

Multi-Port Fast Ethernet Print Server

FPS-3120

User's Manual

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Revision

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Chapter1 Introduction

1.1 Product Introduction

Thank you for purchasing and using our FPS-3120. This print server allows your printer to become a shared device on the network. It offers printing flexibility and manageability on your Local Area Network at an extremely low cost and with an absolute minimum setup and maintenance required.

This print server provides a LAN port (10/100Mbps Ethernet), two USB ports and one parallel port for printers.

This print server supports TCP/IP, IPX/SPX and AppleTalk protocols. It is the best network printing solutions for various common network operating systems such as Windows 95/98/Me Peer-to-Peer Printing, Windows NT/2000/XP/Server 2003, NetWare, Unix/Linux, MAC OS, etc.

With the help of Installation Wizard, you can easily and instantly complete the settings for your printing environment, and start enjoying the fantastic features provided by this print server.

In the following chapters, we will introduce in detail the printing features, installation methods, and system configuration for different network environments.

1.2 Product Package

This package contains the following components:

1 x FPS-3120

- 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-3120 functions and operates on the network. Before you install and use FPS-3120, it is strongly suggested that you read this section completely, and select only the chapters you need according to your network operating system by "Contents of the User's Manual" in next section.

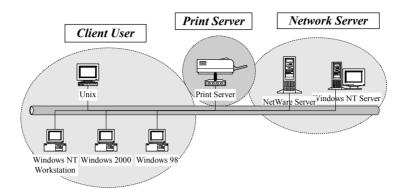
This section will first introduce the role every component plays in the network-printing environment.

Print Server

Client User

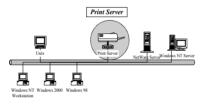
Network Server (optional)

Network Printing Environment

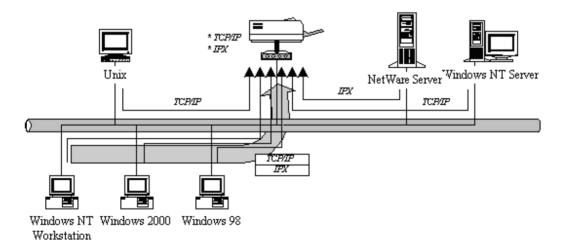


Detailed examples will then be illustrated through actual network environment.

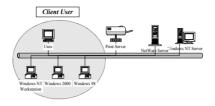
1.3.1 Print Server Network Functions



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



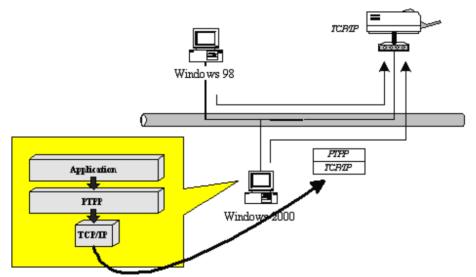
1.3.2 Network Printing Functions for Clients



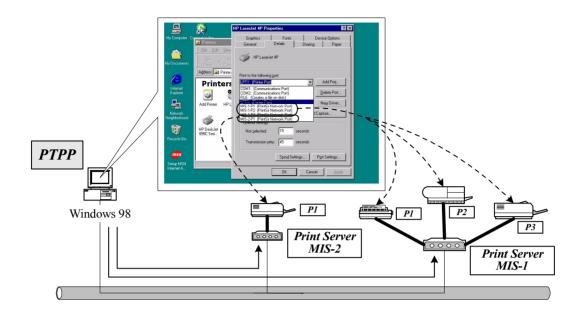
Common operating systems for clients are classified as following:

Windows 95/98/Me/NT/2000/XP

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows 95/98/NT/2000/XP users. PTPP (Peer-to-Peer Printing) supports TCP/IP protocol.



In the client installation procedure, after PTPP (Peer-to-Peer Printing Driver) is installed into Windows, the system will automatically (manual configuration is also allowed) search through all the print servers on the network, and then add their printing ports into Windows' printing port. (See below)



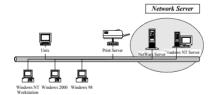
UNIX / Linux

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 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

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows NT/2000. After PTPP is installed, the server can directly print to print server. Adding this printing function into Windows NT/2000 Server allows print queue, user authority management, and many other advanced features.

NetWare 3.x/4.x/5.x

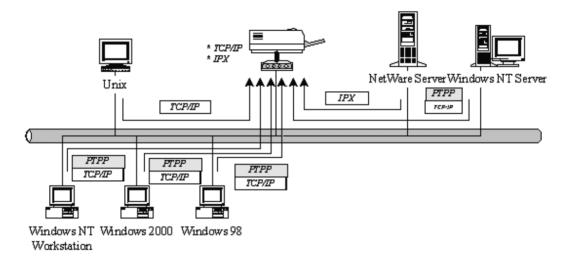
In NetWare environment, print server offers various printing modes like print queue, remote printer, etc.

1.4 Network Printing Environment

Common network environment are classified as following:

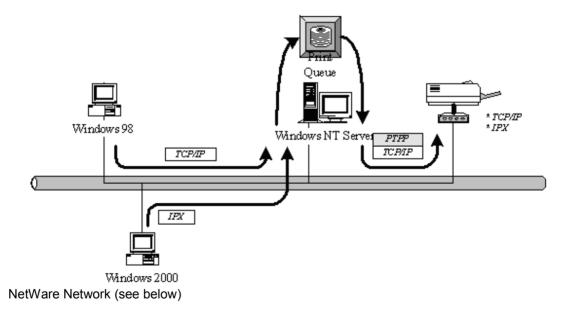
Windows Peer-to-Peer Network

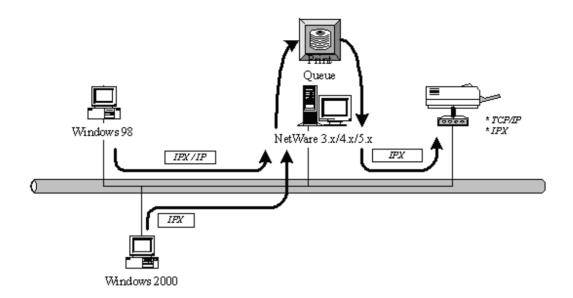
The client's PTPP driver will use TCP/IP protocol to print to print server.



Windows NT/2000 Network

Network printing function will become available after PTPP driver is installed into Windows NT/2000. Adding this printing function into Windows NT/2000 Server allows print queue, user authority management, and many other advanced features.





1.5 Contents of the User's Manual

Chapter 2 explains print server's hardware installation and configuration. It is strongly recommended for you to read.

The following chapters 3, 4, 5, and 6 introduces:

Chapter 3. Windows Peer-to-Peer Network

Chapter 4. Windows NT/2000 Server-Based Network

Chapter 5. NetWare Network

Chapter 6. UNIX System Network

You may select the appropriate chapters and sections to read depending on your network printing's requirement.

Chapter 7 and chapter 8 introduce print server's management and configuration utilities on Windows and Web Browser's environment respectively. You may select the appropriate management utility according to the administrator's computer platform.

Chapter 9 introduces Print Server's IPP Printing function and setup procedure. The IPP Printing provides a convenient way to print documents across the Internet by the IPP protocol.

1.6 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

NetWare Bindery Printing

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 by standard USB or parallel cable.
- 3. Connect the power adapter to the print server.
- 4. The print server will perform the Power-On-Self-Test (POST) after it is powered on. The PWR LED will still "off", for few seconds it will turn "on" to indicate that the print server is ready.

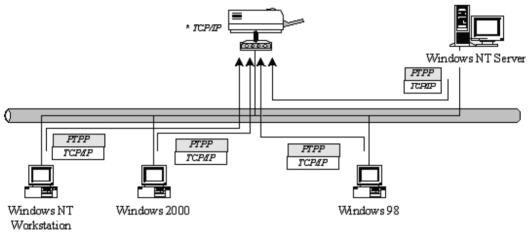
NOTE1: MUST use the power adapter shipped with the print server, do NOT use any other power adapter from any sources.

NOTE2: 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.



Installation procedure is separated into following two parts:

1. Administrator Installation and Setup (refer to section 2 for more detailed information).

System administrators must:

- Install administrator's utilities into his/her computer.
- Configure print server from administrator's configuration utility.

2. Client Installation and Configuration (refer to section 3 for more detailed information). Client users must install Windows PTPP driver (Peer-to-Peer Printing) for network printing.

In addition, after PTPP is installed, the system will automatically search for all print servers on the network, and add the printing port of the print servers into Windows' printing port (refer to Network Printing Architecture in section 1.4 for more detailed information).

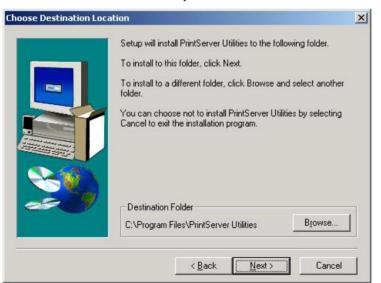
3.2 Administrator Installation and Setup

The Administrator Installation can be performed on Windows 95/98/Me/NT/2000/XP/Server2003 with the same user interface. Before the installation, please verify that your network protocol is installed on your PC (TCP/IP, IPX and/or NetBEUI). It will be helpful in your installation process.

- 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 "Administrator Installation" hyper link to initiate the installation. Or 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.



3. Specify the destination folder where the utility will be installed. Click "Next".



4. Select the components you want to install. It is highly recommended to install all provided components in administrator installation. Please click "Next".

elect Components		
	Select the components you want to install, clear the you do not want to install.	component
	<u>Components</u>	
	Utilities 1908 K	
	✓ Orines Root K	
	□ Description	
	This selection will install the Windows Print Server	
- Car	Administration Utility.	
	Space Required: 4220 K Available: 3	3005988 K
-C		-
	< <u>B</u> ack <u>N</u> ext >	Cancel

5. Specify the program folder name where the program icons will be add to. Please click "Next" to start installation.

Select Program Folder		×
	Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue.	
	Program Folders:	
	PrintServer Utilities	
	E <u>x</u> isting Folders:	
	Accessories Administrative Tools PLANET WL-U352 Startup	
	< <u>B</u> ack <u>N</u> ext> Cancel]

6. For a while, the program will finish installing utility and driver you selected. Thus far you have completed the installation phase and prepare to configure the Print Server. The "Choose Print Server" dialog box will be displayed as following. Please select the print server and click "Next".

Print server list:	2
Choose print server	
PSBE1BF0	If this is your first Print Server installation, please note that the "Print Server Name" is the "Device Name" printed on the bottom side of your Print Server.
	Refresh
	< Back Next > Cancel

7. "Name the print Server", you can assign an easy to memorize name for management. But note that, this name will be the "Identifier" for the Peer-to-Peer Printing.

Name the print server:	×
Device Name: PSBE1BF0	
The unique serial number of the print server	
Alias Name: PSBE1BF0	
An alternative name for easy management	
< <u>B</u> ack <u>N</u> ext > Cancel	

NOTE: If this is the first time you configure the print server, the "Print Server Name" will be the same as the "Device Name" printed at the bottom of the print server.

8. In the system default, IPX and NetBEUI are enabled. But the Peer-to-Peer printing is not support those protocols, so it will show those protocols are not supported. About the TCP/IP, you can either assign a fixed IP address for the print server or configure it later by the configuration utility. Please click "Next".

Network protocol configuration		×
IPX/NetBEUI This print server doesn't suppo	rt IPX/NetBEUI printing	
TCP/IP Assign print server IP addre IP Address: 192.168.99.34 Don't change You can configure later by	4	
	< <u>B</u> ack <u>N</u> ext >	Cancel

 Configuration summary will display in this screen. Now, you have completed the "Print Server Setup". By clicking "Finish", your system will perform "Add network port" of the print server to your PC.

Add network port		×
Device Name: PSBE1BF0 Alias Name: PSBE1BF0 IPX Support: Disable NetBEUI Support: Disable TCP/IP Support: Enable IP Assignment: Manual IP Address: 192.168.99.34 Queue Name Port 1: [pt1	Click [Finish], the program will add the Network Port of this print server to your PC	
Queue Name Port 2: Ipt2		
Queue Name Port 3: [pt3		
	< <u>B</u> ack Finish	Cancel

10. The "Setup complete" window is displayed to indicate that the Administrator Installation procedure is finished. Please click "Finish".



After the installation, you have completed the following tasks,

- Install utility and driver to the administrator's PC
- Configure the print server (including the print server name and network protocol)
- Add the network port of the print server to the administrator's PC

Now, you have completed the administrator's setup for most of the network environment. You can then perform the "*Client Installation*" procedure (section 3.4) on all client's sides of the network.

If you want to print from this administrator's PC to the print server, all you need to do is to perform Windows' standard "Add Printer" procedure as described below.

- Step1. Click "Start" button, choose Setting => Printers
- Step2. Double click "Add New Printer"



Step3. Select "Local printer" => click "Next".



Step4. Select a suitable printer manufacturer and model, then click "Next".

Manufacturers: Printers: Fujitsu I PlaserJet 5Si Mopier F	
GCC HP LaserJet 6L PCL	°S 💆
Generic Gestether HP LaserJet 6MP Hermes HP LaserJet 6P/6MP - Pr HP LaserJet 6P/6MP - Pr HP LaserJet III IBM HP LaserJet III PS Cartrir	
	<u>H</u> ave Disk

Step5. Choose the "*Print Server's Network Port*" which was created by the administrator installation process and click "*Next*".

Add Printer Wizard			
	click Next.		
	COM1: COM2: FILE: LPT1: MIS-1-P1 FSS05049	Communications Port Communications Port Creates a file on disk ECP Printer Port PrintServer Network P1 PrintS	
		< Back Next >	Configure Port

Step6. Complete the rest of the questions to finish the network printer setup.

3.3 Administrator Utilities

After Administrator Installation is completed, there will be six utilities in print server's Program folder.

1. Network Ports Quick Setup

Network Ports Quick Setup Utility offers a very simple method to add or remove print server's printer port from the client's computer.

If you have just installed another new print server on the network, you must run this program first. This program will search for new print servers and allow you to add the new network printer port into client's computer conveniently. Perform the standard Add Printer procedure, and you can print directly to the printer through the newly installed print server.

≫ Network Ports Quick Setup 3.0		×
Available Ports	Chosen Ports	
FT3-P1 GM1-P1 GM2-P1 GM3_1-P1 MIS1-P1 MIL2-P2 MIL3-P1 MIL4-P2 PM-P2 ▼	MTL2-P1 MTL2-P3 MTL4-P1 MTL4-P3 RD1-P1 <	OK Cancel
Refresh	Configure Port	O NetBEUI

Please be aware that Network Ports Quick Setup Utility can only detect and configure all print servers on the same network, it cannot search and configure print servers on other subnets across network segments. You must use Remote Ports Utility described in the next section to manage remote (across network segments) print servers.

2. Remote Ports

Remote Ports Utility offers a convenient way for you to manage and add printer port of the remote print server. From the assistant of this utility, you can print to other print servers outside the subnet across network segment. However, please note that this function only supports TCP/IP network protocol.

Please follow the procedures described below:

Step1. Run Remote Ports Utility

Remote port setup	×
Remote port list:	
	Add
	Delete
	(Exit

Step2. Press Add, then enter the print server's name, IP address, select used ports, and enter LPR queue name of each port.

	×
	OK Cancel
e 🔽 🗗	
lpt1 lpt2 lpt3	
	lpt1 lpt2

Step3. Press OK to add the remote printer port into your computer's printer ports.

Remote port setup	×
Remote port list:	
MIS-Remote-P1	Add
	Delete
	Exit

In order to use the remote printing function, you will have to proceed with normal Add Printer procedure and select your printer port as the newly added remote printer port.

3. NetWare Quick Setup

NetWare quick installation software (see chapter 5).

4. Print Server Configuration

Complete print server management tool (see chapter 7 – Print Server Configuration).

5. Uninstall

Assistant for removing all installed administrator software.

6. Web based management tool (see chapter 8 – Web Based Management).

3.4 Client Installation and Setup

The Client Installation can be performed on Windows 95/98/Me/NT/2000/XP and Serve2003 with the same user interface. Before the installation procedure, please confirm that your PC has connected to the network and installed at least one network protocol.

The installation is the same as Administrator Installation, besides the step 4. Please unselect "Utility" option and press "Next" to continue.

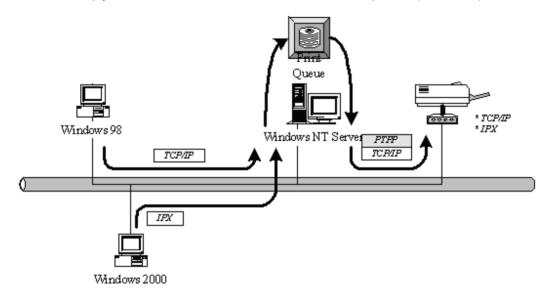
Select the components you want to install, clear you do not want to install.	r the componer
■ Utilities 0 K Driver 804 K	
Description This selection will install the Windows Print Se Administration Utility.	rver
Space Required: 2312K Available:	3005988 K
	you do not want to install. ⊆omponents Utilities OK Driver 804 K Description This selection will install the Windows Print Se Administration Utility.

Clients just need to install Peer-To-Peer driver, so you don't need to install the Configuration Utility to the client PC.

Chapter4 Windows NT/2000 Network

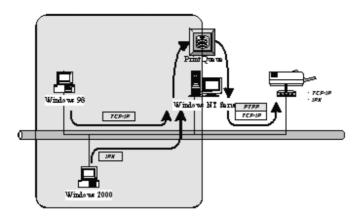
4.1 System Architecture

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 NT/2000 server. Only one Windows NT/2000 is required to have Windows PTPP (Peer-to-Peer Printing) driver 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 NT/2000 Server Installation and Setup

Please follow the procedures described below for installation and construct a peer-to-peer connection (PTPP) between Windows NT/2000 Server and Print Server.



Step1.

If this is your first time installing print server, please install the administrator software on Windows NT/2000 server first. Refer to section 3.2 for installation instructions.

If your network has already installed a working print server and your Windows NT/2000 server has not yet installed the PTPP driver, please install the client software. Refer to section 3.4 for installation instructions.

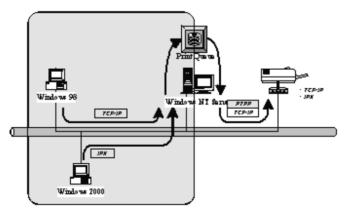
Step2.

Please add/configure the Peer-to-Peer Printing of the Windows NT/2000 network printer and verify that you can print from Windows NT/2000 to the print server by the installed PTPP driver.

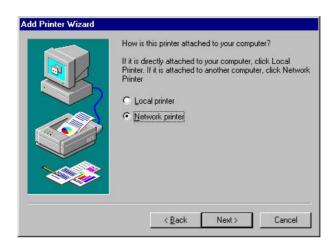
Step3.

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

4.3 User Installation and Setup



After server side's installation is completed, client side will 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.

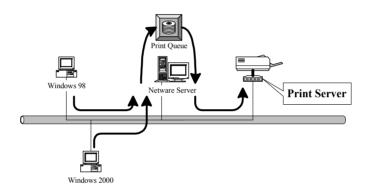


Chapter5 NetWare Network

5.1 System Architecture

We implement NetWare print sharing functionality into the print server itself, thus allowing one or more printers attached by a print server to be connected to the network.

Embedded print server, which emulates the "queue management functionality" of NetWare print server, PSERVER program running on the NetWare server. A user first prints a job at a workstation, the job is routed to a NetWare server, the NetWare server stores the job in a print queue, then the print server gets the print job from the queue to printers.



Compare with NetWare printing functionality, the advantages of embedding the NetWare network printing functionality in the print server include:

- Installation is easier and quicker
- Network management is easier
- Printing performance is enhanced
- Relieve NetWare file server's burden
- Relieve the need of a workstation running the remote printer utility
- Improve productivity by locating the printer near the workgroup

Each print server should log into a NetWare server before servicing the print jobs. Each print server will occupy a user account with which it can log into the NetWare server.

5.2 NetWare 3.x/4.x/5.x Installation & Setup

Once your print server is connected to your Ethernet network, you can set it up for use with our configuration utility.

Please note that, you need to install the IPX protocol before the following procedure,

1. Run NetWare's PCONSOLE program to create a NetWare print server and print queue with the appropriate names.

2. Refer to section 7.7 and use print server configuration utility, to configure print server attach to NetWare server print queue. Print server will get the print job from the print queue and print.

5.2.1 Installation with Pconsole

- 1. Run the NetWare PCONSOLE program.
- 2. Change the current file server, if necessary, using the Change Current File Server menu selection.
- 3. Choose the Print Queue Information menu selection.
- 4. Press the Insert key to add a new print queue.
- 5. Type in a print queue name, such as "PQ" or "Q1".

NetWa	re Print Console V3.75 User SUPERVISOR	On File Server S	Friday ERVER Conne	July 31, ction 2	1998	5:14
	Print Queues]				
		vailable Option				
		ge Current File t Queue Informa	Server			
	New Print G	ueue Name: PS301	00C_Q1_			
Ľ						

- 6. You have now successfully created the print queue that your print server will serve. Press the Escape key until the Available Options main menu is displayed.
- 7. Select Print Server Information.
- 8. Press the Insert key to add a new NetWare print server object. The print server name can be identical to the PSxxxxxx name printed on the label of the print server.

NetWa	are Print Console U3.75 Friday July 31, 1998 5:15 User SUPERVISOR On File Server SERVER Connection 2
	Print Servers
	ge Current File Server t Queue Information
	New Print Server Name: PS30100C

- 9. Press Enter to select the newly created print server.
- 10. Select Print Server Configuration.

- 11. Select Printer Configuration.
- 12. Select Printer 0 (or Printer 1, Printer 2), and press Enter, then select Parallel LPT1 (or LPT2, LPT3) in the Type field. If your print server is with only one port, you do not need to configure this Type field.

NetWare P	rint Console U3.75 Friday July 31, User SUPERVISOR On File Server SERVER Connection 2	1998 5:17
C0	Printer 0 configuration	ion
Not In Not In	Use interrupts: Yes IRQ: 7 Buffer size in K: 3 Starting form: 8 Queue service mode: Minimize form changes within queues	on Menu iced ter

- 13. Press Escape, and answer Yes to the Save Changes question.
- 14. Select Queues Serviced by Printer, then select Printer 0 (or Printer 1, Printer 2) and press Enter.
- 15. Press *Insert* key and add your newly created print queue to the list of queues serviced by the printer. Enter a priority number for the queue service, or press Enter to accept the default.

NetWare	Print Console User SUPER	V3.75 VISOR On File Server	Friday Ju SERVER Connecti	ly 31, 1998 on 2	5:19
			Print Server I	nformation	٦.
F	File Server	Queue		Priority	enu
	SERVER	P\$30100C_Q1		1	
Pri					
		<u> </u>			

- 16. Repeatedly press Escape to exit the PCONSOLE program.
- 17. After setup the NetWare server. Please write down those settings and refer to section 7.7 to enter the settings of print server.
- **NOTE:** If the print server you have is with multiple printer connectors, you may create multiple print queues and printer objects.

Your print server should now be ready to use. You should be able to redirect printing to your print server using a CAPTURE command such as the one shown in the previous section.

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: 0000B4010101 (this implies Ethernet address is 0000B4010101),

IP address: 203.66.191.12

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

PS010101:\

:ht=1:\

:ha=0000B4010101:\

: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

 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:\

:If=/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 one of lpt1, lpt2 or lpt3 depends on the printer port.

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

Chapter7 Configuration Utility

7.1 Introduction

This chapter introduces print server's system configuration utility in Windows environment. This utility is automatically installed during Windows Administrator Utility installation procedure - refer to section 3.2 and 3.3.

This utility provides the most complete 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.

The Configuration Utility provides the following configuration and management functions:

Search Print Server: Search All Available Printer Servers on the Network

Print Server Status: Print Server Network Status

General Configuration: General Information of print server

TCP/IP Configuration: IP Address and DHCP Server Configuration

NetWare Configuration: NetWare Printing Configuration

AppleTalk Configuration: AppleTalk Protocol Setting

System Configuration: Print Server Network Ability Setting and Firmware Upgrade

SNMP Configuration: SNMP monitor configuration

Setup Wizard: Guide You Through All the Settings

Report: List the Status of All Available Print Servers on the Network

We will explain each function separately in the following section.

7.2 Search – Search for All Available Print Server

E Print Server Manager2.1			
<u>File</u> <u>H</u> elp			
🔊 🚯 🟹 🏈	X X I		
Print Server Group	Status	MAC ID : 00:30:4F:BE:1B:F0	
PSBE 18F0	PSBE1BF0	♥ Print Port ♥ Print Port ♥ Retware ♥ TCP/IP ♥ AppleTalk ♥ ISystem	
	Date Time	Message	
	8/20/2004 5:25:07 PM	Welcome !	
1	8/20/2004 5:25:07 PM	Searching Please Wait !	
	8/20/2004 5:25:19 PM	1 print server found !	
	8/20/2004 5:31:13 PM	Verification Successful !	
	•		Þ
			1.

Every time when you run print server's configuration utility, click the "Search" icon on the tool bar. The configuration utility will delay for several seconds because the utility is using system's available network protocols to search for all print servers on the network. All available print servers will be listed under "Print Server Group" on the left side of the window.

You must select the print server you would like to configure from the list. The system will, at the same time, display the selected print server's status on the right side of the window.

7.3 Status - Status of Print Server

E Print Server Manager2.1			<u> </u>
Eile Help			
9 5 2 6	X X I		
Print Server Group	Status E PSBE1BF0	MAC ID : 00:30:4F:BE:1B:F0 Model Type : 2U1P To Version : 1.27 Print Port Port 1 : Olf-Line Port 2 : Olf-Line Port 3 : Olf-Line Port 3 : Olf-Line Port 3 : Olf-Line Port 3 : Olf-Line TCP/IP TCP/IP IP Address : 192.168.99.34 Subnet Mask : 255.255.0 Gateway : 0.0.0	
	Date Time	i Message	
	8/20/2004 5:25:07 PM	Welcome !	
	8/20/2004 5:25:07 PM	Searching Please Wait !	
	8/20/2004 5:25:19 PM	1 print server found !	
	8/20/2004 5:31:13 PM	Verification Successful !	
1			
			11.

Click "Status" icon on the tool bar, the status of the current selected print server will be showed on the right side of the window.

The information of the print server displayed are MAC ID, model type, firmware version, status of each printer port, NetWare file server name, NetWare file server polling interval, NetWare printer queue names, IP address, subnet mask, default gateway, AppleTalk printer type, AppleTalk zone and print server printing ability...etc.

You can refresh the print server's status by pressing the "Refresh" icon

You can restart the print server by pressing the "Reboot" icon

7.4 Setting up the Print Server

E Print Server Manager2.1						
<u>File H</u> elp						
1	X X I					
Print Server Group	Setup		X)	
		General	TCP/IP	NetWare	AppleTalk	
	PSBE1BF0	System	SNMP			
	Date Time	Message				
	8/20/2004 5:25:07 PM	Welcome !				
	8/20/2004 5:25:07 PM	Searching Ple				
	8/20/2004 5:25:19 PM	1 print server fo	ound!			
	8/20/2004 5:31:13 PM	Verification Suc	ccesstul !			
	•					Þ

Click "Setup" icon icon bar, the setup items of the current selected print server will be showed on the right side of the window.

You can modify all settings of the print server here.

When you first time into one the configure options, system will ask you enter User Name and Password. The default User Name and Password are "admin".

L	ogin - PSBE1BF	0	×
	User Name :		
	Password :		
		OK Cancel	

7.5 General Configuration

General - PSBE1BF	FO	×
	Armeral.	
General Settings	Device Info :	
	Mac ID : 00:30:4F:BE:1B:F0 Type : 2U1P Version : 1.27 Port No : 3	
	Print Server Name : PSBE1BF0 SMB Group Name : WORKGROUP	
	nne/Password Name : Password : Retype Password :	
-	Save	

Double Click "General" icon and the General configuration window will pop-up.

You can see basic print server information in this page. You also can configure the "Print Server Name", "User Name" and "Password" here.

Printer Server Name: Name of the print server. You can use this name to identify the print server when you are searching for the print server by the administration and client utilities.

SMB Group Name: Name of your network. PCs can find this printserver in Network Neighbor and attach to this printserver as a Network Printer when they are in the same Workgroup

User Name / Password: You can change the User Name and Password as your mind. Before changed, it will keep use default value.

7.6 TCP/IP Configuration

T	CP/IP - PSBE1BF0						×	l
			TCP/I	P				
[TCP/IP Settings							
	N B							
	\sim	C Auto IP						l
	65	Static IP						
							-	
		IP Address :	192	168	99	34		
		Subnet Mask :	255	255	255	0		
		Gateway :	0	0	0	0		
	1							
l								
					Save		Exit	
				_				

Double Click "TCP/IP" icon and the TCP/IP configuration window will pop-up.

If there is a DHCP Server in your LAN. You can configure the print server to automatically obtain an IP address from DHCP server. Or you can manually specify a static IP address to this print server .

If you need the print server to automatically obtain an IP address from LAN DHCP server, select "Auto IP". Or you can select "Specify IP" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the print server.

7.7 Netware Configuration

Ne	tWare - PSBE1	BFO	<
		NetVare	
	NetWare Setting:	\$	
	23	Polling Time : 3 (sec.)	
	WHY.	Queue Serviced by Printer : Port 1 : PQ1	
	~~~	Port 2 : PQ2	
		Port 3: PQ3	
Γ	File Server to be :	serviced	
		NetWare Server : fs	
		Save Exit	

Double Click "NetWare" icon and the NetWare configuration window will pop-up.

This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

**Polling Time** is the polling interval of the print server for waiting printing jobs on the NetWare server. Default is 3 seconds.

**Attached Queue** is the name of the printer queue on the NetWare server. The printer queue keeps all printing jobs waiting on the NetWare server. You have to assign a printer queue for each printer port of this print server.

NetWare Server is the name of the NetWare file server that provides printer queues.

# 7.8 AppleTalk Configuration

A	ppleTalk - PSBE1BF0				×
		Applel	alk		
[	AppleTalk Settings				
	_				
	24				
	5	Zone Name : 🛛 🎽			
[	Printer Type				
	Port 1 :	LaserWriter			
	Port 2 :	LaserWriter			
	Port 3 :	LaserWriter			
			(	эк	Cancel
					Cancer

Double Click "AppleTalk" icon and the AppleTalk configuration window will pop-up.

AppleTalk is a data communication protocol often used by Macintoshes. The print server can use these parameters to join the AppleTalk network and share the printer to other AppleTalk workstations. You have to setup the "Zone Name" and "Printer Type" for each printer port of this print server.

**Zone Name**: Print server has to join zones of AppleTalk before it can be shared to other workstations. Only workstations in the same zone can share the printer. If you want to share the printer to all workstations in all Zones, you should enter only "*" in the "Zone Name" field.

**Printer Type**, the type of printer attached to each printer port. You can get the printer type from the manufacturer of the printer.

# 7.9 System Configuration

System - PSBE1BF0		×
	System	
Settings	<ul> <li>Enable AppleTalk Printing</li> <li>Enable LPR Printing</li> <li>Enable NetWare Bindery Printing</li> <li>Enable TCP RAW Printing</li> <li>Enable IPP Printing</li> <li>Enable SMB</li> <li>Enable SMMP</li> </ul>	
Port Name :	✓ Enable Telnet         ✓ Enable NetBEUI         Port 1 :       Ipt1         Port 2 :       Ipt2         Port 3 :       Ipt3	
Update :	Upgrade	
	Save	

Double Click "System" icon and the System configuration window will pop-up.

In the System configuration page, you can select to enable/disable each printing protocol, assign name for each printer port of this print server and upgrade the new firmware for this print server.

**Port Name** is the name of the printer port. Each printer port has to be assigned a name. The client utility uses this name to access the printer port.

Upgrade Firmware: You can use this "Upgrade" tool to update the newest firmware of the print

server. Click button and select the correct firmware in you PC's storage. After selecting the firmware file, click the "Upgrade" button and wait for finish the firmware update process.

# 7.10 Wizard

Print Server Manager2.1		
Eile Help		
9 💀 🖓 🍪	X X    X	
Print Server Group	Wizard	
PSBE1BF0		Print Server Setup Wizard
	PSBE1BF0	
	Date Time	Message
	8/20/2004 5:51:51 PM	Welcome !
	8/20/2004 5:51:51 PM	Searching Please Wait !
	8/20/2004 5:52:03 PM	1 print server found !
	8/20/2004 5:56:41 PM	Verification Successful !
	•	

Click "Wizard" icon on the tool bar, the setup wizard item of the current selected print server will be showed on the right side of the window.

Double click the "Print Server Wizard", the setup wizard will guide you through all the setup process from next page.

Step 1: Setup the Print Server Name and SMB Group Name of this print server and the name of each printer port. Please refer to section 7.5 and 7.9 for detail information.

Wizard - PSBE1BF0			×
General Settin	gs		
	Print Server Name :	PSBE1BF0	
	SMB Group Name :	WORKGROUP	
	Port Name : Port 1 :	lpt1	
	Port 2 :		
	Port 3 :	lpt3	
		Cancel Next >>	
		Lancel Next>>	

Step 2: Select to enable required printing protocol. Please refer to section 7.9 for detail information.

Wizard - PSBE1BFO		×
	Enabled / Disabled	
	Enable AppleTalk Printing	
	🔽 Enable LPR Printing	
	✓ Enable NetWare Bindery Printing	
<b>NAX</b>	Enable TCP RAW Printing	
	Enable IPP Printing	
	🔽 Enable SMB	
	🔽 Enable SNMP	
	🔽 Enable Telnet	
	Enable NetBEUI	
	<< Back Cancel Next >>	

Step 3: Setup the IP of this print server. Please refer to section 7.6 for detail information.

TCP/IP - PSBE1BF0							×
		TCP/I	P				
TCP/IP Settings							
V2	C Auto IP						
51	Static IP						
	IP Address :	192	168	99	34		
	Subnet Mask :	255	255	255	0		
	Gateway :	0	0	0	0		
·				Save		E	xit

Step 4: Setup the NetWare printing. Please refer to section 7.7 for detail information.

Wizard - PSBE1BI	FO	×
Netware Se	ttings	
	Polling Time : 3 (sec.)	
	·	
	Queue Serviced by Printer : Port 1 : PQ1	
	Port 2 : PQ2	
	Port 3 : PQ3	
	File Server to be serviced :	
	NetWare Server : fs	
	<< Back Cancel Next>>	) J

Wizard - PSBE1BF0		×						
AppleTalk Se	AppleTalk Settings							
	Zone Name :	×						
	Print Type :	Port 1 : LaserWriter Port 2 : LaserWriter Port 3 : LaserWriter						
		<< Back Cancel Next >>						

Step 5: Setup the AppleTalk printing. Please refer to section 7.8 for detail information.

Step 6. Setup Status Summary. This screen will show you the total settings of this print server. If those settings are correct, please press "Set" for next step to save the settings or press "Cancel" or "<<Back" button to modify the settings as you need.

Setup Status Summary         PrinterServer         Name : PSBE1BF0         Port Name : Port1 : lpt1         Port2 : lpt2         Port3 : lpt3         IP setting         IP Address : 192.168.99.34         Subnet : 255.255.255.0         Gateway : 192.168.99.253         AppleTalk         Zone Name : *         Print Type : Port1 LaserWriter         Port2 LaserWriter         Port3 LaserWriter	Print Protocol         AppleTalk :       Enable         LPR :       Enable         NetWare :       Enable         TCP RAW :       Enable         IPP :       Enable         SMB :       Enable         SNMP :       Enable         Telnet :       Enable         NetWare       Server : fs         polling time :       3 sec         Queue       Port1 :       PQ1         Port2 :       PQ2         Port3 :       PQ3
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Step 10. Please press "Yes" to save the settings.

Warning		×
⚠	If you want to proceed and save the setting, please click on Yes.	e
	<u>Y</u> es <u>N</u> o	

# 7.11 Report

Device Name	MACID	Model Type	Version	Status
PSBE1BF0	00:30:4F:BE:1B:F0	2U1P	1.27	
41				1
1				

Click "Report" icon ion the tool bar, the Report window will pop-up.

The report list basic information of all available print servers on the network. The information includes Device Name, MAC ID, Model Type, Firmware Version and Status of print server.

# **Chapter8 Web Management**

# 8.1 Introduction

Print server can be configured and managed on the web browser. Through Local Area Network, or even Internet when this print server has an legal IP address. Administrator can easily configure and manage print server's various main functions in web browsers. Simply enter print server's IP address into your browser's address field to manage a print server by print server's built-in Web Server.

## 8.2 Web Management of Print Server

#### 8.2.1 Login

You may use any Web Browser to review the status or configure the settings of the print server. After entering the IP address of the print server, a login dialog box display. You have to enter correct "User Name" and "Password" before going to the Web Management pages.

Notes: Default User Name is "admin", default password is "admin".

Enter Netwo	ork Password		? ×
<b>?</b> >	Please type yo	our user name and password.	
IJ	Site:	192.168.0.1	
	Realm	Default: admin/admin	
	<u>U</u> ser Name		
	<u>P</u> assword		
	□ <u>S</u> ave this p	password in your password list	
		OK Can	cel

# 8.3 Device Status

## 8.3.1 System

	ANET	lulti-Port Fa	st Ethernet Pl	rint Server
<u>Device Setu</u> <b>STATUS</b> SYSTEM	p   <u>Setup Wizard   System Tool</u> This page displays the o		of the print server.	
ovo <del>tra</del>	System Information Device Name :	PSbe1bf0	Raw Printing :	Enabled
SYSTEM	Printer Server Name :	PSBE1BF0	IPP Printing :	Enabled
Printer	Model Type :	2U1P	LPR Printing :	Enabled
	System Up Time :	2011	AppleTalk Printing :	Enabled
TCP/IP	Firmware Version :	1.27	NetWare Printing :	Enabled
SMB	MAC Address :	00:30:4F:BE:1B:F0	SMB :	Enabled
21110	USB Port Number :	2	SNMP :	Enabled
SNMP	LPT Port Number :	1	Telnet :	Enabled
			NetBEUI :	Enabled
NetWare				
AppleTalk				
ppioran				

In this page, it will show you all the system information such as "Device Name", "Print Server Name", "Model Type", "System Up Time", "Firmware Version", "MAC Address" and other information.

### 8.3.2 Printer

	<b>Multi-Port Fast Ethernet Print Server</b>
Device Setup   S	etup Wizard   <u>System Tools</u>
STATUS	This page displays the information of each printer connected to the print server.
Printer	Note: if your printer does not support bi-directional function, some information will not be displayed correctly
SYSTEM	Printer 1
Printer	Manufacturer :
	Model Number :
TCP/IP	Printing Language Supported :
SMB	Current Status: Off-Line
	Printer 2
SNMP	Manufacturer :
NetWare	Model Number :
	Printing Language Supported :
AppleTalk	Current Status : Off-Line
	Printer 3
	Manufacturer :
	Model Number :
	Printing Language Supported :
	Current Status : Off-Line

This page will display the information of printers connected to all printer ports.

## 8.3.3 TCP/IP

PLAN	
Device Setup   S	etup Wizard   <u>System Tools</u> This page displays the current TCP/IP settings of the print server.
STATUS TCP/IP	This page displays the current for hir settings of the print server.
	TCP/IP Settings
SYSTEM	Use DHCP/BOOTP: OFF
Printer	IP Address: 192.168.99.34
	Subnet Mask: 255.255.255.0
ТСР/ІР	Gateway: 0.0.0.0
SMB	
SNMP	
NetWare	
AppleTalk	

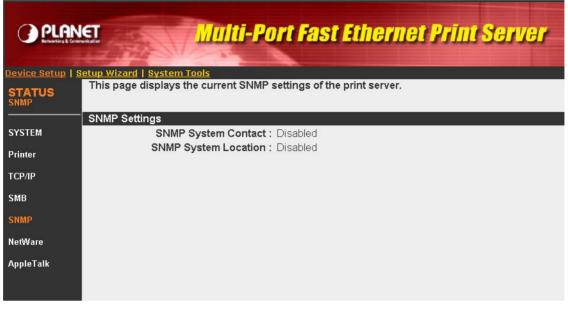
This page lists all TCP/IP Settings, include "IP Address", "Subnet Mask" and "Gateway".

### 8.3.4 SMB

	ET Multi-Port Fast Ethernet Print Server
Device Setup   S STATUS SMB	etup Wizard   <u>System Tools</u> This page displays the current SMB settings of the print server.
	SMB Settings
SYSTEM	SMB Group Name : WORKGROUP
Printer	
TCP/IP	
SMB	
SNMP	
NetWare	
AppleTalk	

This page will show the SMB Group Name.

### 8.3.5 SNMP



This page will show the SNMP System Contact and SNMP System Location. If the settings are empty, this page will show you the settings "Disabled".

() PLAN	<b>Multi-Port Fast Ethernet Print Server</b>
and Destanded School and	La Berner Contraction of the Con
Device Setup   S	ietup Wizard   <u>System Tools</u>
STATUS NetWare	This page displays the current NetWare settings of the print server.
19 (19)	General Settings
SYSTEM	Polling Time: 3 seconds
Printer	NetWare Bindery Settings
	Use Bindery Mode: Enable
TCP/IP	Name of the File Server : fs
SMB	NetWare Port Settings
	Port1 Attachd Queue: PQ1 (Off Line)
SNMP	Port2 Attachd Queue: PQ2 (Off Line)
NetWare	Port3 Attachd Queue: PQ3 (Off Line)
AppleTalk	

### 8.3.6 NetWare

This page lists NetWare settings, include "Polling Time", "Use Bindery Mode", "Name of the File Server" and "Queue Name of each Port".

## 8.3.7 AppleTalk

PLAN	ET Multi-Port Fast Ethernet Print Server
<u>Device Setup</u>   <u>S</u> STATUS AppleTalk	etup Wizard   <u>System Tools</u> This page displays the current AppleTalk settings of the print server.
SYSTEM	AppleTalk Settings AppleTalk Zone Name: *
Printer	Printer 1 Printer Type: LaserWriter
TCP/IP	Printer 2
SMB	Printer Type: LaserWriter
SNMP	Printer 3
NetWare AppleTalk	Printer Type: LaserWriter

This page lists AppleTalk settings, include "AppleTalk Zone Name" and "Printer Type of printers connected to all print ports".

# 8.4 Setup Wizard

#### 8.4.1 System

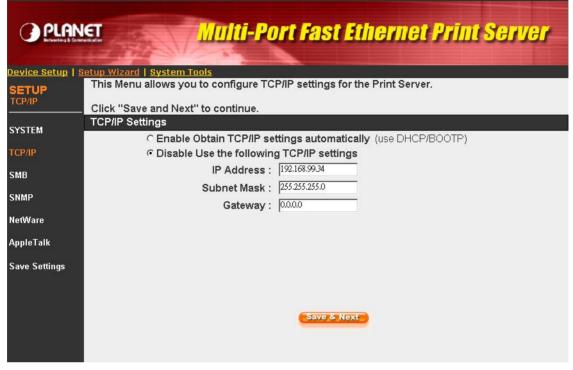
	ল Multi-Port Fast Ethernet Print Server
Device Setup   S	etup Wizard   <u>System Tools</u> This Menu allows you to configure general system settings of the Print Server.
SYSTEM	Click "Save and Next" to continue.
SYSTEM	System Settings Print server Name : PSBEIBF0
TCP/IP	PORT1 Name : Ipti
SMB	PORT2 Name : Ip/2
SNMP	PORT3 Name: मिर
NetWare	
AppleTalk	Save & Next
Save Settings	

You also can configure the "Print Server Name", "User Name" and "Password" here.

**Printer Server Name**, the name of the print server. You can use this name to identify the print server when you are searching for the print server by the administration and client utilities.

**Port Name**: The name of the printer port. Each printer port has to be assigned a name. The printserver driver uses this name to access the printer port.

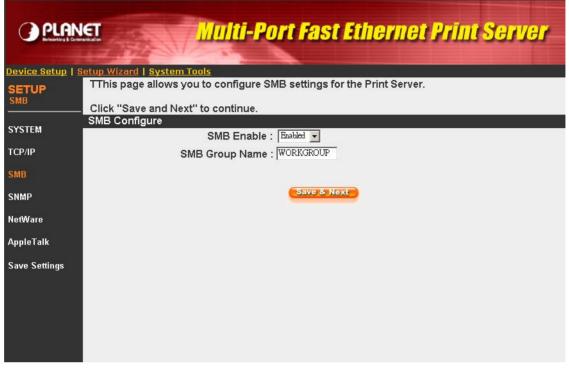
### 8.4.2 TCP/IP



You can configure the print server to automatically obtain an IP addddress from your LAN DHCP server or manually specify a static IP address.

If you need the print server to automatically get an IP from DHCP server, select "Enable Obtain TCP/IP settings automatically". Or you can select "Disable Use the following TCP/IP settings" to manually assign IP Address, Subnet Mask and Gateway for the print server.

#### 8.4.3 SMB



You may Enable/Disable the SMB Printing protocl of this print server. When this setting enable, you have to enter the SMB Group Name, you should set this name as your network PCs assigned. Then the PCs can find this printserver in Network Neighbor and attach to this print server as a Network Printer.

#### 8.4.4 SNMP

() PLAN	<b>ET Multi-Port Fast Ethernet Print Server</b>
Device Setup   S SETUP SNMP	etup Wizard   <u>System Tools</u> TThis page allows you to configure SNMP settings for the Print Server. Click "Save and Next" to continue.
SYSTEM TCP/IP SMB SNMP NetWare AppleTalk Save Settings	SNMP Configure SNMP Enable : Enabled  SNMP System Contact : SNMP System Location : Save & Next

This printserver has support SNMP protocol for users user SNMP management tool to monitor from a remote site. You can Enable this protocol and set the SNMP System Contact and SNMP System Location in this page.

SNMP System Contact: Text Field - Name of the contact person.

**SNMP System Location**: Text Field - Location of the contact person.

#### 8.4.5 NetWare

	NET Multi-Port Fast	Ethernet Print Server
Device Setup   S SETUP NetWare	Setup Wizard   System Tools This Menu allows you to configure the NetWare fun Click "Save and Next" to continue.	ction of the Print Server.
SYSTEM TCP/IP	General Settings Polling Time : 3 seconds( NetWare Bindery Settings	min: 3, max 29 seconds)
SMB SNMP NetWare	Name of the File Server: fs Attach Queue1: FQ1 Attach Queue2: FQ2	
AppleTalk Save Settings	Attach Queue3 : PQ3	xt

This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

**Polling Time**: The polling interval of the print server for waiting printing jobs on the NetWare server.

Name of the File Server: Name of the NetWare file server that provides printer queues.

**Attached Queue**: Name of the printer queue on the NetWare server. The printer queue keeps all printing jobs waiting on the NetWare server. You have to assign a printer queue for each printer port of this print server.

### 8.4.4 AppleTalk

	<b>ET Multi-Port Fast Ethernet Print Server</b>
Device Setup   S	etup Wizard   <mark>System Tools</mark>
SETUP AppleTalk	This page allows you to configure AppleTalk settings for the Print Server.
Арргетак	Leave the settings boxes blank and Click "Save & Next" if you don't use the AppleTalk protocol.
SYSTEM	Apple Talk Settings
TCP/IP	AppleTalk Enable : Enabled - AppleTalk Zone Name : *
SMB	Printer 1
	Printer Type : LaserWriter
SNMP	Printer 2
NetWare	Printer Type: LaserWriter
AppleTalk	Printer 3 Printer Type : LaserWriter
Save Settings	
	Save & Next

AppleTalk is a data communication protocol often used by Macintoshes. The print server can use these parameters to join the AppleTalk network and share the printer to other AppleTalk workstations. When you select "Enable", you have to setup the "Zone Name" and "Printer Type" for each printer port of this print server.

**Zone Name**: Print server has to join zones of AppleTalk before it can be shared to other workstations. Only workstations in the same zone can share the printer. If you want to share the printer to all workstations in all Zones, you should enter only "*" in the "Zone Name" field.

**Printer Type**, the type of printer attached to each printer port. You can get the printer type from the manufacturer of the printer.

# 8.5 System Tools

### 8.5.1 Load Default

PLAN Reverting & Court	Multi-Port Fast Ethernet Print Server           etup Wizard   System Tools
SYSTEM	
Load Default	This menu allows you to restore the factory default settings.
Load Default	
Upgrade from Browser	Load Factory Defaults
	Are you sure you want to load factory defaults ?

You can restore print server to factory default settings in this screen. All of your previous configuration will be cleared.

### 8.5.2 Upgrade Firmware

<u>Device Setup</u>   <u>S</u>	etup Wizard   <u>System Tools</u>
SYSTEM	This Menu allows you to upgrade the firmware of the Print Server.
Upgrade	Note: please make sure the firmware is correct before you proceed. If you do not know which firmware file you should use, please contact your local dealer for technical support.
Load Default	
	Firmware Upgrade
Upgrade from Browser	Select a File : Browse

You can upgrade new firmware for this print server in this screen. Click "Browse..." button to locate the new firmware and then click "OK", the firmware will be updated in several minutes.

# **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, 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.

# 9.2 System Setup

#### 9.2.1 Print Server Side

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

#### 9.2.2 Client Side

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

Add Printer Wizard		
Local or Network Printer The wizard needs to know which type of printer to set up.		
Select the option that describes the printer you want to use:		
O Local printer attached to this computer		
Automatically detect and install my Plug and Play printer		
A network printer, or a printer attached to another computer		
To set up a network printer that is not attached to a print server, use the "Local printer" option.		
< <u>B</u> ack <u>N</u> ext> Cancel		

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 "<u>http://IP/LPT_PORT:631</u>". The IP should be the print server's IP. LPT_PORT is the port name of print server that your print is connected to. For the one port print

server, the port name is "lpt1". For the three port print server, the port name is one of the three – lpt1, lpt2 or lpt3. The last number 631 is IPP standard port number. One example of the URL is "http://192.168.12.13/lpt1:631". After entering the URL of print server, click "Next >" and complete the configurations afterwards to access the shared printer.

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?		
O 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: http://192.168.13.176.631		
Example: http://server/printers/myprinter/.printer		
< <u>Back</u> Next> Cancel		

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