT block the IPP protocol. (IPP Protocol uses Port Services 631/TCP)
- You must advise clients of the correct URL or IP Address of the IPP Server. To use a URL rather than an IP Address, you need to register the domain name for the URL.
- Unless clients are using Windows 2000, you must provide your clients with the supplied IPP Client software. If it is not convenient to provide the CD-ROM, supply the setup.exe file, located in the IPP folder.

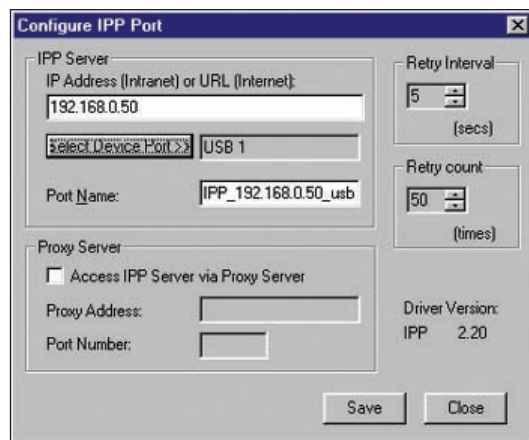
### Windows IPP Client Setup

#### Installation using setup.exe

1. Run this program, located at d:\driver\ipp\setup.exe, to unzip the included files.
2. The IPP Setup program will then run.
3. Follow the prompts to complete the installation.

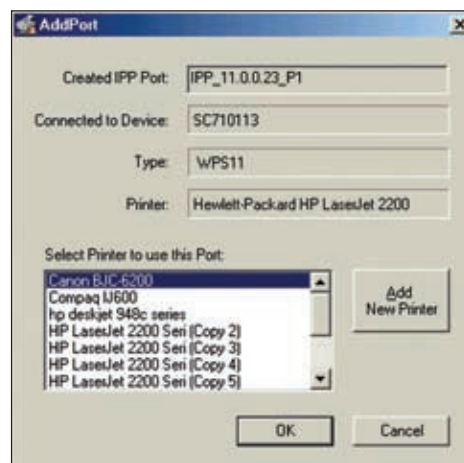
#### IPP Client Configuration for Windows 98, Me, 2000, and XP

1. Run the Add IPP Port program entry created by the installation. The *Configure IPP Port* screen will appear.



Configure IPP Port

2. If Internet access from your location is via a Proxy Server, select **Access IPP Server via Proxy Server**, and enter details of your Proxy Server. (This will be the same as your Browser configuration.)
3. Enter the IP Address or URL of the IPP Server.
4. Click **Select Device Port** to view the available ports on the IPP Server, and select the appropriate port. A connection to the IPP Server will be established at this time.
5. Click **Save** to create the IPP port on your system. You will see a message confirming that the port has been created, and then the *Add Port* screen will appear.



Add Port

6. Perform one of these steps. Select an existing printer to use the new port, and click **OK**.

OR

Click **Add New Printer** to create a new printer to use the IPP port. This will start the Add Printer Wizard. Follow the prompts to complete the process. Make sure that the new printer uses the IPP port.

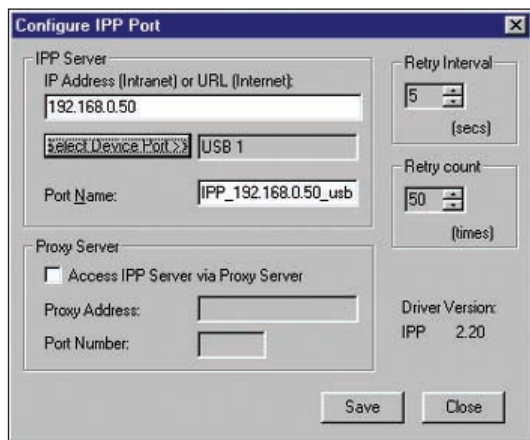
**Installation is now complete.**

- To create additional IPP ports, repeat the entire procedure.
- The Proxy Server and other options are set individually for each IPP Port.

## Changing the IPP Port Settings

After the IPP port is created, you can reach the *Configure IPP Port* screen by performing these steps:

1. Open the Printers folder (click **Start**, click **Settings**, and then click **Printers**).
2. Right-click the IPP Printer and select **Properties**.
3. Click **Port Settings** or **Configure Port** (Details or Port tab, depending on your version of Windows). The *Configure IPP Port* screen will appear.



Configure IPP Port

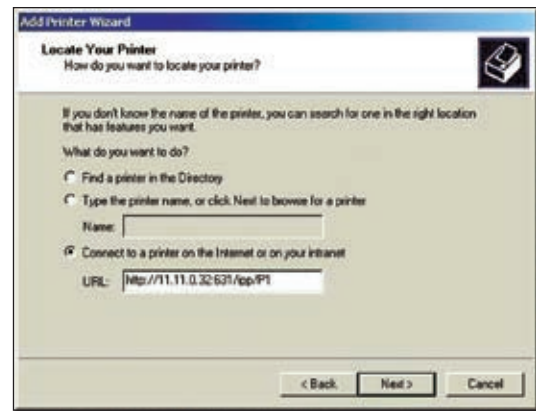
There are two settings—Retry Interval and Retry Count—that can be adjusted if you have problems connecting to the IPP Server.

- Retry Interval sets the time interval (in seconds) between connection attempts. Increase this number if you have a poor connection, or the remote server is very busy.
- Retry Count sets how many connection attempts will be made. Increase this number if you have a poor connection, or the remote server is very busy.

## IPP Client Setup for Windows 2000 and XP

Windows 2000 and XP have their own IPP Client, and there is no need to install the supplied IPP Client Software. To use this IPP Client with the PrintServer, follow this procedure:

1. Start the Add Printer Wizard.
2. Select **Network Printer** and click **Next** to display the *Locate your Printer* screen.



Locate Your Printer

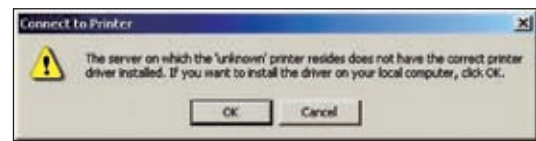
3. Select **Connect to a printer on the Internet or on your intranet**, and enter the URL of the IPP Server as follows, where ip\_address represents the IP Address of the IPP Server, and 631 represents the port number.

Port 1      ip\_address:631/ipp/P1



**NOTE:** These entries are case sensitive. They must be entered as shown, with “ipp” in lowercase, and P1 in UPPERCASE.

4. If the connection can be established, and the printer on that port is online, the dialog box shown below will be displayed. This screen notifies you that the printer driver is not installed. Click **OK**.



Printer Driver Not Installed

5. Select the printer manufacturer and model to match the printer connected to the port on the IPP Server.
6. Click **Next** to complete the Wizard.

**The IPP printer is now ready for use.**

## Using IPP Printers

The IPP Printer can be selected and used like any other Windows printer. If the IPP Server is not on your network, your Internet connection needs to be active.

If you wish to check the availability of the remote IPP Server, you can use the Query IPP Printer program installed with Add IPP Port.

An IPP Server may be unavailable for any of the following reasons:

- It is powered off.

- A printer problem has caused the IPP Server to cease responding, and a restart (reboot) is required.
- The Server's IP Address has changed.
- The Internet connection for the IPP Server is down.
- Network congestion causes the connection attempt to time out.

If using the supplied IPP Client software, there are two settings—Retry Interval and Retry Count—that can be adjusted if you have problems connecting to the IPP Server.

See the previous section, "Changing the IPP Port Settings", for details.

## Chapter 4: Bi-Admin Management

### Overview

The PrintServer is managed by a utility program called Bi-Admin on the PrintServer's Setup CD. Fully compatible with Windows 98, Me, 2000, and XP, Bi-Admin allows you to change the PrintServer's internal settings, check the unit's status, and perform basic diagnostic tests.

Note that the Bi-Admin program must be installed only on the network administrator's computer. First, you will install Bi-Admin on your computer. Then, you will be able to use the management utility.

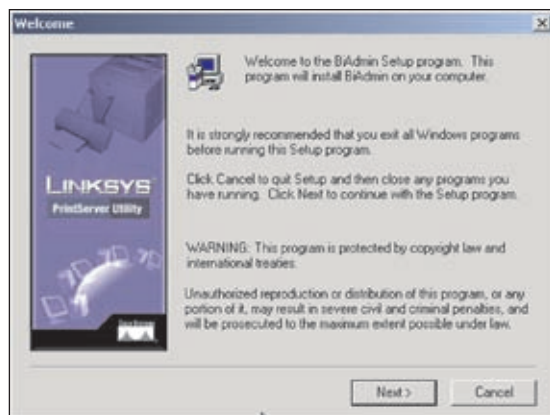
### Bi-Admin Installation

1. If you have not already done so, insert the Setup CD-ROM into the PC's CD-ROM drive. The Setup CD-ROM should run automatically. If it does not, click **Start** and choose **Run**. In the box that appears, enter **D:\setupWizard.exe** (if "D" is the letter of your CD-ROM drive).
2. When you see the *Welcome* screen, click **Bi-Admin Install** to continue. Click **Exit** to end the installation.



Welcome

3. The Bi-Admin program's *Welcome* screen will appear. If any other programs are open at this time, close them before continuing; click **Cancel** to quit the setup program, then close the open programs. Otherwise, click **Next** to continue with the Bi-Admin installation.



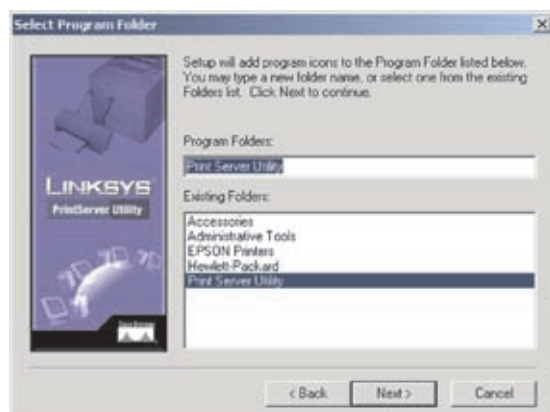
Bi-Admin Welcome

4. The *Choose Destination Location* screen lists the default location where the Bi-Admin folder will be installed. If you want to install the folder in a different location, click **Browse** and select the location. To install the folder in the default location, click **Next** to continue. Click **Back** to return to the previous screen. Click **Cancel** to end the Bi-Admin installation.



Choose Destination Location

5. The *Select Program Folder* screen appears. An icon will be added to the program folder listed. If desired, change the name for the program folder. Click **Next**. Click **Back** to return to the previous screen. Click **Cancel** to end the Bi-Admin installation.



Select Program Folder

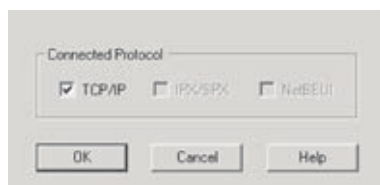
- When the Bi-Admin is installed, the *Setup Complete* screen will appear. Click **Finish** to continue.



Setup Complete

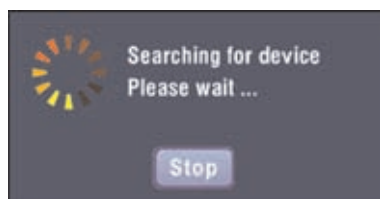
## Starting the Bi-Admin Management Utility

- To start the Bi-Admin program, click **Start, Programs, Print Server Utility**, and then **Bi-Admin Management Utility**. If the Bi-Admin Management Utility icon has been created, you can double-click it instead. You can drag the shortcut icon onto your Desktop for easy access to the Bi-Admin Management Utility.
- When the Bi-Admin Management Utility appears, make sure that *TCP/IP* is the Connected Protocol. Click **OK**.



Connected Protocol

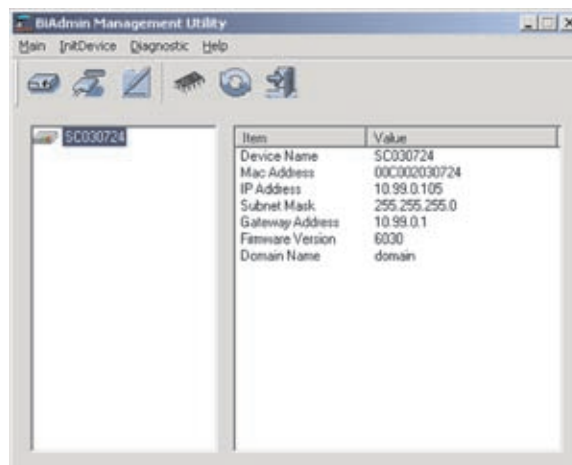
- The Bi-Admin Management Utility will automatically scan the network for the USB PrintServer.



Searching for device

## The Bi-Admin Management Utility

The Bi-Admin Management Utility screen will appear next. Any hardware found on the network will appear on the left-hand side of the screen. The Utility can be managed from this screen.



Bi-Admin Management Utility

The Utility's main menu contains the following options:

- Main
- InitDevice
- Diagnostic
- Help

These options and their submenus are described below.

### Main Option

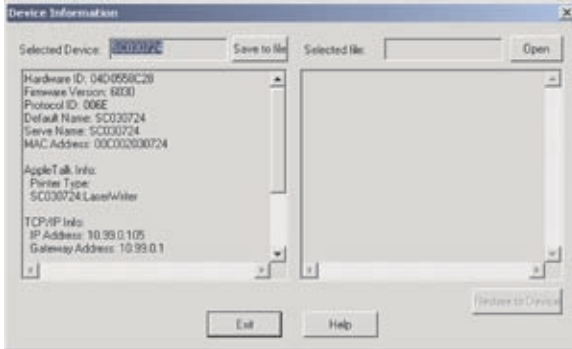
When you select **Main** from the menu bar, these options are displayed:

- Device Status
- Printer Status
- Configuration
- Upgrade
- Refresh
- Exit

These options also correspond to the icons that appear below the menu options (viewed from left to right).

**Device Status** This option allows you to view all of the device settings, and optionally save the device settings to a file, or restore a previously saved file to the device.

If you click **Device Status**, the *Device Information* screen appears. A list of the PrintServer's device settings is displayed that contains the Hardware ID, Firmware version, Protocol ID, Default Name, and Server Name. To save the information in a txt. file, click **Save to file**.

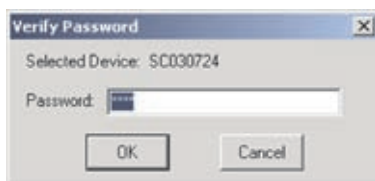


Device Information

To choose a different device that you configured, click **Open**. You may then browse for your file, select it, then click **Open**. The contents of the file will display on the right-hand side of the screen. To save the file to the PrintServer, click **Restore to Device**.

**Printer Status** This option allows you to view the printer status, and set port and printer parameters.

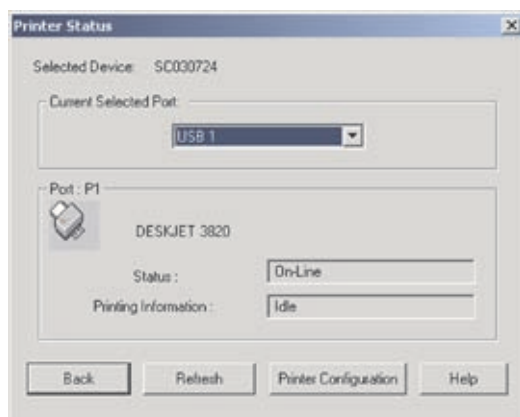
If you click this option, a *Verify Password* screen will appear. Make sure that you enter the password in the field before you click **OK**. If an Incorrect Password message appears, click **OK**, enter the correct password, and click **OK** again.



Verify Password

After the password is successfully entered, the *Printer Status* screen will appear. The Device Name will be displayed and USB Printer Port will be highlighted. The status information for the port will be displayed.

Click **Back** to return to the Bi-Admin Management Utility screen. Click **Refresh** to refresh the screen.

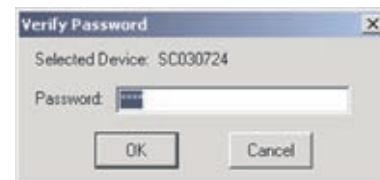


Printer Status

If the printer is Bi-directional, and is not busy, the **Printer Configuration** button will appear, as shown above. If the items are not read only, you can change the Environmental Variable and Variable Value items based on the options of your printer.

For more information, click **Help**.

**Configuration** You may configure the PrintServer with this option. If you click this option, a *Verify Password* screen appears. Enter the password in the field and then click **OK**. If an Incorrect Password message appears, click **OK**, enter the correct password in the field, and click **OK** again.



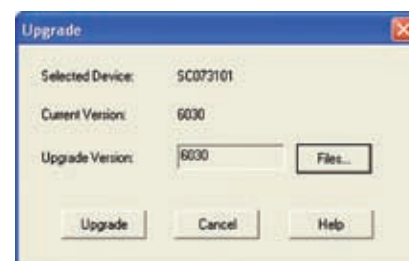
Verify Password

After the password is successfully entered, the *Configuration* screen will appear.

The Configuration screen contains six tabs. *System TCP/IP*, *AppleTalk*, *NetBEUI*, *Internet Printing*, and *Port*. Each tab contains a different category of configuration settings. For a detailed description of these tabs refer to section "Main > Configuration Screen Tabs".

**Upgrade** This option is used to upgrade the firmware of the PrintServer. Follow these instructions to upgrade your PrintServer's firmware:

1. Download the firmware to your computer from the Linksys website at [www.linksys.com](http://www.linksys.com).
2. Open the Bi-Admin Management utility.
3. Click **Main**, and then click **Upgrade Firmware**.
4. Click **Files...** to browse for the file on your computer.
5. Click **Upgrade** to upgrade the firmware.



Upgrade Firmware

**Refresh** This option allows you to refresh the device list after you change the name or IP Address of a device. The screen does not refresh automatically.

**Exit** This option allows you to exit the program.

## Main Menu > Configuration Screen Tabs

The *Configuration* screen displays six tabs: System, TCP/IP, Apple Talk, NETBEUI, Internet Printing, and Port. The tabs are described below.

- System



Main > Configuration > System Tab

Enter the appropriate information in the *Device Name* and *Comment* fields.

To change the password, select **Change Device Password**, enter the new password in the *Password* field, then re-enter the password in the *Confirm Password* field.

Select the protocol to be used on your network: TCP/IP, Apple Talk, NetBEUI, IPX/SPX.

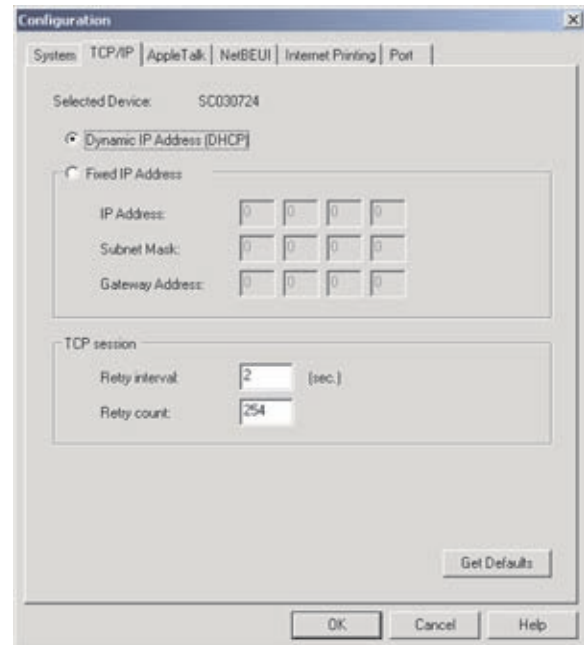
Click **Get Defaults** if you want to return the settings to the default settings.

When you are finished making changes on this tab, click **OK** to save your changes, or click **Cancel** to undo your changes. For more information, click **Help**.

- TCP/IP

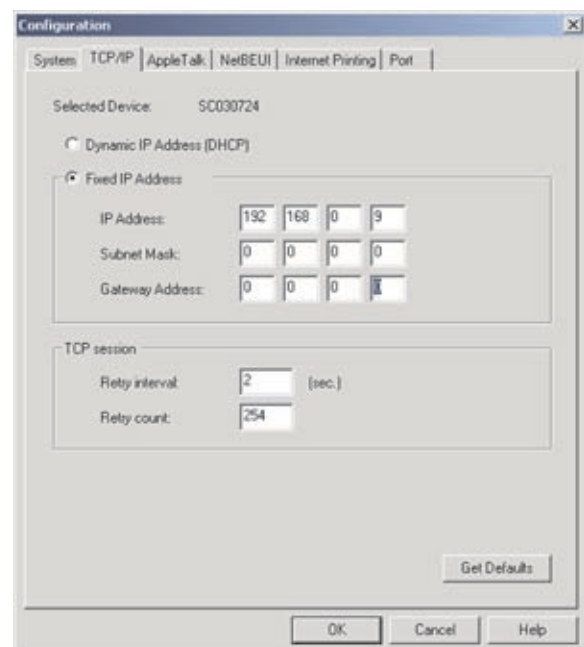
You first need to specify whether the PrintServer's IP address will be automatically assigned via DHCP, or if it is a fixed (also called static) IP address.

If you use DHCP to assign IP addresses, select **Dynamic IP Address (DHCP)**. This is enabled by default.



Main > Configuration > TCP/IP Tab—Dynamic IP Address (DHCP)

If you need to assign the PrintServer a fixed (static) IP address, select **Fixed IP Address**, and enter the appropriate values in the *IP Address*, *Subnet Mask*, and *Gateway Address* fields.



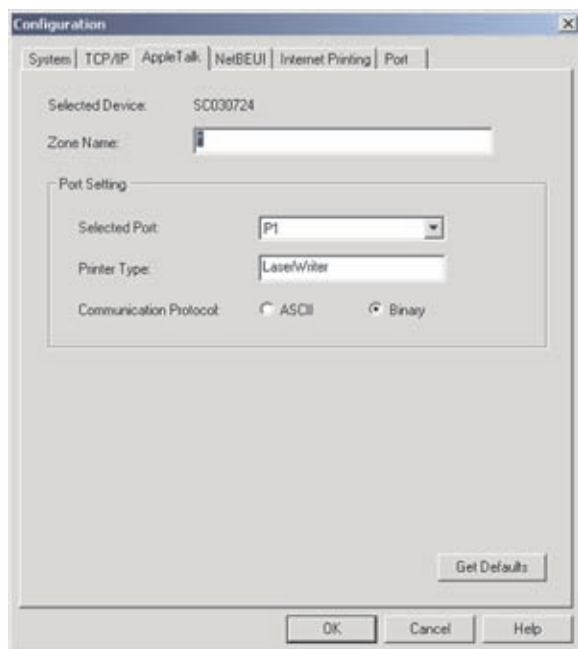
Main > Configuration > TCP/IP Tab—Fixed IP Address

To find your router's IP address, consult your router's documentation. The IP Address and Subnet Mask are the same as those of any PC connected to the network. If you change the PrintServer's IP address, make sure you that you reconnect to the PrintServer using the new IP address. Otherwise, you will not be communicating with the PrintServer. The Gateway IP Address is not necessary for using the PrintServer.

Click **Get Defaults** if you want to return the settings to the default settings.

When you are finished making your changes on this tab, click **OK** to save these changes, or click **Cancel** to undo your changes. For more information, click **Help**.

- AppleTalk



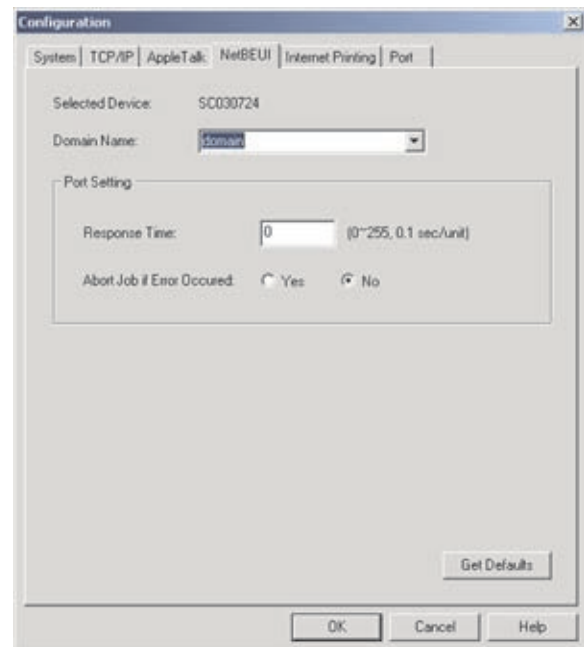
Configuration > AppleTalk Tab

AppleTalk is a network communications protocol that allows computers to talk to each other using Ethernet. Typically only Macintosh computers use AppleTalk, although other platforms can be made to use it with extra software. Enter or the zone name in the *Zone Name* field, select the port number from the *Selected Port* drop-down menu, enter the type of printer in the *Printer Type* field (this information can be obtained from the printer manufacturer), and then select the type of communication protocol, **ASCII** or **Binary**, that you will use for the printer, as recommended by the printer's manufacturer.

Click **Get Defaults** if you want to return the settings to the default settings.

When you are finished making your changes on this tab, click **OK** to save these changes, or click **Cancel** to undo your changes. For more information, click **Help**.

- NetBEUI



Configuration > NetBEUI Tab

Enter the domain name to be associated with the PrintServer in the *Domain Name* field. If you are unsure of the Domain Name, you can determine it by looking on any computer already on the network:

- Windows 98: Right-click Network Neighborhood and select Properties. Under the Identification tab, the computer's name will be listed, and the Domain to which it is connected.
- Windows Me: Right-click My Network Places. Choose Properties from the menu that appears.
- Windows 2000 or XP: Right-click My Network Places, choose Properties from the menu, then, right click Local Area Connection and choose Properties. The Domain name will appear. If you want the PrintServer to be connected to that same Domain, enter that Domain name here. If no Domain name exists there, use the Workgroup name from that window.

If you want, you can enter a response time in the *Response Time* field. This is the time in seconds that the PrintServer will wait for a response from the network before "timing out." If you want printing to terminate whenever any error occurs, select **Yes** next to *Abort Job if Error Occured*. If you select **No**, print jobs with errors will be sent to the printer, but may not print properly.

Click **Get Defaults** if you want to return the settings to the default settings.

When you are finished making your changes on this tab, click **OK** to save these changes, or click **Cancel** to undo your changes. For more information, click **Help**.



- Internet Printing

Configuration &gt; Internet Printing Tab

Enter the address of your mail server in the *Mail Server IP Address* field. (This value must be a fixed IP address.) Next enter the mail account name in the *Mail Account* field and the password in the *Password* field. Enter the password again in the *Confirm Password* field. Then, enter the time interval for the PrintServer to check for e-mail to be printed, in hours and minutes in the *Check Mail Interval:* field. You may also specify an e-mail address to which mails that cannot be printed are routed; this is useful for both graphic-intensive e-mails and for troubleshooting purposes. Enter this e-mail address in the *Redirect Mail Account:* field. Select the default printer port from the *Default Printer Port* drop-down menu. Enter the printer model in the *Printer Model* field (you can find this in the Device Manager). Place a check mark next to your preferences for options. Select any options that you want to enable: **Print every Mail**, **Banner Printing** (enabled by default), or **Mail response when Printed**.

Click **Get Defaults** if you want to return the settings to the default settings.

When you are finished making your changes on this tab, click **OK** to save these changes, or click **Cancel** to undo your changes. For more information, click **Help**.

- Port

Configuration &gt; Port Tab

Select the number of the Selected Physical Port from the drop-down menu. Select the Handshake Signal (Busy Only or Busy & Ack). Select the Printer Type (High Speed or Low Speed). Select the Selected Logical Port from the drop-down menu, then the physical port you want to map it to from the drop-down menu for Map to Physical Port. If you select **Yes** for Convert LF to LF+CR, the LF (line feed) characters are changed to LF+CR (line feed +carriage return). In the *Prefix of Job* field, enter the printer control string (in hexadecimal characters) to be sent to the printer before each print job. This string cannot exceed 30 characters. In the *Suffix of Job* field, enter the printer control string (in hexadecimal characters) to be sent to the printer after each print job. This string cannot exceed 30 characters.

Click **Get Defaults** if you want to return the settings to the default settings.

When you are finished making your changes on this tab, click **OK** to save these changes, or click **Cancel** to undo your changes. For more information, click **Help**.

## InitDevice Option

When you select **InitDevice** from the menu bar, these options are displayed:

- Reset Device
- Restore to Factory Default
- Attached Remote
- Connected Protocol

If you click **Attached Remote**, the *Attached Remote* screen appears. To add a cross segment print server, enter the IP address in the fields, and click **Set**. Click **Cancel** to undo any changes. For more information, click **Help**.



Attached Remote

## Diagnostic Option

When you select **Diagnostic** from the menu bar, a diagnostic test page is sent to the printer.

## Help Option

When you select **Help** from the menu bar, these options are displayed:

- Help Topics
- About Bi-Admin

Select the appropriate option to see a help file with advice and details about all of the PrintServer's functions and capabilities.

## Appendix A: Troubleshooting

If the PrintServer is not working correctly, follow the advice in this chapter. If you have trouble printing, make sure that all Ethernet and USB cables connected to the PrintServer are plugged in securely. If the problem continues, refer to **Chapter 4: Bi-Admin Management, page 9**.

### ***All the LEDs on the front of the PrintServer are off***

Check the power supply and the power connection.

### ***The PrintServer's Status LED stays lit continuously***

Reset the Wireless-Ready PrintServer by unplugging the power supply and plugging it back in or pressing the Reset button on the back of the PrintServer.

### ***I am using DHCP, and the PrintServer gets an IP Address conflict involving the PrintServer.***

If the PrintServer is left on when the DHCP server is turned off, the PrintServer will retain its IP Address without informing the DHCP server. Reset the PrintServer so it will obtain a new IP Address. This problem also arises if you assigned a static IP Address within the range used by the DHCP server. If so, use another address NOT within the range used by the DHCP server.

### ***The PrintServer's LAN LED is not lighting up.***

Check your cabling and make sure that the Link LED on your hub or switch is lit up.

### ***A printer connected to the PrintServer cannot print or prints garbage.***

Check the following:

1. Cable connection between the PrintServer and printer.
2. The printer driver in the application program or Windows matches the printer.
3. Cabling distance is too long if it exceeds 10 feet.

### ***The Configuration button on the Printer Status screen in Bi-Admin is grayed out, even though my printer is bi-directional.***

The button is unavailable until the printer has finished its print jobs and sits idle.

### ***To start over, I need to set the PrintServer to factory default.***

Unplug the power to the PrintServer. Press in the Reset button and plug in the power and continue to hold for 10 seconds. This will return the password and other settings

on the PrintServer to the factory default settings. In other words, the PrintServer will revert to its original factory configuration.

### ***I need to upgrade the firmware.***

In order to upgrade the firmware with the latest features, you need to go to the Linksys website and download the latest firmware at [www.linksys.com](http://www.linksys.com).

Follow these steps:

4. Go to the Linksys website at <http://www.linksys.com> and download the latest firmware.
  5. To upgrade the firmware, refer to the **Upgrade** option under section **Main Option, page 10**.
1. Verify the proper LEDs are lit on the Adapter.
    - Make sure the Power LED has a steady green light and is not flashing.
    - Verify the Ethernet LED has a fairly steady green light. It will flash occasionally, indicating activity.
    - Verify the Signal Strength LEDs are lit.
  2. Power down everything, and power on each device in the following order:
    - Adapter
    - PC

Disconnect the power from the Adapter and reconnect it. You should be able to access the web-based utility once the Adapter has fully booted.



**WEB:** If your questions are not addressed here, refer to the Linksys website, [www.linksys.com](http://www.linksys.com)

## Appendix B: Specifications

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Model	PSUS4
Ports	4 10/100 RJ-45 Ports Auto MDI/MDI-X, USB, Power
Buttons	Reset
LEDs	Status, USB, 1-4
Cabling Type	Category 5 or better, USB 1.1 cable with Type-B female and Type-A male connectors

### Environmental

Dimensions	3.66" x 1.18" x 3.54" (93 x 30 x 90 mm)
Weight	7.8 oz (221 g)
Power	External, 5V DC, 2.5A
Certification	FCC Class B, CE
Operating Temp.	32 to 104°F (0 to 40°C)
Storage Temp.	- 4 to 158°F (-20 to 70°C)
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

Specifications are subject to change without notice.

## Appendix C: Warranty Information

### Limited Warranty

Linksys warrants this Linksys hardware product against defects in materials and workmanship under normal use for the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

- One (1) year for new product
- Ninety (90) days for refurbished product

This limited warranty is non-transferable and extends only to the original end-user purchaser. Your exclusive remedy and Linksys' entire liability under this limited warranty will be for Linksys, at its option, to (a) repair the product with new or refurbished parts, (b) replace the product with a reasonably available equivalent new or refurbished Linksys product, or (c) refund the purchase price of the product less any rebates. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All products and parts that are replaced become the property of Linksys.

### Exclusions and Limitations

This limited warranty does not apply if: (a) the product assembly seal has been removed or damaged, (b) the product has been altered or modified, except by Linksys, (c) the product damage was caused by use with non-Linksys products, (d) the product has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, (e) the product has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident, (f) the serial number on the Product has been altered, defaced, or removed, or (g) the product is supplied or licensed for beta, evaluation, testing or demonstration purposes for which Linksys does not charge a purchase price or license fee.

ALL SOFTWARE PROVIDED BY LINKSYS WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. Without limiting the foregoing, Linksys does not warrant that the operation of the product or software will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the product, software or any equipment, system or network on which the product or software is used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or

service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party's service for which this product's use or operation may require.

TO THE EXTENT NOT PROHIBITED BY LAW, ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY 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, BUT NOT LIMITED TO, 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 limited warranty gives you specific legal rights, and you may also have other rights which vary by jurisdiction.

TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL LINKSYS 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 LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL LINKSYS' LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty 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.

### Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to [www.linksys.com/support](http://www.linksys.com/support) where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Linksys Technical Support for instructions on how to obtain warranty service. The telephone number for Linksys Technical Support in your area can be found in the product User Guide and at [www.linksys.com](http://www.linksys.com). Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials Authorization (RMA) number. You are responsible for properly packaging and shipping your product to Linksys at your cost and risk. You must include the RMA number and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be

rejected. Do not include any other items with the product you are returning to Linksys. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Linksys' then-current rates.

### **Technical Support**

This limited warranty is neither a service nor a support contract. Information about Linksys' current technical support offerings and policies (including any fees for support services) can be found at:

**[www.linksys.com/support](http://www.linksys.com/support)**.

This limited warranty is governed by the laws of the jurisdiction in which the Product was purchased by you.

Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623.

## Appendix D: Regulatory Information

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### 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 or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

### 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.



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

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### Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

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.

### Avis d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Le fonctionnement est soumis aux conditions suivantes :


1. Ce périphérique ne doit pas causer d'interférences;
2. Ce périphérique doit accepter toutes les interférences reçues, y compris celles qui risquent d'entraîner un fonctionnement indésirable.

## 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.


### Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/EC изисква уредите, носещи този символ  върху изделието и/или опаковката му, да не се изхвърлят с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от сметосъбирането на обикновените битови отпадъци. Вашата отговорност е този и другите електрически и електронни уреди да се изхвърлят в предварително определени от държавните или общински органи специализирани пунктове за събиране. Правилното изхвърляне и рециклиране ще спомогнат да се предотвратят евентуални вредни за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обърнете към местните власти, службите за сметосъбиране или магазина, от който сте закупили уреда.


### Čeština (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 korrektne 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**

Σύμφωνα με την Κοινοτική Οδηγία 2002/96/ΕΚ, ο εξοπλισμός που φέρει αυτό το σύμβολο , στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα μη διαχωρισμένα αστικά 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 ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη ενδεχόμενων αρνητικών επιπτώσεων στο περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες αποκομιδής απορριμμάτων 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 mājsaimniecības 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  kurios pakuotė yra pažymėta šiuo simboliu (įveskite simbolį), 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 perdirbant 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 fi h is-simbolu  fuq il-prodott u/jew fuq l-ippakkjar ma jistax jintrema ma' skart muniċipali li ma għex 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-riċiklaġġ jgħin 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-fanot 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 hulladékészállítási rendszerektől elkülönített eljárást kell alkalmazni. Az Ön felelőssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által kijelölt gyűjtőredszereken 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 das 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.


### Română (Romanian) - Informații de mediu pentru clienții din Uniunea Europeană

Directiva europeană 2002/96/CE impune ca echipamentele care prezintă acest simbol  pe produs și/sau pe ambalajul acestuia să nu fie casate împreună cu gunoiul menajer municipal. Simbolul indică faptul că acest produs trebuie să fie casat separat de gunoiul menajer obișnuit. Este responsabilitatea dvs. să cașiți acest produs și alte echipamente electrice și electronice prin intermediul unităților de colectare special desemnate de guvern sau de autoritățile locale. Casarea și reciclarea corecte vor ajuta la prevenirea potențialelor consecințe negative asupra sănătății mediului și a oamenilor. Pentru mai multe informații detaliate cu privire la casarea acestui echipament vechi, contactați autoritățile locale, serviciul de salubritate sau magazinul de la care ați achiziționat produsul.


### 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.


### Slovenščina (Slovene) - Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom  – na izdelku in/ali na embalaži z nesortiranimi komunalnimi odpadki. Ta simbol opozarja, da je treba izdelek zavreči ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo oddate na posebna zbirališča, ki jih določijo državne ustanove ali lokalne oblasti. 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 lokalne oblasti, odlagališče odpadkov 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 viranomaisten 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 samlingsplatser 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.



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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The implementation was written so as to conform with Netscape's SSL.

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