



Direct Attached Fast Ethernet Print Server

FPS-1001

User's Manual

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Revision

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Chapter1 Introduction

1.1 Product Introduction

Thank you for purchasing PLANET FPS-1001. The FPS-1001 allows you to share parallel printers over any network. It is not only giving network users greater flexibility, but also takes the load off the file server; thus enhances both printing performance as well as overall network performance. In addition, by using our Windows based installation program, configuration can be completed in minutes. Equipped with the printing interface – DB36, the FPS-1001 provides a direct connection to your printer.

The FPS-1001 is configurable through a Web Browser or a windows-based management utility. With various network printing methods support, including Windows Peer-to-Peer printing, Server-based Queues printing (Windows Server, NetWare 5.x or above), LPD printing, Internet Printing Protocol (IPP), Mail Printing and AppleTalk for Macintosh, the FPS-1001 is the ideal solution for printer sharing in every network.

1.2 Product Package

This package contains the following components:

- 1 x FPS-1001
- 1 x Power Adapter
- 1 x Driver and User's Manual CD
- 1 x Quick Installation Guide

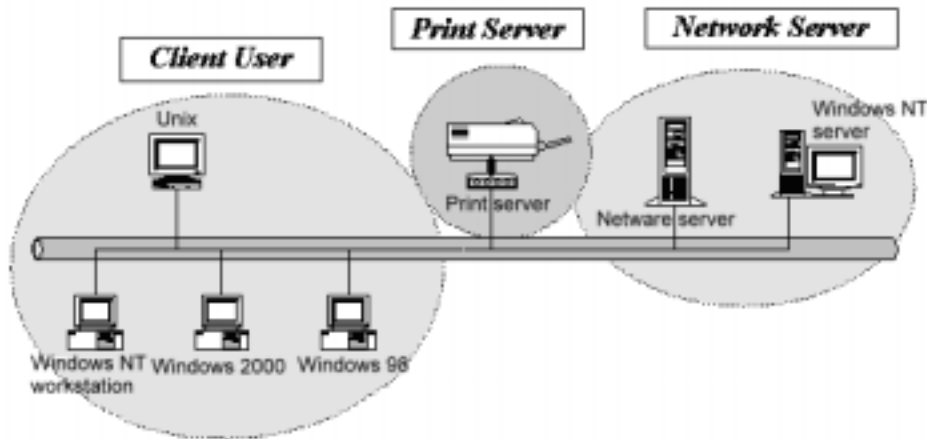
1.3 Network Printing Architecture

This section illustrates how FPS-1001 functions and operates on the network. Before you install and use FPS-1001, it is strongly suggested that you read this section completely, and select only the chapters you need according to your network operating system.

This section will first introduce the role every component plays in the network-printing environment.

- Print Server
- Client User
- Network Server (optional)

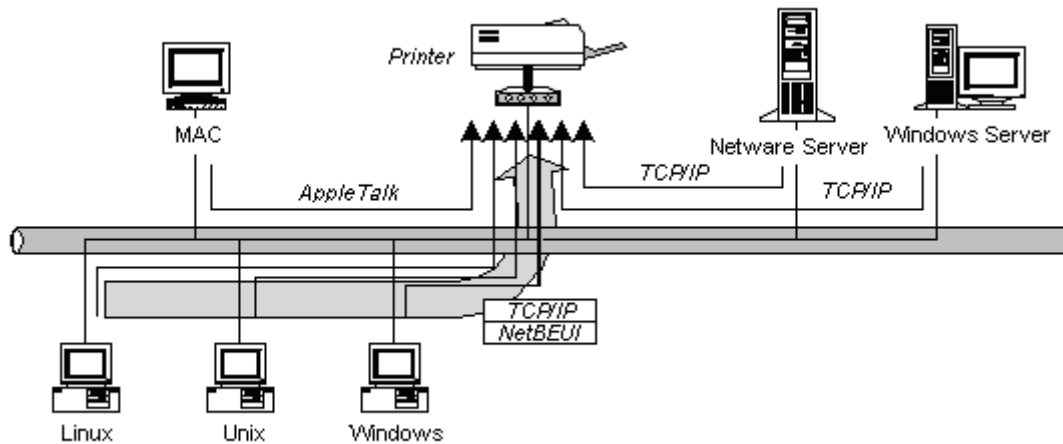
Network Printing Environment



Detailed examples will then be illustrated through actual network environment.

1.3.1 Print Server Network Functions

Because print server supports TCP/IP , NetBEUI and AppleTalk network protocols, any networked computer can directly print to the print server from any of its installed protocol.

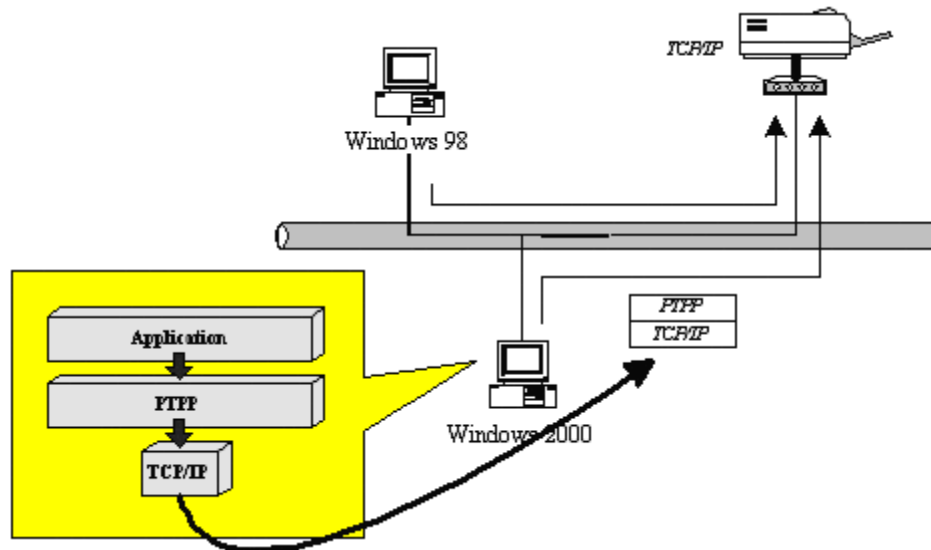


1.3.2 Network Printing Functions for Clients

Common operating systems for clients are classified as following:

- Windows 95/98/Me/NT/2000/XP/Server 2003

Our print server system provides PTPP (Peer-to-Peer Printing) utility for Windows users. PTPP (Peer-to-Peer Printing) supports TCP/IP protocol.



- UNIX / Linux
UNIX (include HP/UX, SCO Unix, SunOS, Solaris, Unixware DECUnix, IBM AIX and others) and Linux use the system-standard LPR to print to print server.
- MAC OS
MAC OS can use the system-standard AppleTalk or LPR network to print to print server.

1.3.3 Network Printing Functions for Network Server

Common network servers are classified as following:

- Windows NT/2000/XP and Server 2003
Our print server system provides PTPP (Peer-to-Peer Printing) utility for Windows NT/2000/XP and Server 2003. After run the PTPP utility, the server can directly print to print server. Adding this printing function into Windows Server allows print queue, user authority management, and many other advanced features.
- NetWare 5.x and above
In NetWare environment, print server offers various printing modes like print queue, remote printer, etc.

1.4 Printer Compatibility

For more and more printers are fit to low cost SOHO market. There are some new technologies apply to those host-base printers, such as GDI (Graphical Device Interface), PPA (Printing Performance Architecture) and CAPT (Canon Advanced Printing Technology). Those new technologies have to co-work with PC's CPU. Thus the printers cannot work with printserver. Please refer to the bundled CD-ROM for the GDI printers list.

Except for the printer with special technology, the low duty cycle printers are also not suitable to work with print server. This kind of printer is not design for network printing. They might work with print server at beginning. However, we cannot sure what would happen after long time operating.

1.5 Firmware & Printing Function

The print server provides a complete network printing solution. The feature set is listed below:

- PTPP (Peer-to-Peer-Printing)
- TCP/IP (LPR, SMB)
- IPP Printing
- Mail Printing
- NetWare Bindery Printing (TCP/IP)
- AppleTalk

Chapter2 Hardware Installation

1. Unpack the print server package and check all the items listed in section 1.2.
2. Connect the print server to the printer you want to share on the network directly.
3. Connect print server LAN port to a switch or hub.
4. Connect the power adapter to the print server.
5. The print server will perform Power-On-Self-Test (POST) after it is powered on. After few seconds, the LPT LED will blink three times to indicate that the print server is ready.

NOTE1: MUST use the power adapter shipped with the print server, do NOT use any other power adapter from any sources.

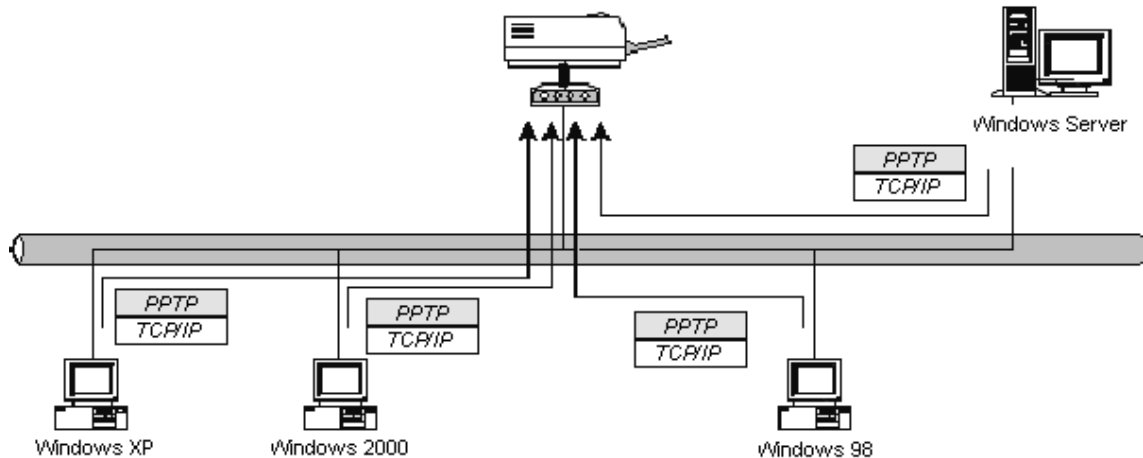
NOTE2: Please refer to section 1.4 to make sure your printer is suitable to work with print server.

NOTE3: To prevent the compatibility problem between print server and a few printer, it is recommended that you power on the print server before the printer.

Chapter3 Windows Peer-to-Peer Network

3.1 System Architecture

Print server supports Windows Peer-to-Peer network printing mode, which is suitable for most medium and small network environments. Through quick and simple installation procedure, users can immediately enjoy the convenience of network printing.



3.2 PS Wizard

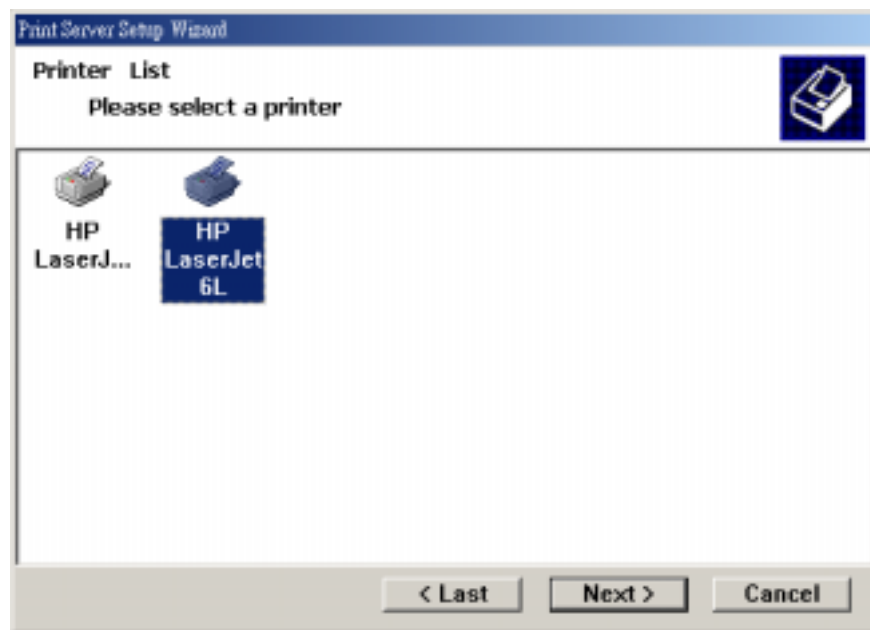
The wizard can be performed on Windows 95/98/Me/NT/2000/XP/Server2003. Before executing the wizard, please verify that your network protocol is installed on your PC (TCP/IP). It will be helpful in your installation process.

NOTE: For some specific printers, you may need to connect the printer to the computer and install the driver. Then connect the printer to print server.

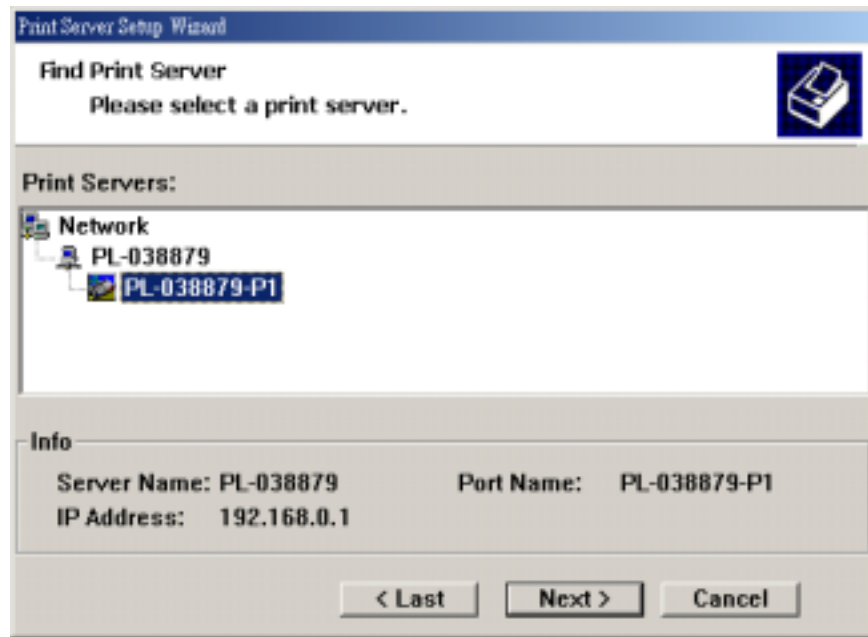
1. Insert Drivers and User's Manual CD into the CD-ROM drive to initiate the autorun program. Once completed, a menu screen will appear.
2. Click on "Print Server Installation" hyper link to initiate the installation. If the autorun program doesn't execute, you can click the "Start" button and choose "Run". (Suppose "E" is your CD-ROM drive). When the dialog box appears, enter "E:\Driver \Setup.exe" and press enter key. You will see the dialog box as below. Please click "**Next>**" to continue.



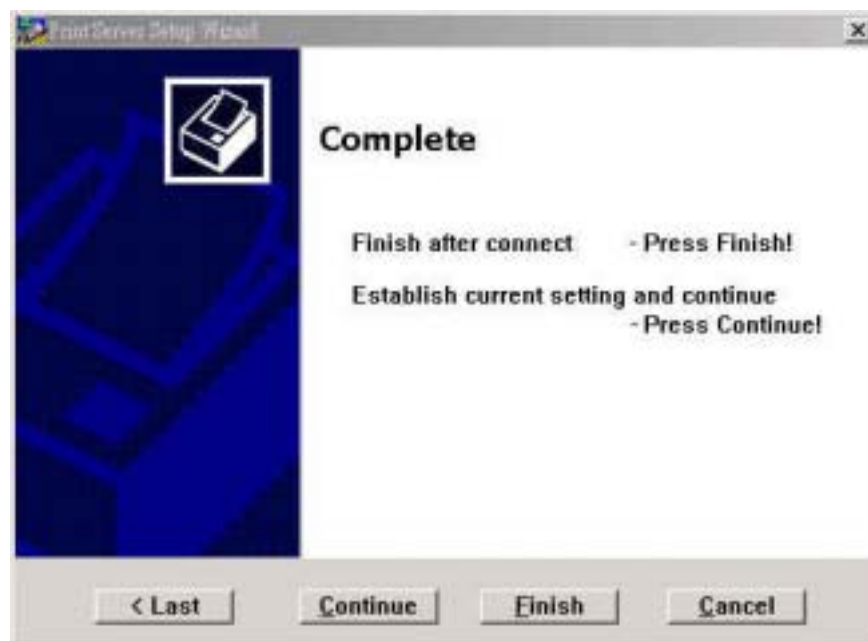
3. In the following screen, select the printer that FPS-1001 is connected in the Printer List. Then click "**Next >**".



4. Select Print Server port in the Print Server List, and click **"Next >"**.



5. The print server port is now added to your PC, press **"Finish"** to complete the installation. If there exists another FPS-1001, please press "Continue" to add other print server port.

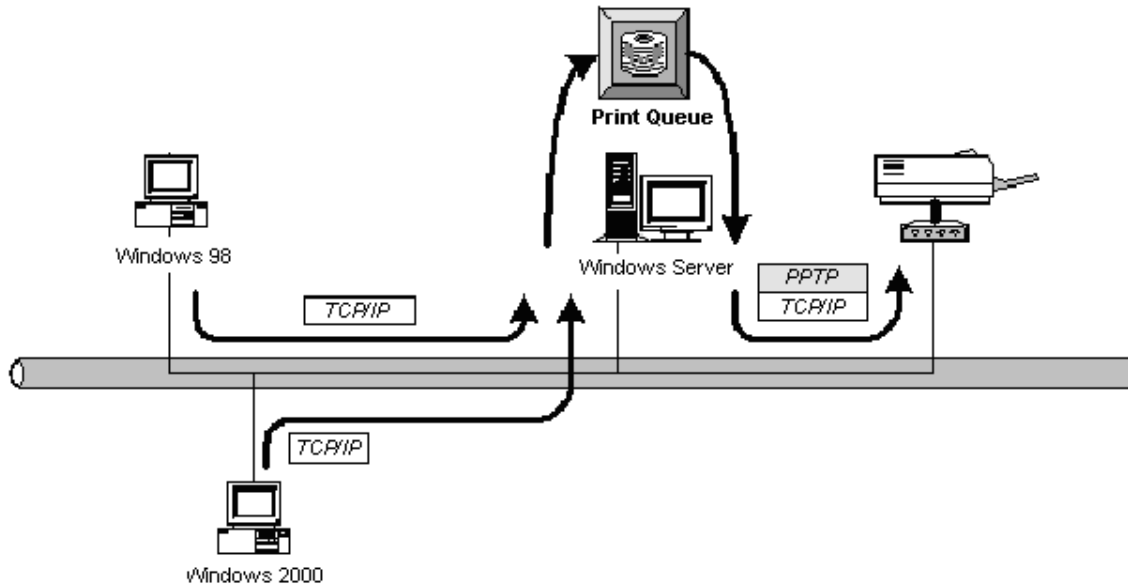


TIP: If you are use Windows 98/Me, the system may ask you to restart to complete the installation. Please press "Yes" to restart.

Chapter4 Windows Server Network

4.1 System Architecture

In Windows network environment, other than the Peer-to-Peer network printing architecture described in the previous chapter, we also offer the Server-Based Printing architecture for Windows Server. Only the Windows Server is required to have Windows PTP (Peer-to-Peer Printing) installed and share the printing service on the network. Other network users can simply connect to the server and access the shared printer. (see below)



4.2 Windows Server Installation and Setup

Please follow the procedures described below for installation and construct a peer-to-peer connection (PTPP) between Windows Server and Print Server.

Step1.

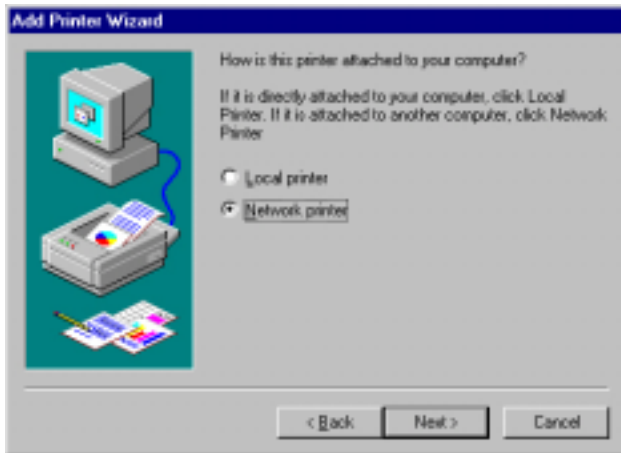
Please refer to section 3.2 to install print server to Windows Server.

Step2.

Share the server's printer to the network by performing the standard Windows printer sharing process.

4.3 User Installation and Setup

After completing the server installation is completed, network client should be able to find the server's shared printer in Network Neighborhood. You only need to perform Window's standard **Add New Printer** procedure, select "**Network Printer**" shown in the screen below, and complete the configurations afterwards to access the shared printer.



Chapter5 MAC OS Installation

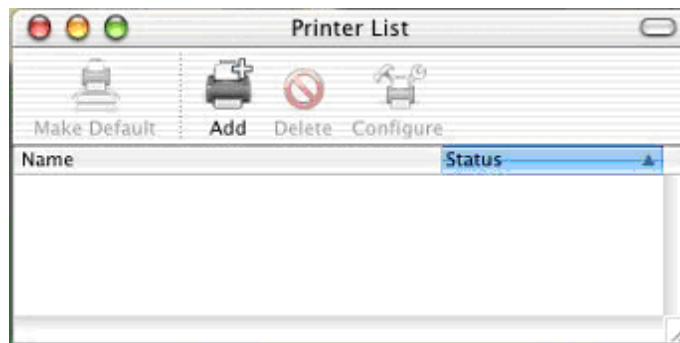
5.1 Rendezvous Uses in MAC OS 10.2

The latest version of MAC OS provides a new feature that is called **Rendezvous**. Rendezvous is a revolutionary networking technology standard that lets you create an instant network of computers and devices, which can be used throughout Mac OS 10.2 to provide innovative ways to share files and printers and even contact other people on the network.

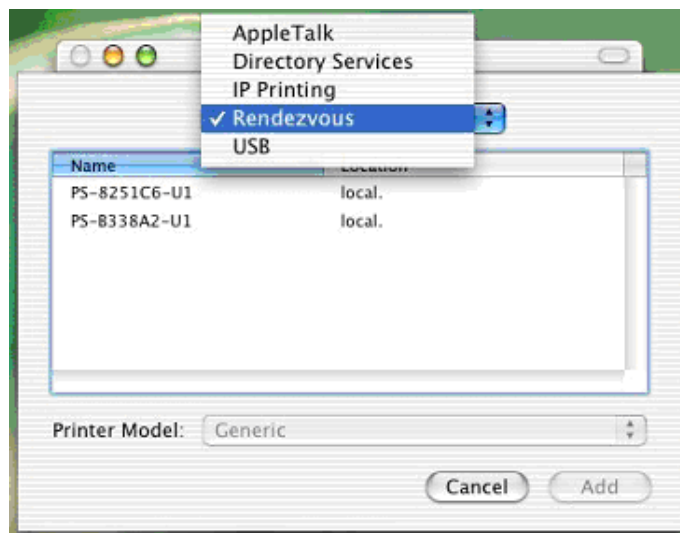
For the printer connection, the Mac OS 10.2 Print Center application uses Rendezvous to discover Rendezvous-enabled printers on the network. When you add your computer to a network, Print Center automatically discovers the available printers. All you have to do is selecting the one you want to use and then start printing. You can add a new printer to the network and all the users on the network will see the new printer automatically appear in their Print Center, without any configuration.

The following instructions provide a common procedure of installing the printer:

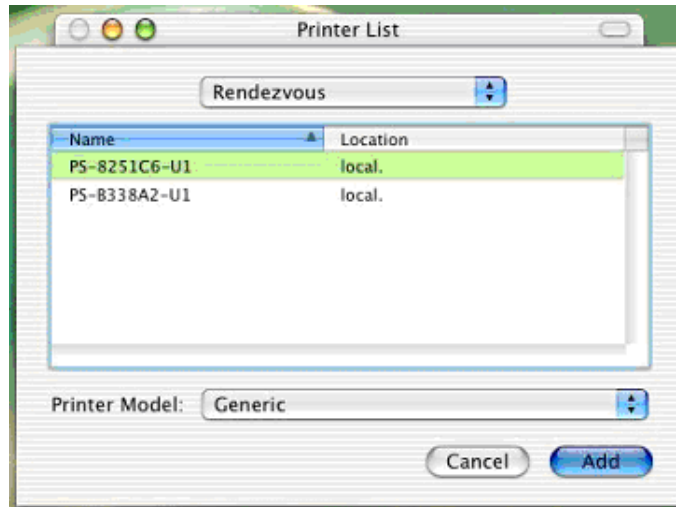
1. Launch Print Center. Press and hold the Option key, click the **Add** button.



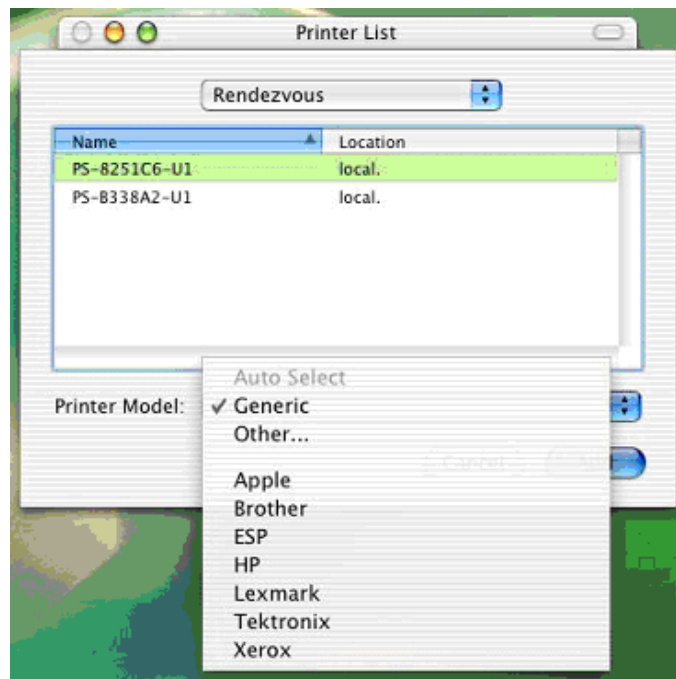
2. Select **Rendezvous** from the pop-up menu.



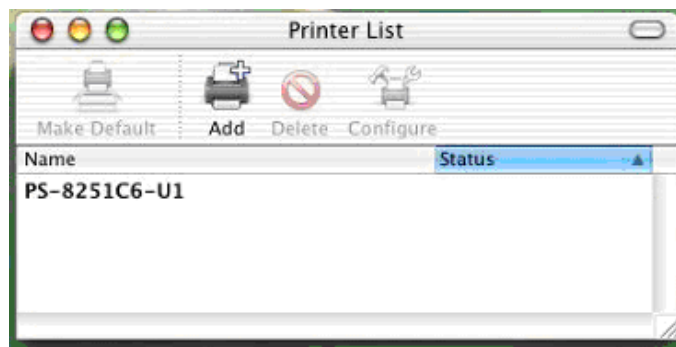
3. When clicking the **Rendezvous** item, the following window appears to display the connected Rendezvous-enabled printers.



4. Select the desired printer, and the following pop-up menu displays the printer's manufacturer. Select **Generic**.



5. The printer is installed into the system successfully.

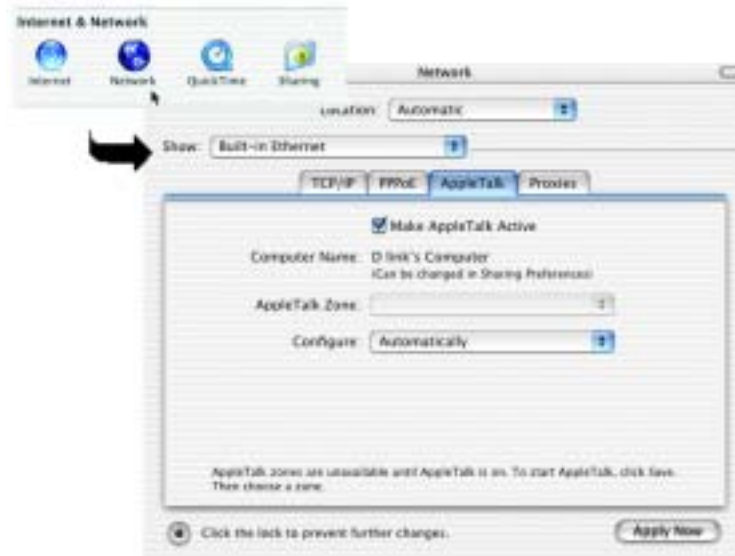


5.2 Setting Up Apple Talk/LPR Printing

5.2.1 MAC OS X

With MAC OS X, you can use AppleTalk or LPR printers to print through the print server. Follow the instructions below for setting up the print server:

1. After attaching the print server to your network, change the IP Address of your Macintosh computer to access the print server's web configuration. The default IP Address of the print server is **192.168.0.1**. Change your IP Address to **102.168.0.x**, where **x** is any number between 2 and 254.
2. Open the **System Preference** window and click **Network**. In the Network window, select the **AppleTalk** tab and check the **Make AppleTalk Active** option.



3. To print, open a document and select **File > Print** from the menu.



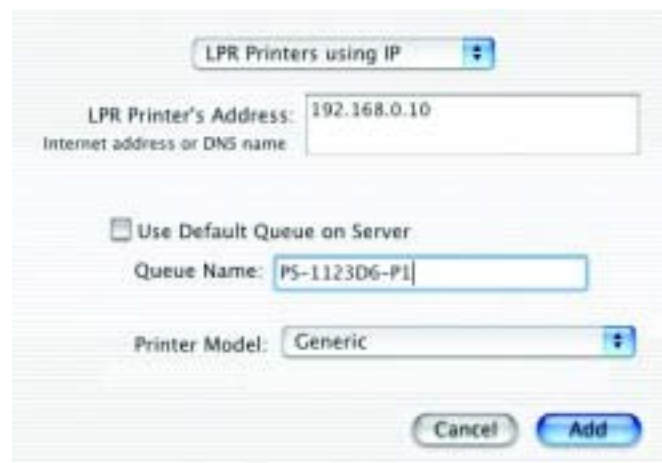
4. Select **Edit Printer List** from the **Printer** dialog box.



5. Click **Add Printer**. Then select the desired printing protocol (**AppleTalk** or **LPR Printers using IP**).



- **AppleTalk:** After selecting **AppleTalk**, the Port Name of the print server will be displayed. Select the Port to which the post-script printer is connected. Then, select the printer model from the dialog box. Click **Add Printer** to complete the Printer Port configuration. Select the Printer Port just configured in the Print window. Click **Print** to print your document.
- **LPR Printers using IP:** When you select **LPR Printers using IP Protocol**, type the IP Address of the print server into the **LPR Printer's Address** field of the following window. In the **Queue Name** field, type in the Port Name of the post-script printer that is connected to the Print Server. Select the printer model from the dialog box, and select the printer model from the pull-down menu. Click **Add** to complete the process. Close all Print Center windows and select the Printer Port that was just selected. Then, click **Print** to print the document.



5.2.2 MAC OS 9

If you use MAC OS 9, you can use the AppleTalk network protocol for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary low-speed LocalTalk transport. Your print server can be used for network printing to PostScript printers. You can print from any MAC OS computer connected to your Ethernet network, either directly using an EtherTalk connection or indirectly through a LocalTalk-to-EtherTalk router.

To set up the print server to be used for AppleTalk printing:

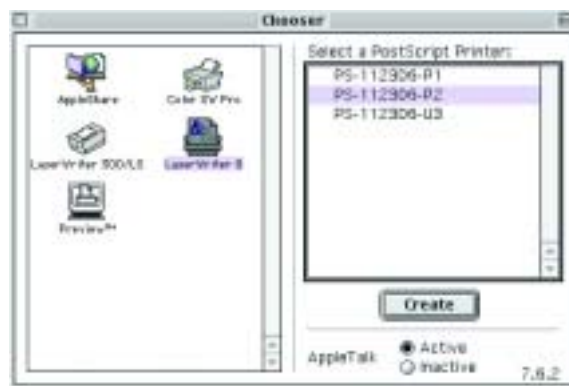
1. Please confirm that the AppleTalk protocol is enabled in your Macintosh computer.
2. Change the IP Address on one of the computers within your network to **192.168.0.x** (where **x** is any number between 2-254).
3. Type **192.168.0.1** (the default IP Address) into the address field of your browser.
4. Select the **Network** tab and scroll to the AppleTalk protocol section.

5. If your AppleTalk network is divided into AppleTalk zones, you have to specify which zone the Print Server should be in. You should locate the print server in the same zone as most of the users who will be using it. If your network is not divided into zones, it should contain a single asterisk "*".

To print from MAC OS Client Workstations:

The actual settings of selecting a PostScript printer connected to your print server may be different from the instructions provided in this section, depending on the devices and the software you are using.

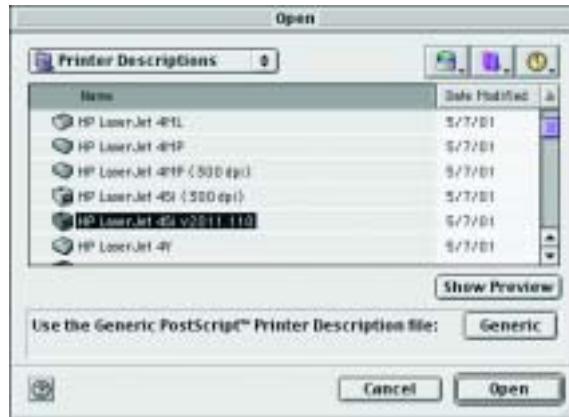
1. To choose a printer connected to your print server as your MAC OS workstation's default printer, select **Chooser** from the Apple menu.
2. In the left column of Chooser window, select the desired item. Please confirm that AppleTalk is set to *Active*. A list of all networked PostScript printers will be displayed within the right column.



3. Double-click the name of the **Printer Port** you wish to use. The **Printer Ports** shown are examples only.
4. If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD**.



5. Select the appropriate printer description file for your printer. Click **Open**. (If your printer is not listed, click **Generic** to use a generic printer description.)



The selected printer will become your computer's default printer. You may need to choose **Page Setup** in any applications you have open.

Chapter6 UNIX System Network

6.1 Introduction

The print server is available for TCP/IP printing by Unix LPD (Line Printer Daemon) protocol. The LPD protocol originated with Unix release is based on the BSD version of Unix and supported under most versions of Unix.

This chapter explains how to configure the print server for TCP/IP operation, and how to modify configuration files on your Unix system to allow printing to the print server. The configuration examples in this manual follow the syntax for BSD based Unix systems. Please refer to the related system documentation for the correct syntax of your systems.

To configure the print server for LPD printing, perform the procedures below:

1. Enable Print Server's TCP/IP Support.
2. Set up Print Server's IP address.
3. Verify Print Server's IP Address.
4. Configure remote LPD printing on the host.
5. Print a test page.

In the next sections, we will describe these five procedures step by step.

6.2 Enable Print Server's TCP/IP Support

The default configuration of the print server is with TCP/IP support enabled. Anyway, you can configure the print server to enable TCP/IP support using the configuration program or PSETUP program in our CD-ROM included with the Print server.

6.3 Setup Print Server's IP Address

The print server must have a unique IP address in order to be recognized by the network. You can set up the IP address on the various Unix systems using any one of the following methods:

1. DHCP (Dynamic Host Configuration Protocol)
2. BOOTP (Bootstrap Protocol)

The print server will use the last three methods to obtain its IP address automatically if its IP address is configured as Auto (0.0.0.0).

6.3.1 DHCP

There are many Unix systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. This manual does not describe the DHCP server configuration on the Unix systems. It is highly recommended that the DHCP server should be located on the same network as the print server.

6.3.2 BOOTP

If you have the BOOTP daemon, bootpd, running on your UNIX system that is accessible by the print server, you can use the BOOTP protocol to set up the IP address of the print server. We recommend that the BOOTP server should be located on the same subnet as the print server. If

you use Network Information Services (NIS) in your system, you may need to rebuild the NIS map with the BOOTP services before doing the following BOOTP configuration. To rebuild the NIS map, please refer to your system documentation.

To configure the IP address data for the BOOTP server, you will need to log in the host of BOOTP server as the superuser (root). Perform the following steps to add address entries.

1. Optionally, assign a name corresponding to the print server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

```
203.66.191.12      pserver
```

2. Add an entry to the host's /etc/bootptab file, similar to the following:

```
hostname:\

:ht=1:\

:ha=print_server_ethernet_address:\

:ip=print_server_ip_address:
```

Lines should be indented with tabs.

Where hostname is the device name of a print server, the ht=1 tag specifies the hardware type is Ethernet, the ha= tag specifies the Ethernet address of a print server, which is the Node ID located on the print server. The ha tag must be preceded by the ht tag. The ip= tag should correspond to the IP address you want to assign to the print server.

For example, a print server with the following configuration:

Node ID: 00304F010101 (this implies Ethernet

address is 0304F010101),

IP address: 203.66.191.12

The entry for this print server in the /etc/bootptab file should be:

```
PL010101:\

:ht=1:\

:ha=00304F010101:\

:ip=203.66.191.12:
```

6.4 Verify Print Server's IP Address

To verify that your print server is responding to the newly assigned IP address using a PING command:

```
ping ip-address
```

6.5 Configure Remote LPD Printing on the Host

The procedure you use to configure your Unix host(s) to allow printing to your network remote print server varies between different varieties of Unix. The procedure below can be used for Unix variants that are related to BSD Unix, such as SunOS or Linux. For other versions of Unix, consult your system documentation, keeping in mind that:

1. The print server should be treated as a BSD networked print server host.
2. The host name should be the name (or IP address) that you have assigned to the print server.
3. The printer name (or queue name) on the remote host should be lpt1, lpt2 or lpt3, the name of the printer port on the print server.

You will need to perform the tasks below, logged in as the superuser (root). To configure your Unix host for printing,

1. Optionally, assign a name corresponding to the print server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

```
203.66.191.186      pserver
```

2. Create a spool directory for the printer in the same directory where spool directories are normally kept on the machine, such as /var/spool or /var/spool/LPD:

```
mkdir /var/spool/LPD/pserverd
```

```
chown daemon /var/spool/LPD/pserverd
```

```
chgrp daemon /var/spool/LPD/pserverd
```

```
chmod 775 /var/spool/LPD/pserverd
```

3. Add an entry to the host's /etc/printcap file, similar to the following:

```
printer-name:\
```

```
:lp=:\
```

```
:rm=203.66.191.186:\
```

```
:rp=lpt1:\
```

```
:lf=/var/spool/LPD/pserverd.log:\
```

```
:sd=/var/spool/LPD/pserverd:\
```

```
:mx#0:
```

Lines should be indented with tabs. More than one printer name can be used, with variants separated by vertical bars (name1|name2).

The `rm=` entry should correspond to the IP address you have assigned to the print server. You can also use a host name if you have assigned one in the `/etc/hosts` file.

The `sd=` entry should correspond to the spool directory you created in the previous step.

The `rp=` entry should correspond to the port name of the remote printer. The values should be `lpt1`.

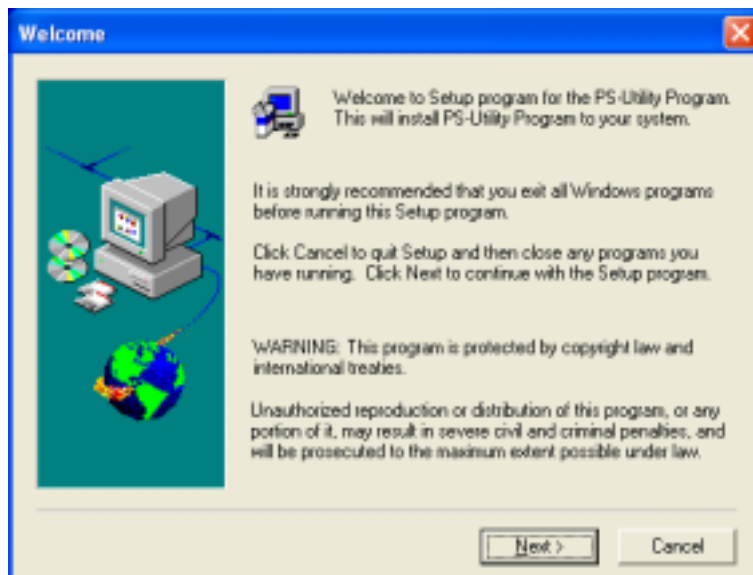
The print server should now be available for printing from your Unix host.

Chapter7 PS Utility

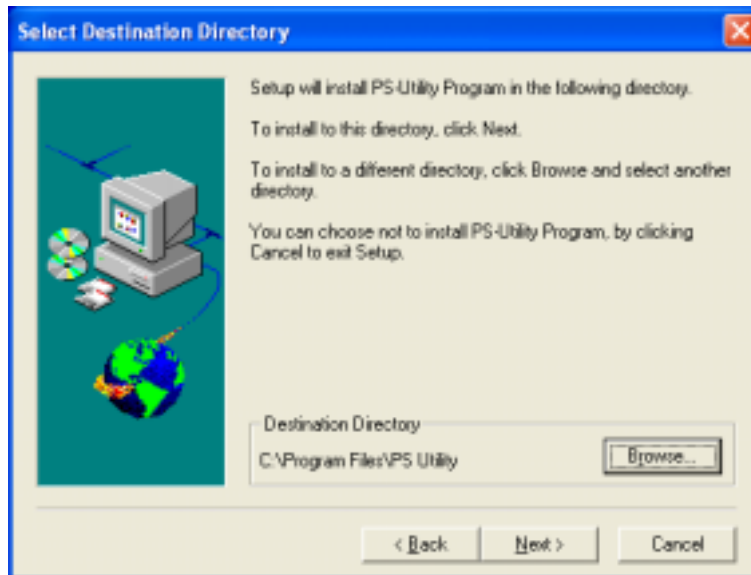
This utility provides the full management and configuration functions on the print server side. This utility only provides configuration functions for print server itself; it does not include configuration functions for client side or other file server or NetWare server in the network environment.

7.1 Installation

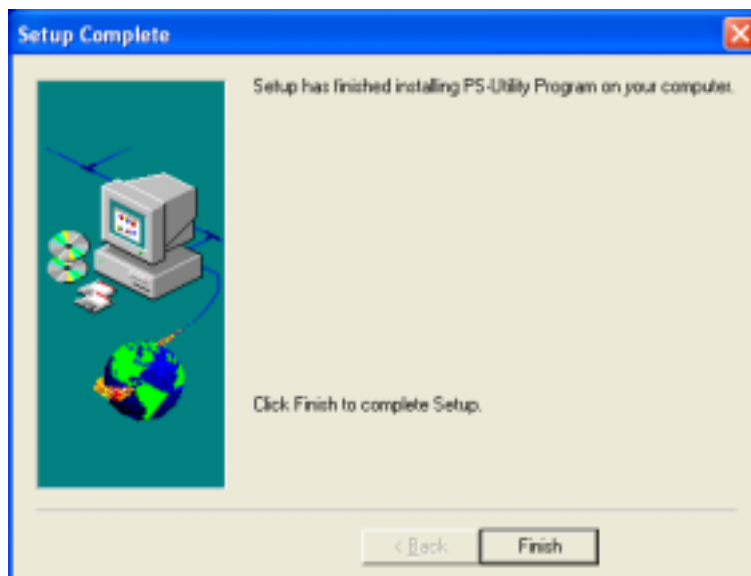
1. Insert Drivers and User's Manual CD into the CD-ROM drive to initiate the autorun program. Once completed, a menu screen will appear.
2. Click on "Install PS Utility" hyper link to initiate the installation. If the autorun program doesn't execute, you can click the "Start" button and choose "Run". (Suppose "E" is your CD-ROM drive). When the dialog box appears, enter "E:\Utility\Setup.exe" and press enter key. You will see the dialog box as below. Please click "**Next>**" to continue. Once executed, the setup program will extract files to launch the InstallShield Wizard. Click "**Next >**" in the welcome screen of InstallShield Wizard.



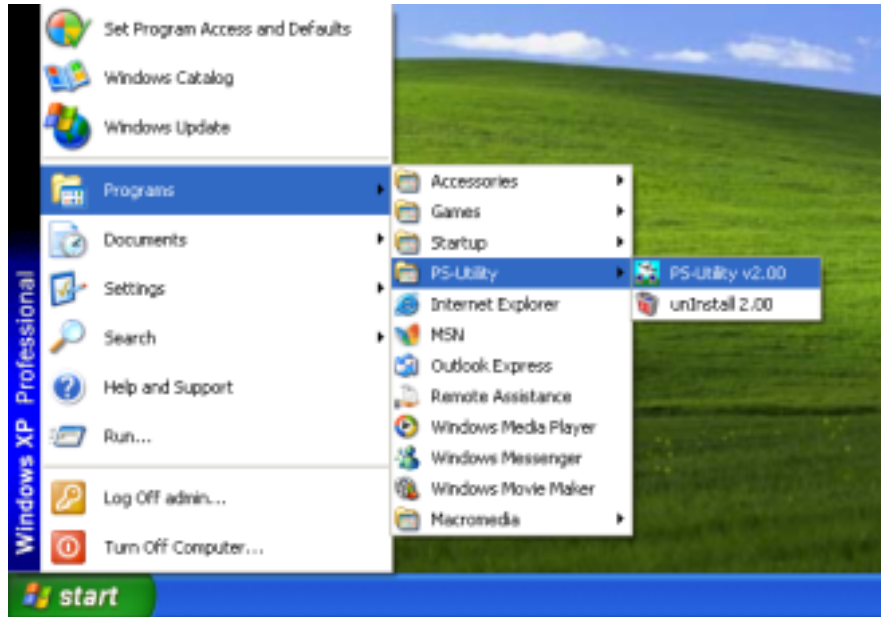
3. Choose the destination location. If no specific requirement, leave the default setting and click **"Next >"**.



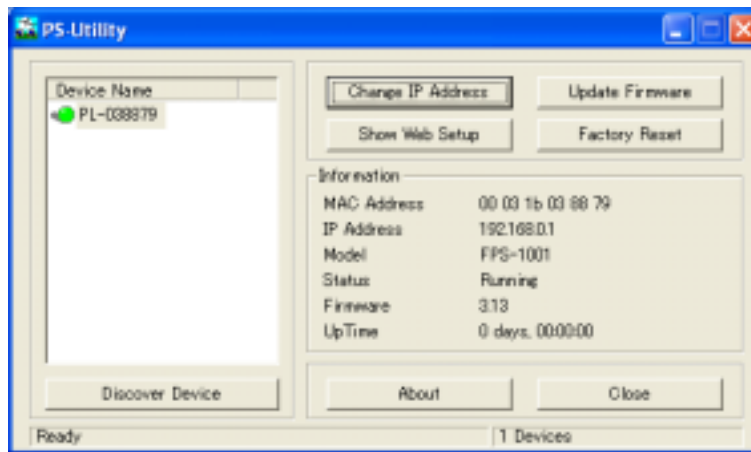
4. The InstallShield Wizard starts to install the software, and the Progress bar indicates the installation is proceeding.
5. When completed, click **"Finish"**.



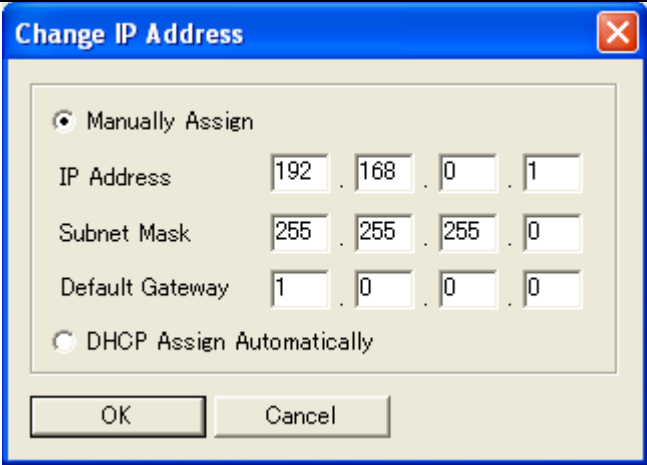
7.2 PS Utility Configuration



After successfully installing the utility, you can find the application program by clicking **Start menu > Programs > PS-Utility**. Executing this utility, you can see the configuration screen below.



Option	Description
Discover Device	When PS Utility starts, it will search all the print server in your network and show them in the list above. If you don't see your print server in the list , click this button to search again.
Change IP Address	The default IP address of FPS-1001 is 192.168.0.1. If you want to change the IP address, please click this button. You will see a dialog box appears. Enter the IP settings in this dialog box and press “OK” to save the settings. If there is a DHCP Server in your network, you may select “DHCP Assign Automatically” to obtain an IP address from the DHCP Server.

	 <p>The image shows a 'Change IP Address' dialog box. It has a blue title bar with a close button. Inside, there are two radio buttons: 'Manually Assign' (selected) and 'DHCP Assign Automatically'. Below the radio buttons are three rows of input fields: 'IP Address' with values 192, 168, 0, 1; 'Subnet Mask' with values 255, 255, 255, 0; and 'Default Gateway' with values 1, 0, 0, 0. At the bottom are 'OK' and 'Cancel' buttons.</p>
Update Firmware	PS Utility allows user to upgrade print server with latest firmware. After download firmware from PLANET web site, please press this button and locate the firmware which saved in your PC to upgrade.
Show Web Setup	Click on this button, the web browser will be activated and connect to the built-in web interface of FPS-1001.
Factory Reset	If you want to reset this print server to factory default, please press this button and wait for few seconds.
Information	Shows current print server settings.
About	Shows PS Utility version.
Close	Exits PS Utility.

Chapter8 Web Management

You can access and manage the Print Server through: 1) the enclosed software PS-Utility, and 2) a web browser. This chapter describes the second method - the Web Configuration, and explains how to set up your print server with the web browser.

First, launch your web browser (such as the Internet Explorer 6.0 used in this manual). Then, type print server default IP address (http://192.168.0.1) in the address field and press [Enter] to enter the Web Management screen.

8.1 Management

8.1.1 System

As shown below, the **System** displays the status of your print server. Clicking **Refresh** will update the showing information.

The screenshot displays the PLANET Print Server Web Management interface. The top navigation bar includes links for Management, Configuration, Tools, and Help. The left sidebar shows a tree view with 'System' selected. The main content area is divided into three sections: Device Status, Printer Status, and Ethernet Status. A 'Refresh' button is located at the bottom left of the main content area.

Device Status	
Server Name	PL-038879
Model	FPS-1001
Firmware Version	3.13 (2004-11-08)
MAC Address	08 02 1B 03 88 79
IP Address	192.168.0.1 (Manual)
Up Time	0 days, 00:42:38

Printer Status	
LPT	Printer Name : PL-038879-P1
	Printer Speed : High
	Printer Status : Off line
	Total Print Jobs : 0
	Total Print Size : 0 KBytes
	Printing Status : Idle
	Name :
	MAC :
	IP :
	Protocol :
	Spooling Size : 0 Bytes
	Printing Size : 0 Bytes

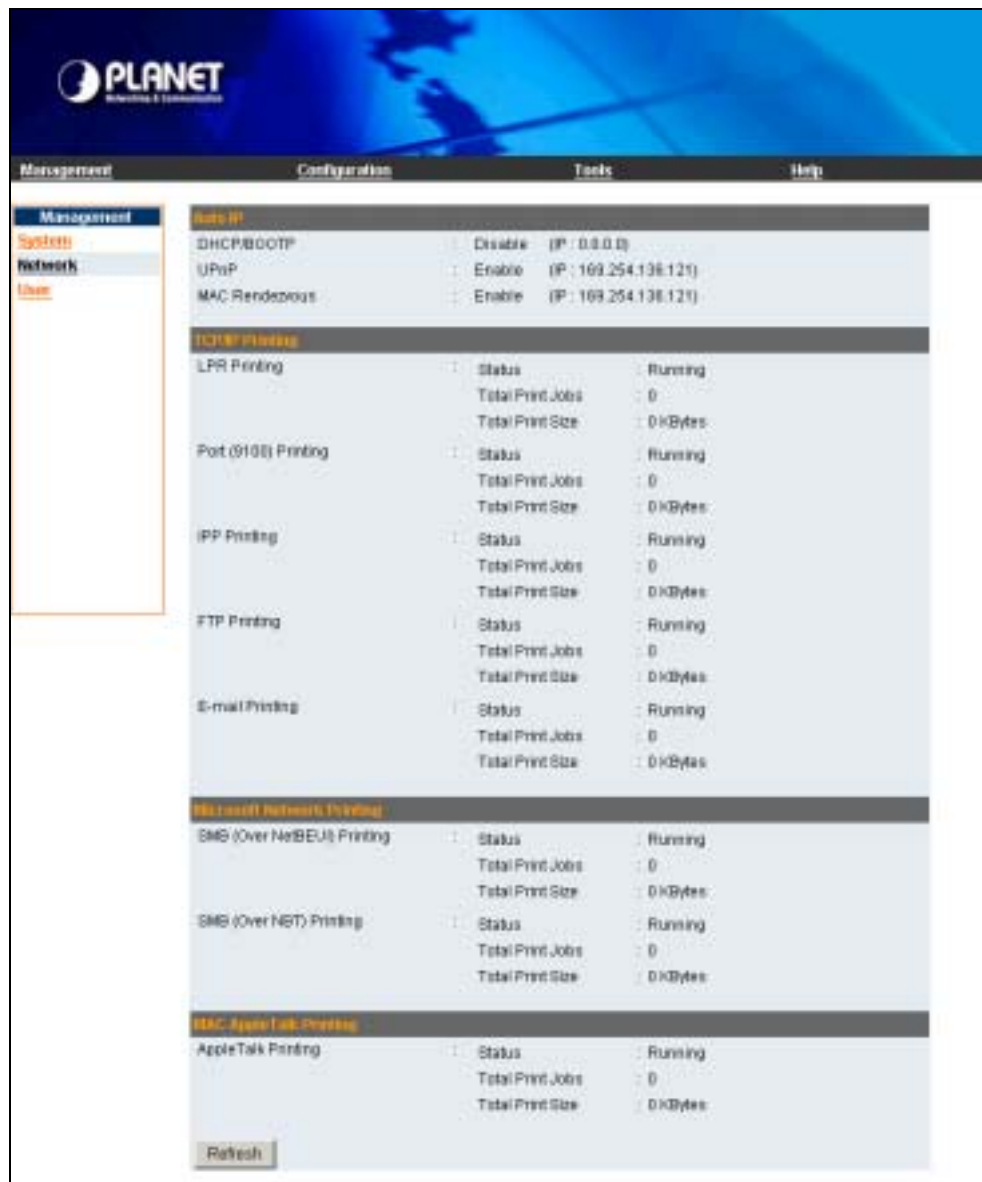
Ethernet Status	
Link	Yes
Speed	100Mbps
Full Duplex	Yes
Tx Packets	826
Tx Errors	0
Rx Packets	385
Rx Errors	0

Refresh

Option	Description
Device Status	The information about the print server, including the server name, model name, firmware version, MAC address, IP address and Up time, that can be found in this field.
Printer Status	The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.
Ethernet Status	You can monitor the networking status in this field, including the network connection, speed, and the packets status.

8.1.2 Network

Click **Network** to display the information of the LAN. Clicking **Refresh** will update the information.



The screenshot displays the PLANET Network & Communications Management interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The left sidebar shows 'Management' with sub-items 'System', 'Network', and 'User'. The main content area is titled 'Network' and contains several sections:

- Basic IP**: A table showing DHCPBOOTP (Disable, IP: 0.0.0.0), UPnP (Enable, IP: 169.254.138.121), and MAC Rendezvous (Enable, IP: 169.254.138.121).
- ICMP Ping**: A table showing LPR Printing, Port (9100) Printing, IPP Printing, and FTP Printing, each with Status (Running), Total Print Jobs (0), and Total Print Size (0 KBytes).
- SMB (Over NetBEUI) Printing**: A table showing SMB (Over NetBEUI) Printing and SMB (Over NET) Printing, each with Status (Running), Total Print Jobs (0), and Total Print Size (0 KBytes).
- MAC AppleTalk Printing**: A table showing AppleTalk Printing with Status (Running), Total Print Jobs (0), and Total Print Size (0 KBytes).

A 'Refresh' button is located at the bottom of the main content area.

Option	Description
Auto IP	This field contains the current settings of TCP/IP, including DHCP/BOOTP, UPnP, and MAC Rendezvous. The items in this field are configured in Configuration > Network > TCP/IP .
TCP/IP Printing	In this field, you can monitor the status of TCP/IP printing tasks.
Microsoft Network Printing	In this field, you can monitor the status of Microsoft Network printing tasks.
MAC AppleTalk Printing	In this field, you can monitor the status of MAC AppleTalk printing tasks.

8.1.3 User

Click the **User** item in the left column to display the user(s) information.



Option	Description
Users Printing Log	The items in this field will display the user(s) information, which includes the user(s) MAC address, IP address, name, and status of printing tasks.

8.2 Configuration

8.2.1 System

In this option, you can configure the basic information of your print server.

The screenshot shows the PLANET print server configuration web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The left sidebar is under 'Configuration' and lists 'System', 'Network', 'User', 'E-mail', and 'SNMP'. The main content area is titled 'System Device' and contains the following fields:

- Server Name:** PL-036879
- Location:** (empty text box)
- Admin Contact:** (empty text box)
- Password:** Includes 'New Password' and 'Confirm Again' sub-fields, both empty.
- Port Setting:**
 - LPT:** (checked)
 - Port Name:** PL-036879-P1
 - Description:** (empty text box)
 - Speed:** High (dropdown menu)
 - P.J.L Printer:** No (dropdown menu)

At the bottom of the form are 'Save' and 'Cancel' buttons.

Parameters	Description
Server Name	Assign a name to the print server.
Location (option)	Assign a location for the print server.
Admin Contact (option)	Assign the Admin Contact's name for the print server.
Password	Enter the Administrator password (3-8 characters). To set up the password, please enter the password in the <i>New Password</i> box, and then enter the same one again in the <i>Confirm Again</i> box.
Port Name	You can assign the <i>Port Name</i> for the print server.
Description (optional)	Configure the description for the LPT port.
Speed	This print server is DMA mode supported. Some printers are not support DMA mode. If the printer is an old model printer or your printer can not work with print server properly, you may select " Low " to disable DMA mode. Default is " High ".
PJL Printer	PJL (Print Job Language) has certain job requirements that must be met to work correctly. For more information, please refer to your printer's manual.

8.2.2 Network

In this option, you can configure print server settings to fit to your network.

The screenshot shows the PLANET Network Configuration web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The left sidebar has a 'Configuration' menu with sub-items: 'System', 'Network', 'User', 'Email', and 'SNMP'. The main content area is titled 'Configuration' and contains several sections: 'TCP/IP' with options for 'IP Address' (Manually Assign with fields for IP Address: 192.168.0.1, Subnet Mask: 255.255.255.0, Default Gateway: 1.0.0.0; or Automatically Assign), 'DNS Server Address' (two fields for 1. and 2. addresses), 'UPnP' (Enable/Disable), 'MAC Rendezvous' (Enable/Disable), 'Second HTTP Port' (Enable/Disable with a Port Number field), 'Microsoft Network' (Workgroup: WORKGROUP), and 'AppleTalk' (AppleTalk Zone, LPT: Chooser Name: PB-038879-JP1, Printer Type: LaserWriter, PostScript Level: Level 2, Font Group: Standard 35). At the bottom are 'Save' and 'Cancel' buttons.

Parameters	Description
IP Address	If you need the print server to automatically obtain an IP address from LAN DHCP server, select "Automatically Assign". Or you can select "Manually Assign" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the print server.
DNS Server Address	Type up to two DNS numbers in the fields. Please check to your ISP with this DNS information.
UPnP	This option allows you to enable or disable UPnP mode.
MAC Rendezvous	This option allows you to enable or disable MAC Rendezvous mode.
Second HTTP Server	It is for remote web configuration and IPP printing. If this print server has a public IP address, you may enable this setting and set a port number for Internet access.
Workgroup	Enter the name of the Workgroup that you want the print server associated with in this field.
AppleTalk Zone	This determines which Apple systems can gain access to this printer.

Printer Type	These are text fields, used to describe the printer driver used for each port. The Print Server is designed to work with LaserWriter (or 100% compatible) printers.
PostScript Level	Select from the pull-down menu (Level 1 or Level 2).
Font Group	Select the correct font group of your operating environment from the pull-down menu.

8.2.3 User

In this option, you can set a list to control the client access of this print server.

The screenshot displays the PLANET Print Server Configuration web interface. The top navigation bar includes 'Management', 'Configuration', 'Tools', and 'Help'. The left sidebar shows a tree view with 'Configuration' selected, containing sub-items: 'System', 'Network', 'User', 'Email', and 'SNMP'. The main content area is titled 'Printing Control' and contains two sections: 'Printing Control' and 'Define Users'. The 'Printing Control' section has two radio button options: 'Enable User Printing Control' (set to 'No') and 'Allow Undefined Users Printing' (set to 'No'). Below these are 'Save' and 'Cancel' buttons. The 'Define Users' section includes an 'Add User' form with fields for 'User Name', 'MAC Address', and 'Printing Access' (radio buttons for 'Yes' and 'No'). There is also a 'Delete User' section with a pull-down menu and a 'Delete' button. At the bottom, a 'User List' table shows columns for 'Name', 'MAC', and 'Printing Access'.

Parameters	Description
Enable User Printing Control	Enable the user printing control function by Yes or No . Please press Save button to apply.
Allow Undefined Users Printing	For the user(s) who is not in the User List, you can also limit the access right by setting the Allow Undefined Users Printing option to Yes or No . Please press Save button to apply.
Add User	Please enter the User Name and his MAC Address, Then define the user is printing access allow or not. Press Add button to add this user to User List.
Delete User	Please select the user in Delete User pull-down list. Press Delete button to delete this user.

8.2.4 E-mail

Parameters	Description
Print Server E-mail Address	You can assign an E-mail address to the print server, so that the mails which send to this account will be printed out directly through the printer (ASCII text only).
Incoming E-mail (POP3) Server Address	Enter the IP Address of E-mail Server which FPS-1001 will receive E-mail from this server.
Outgoing E-mail (SMTP) Server Address	Enter the IP Address of E-mail Server which FPS-1001 will used to send E-mail to network administrator.
Account Name	The name of the E-mail account used by the print server.
Password	Enter the password for the above E-mail account here.
E-mail Notification	You can set the print server to send an alert message when the printer status changes through E-mail. To enable this function, set the Enable e-mail notification for printer status changing option to Yes . Then, input the administrator's E-mail address in the Admin E-mail Address box.
Email Printing	E-mail Printing (ASCII Text Only): Select Enable to enable the E-mail printing function. Receive E-mail Interval: Enter the number in this box to set up the time that print server will check/receive E-mail regularly.

8.2.5 SNMP

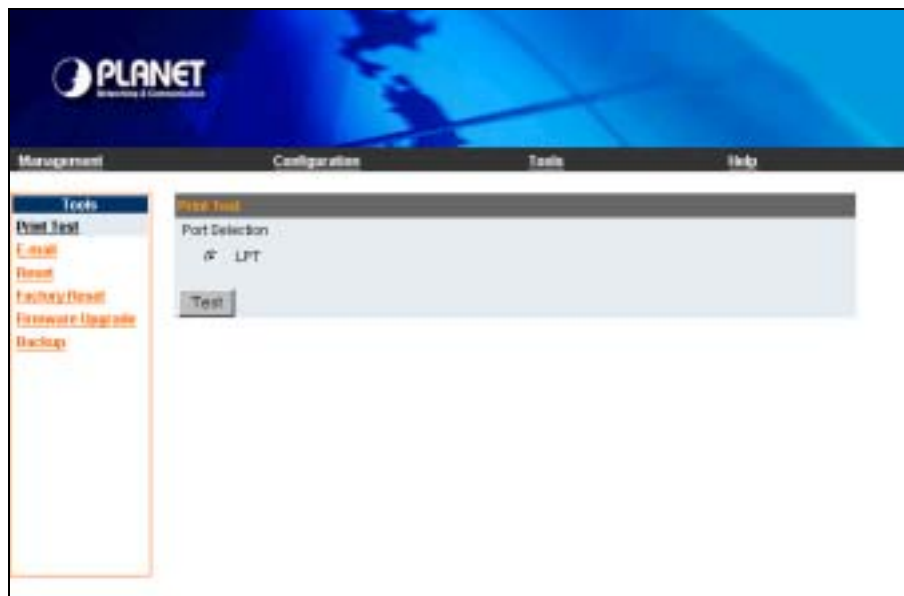
SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks. You can configure the SNMP settings of this screen for the remote SNMP utility login.



Parameters	Description
Community1-3	Enter a name in the Name box, and configure the Access Right by selecting Read Only or Read/Write from the pull-down menu. Please press Save to apply.

8.3 Tools

8.3.1 Print Test



Please press **Test** to print a test page to make sure the printer and print server can co-work properly.

8.3.2 E-mail



You may click **Test** to send a test E-mail to the administrator's E-mail address. Or click **Yes** to receive mail from print server mail box and print out immediately.

8.3.3 Reset



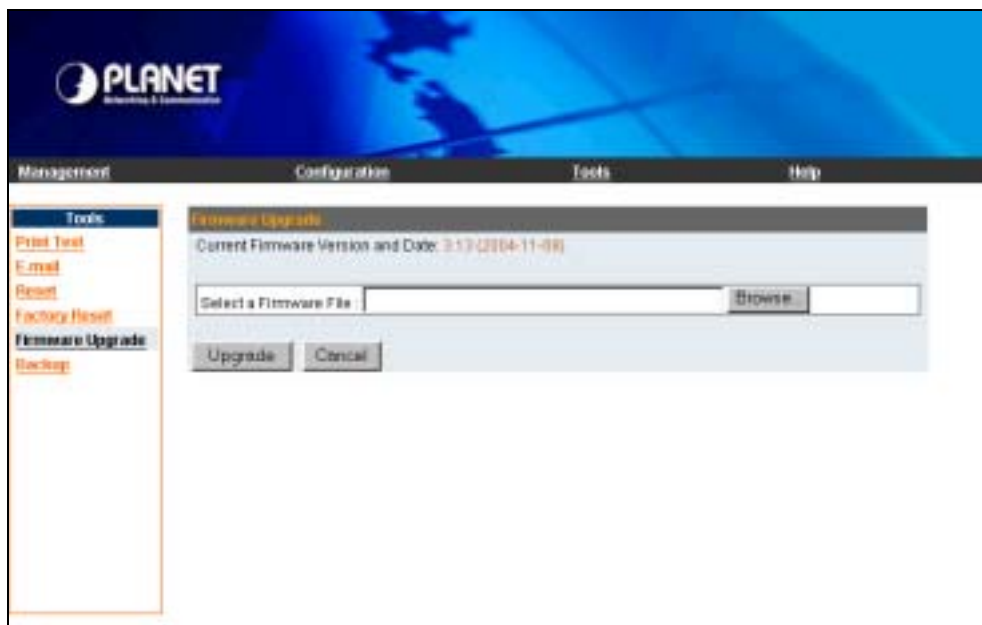
Click **Yes** to immediately reset the print server.

8.3.4 Factory Reset



Click **Yes** to reset print server to the factory default.

8.3.5 Firmware Upgrade



When the new firmware is available (downloading from the PLANET website), you can upgrade the firmware to your print server. Click **Browse** to find out firmware location, and then click **Upgrade**.

8.3.6 Backup



In this screen, you can backup current settings to a file or reload the settings to this print server from a file. Please click **Backup** and follow the steps to save current configuration of the print server to a file. When you want to reload the configuration that you had saved before, please click **Browse** to locate the backup config file, and click **Restore**.

8.4 Help

This screen shows the current firmware version.



Chapter9 IPP Printing

9.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The print server can support IPP printing by default. It is needless to do any setting. Any PC that can support IPP printing, for example Windows 2000/XP and Server 2003, can directly uses the print server by IP. By using the IPP printing, you can share the printer to all the PC's that can access the print server by IP. You can even share your printer to Internet users. Before use IPP printing, please make sure your PC and print server are work with public IP address. If one of them is work with private IP address, the connection will fail since they can not connect to Internet.

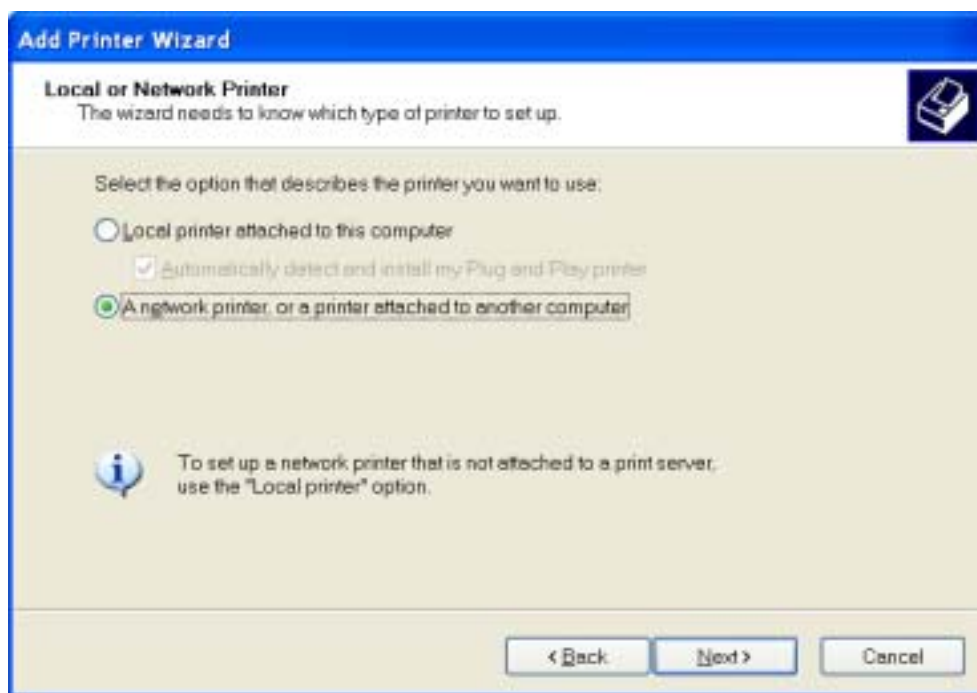
9.2 System Setup

9.2.1 Print Server

It is needless to do any setting on the print server except making sure the print server has correct IP settings. If you want to share the printers to Internet users, you have to set a public IP to the print server. You also have to make sure that any gateway, router or firewall would not block IPP protocol if you have these gateway devices installed in your network.

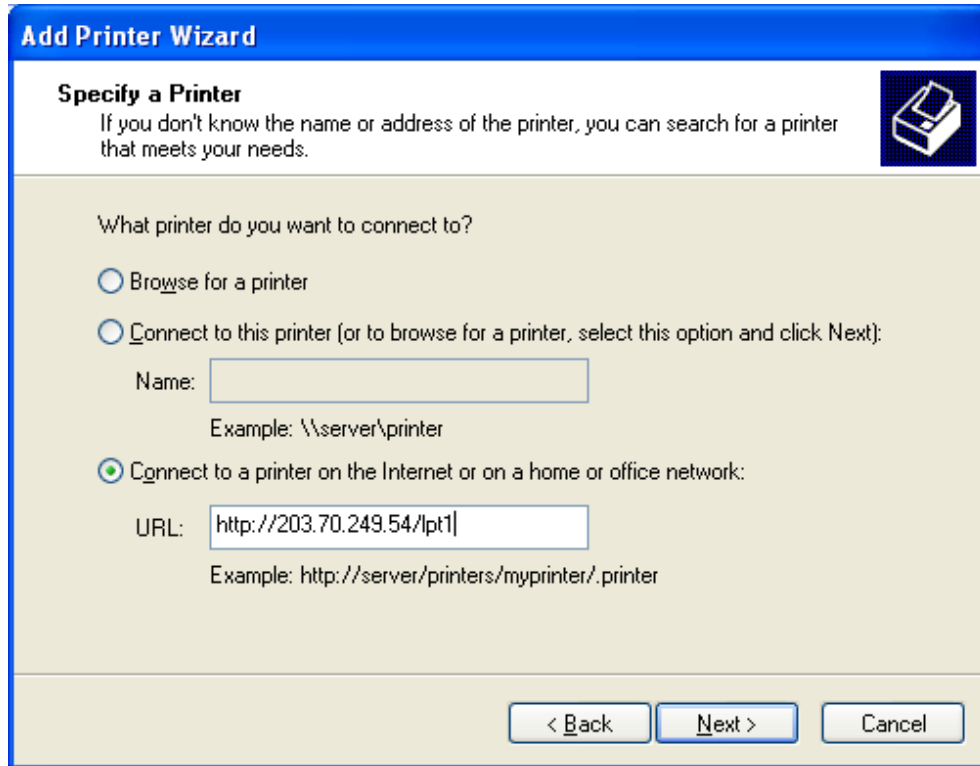
9.2.2 Client

You only need to perform Window's standard **Add New Printer** procedure, select "**Network Printer**" shown in the screen below and click "**Next >**".



Select "Connect to a printer on the Internet or on a home or office network" and enter the URL of print server. The URL format is "http://IP/LPT_PORT:631". The IP should be the print server's IP. LPT_PORT is the port name of print server that your printer is connected to. In the illustration, the

port name is "lpt1". The last number 631 is IPP standard port number. One example of the URL is "http://203.70.249.54/lpt1:631". After entering the URL of print server, click "**Next >**" and complete the configurations afterwards to access the shared printer.



The image shows a Windows XP-style "Add Printer Wizard" dialog box. The title bar is blue with the text "Add Printer Wizard". The main area has a light beige background. At the top left, the section is titled "Specify a Printer" in bold. Below this, a message states: "If you don't know the name or address of the printer, you can search for a printer that meets your needs." To the right of this text is a small icon of a printer. The main content area asks "What printer do you want to connect to?" and provides three radio button options. The first option is "Browse for a printer". The second option is "Connect to this printer (or to browse for a printer, select this option and click Next):", followed by a text box labeled "Name:" and an example "\\server\printer". The third option is selected, indicated by a green dot: "Connect to a printer on the Internet or on a home or office network:", followed by a text box labeled "URL:" containing the text "http://203.70.249.54/lpt1|" and an example "http://server/printers/myprinter/.printer". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Add Printer Wizard

Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.

What printer do you want to connect to?

☐ Browse for a printer

☐ Connect to this printer (or to browse for a printer, select this option and click Next):

Name:

Example: \\server\printer

☒ Connect to a printer on the Internet or on a home or office network:

URL:

Example: http://server/printers/myprinter/.printer

< Back Next > Cancel