



User Manual Wireless Print Server

Model No.: SP766W

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

This equipment must be installed and operated in accordance with provided instructions and a minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not intended for use : None.

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1. Introduction

1.1 Product Introduction

Thank you for purchasing and using our print server. 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 IEEE 802.11g/b wireless LAN (up to 54Mbps data transfer rate), an Ethernet network port (10/100Mbps Ethernet), two USB 2.0 ports and one Parallel port for printers.

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

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

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

If you would like to set up and install print server quickly, please refer to the Quick Installation Guide that comes along with this print server.

1.2 Product Package

This package contains the following components:

- Print Server
- One Antenna
- Power Adapter
- User manual and Utility CD

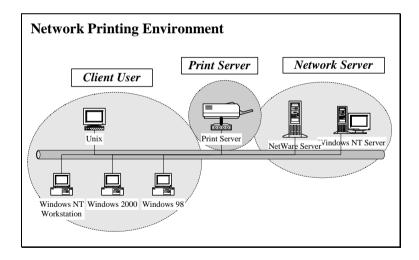
• Quick Installation Guide

1.3 Network Printing Architecture

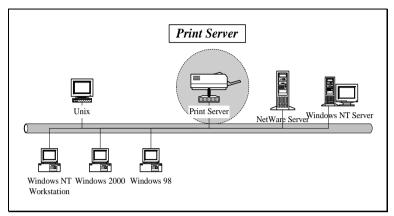
This section illustrates how print server functions and operates on the network. Before you install and use print server, it is strongly recommended that you read this section completely, and select only the chapters you need according to your network operating system by "Contents of the User's Manual" in next section.

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

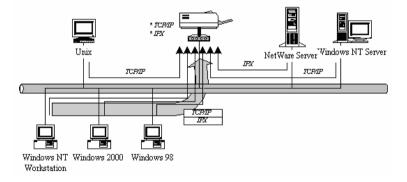
- Print Server
- Client User
- Network Server (optional)



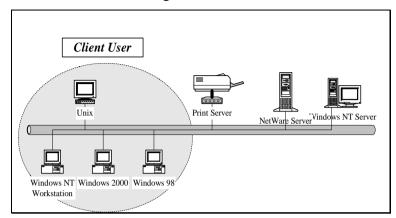
1.3.1 Print Server Network Functions



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



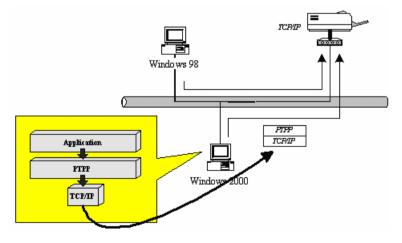
1.3.2 Network Printing Functions for Clients



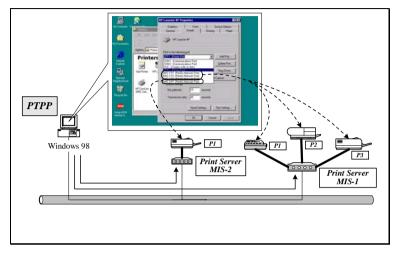
Common operating systems for clients are classified as following:

Windows 95/98SE/Me/NT/2000/XP/2003

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows 95/98SE/Me/NT/2000/XP/2003 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 all the print servers on the network, and then add their printing ports into Windows' printing port (see below).



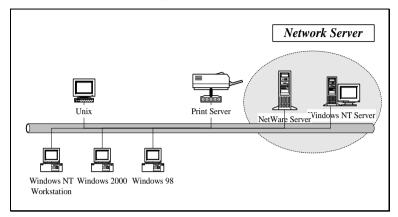
UNIX / Linux

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

MAC OS

MAC OS can use the system-standard AppleTalk network to print through print server.

1.3.3 Network Printing Functions for Network Server



Common network servers are classified as following:

Windows NT/2000/2003

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows NT/2000/2003. After PTPP is installed, the server can directly print through print server. Adding this printing function into Windows NT/2000/2003 Server allows print queue, user authority management, and many other advanced features to be used.

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

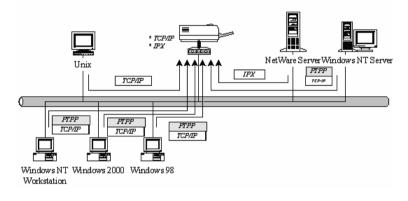
In NetWare environment, print server offers various printing modes like print queue, remote printer, etc.

1.4 Network Printing Environment

Common network environment are classified as following:

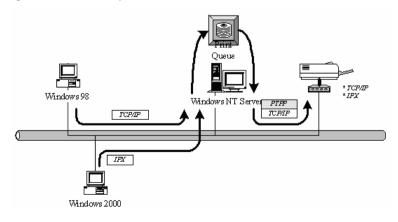
Windows Peer-to-Peer Network

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

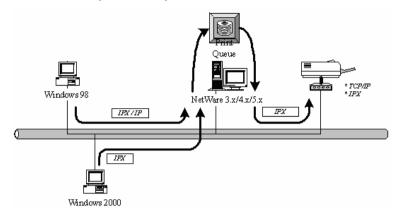


Windows NT/2000/2003 Network

Network printing function will become available after PTPP driver is installed into Windows NT/2000/2003. Adding this printing function into Windows NT/2000/2003 Server allows print queue, user authority management, and many other advanced features to be used.



NetWare Network (see below)



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 introduce:

Chapter 3. Windows Peer-to-Peer Network

Chapter 4. Windows NT/2000/2003 Server-Based Networks

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 the commands that can be used in print server management through Telnet.

Chapter 10 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.

Chapter 11 introduces how to setup LPR printing in MAC OS.

Chapter 12 introduces the UPnP function of the print server. UPnP function will help to find the IP address of the print server and enables user directly link to the web page of the print server without entering the IP Address of the print server in web browser.

Chapter 13 In Windows XP SP2, you may not find any print server listed on the "Available Ports" in "Network Ports Quick Setup". Please follow the instruction in this chapter and resolve the problem.

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)
- IPP Printing
- NetWare Bindery Printing
- AppleTalk
- SMB Printing

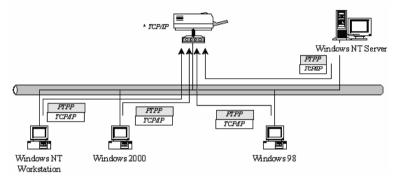
2. Hardware Installation

- 1. Unpack the print server package and verify that all the items listed in the section 1.2 are provided.
- 2. Connect the print server to the printer you want to share on the network.
- 3. Connect the print server to your network by attached the network cable to the UTP port of the print server.
- Connect the power adapter to the print server. The print server will perform the Power-On-Self-Test (POST) after it is powered on. During the POST, the three Printer Port LEDs will be on. When the LEDs are unlighted, 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 printers, it is recommended that you power on the print server before the printer.

3. 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 95/98SE/Me/NT/2000/XP/2003 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.

- Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.
- 2. The "Installation Manager" will be displayed on the screen as following. Click "Administrator Installation".



3. The "Utilities Setup" window will be displayed. Click "Next".



 Click "Next" to install the utilities in the default folder or click "Browse" to specify the destination folder where you would like to install the utilities.



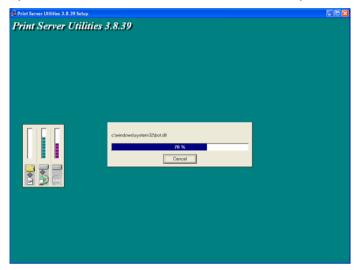
5. Select the components you want to install. It is highly recommended to install all provided components. Click "**Next**" to continue.

rint Server Utill		
	Select Components 🛛 🔯	
	Salet the component you want to initial, clear the components Components Choire 3000 R Choire 3000 R - Description The section will and the PriorServer Windows Ublikes	
	Space Required 3360 K Available: 2299576 K	
	(Back Net) Carcel	

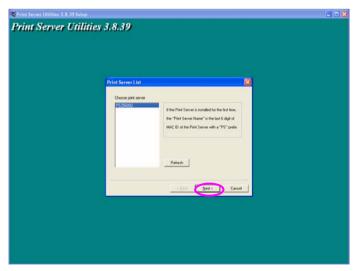
6. Specify the program folder where the program icons will be added to, click "**Next**".



7. The system will start to install the utilities automatically.



8. You have completed the installation phase and prepare to configure the Print Server. The "Choose Print Server" will list all Print Servers within the network. Select the Print Server you would like to configure and click "Next".



- NOTE 1: If this is the first time you configure the Print Server, the "Print Server Name" is the last 6-digit of MAC ID with prefix "PS". Please check the MAC ID on the print server.
- NOTE 2: The list can only display the devices from the same manufacturer.
- 9. Specify a recognizable name for the Print Server and click "Next".

Print Server Utilities 3.8.39 Setup	
rint Server Utilities 3.8.39	
Name The Print Server	
Device name : [P1770000	
The unique serial number of the print server	
Alas Name: State	
An alternative name for easy management	
(list) Carol	

10. Specify the IP Address for the Print Server manually or click "**Next**" to keep default IP Address, i.e. 192.168.2.2.

🗱 Print Server Utilities 7.8.39 Selep	
Print Server Utilities 3.8.39	
Network Protocol and IP Address Configuration	
PX-Net/EU/ This print server not nupports IPX-Net/EU/I network protocols.	
TCHIP C Assign the Third Server and P address IP Address (TSC100.2.2. P Sont change) Configure the IP Address later.	
(gath (gath) Gareed	

11. The configuration summary is displayed in the window. Now, you have completed the "**Print Server Setup**". Click "**Finish**" and your system will add network port of the Print Server to your PC automatically.

Add Network Port		
Device Name Alas Name IMX spoot NetEUI spoot TCPAP spoot IP Address Assignment IP Address T	90001 will add the Nerwork Po of the Print Server to yo of the Print Server to yo PC automatically PC	st
	< jjack. Freih	Carcel

12. The Administrator Installation procedure is totally completed. Click "Finish".



The Administrator Installation Program has executed the installation procedure that performs the following tasks:

- Install all utilities and drivers 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.

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 (please refer to Section 3.6).

3.3 Administrator Utilities

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

- Network Ports Quick Setup Add the network ports of print servers within the network to your PC.
- PS Admin Allows you to configure the print server's IP Address, network protocols and other advanced functions. Please refer to Chapter 7 for the detail instruction of the configuration.
- Remote Ports Add the network port of remote printer server to your PC.
- Uninstall Assistant for removing all installed administrator software.



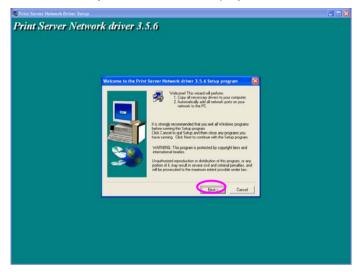
3.4 Client Installation and Setup

The Client Installation can be performed on Windows 95/98SE/Me/NT/2000/XP/2003 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.

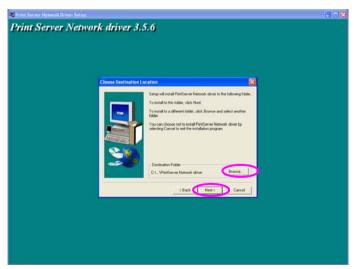
- Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.
- 2. The "Installation Manager" will be displayed on the screen as follows. Click "Client Installation".



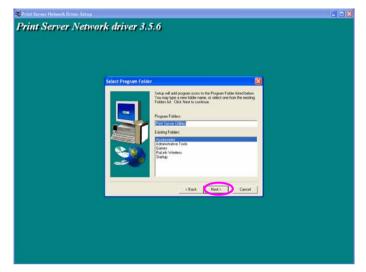
3. The "Utilities Setup" window will be displayed. Click "Next".



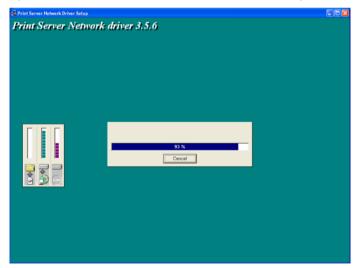
4. Click "**Next**" to install the utilities in the default folder or click "**Browse**" to specify the destination folder where you would like to install the utilities.



5. Specify the program folder where the program icons will be added to, click "**Next**".



6. The system will start to install the utilities automatically.

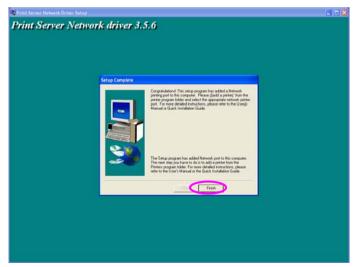


7. Now, the installation procedure is completed, you are ready to set up the client's computer. All network ports of the Print Servers detected on the network will be added to your PC automatically, click "Continue".

8. Note that if there are no print servers detected in the network currently, please click "**Continue**" to finish the installation. Please refer to Section 3.5.1 to add network ports of print servers manually.

Drint Server Network Driver Se		
Add Port	■ driver 3.5.6	
PrintServer List	autriar energy	
PE254002-91 192.168.2.2 PE254002-92 192.168.2.2 P5254002-93 192.168.2.2		
Cent inve		

9. The Client Installation procedure is completed. Click "Finish".



After the installation, you have completed the following tasks:

- Install all utilities and drivers to the client's PC.
- Add all the print server's network ports of the network to the client's PC.

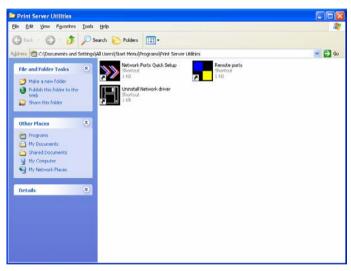
You can then perform the Windows' standard "Add Printer" procedure to add network printers to your PC. Please refer to Section 3.6.

3.5 Client Utilities

After Client Installation is completed, there will be three tools in print server's Program folder.

- Network Ports Quick Setup
- Remote Ports
- Uninstall Network Driver

The Uninstall Network Driver will assist you in removing all installed client software. The other two tools are described as follows.



3.5.1 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.

During the client's installation procedure, the system will automatically search for all print servers on the network, and add them into the printer ports of the client's computer (see below).

	👹 HP LaserJet Properties	? 🗙
	General Sharing Ports Advanced Device Settings	
	HP LaserJet	
	Print to the following port(s). Documents will print to the first free checked port.	
Add Port	Port Description Printer	^
PrintServer List	COM1: Serial Port COM2: Serial Port	
PS256002-P1 192.168.2.2	COM3: Serial Port	
PS256002-P2 192.168.2.2 PS256002-P3 192.168.2.2	□ FILE: Print to File	
	PS256002-P1 PrintServer Network HP LaserJet	>
	Add Fug. Delete Port Configure Port	it
	Enable bidirectional support	
	Enable printer pooling	
	OK Cancel	Apply

If you have just installed another new print server in 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, then you can print directly to the printer through the newly installed print server.

>>> Network Ports Quick Setup	3.0	X
Available Ports	Chosen Ports	
	> PS256002.P1 PS256002.P2 PS256002.P3	Cancel
Refresh	Configure Port C Auto C IPX C TCPI Queue	IP C 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.

Select the network ports in the "**Available Ports**" list and click ">" to add ports. If you want to add all available ports, please click ">>". To cancel some of the network ports or all ports from the "Chosen Ports" list, please click "<" or "<<".

3.5.2 Remote Ports (Utility)

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:

1. Run Remote Ports Utility. Clicks "Add" to add a remote print port.

Remote port setup 3.0	
Remote port list:	
	Add
	Delete
	(Exit
1	

2. Enter print server's name, IP address, select used ports, and enter LPR queue name of each port. Click "**OK**".

Create remote port	×
Print Server Name :	OK
IP Address :	Cancel
Port P1 P2 P3	

3. The new remote print port is displayed as follows.

Remote port setup 3.0	
Remote port list:	
Sales-P1-P1	Add
	Delete
	Exit
1	

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.

💩 HP LaserJet Pro	operties	? 🔀		
General Sharing F	Ports Advanced Devi	ce Settings		
HP LaserJet				
Print to the following checked port.	port(s). Documents will p	int to the first free		
Port	Description	Printer 🔨		
WH3-P1	PrintServer Network			
□ WH3-P2	PrintServer Network			
WH3-P3	PrintServer Network			
Sales-P1-P1	PrintServer Network			
SNAGIT7	Local Port	Snaglt 7 👝		
	Local Port			
<				
Add Port	Delete Port	Configure Port		
Enable bidirectional support				
Enable printer pooling				
	ОК	Cancel Apply		

3.6 Windows Add Printer Procedure

After adding a "**Network Port**" of the print server to your PC by Administrator or Client Installation Program, you can follow the procedure described below to add printer to the Windows. Note that following "**Add Printer**" steps are running in Windows XP, the steps in other Operating Systems are similar.

- 1. Click "Start", choose "Settings" and select "Printers and Faxes".
- 2. Click "Add a Printer".
- 3. The "Add Printer Wizard" is displayed. Click "Next".



 Select "Local printer attached to this computer" and make sure that "Automatically detect and install my Plug and Play printer" is not selected. 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:
< <u>B</u> ack <u>Next</u> Cancel

5. Choose the suitable "**Print Server Network Port**" which was created by the Administrator Installation or Client Installation process and click "**Next**".

Add Printer Wizard				
Select a Printer Port Computers communicate with printers through ports.				
Select the port you want your printer to use. If the port is not listed, you can create a new port.				
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:				
Create a new port: Type of port: Local Port				
(Back Next) Cancel				

6. Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk ... " to install the driver of the printer. After installation, the printer model will be added to the list.

Add Printer Wizard					
Install Printer Software The manufacturer and model determine which printer software to use.					
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.					
Manufacturer 🔼 Printers					
Generic Bestetner					
HP LaserJet IIP PostScript Lattridge V52.2					
IBM infotec W HP LaserJet Plus					
This driver is digitally signed. <u>I ell me why driver signing is important</u>					
< Back Cancel					

7. Name your printer and setup the default printer, click "Next".

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name: HP LaserJet
Do you want to use this printer as the default printer?
⊙Yes
O №
< Back (Next>) Cancel

 Choose to print the test page or not. It is recommended to print a test page. Click "Next".



9. You have added the printer to the PC successfully. The information of the printer is displayed in the windows. Click "**Finish**".



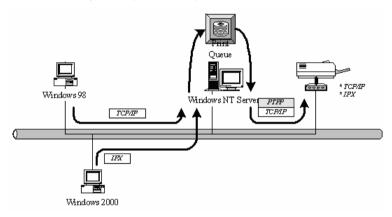
34

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4. Windows NT/2000/2003 Network

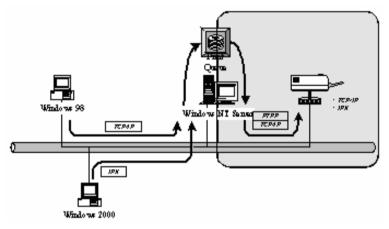
4.1 System Architecture

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/2000/2003 server. Only one Windows NT/2000/2003 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/2000/2003 Server Installation and Setup

Please follow the procedures described below for installation and construct a peer-to-peer connection (PTPP) between Windows NT/2000/2003 Server and Print Server.



Step1.

If this is your first time installing print server, please install the administrator software on Windows NT/2000/2003 server first. Refer to section 3.2 for installation instructions.

If your network has already installed a working print server and your Windows NT/2000/2003 server has not yet installed the PTPP driver, please install the client software. Refer to section 3.4 and 3.5 for installation instructions.

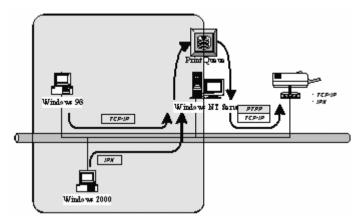
Step2.

Please add/configure the Peer-to-Peer Printing of the Windows NT/2000/2003 network printer and verify that you can print from Windows NT/2000/2003 to the print server by the installed PTPP driver.

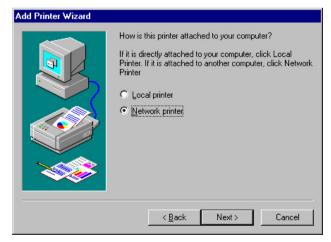
Step3.

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.

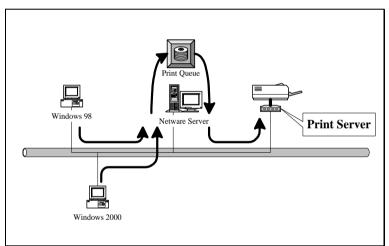


5. NetWare Network

5.1 System Architecture

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

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 and 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.

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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.

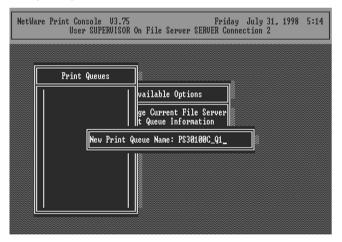
5.2 NetWare 3.x/4.x/5.x Installation & Setup

Once your print server is connected to your Ethernet network, you can set it up for use with your networking software.

5.2.1 Installation Using PCONSOLE

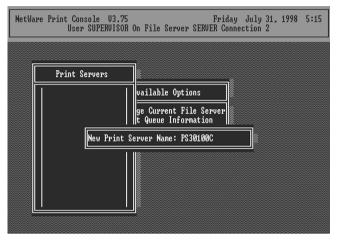
5.2.1.1 Configuring as Print Server Mode

- 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".



- 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.



- 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 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 Pi	rint Console U3.75 Friday Jul User SUPERVISOR On File Server SERVER Connection	1998 5:17
Co	Printer 0 configuration	ion
Not In Not In Not In Not In Not In Not In Not In Not In Not In Not In	Use interrupts: Yes IRQ: 7 Buffer size in K: 3 Starting form: Ø Queue service mode: Minimize form changes within qu Baud rate:	on Menu iced ter
Not In Not In	Data bits: Stop bits: Parity: Use X-On/X-Off:	

- 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 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 03.75 User SUPERVISOR	On File Server	Friday J SERVER Connect	uly 31, 1998 ion 2	3 5:19
		اً ہ	Print Server	Information	
-	File Server	Queue		Priority	enu
Pri	S <u>erver</u>	<u>P\$30100C_q1</u>		1	

- 16. Repeatedly press Escape to exit the PCONSOLE program.
- 17. Reset the print server to have the changes take effect.
- 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.

6. 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.

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:\ :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 one of lpt1, lpt2 or lpt3 depends on the printer port.

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

7. 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.

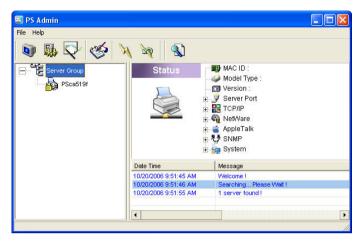
This utility provides the most complete management and configuration functions on the print server side. This utility only provides configuration functions for print server itself; it does not include configuration functions for client side or other file server or NetWare server in the network environment.

The Configuration Utility provides the following configuration and management functions:

- Search Print Server: Search All Available Printer Servers on the Network.
- Print Server Status: Display 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.
- **Rendezvous**: Allow you to configure the Rendezvous function.
- **SNMP Configuration**: SNMP Information Configuration.
- **SMB**: Configure the SMB Group Name.
- **System Configuration**: Print Server Network Ability Setting and Firmware Upgrade.
- Wireless Configuration: Wireless LAN 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 for All Available Print Servers

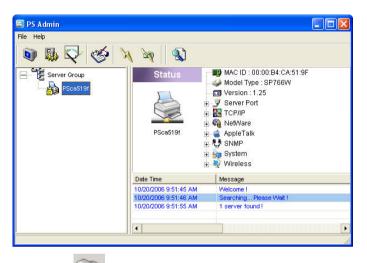


Every time when you run print server's configuration utility, click the

"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 of Print Server



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.

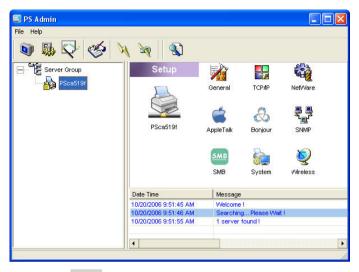
You can refresh the print server's status by pressing the "Refresh" button



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



7.4 Setup the Print Server



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

Double click one of the icons to set up the selected print server. A screen will pop up to verify "User Name" and "Password" of the print server. The default values are as follows.

User Name: admin

Password: 1234

ogin - PSca51		le l
User Name :	Imin	
Password :	ix	
	Login	Cancel

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7.5 General Configuration

General - PSca5	19f	×
	General	
General Settings	Device Info	
	MAC ID : 00:00:B4:CA:51:9F Type : SP766W Version : 1.25 Port No : 3	
	Server Name : PSca5131	-
	me/Password er Name : Password :	-
	Retype Password :	
L	SaveCancel	

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**", "**SMB Group Name**", "**User Name**" and "**Password**" here.

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.

User Name / Password is used to authenticate the administrator by the Web administration tool.

7.6 TCP/IP Configuration

TCP/IP - PSca519f				×	
ТСР	/IP				
TCP/IP Settings					
	Static IP				
IP Addre:	ss : 192	168	2	2	
Subnet Ma	sk : 255	255	255	0	
Gatewa	ay: 192	168	2	254	
		S	ave	Cancel	

IP DHCP Server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server Image: Constraint of the server <th>CP/IP Settings IP DHCP Server C Enable C Enable Starting Address: 192 168 2 100 Ending Address: 192 168 2 200</th> <th>P/IP - PSca519f</th> <th></th> <th></th> <th></th> <th></th>	CP/IP Settings IP DHCP Server C Enable C Enable Starting Address: 192 168 2 100 Ending Address: 192 168 2 200	P/IP - PSca519f				
IP DHCP Server C Enable C Starting Address : 192 168 2 100 Ending Address : 192 168 2 200	IP DHCP Server IP DHCP Server IP Disable Image: Starting Address : 192 <	TCP/IP				
IP DHCP Server C Enable C Starting Address : 192 168 2 100 Ending Address : 192 168 2 200	IP DHCP Server C Enable © Disable Starting Address : 192 168 2 100 Ending Address : 192 168 2 200 Gateway : 0 0 0 0	CP/IP Settings				
C Enable © Disable Starting Address : 192 168 2 100 Ending Address : 192 168 2 200	C Enable Image: Disable Starting Address : 192 168 2 100 Ending Address : 192 168 2 200 Gateway : 0 0 0 0					
Starting Address : 192 168 2 100 Ending Address : 192 168 2 200	Starting Address : 192 168 2 100 Ending Address : 192 168 2 200 Gateway : 0 0 0 0					
Ending Address : 192 168 2 200	Ending Address : 192 168 2 200 Gateway : 0 0 0 0	C Enable				
Ending Address : 192 168 2 200	Ending Address : 192 168 2 200 Gateway : 0 0 0 0			_	-	
	Gateway: 0 0 0	Starting Address :	192	168	2	100
Gateway : 0 0 0 0		Ending Address :	192	168	2	200
	DNS: 0 0 0	Gateway :	0	0	0	0
DNS: 0 0 0		DNS :	0	0	0	0
, , , ,			·			

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

You can configure the print server to automatically get IP from DHCP server or manually specify static IP. The print server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

Click the "**IP**" button to enter the IP setting page. If you need the print server to automatically get an IP from DHCP server, select "**Auto IP**". You also can select "**Static IP**" to manually assign "**IP Address**", "**Subnet Mask**" and "Gateway" for the print server.

Click the "DHCP Server" button to enter the DHCP server's setting page. You can "Enable/Disable" the DHCP server or set "Auto" and assign a range of IP addresses here. The DHCP server is disabled by default. If Auto is selected, the DHCP Server of print server will be enabled only when there is no other DHCP Server within the network. When "Enable" or "Auto" is selected, you have to configure "Starting Address", "Range", "Subnet Mask", "Gateway Address" and "DNS". The print server will assign a unique IP for each client.

7.7 Netware Print Server Configuration

NetWare - PSc	a519f		
	NetW	/are	
NetWare Setting	S Polling Time : 🚦 Queue Serviced By Printer	• (Sec.) Port 1 : PQ1 Port 2 : PQ2 Port 3 : PQ3	
File Server to be	serviced NetWare Server : fs	Save	Cancel

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.

Queue Serviced by Printer 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

AppleTalk - PSca519f			
	AppleT	alk	
AppleTalk Settings	Zone Name : 👔		
Printer Type			
Port 1 :	LaserWriter		
Port 2 :	LaserWriter		
Port 3 :	LaserWriter		
		Save	Cancel

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 Bonjour Configuration

Bonjour - PSca519f		
	Bonjour	
Bonjour Settings		
Ser	vice Name	
	Port 1 :	
	Port 2 :	
	Port 3 :	
	Save	Cancel

Bonjour enables automatically discovery of computers, devices and services on IP network. The service name will be seen by users on IP network, you have to designate the unique and friendly name to describe the device.

7.10 SNMP Configuration

SNMP - PSca51	9f	
	SNMP	
SNMP	Contact : Contac	/e Cancel

Double Click "**SNMP**" icon and the SNMP configuration window will pop up.

Contact: You can enter the print server administrator's contact information here. This information will be displayed in the SNMP management tool.

Location: You can enter the installed location of the print server here. This information will be displayed in the SNMP management tool.

7.11 SMB Configuration

SMB - PSca5	i19f	×
	SMB	
SMB		
5MB	SMB Group Name : WORKGROUP	•
	Pass Job When Error Occured	
	VVaiting time to Pass Job : 1 💌 s	econds(1~60)
	Save	Cancel

SMB Group Name: the name of SMB group that this print server belongs to. All PC should join the same group before they can use this print server by SMB protocol.

Pass Job when Error Occurred: When the printer is interrupted because of paper out or off line while printing, user can set the interval time to bypass the current printing job. Or the printing document will not be printed completely or with unformatted messages. The range is from 1 to 120 seconds.

7.12 System Configuration

	System	
ystem Settings	oyotom	
, otoin oottingo	Enable Appletalk Printing	
P	Enable Bonjour Printing	
	Enable LPR Printing	
	Enable NetWare Binary Printing	
	Enable TCP RAW Printing	
	🔽 Enable IPP Printing	
	🔽 Enable SMB	
	🔽 Enable SNMP	
	🔽 Enable Telnet	
	🔽 Enable NetBEUI	
	Enable UPnP	
Port Name	Port 1 : Ipt1	-
	Port 2: Ipt2	_
	Port 3: Ipt3	-
Update :		Upgrade
opuare .		
Wireless Functi	ion : 💽 Auto 🔹 💭 Enable	C Disable
Domain Coun	try : FCC (1-11)	

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 or management 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 Firmware" tool to update

the newest firmware of the print server. Click "____" button and select the correct firmware in your PC. After selecting the firmware file, click the "**Upgrade**" button to finish the firmware update process. If you want to reset the Print Server to default factory settings, please click "**Load Default**".

Note that before you upgrade the firmware please make sure that the IP Address settings of the MFP Server are in the same network as your computer.

Wireless Function: You can select "**Enable**" or "**Disable**" to manually enable or disable the wireless function. If you manually enable wireless function, the print server's wireless LAN will be always enabled and Ethernet will be always disabled. If you manually disable the wireless function, the print server's wireless LAN will be always disabled and Ethernet will be always enabled. You also can select "Auto" to let the print server automatically decide to enable or disable the wireless function. The print server only can work in ether Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the print server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the print server is connected to an active network by Ethernet cable when starting up, the print server will run in Ethernet mode. If the print server is not connected to an active network by Ethernet cable when starting up, the print server will run in Ethernet cable when starting up, the print server will run in wireless LAN mode. The print server default is in "Auto" mode.

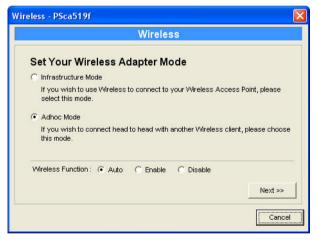
Domain Country: The wireless channels are different from country to country. Generally, the channels are from 1 to 11 in USA and from 1 to 13 in Europe. The Domain Country setting is for you to set the available channels according to your location.

7.13 Wireless Configuration

If you want to use the print server through wireless LAN, please set up the print server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the print server, then you can start to use the print server through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, restart the print server and configure the print server through Ethernet until the wireless LAN settings are correct.

The default settings of the print server wireless function are as follows.

- Mode: Ad-Hoc
- SSID: Default
- Channel: 11



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

If you use access point to build up wireless network, you have to select "Infrastructure Mode". If you do not have any access point and want to use peer-to-peer connection to build up wireless network, you have to select "Ad-Hoc Mode".

After selecting the operation modes of the wireless function, click "**Next**" to go to further detailed configuration.

Infrastructure Mode:

Wireless - PSc	a519f			×
	۷	/ireless		
Connec	t to Your Wirele	ss Network		
0	Scan For Your local Wi	reless Network		
	Let the Wizard automat	cally scan for yo	ur Wireless Net	work(SSID)
G	Assign Your Wireless I	letwork Manually		
	default	-		
	Enter your own Wireles	s Network ID (SS	SID)Manually	
			<< Back	Next >>
1				Cancel
				Cancel

In the Infrastructure mode, you have to let the print server associate with an access point. You let the print server scan for an available access point automatically or manually assign the SSID of the access point you want to use.

If you select to let the print server scan for an available access point, the following window will pop up.

Wireless - PS25	6002	×			
	Wireless				
Wireless	Network Name(SSID)				
SSID	BSSID	Channel			
frank	00:0E:2E:41:23:4C	11			
Scan	Scan Please scan and select the name of your Wireless Network from the list above. If you do not see your Wireless Network please check to see if your Wireless Network is setup correctly and re-scan.				
	<<	Back Next >>			
		Cancel			

The list is the scanned available access points. Select an access point in the list and click "**Next**". If you cannot find the access point that you want to use, click "**Scan**" to let the print server scan again.

Ad Hoc Mode:

	Wireless	
Cor	nnect to your wireless Network	
	C Scan For Your local Wireless Network	
	Let the Wizard automatically scan for your Wireless Netwo	ork(SSID)
	Assign Your Wireless Network Manually	
	default	
Chanr	Enter your own Wireless Network ID (SSID)Manually nel Selection	
	C Auto	
	Manual 11 << Back	Next >>

In the Ad-Hoc mode, you can let the print server automatically associate with other wireless station or manually assign the SSID of your wireless network. You can let the print server automatically select the channel that is the same with the peer or manually assign a channel.

If you select to let the print server scan for an active wireless station, the following window will pop up.

eless - PS2	56002	X		
	Wireless			
Wireles	s Network Name(SSID)			
SSID	BSSID	Channel		
frank	00:0E:2E:41:23:4C	11		
Scan Please scan and select the name of your Wireless Network from the list above. If you do not see your Wireless Network please check to see if your Wireless Network is setup correctly and re-scan.				
	<	< Back Next >>		
		Cancel		

The list is the scanned active wireless stations. Select a wireless station in the list and click "**Next**". If you cannot find the wireless station that you want the print server to communicate with, click "**Scan**" to let the print server scan again.

Both "**Infrastructure**" and "**Ad-Hoc**" mode have to go through the following procedure:

Wireless - PS256002	
Wireless	
Wireless Security(WEP)	
Security Mode : Disable	If you wish to activate (WEP)
PassPhrase WEP(ASCII) WEP(HEX) C (WPA-shared key	wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices
• Key 1 :	on your network must use the same WEP key to function
C Key 2:	correctly.
C Key 3:	
C Key 4:	<< Back Next >>
	Cancel

This print server supports WEP and WPA-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select "**WEP (ASCII)**" or "**WEP (HEX)**". If you want to use WPA-PSK, you have to select "**WPA-shared key**". The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

Wireless - PS256002	
Wireless	
Wireless Security(WEP)	
Security Mode : WEP(ASCII)	If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function
C Key 2:	correctly.
С Кеу 4:	< Back Next >> Cancel

Wireless - PS256002	×
Wireless	
Wireless Security(WEP) Security Mode: WEP(HEX)	If you wish to activate (WEP) wireless security or your
PassPhrase	wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices
Key 1: A*********************************	on your network must use the same WEP key to function correctly.
C Key 3:	
C Key 4:	<< Back Next >>
	Cancel

You can select "64 bit" or "128 bit" length and "Hexadecimal" or "ASCII" format for the encryption key. Longer key length can provide stronger security but worth communication performance.

Enter four key values by following the rules below and select one key as the default key.

- PassPhrase A passphrase simplifies the WEP encryption process by automatically generating the WEP encryption keys for the print server. This setting is only valid when the security mode is in "WEP (HEX)".
- Key 1 to Key 4 If the key length is 64-bit, enter 10-digit Hex values or 5-digit ASCII values as the encryption keys. For example: "0123456aef" or "Guest".
- If the key length is 128-bit, enter 26-digit Hex values or 13-digit ASCII values as the encryption keys. For example: "01234567890123456789abcdef" or "administrator".

WPA-shared key Security Mode:

Wireless - PS256002
Wireless
Wireless Security(WEP)
Security Mode : VVPA-shared key If you wish to activate (VVEP)
wireless security or your wireless network is already running wireless security you may configure your settings
WPA Algorithms : TKIP here. (Note) All Wireless Devices on your network must use the
Shared Key :
<< Back Next >>
Cancel

When "**WPA-shared key**", also named "**WPA-PSK**" requires users to select the advanced encryption methods, i.e. TKIP or AES and enter a set of shared key.

- TKIP TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.
- AES AES has been developed to ensure the highest degree of security and authenticity for digital information and it is the most advanced solution defined by IEEE 802.11i for the security in the wireless network.
- Shared Key Enter 8 to 63 digits of ASCII format to be the key for the authentication within the network.

When you finish configuring the wireless security, click "**Next**" to go to next step.

Wireless - PS256002						
		Wire	less			
Configure You	r Adap	oters IF	P Addr	ess		
C Automatically O	btain IP Se	ettins(DHC	P)			
Obtain your IP S (DHCP must be						
Set Your IP Man	ually					
IP Address :	192	168	2	2		
Subnet Mask :	255	255	255	0		
Gateway :	192	168	2	254		
				<< Ba	ck .	Next >>
						Cancel

You can select to let the print server automatically obtain IP settings with DHCP client or manually assign the IP settings.

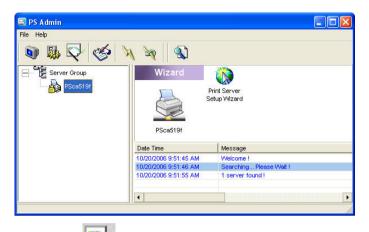
If you manually assign the IP settings, you have to enter IP address, subnet mask and default gateway address.

When you finish configuring the IP settings, click "**Next**" to confirm the IP Address configuration.

Wireless - PS256002		
Wireless		
Setup Status Summary		
Server Name : PS256002		
Connect Mode : Infrastructure Mode		
Wireless Network Name(SSID): frank		
IP Settings		
IP Address : 192.168.2.2		
Subnet Mask : 255.255.255.0		
Gateway: 192.168.2.254		
Wireless Security : Disable		
	<< Back	Save
		Cancel

Click "Save" to save the wireless configuration.

7.14 Wizard



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 Setup Wizard**" the setup wizard will guide you through all the setup process.

1. Set up the name of this print server and the port name for the print server.

Print Server Setup	Wizard - PSca51	9f		X
General Settir	ngs			
	Server Name :	PSca519f		
Port	Name			
	Port 1 :	lpt1		
	Port 2 :	lpt2		
	Port 3 :	lpt3		
	Wireless Function :	Auto	C Enable	C Disable
			Cancel	Next >>

2. Select to enable required printing protocol. Please refer to section 7.12 for detail information.

rint Server Se	tup Wizard - PSca519f	
System S	ettings	
5	🔲 Enable Appletalk Printing	
	🖵 Enable Bonjour Printing	
	Enable LPR Printing	
ws	🔽 Enable NetWare Binary Printing	
	C Enable TCP RAVV Printing	
	Enable IPP Printing	
	🔽 Enable SMB	
	✓ Enable SNMP	
	🔽 Enable Telnet	
	✓ Enable NetBEUI	
	T Enable UPnP	
	< Back Cancel Next	>>

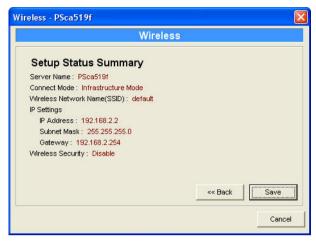
3. Setup the IP of this print server and the DHCP server. Please refer to section 7.6 for detail information.

Print Server Setup Wizard - PSca519f					X
TCP/IP Settings IP DHCP Server DHCP Server C Auto IP © Statis	c IP				
IP Address : Subnet Mask : Gateway :	192 255 192	168 255 168	2 255 2	2 0 254	
		Canc	el	Next >	>

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

Print Server Se	tup Wizard - PSca519f	×
NetWare	Settings	
	Polling Time : 3	
02	Queue Serviced By Printer	
	Port 1 : PQ1	
	Port 2: PQ2	
	Port 3: PQ3	
	File Server to be serviced	
	NetWare Server : fs	
	,	
	< Back Cancel Next >>	

5. Click "Save" to finish setting.



7.15 Report

Device Name	MAC ID	Model Type	Version	Status
PSca519f	00:00:B4:CA:51:	SP766VV	1.25	
<				

Click "**Report**" icon ^{Solo} on the tool bar, the Report window will pop up.

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

8. Web Management

8.1 Introduction

Print server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage print server's various main functions in 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.

The default IP Address, User Name and Password settings of the Print server are as follows.

IP Address: 192.168.2.2

User Name: Admin

Password: 1234

8.2 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 page 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 "1234".



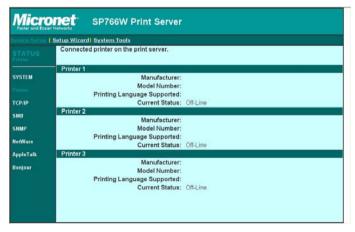
8.3 Device Status

8.3.1 System

Print Server Name: PSca5191 IPP Printing: E Printer Model Type: SP766W LPR Printing: E TCP.IP System up time: Oda/00115m.29s Bonjour: D Firmware Version: 1.25 AppleTalk Printing: E SMB MAC Address: 00.00.04 ca 51.9f NetWare Printing: E SMB LPT Port Number: 2 SMB Printing: E Wireless Lan Status: Disabled Teinet: E			s of the print server.	Current system settings	
Print Server Name: PSca5191 IPP Printing: E Model Type: SP766W LPR Printing: E TCP/IP System up time: 0ds/00115m29s Bonjour: D FIrmware Version: 125 AppleTalk Printing: E SMB MAC Address: 000004 ca51.9f NetWare Printing: E USB Port Number: 2 SMB Printing: E Wireless Land Status: Disabled Teinet: E			2018 (1990)		
Phinter Model Type: SP/86W LPR Printing: E TCP/IP System up time: Oday.00h:15m:29s Bonjour: D Firmware Version: 1:25 AppleTalk Printing: D SMB MACAddress: 00:00.b1ca:51:9f NetWare Printing: E USB Port Number: 2 SMB Printing: E SMMP LPT Port Number: 1 SNMP: E Wireless Lan Status: Disabled Teinet: E	Enabled				
Impound Type: Def Dock 15m.20s Def Noting: Def Noting: <td>Enabled</td> <td></td> <td></td> <td></td> <td></td>	Enabled				
CPUP Firmware Version: 1 25 Apple Talk Printing: D SMB MAC Address: 00 00 b4 ca 51:9f NetWare Printing: E USB Port Number: 2 SMB Printing: E SMMP LPT Port Number: 1 SNMP: E Wireless Lan Status: Disabled Teinet: E	Enabled				Printer
MAC Address: 00:00 b4:ca51:9f NetWare Printing: E USB Port Number: 2 SMB Printing: E NMP LPT Port Number: 1 SNMP: E Wireless Lan Status: Disabled Teinet: E	Disabled				TCP/IP
USB Port Number: 2 SMB Printing: E SMMP LPT Port Number: 1 SNMP: E Wireless Lan Status: Disabled Teinet: E	Disabled				
SNMP LPT Port Number: 1 SNMP: E Wireless Lan Status: Disabled Teinet: E	Enabled		00.00.04 ca.51.9r		SMB
Wireless Lan Status: Disabled Telnet: E	Enabled		2		
	Enabled		1		SNMP
	Enabled		Disabled	Wireless Lan Status:	NetWare
NetBEOLENhang: E	Enabled				net that is
AppleTalk UPnP: D	Disabled	UPnP:		4	AppleTalk
Bonjour					

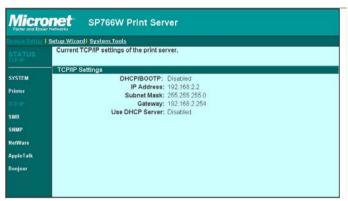
System Information includes "**Device Name**", "**Print Server Name**", "**Model Type**", "**System Up Time**", "**Firmware Version**", "**MAC Address**" and the protocols enabled status, etc.

8.3.2 Printer



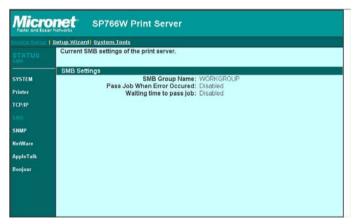
This page lists information of printers connected to all printer ports.

8.3.3 TCP/IP



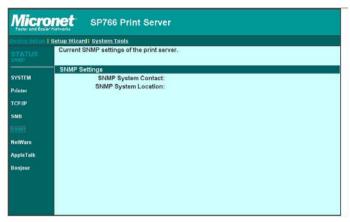
This page lists all TCP/IP settings of the print server including "**IP Address**", "**Subnet Mask**" and "**Gateway**". It also lists DHCP server setting.

8.3.4 SMB



This page lists the SMB group and the pass job interval time settings of the print server.

8.3.5 SNMP



This page lists the SNMP settings of the print server. It includes the settings of "SNMP System Contact" and "SNMP System Location".

8.3.6 NetWare

Micronet SP766W Print Server			
	Setup Wizard System Tools		
STATUS	Current NetWare settings of the print server.		
	General Settings		
SYSTEM	Polling Time: 3 seconds		
Printer	NetWare Bindery Settings		
	Use Bindery Mode: Enabled		
TCP/IP	Name of the File Server: 1s		
SMB	NetWare Port Settings		
SNMP	Port1 Attached Queue: Off Line		
SAMP	Port2 Attached Queue: Off Line		
	Port3 Attached Queue: Off Line		
AppleTalk			
Bonjour			

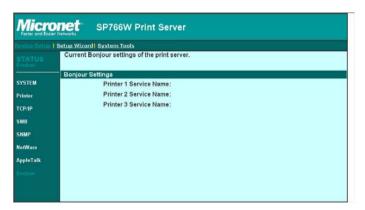
This page lists NetWare settings, including "**Polling Time**", "**Use Bindery Mode**", "**Name of the File Server**" and "**Port Attached Queue**".

8.3.7 AppleTalk

Micronet SP766W Print Server			
	Setup Wizard System Tools		
	Current AppleTalk settings of the print server.		
	AppleTalk Settings		
SYSTEM	AppleTalk Zone Name: *		
Printer	Printer 1		
	Printer Type: LaserWriter		
тср/ір	Printer 2		
SMB	Printer Type: LaserWriter		
SNMP	Printer 3		
	Printer Type: LaserWriter		
NetWare			
Bonjour			

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

8.3.8 Bonjour



This page lists Bonjour settings, including "**Port Service Name**" of each port.

8.4 Setup Wizard

8.4.1 System

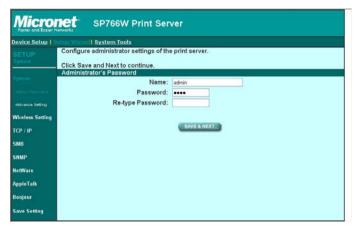
Micronet SP766W Print Server			
Device Setup	ulun Wicon <mark> System Tools</mark>		
SETUP	Configure general settings of the print server.		
System	Click Save and Next to continue.		
	System Settings	·	
Wireless Setting	Print server Name:		
TCP / IP	PORT1 Name:	Execution and the second se	
	PORT2 Name:		
SMB	PORT3 Name:	lpt3	
SNMP			
NetWare		SAVE & NEXT	
AppleTalk			
Bonjour			
Save Setting			

You can change the print server name and port name of the print server from here.

Print 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 is the name of the printer port. Each printer port has to be assigned a name. Then you can use this name to access the printer port.

8.4.1.1 Admin Password



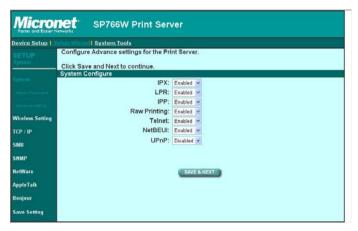
It allows you to change the password of the print server.

USER Name: the administrator name of the print server. If you change the user name, you have to login to the print server from administrator utility or web management with the new name. The default user name is "admin".

Password, enter the password you want to change to the print server. The password can be up to 8-digit alphanumeric format. The default password is **"1234**".

Re-type Password, enter the password you want to change to the print server again.

8.4.1.2 Advanced Settings



You can enable/disable the printing protocols and management tools from the screen. To enable the function, please select "**Enabled**"; to disable the function, please select "**Disabled**".

8.4.2 Wireless

Micronet SP766W Print Server		
Device Setup	etup Wicard System Tools	
SETUP	Define your ESSID, wireless mode channel no.	
Window Sering	Click Save and Next to continue.	
System	Wireless Setting	
	Function: Auto	
	Mode: Adhoc Y	
	ESSID: default	
Encryption	Channel: 11 v	
TCP / IP		
SMB	SAVE & NEXT	
SNMP		
NetWare		
AppleTalk		
Bonjour		
Save Setting		

If you want to use the print server through wireless LAN, please set up the print server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the print server, then you can start to use the print server through wireless LAN.

If the wireless configuration does not work, please plug the Ethernet cable again, restart the print server and configure the print server through Ethernet until the wireless LAN settings are correct.

You can enable/disable the wireless function and set parameters that are used for the wireless stations to connect to this print server from here. The parameters include "Function", "Mode", "ESSID" and "Channel Number". You can manually set the parameters of wireless LAN in this page or use the "Site Survey" function to automatically search for an available access point and associate with it.

Function:

Function is for user to disable, enable or let the print server auto select to connect to the wired or wireless network.

1. If "**Disable**" is selected, the print server can only connect to the network through wired Ethernet. If "**Enable**" is selected, the print server can only connect to the network through Wireless LAN.

- 2. If "Auto" is selected, the print server can automatically decide to enable or disable the wireless function. The print server only can work in ether Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the print server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable.
 - (1) If the print server is connected to an active network by Ethernet cable when starting up, the print server will run in Ethernet mode.
 - (2) If the print server is not connected to an active network by Ethernet cable when starting up, the print server will run in wireless LAN mode.
 - (3) The print server default is in "Auto" mode.

Mode:

Mode is the operation mode of wireless station. You can choose ether "**Ad Hoc**" or "**Infrastructure**" mode. If you do not have any access point and want to use peer-to-peer connection, you have to choose "**Ad Hoc**" mode. If you have an access point as the wireless LAN infrastructure, you have to choose "**Infrastructure**" mode.

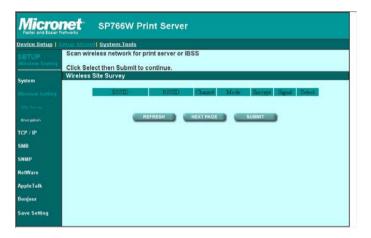
ESSID:

ESSID is the unique name identified by in a wireless LAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations and access points in the same WLAN network are the same.

Channel:

Channel Number is the channel number of your wireless LAN. Please make sure that the channel number of all stations and access points in the same WLAN network are the same.

8.4.2.1 Site Survey



You can use this "**Site Survey**" function to search for available access points in you location. In the list is the information of all available access points or wireless stations, includes SSID, BSSID, Channel, Type, Encryption and Signal Strength. You can select one wireless device in the list for this print server to associate with or you have to go back to "**Wireless**" page to manually setup the wireless parameters.

Select: click the radio button in the "**Select**" column, and then click "**Submit**". The print server will be connected to the wireless device you have selected.

Refresh: click "Refresh" to update the list.

Next Page: go to next web page.

Sumbit: Click "Submit" to confirm the connection with the wireless device.

8.4.2.2 Encryption

This print server supports WEP and WPA-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select "**WEP**". If you want to use WPA-PSK, you have to select "**WPA-shared key**". The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

Micronet SP766W Print Server			
Device Setup	Hinn Witcord System Tools		
SETUP Wireless Sotting	Click Save and Next to continue.		
System	Encryption Setting		
	Encryption mode:	WEP	
	Key length:	64-bit 💌	
	Key format:	Hex (10 characters) 👻	
	Passphrase :	Generate	
TCP / IP	Enter a key into the table		
SMB	Default key:	and a second	
SMD	Key 1:	*******	
SNMP	Key 2:		
NetWare	ney o.		
AppleTalk	Key 4:	*******	
	SAVE & NEXT		
Bonjour			
Save Setting			

- Key Length You can choose "64-bit" to use WEP with 64-bit key length encryption or choose "128-bit" to use WEP with 128-bit key length encryption. The longer key length can provide better security but worse transmission throughput.
- Key Format You may select to use ASCII Characters (alphanumeric format) or Hexadecimal digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.
- Pass Phrase A pass phrase simplifies the WEP encryption process by automatically generating the WEP encryption keys for the print server.
- **Default Key** Select one of the four keys to encrypt your data. Only the key you select it in the "Default key" will take effect.

• Key 1 – Key 4 – The WEP keys are used to encrypt data transmitted within the wireless network. Fill the text box by following the rules below.

64-bit WEP: input 10-digit Hex values (in the "**A-F**", "**a-f**" and "**0-9**" range) or 5-digit ASCII character as the encryption keys. For example: "**0123456aef**" or "**Guest**".

128-bit WEP: input 26-digit Hex values (in the "**A-F**", "**a-f**" and "**0-9**" range) or 10-digit ASCII characters as the encryption keys. For example: "**01234567890123456789abcdef**" or "**administrator**".

WPA-shared key Security Mode:

Micronet SP766W Print Server			
Device Setup	ielun Wicord System Tools		
SETUP Wireless Setting	Encryption your data over the wireless network. Click Save and Next to continue.		
System	Encryption Setting		
	Encryption mode: WVPA-starnd kwy ~ WPA Unicast Cipher Suite : TXIP ~		
	Pre-shared Key Format : Pessphrase		
	Pre-shared Key :		
TCP / IP	SAVE & NEXT		
SMB			
SNMP			
NetWare			
AppleTalk			
Bonjour			
Save Setting			

When "**WPA-shared key**", also named "**WPA-PSK**" requires users to select one of the advanced encryption methods, i.e. TKIP or AES and enter a set of shared key.

• **TKIP** – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

- AES AES has been developed to ensure the highest degree of security and authenticity for digital information and it is the most advanced solution defined by IEEE 802.11i for the security in the wireless network.
- Pre-shared Key Format Select "Pass phrase" or "Hex" key format. If "Pass phrase" is selected, please enter 8 to 63 digits of ASCII format to be the key for the authentication within the network. If "Hex" is selected, please enter 64 digits of Hex code which should be "0-9" and "A-F".
- Pre-Shared Key The "Pre-Shared Key" is different from the key format selection. Please see above description.

When you finish configuring the wireless security, click "**Save & Next**" to confirm the configuration.

8.4.3 TCP/IP

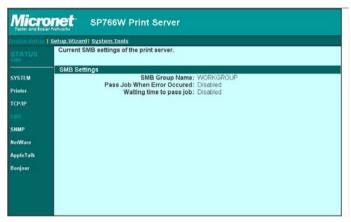
Micro	net SP766W Print Server	
Device Setup	atup Wizari () System Tools	
SETUP TCP/10	Configure TCP/IP settings for the print server. Click Save and Next to continue.	
System	TCP/IP Settings	
Wireless Setting	 Enable Obtain TCP/IP settings automatically (use DHCP/BOOTP) Disable Use the following TCP/IP settings 	
TCP / IP	IP Address: 192.168.2.2	
SMB	Subnet Mask: 255 255 255 0	
SMD	Gateway: 192.168.2.254	
SNMP	Print Server DHCP Server: Disabled	
NetWare		
AppleTalk		
Bonjour		
Save Setting		
	SAVE & NEXT	

You can configure the print server to automatically get IP from DHCP server or manually specify static IP. The print server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

If you need the print server to automatically get an IP from DHCP server, select "Enable Obtain TCP/IP Settings Automatically (Use DHCP/ BOOTP)". You also can select "Disable Use the following TCP/IP Settings" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the print server.

You can enable/disable or set auto for the print server's DHCP server. The DHCP server is disabled by default. If the DHCP Server is enabled or set Auto, you have to assign a range of IP addresses here. Fill in the "**Start IP**", "**Range**", "**DNS**", "**Subnet Mask**" and "**Gateway**", and the print server will assign a unique IP for each client. Note that when "**Auto**" is selected, the DHCP Server of the print server will be enabled only when there is no other DHCP Server within the network.

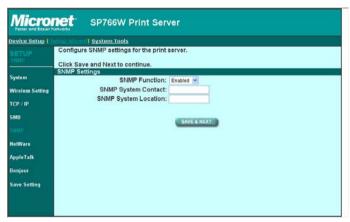
8.4.4 SMB



You can enable/disable the SMB protocol from here. If SMB is enabled, enter the "**SMB Group Name**" to specify the SMB group that this print server belongs to. All PC should join the same group before they can use this print server by SMB protocol.

Pass Job When Error Occurred is for you to set the interval time for bypassing the current printing job in order to avoid the printing job is not printed completely while the printer is interrupted unexpectedly because of paper out or off line.

8.4.5 SNMP

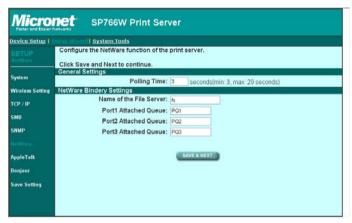


The print server supports SNMP configuration. If it is enabled, please set up the following parameters.

SNMP System Contact: You can enter the print server administrator's contact information here. This information will be displayed in the SNMP management tool.

SNMP System Location: You can enter the installed location of the print server here. This information will be displayed in the SNMP management tool.

8.4.6 NetWare



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.

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

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.

8.4.7 AppleTalk



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 select to enable or disable AppleTalk, and setup the "**Zone Name**" and "**Printer Type**" for each printer port of this print server.

AppleTalk Enable: Enable or disable "AppleTalk".

AppleTalk 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.

8.4.8 Bonjour



Bonjour enables automatically discovery of computers, devices and services on IP network. The service name will be seen by users on IP network, you have to designate the unique and friendly name to describe the device.

8.4.9 Save Settings

Device Setup	httig Wizen System Tools		
	Configure Bonjour settings for the print server.		
	Click Save and Next to continue.		
System	Bonjour Settings		
Vireless Setting	Bonjour Function: Disabled 🛩		
	Microsoft Internet Explorer		
ICP / IP	(2) Would you like to save settings and reboot?		
SMB			
SNMP	OK Cancel		
NetWare			
AppleTalk			
3onjour			

You can click the "**Save Settings**" to save the settings and restart the system.

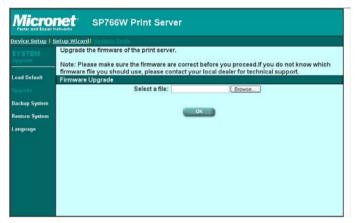
8.5 System Tools

8.5.1 Load Default

Micro			
Device Setup S	ietop Wizerd System Toph		
SYSTEM Load Default	Restore the factory default settings.		
	Load Factory Defaults		
Upgrade			
Backup System	Are you sure you want to load factory defaults?		
Restore System	OK		
Language			

You can use this page to restore the factory default settings. All of your previous setup will be cleared.

8.5.2 Upgrade Firmware from Browser



You can upgrade new firmware for this print server in this page. Click "**Browse**" to select the new firmware in your storage and then click "**OK**", the firmware will be updated in several minutes.

Be aware that if you have started upgrading firmware, you have to follow all the upgrading steps or the print server can't turn back to normal configuration.

8.5.3 Backup Setting



To backup the print server setting to a "**config.bin**" file, select "**Backup** settings from Print Server". To apply the setting from the backup file, select "Restore settings from file" and specify a file to restore.

8.5.4 Restore System

Micronet SP766 Print Server			
Device Setup S	ietup Wizardi Iliyistam Tolutu		
SYSTEM Teature System	Restore the settings to print server. Note: Please make sure the firmware are 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	Restore System Settings		
Upgrade	Select a file: Browse.		
Beckup System			
	COK CO		
Language			

From here, you can select the file to restore this print server.

9. Telnet Management

9.1 Introduction

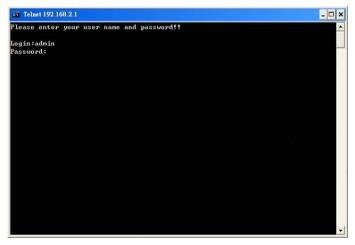
Print server can be configured and managed by Telnet. Through Local Area Network, or even Internet, administrator can easily configure and manage print server's various main functions by a telnet client.

9.2 Login

Execute the Telnet client tool and connect to the print server IP.

telnet 192.168.2.2

Then you will be prompted to enter the username and password.



After you successfully enter the correct username and password, the following prompt will be displayed and you can start to manage this print server by command.

admin#

9.3 Get Setting Values - "get" Command

"**get**" command is used to get the setting values of this print server. The format of "get" command is as following:

get argument

Then the argument value will be displayed after the command. For example, if I want to get IP address of the print server, I type "get ip" command and the IP value "IP_ADDR='192.168.2.2" is displayed:

admin# get ip

IP_ADDR='192.168.2.2'

If you enter "**get**" only, the system will list all available arguments of "**get**" command.

The following table lists all the arguments whose value can be got by "**get**" command:

Argument	Description	Example
psname	Print server name	admin# get psname
		PORT1_PS='PS254896'
password	Login password	admin# get password
		USER_PASSWORD='1234'
username	Login username	admin# get username
		USER_NAME='admin'
wlfunc	Wireless LAN	admin# get wlfunc
	function is enabled or disabled	WIRELESS_FUNCTION=2
	0: disabled	
	1: enabled	
	2: auto	

Argument	Description	Example
wlmode	Wireless LAN mode	admin# get wlmode
	is Infrastructure or Ad Hoc	AP_MODE=1
	0: Infrastructure	
	1: Ad Hoc	
ESSID	ESSID of the	admin# get ESSID
	wireless LAN	SSID='default'
channel	Channel number	admin# get channel
	used by wireless LAN	CHANNEL=11
wep	The mode of WEP	admin# get wep
	0: disable	WEP=0
	1: 64 bit WEP enabled	
	2: 128 bit WEP enabled	
defkey	Default WEP key number	admin# get defkey
	0: key 1	WEP_DEFAULT_KEY=0
	1: key 2	
	2: key 3	
	3: key 4	
key641	64 bit WEP key 1	admin# get key641
		WEP64_KEY1=0123456789
key642	64 bit WEP key 2	admin# get key641
		WEP64_KEY2=0123456789
key643	64 bit WEP key 3	admin# get key641
		WEP64_KEY3=0123456789

Argument	Description	Example
key644	64 bit WEP key 4	admin# get key641
		WEP64_KEY4=0123456789
key1281	128 bit WEP key 1	admin# get key1281
		WEP128_KEY1=0123456789
		abcdef0123456789a
key1282	128 bit WEP key 2	admin# get key1282
		WEP128_KEY2=0123456789
		abcdef0123456789a
key1283	128 bit WEP key 3	admin# get key1283
		WEP128_KEY3=0123456789
		abcdef0123456789a
key1284	128 bit WEP key 4	admin# get key1284
		WEP128_KEY4=0123456789
		abcdef0123456789a
ip	IP of the print server	admin# get ip
		AP_ADDR='192.168.2.2'
gateway	Default gateway of the print server	admin# get gateway
		DEFAULT_GATEWAY='192.168.2. 254'
submask	Subnet mask of the print server	admin# get submask
		SUBNET_MASK='255.255.255.0'
polling	Polling interval (in second) of the print server for waiting printing jobs on the NetWare server	admin# get polling
		PORT1_POLLTIME=3

Argument	Description	Example
aq1	Name of the printer queue on the NetWare server	admin# get aq1 PORT1_QNAME='PQ1'
applezone	The name of AppleTalk zone that this print server joins to	admin# get applezone PORT1_APPLEAONE='*'
printertype1	The type of the printer attached to this print server	admin# get printertype1 PORT1_PRINTTYPE='La serWriter'
SMBDG	The name of the SMB group name that this print server joins to	admin# get SMBDG SMBD_NAME='default'
SNMPC	The administrator contact information of this print server for SNMP	admin# get SNMPC SNMP_CONTACT='sbdjo hn@hotmail.com'
SNMPL	The installed location of this print server for SNMP	admin# get SNMPL SNMP_LOCATION='Roo m 301'
port1	The port name of this print server	admin# get port1 PORT1_LPTNAME='lpt1'
DHCPS	The DHCP server is enabled or disabled 0: disable 1: enable	admin# get DHCPS DHCPD=0
DHCP	Get dynamic IP by DHCP is enabled or disabled 0: disable 1: enable	admin# get DHCP DYNAMIC_IP=0

Argument	Description	Example
appletalk	AppleTalk printing is enabled or	admin# get appletalk
	disabled	APPLE_ENABLE=0
	0: disable 1: enable	
SMBD	SMB printing is enabled or	admin# get SMBD
	disabled	SMBD_ENABLE=1
	0: disable 1: enable	
SNMP	SNMP management protocol is	admin# get SNMP
	enabled or disabled	SNMP_ENABLE=1
	0: disable 1: enable	
IPX	NetWare Bindery printing is	admin# get IPX
	enabled or disabled	IPX_ENABLE=1
	0: disable 1: enable	
LPD	LPR printing is enabled or	admin# get LPD
	disabled	LPD_ENABLE=1
	0: disable 1: enable	
IPP	IPP printing is enabled or	admin# get IPP
	disabled	IPP_ENABLE=1
	0: disable 1: enable	
RAW	RAW printing is enabled or	admin# get RAW
	disabled	RAW_ENABLE=1
	0: disable 1: enable	

9.4 Modify Setting Values - "set" Command

"**set**" command is used to modify the setting values of this print server. The format of "**set**" command is as following:

set argument_name value

Then the value will be written into the system configuration. For example, if you want to set IP address of the print server to 192.168.2.2, type "**set** ip '192.168.2.2'" command and the IP of the print server will be changed:

admin# set ip '192.168.2.2'

If you enter only "**set**", the system will list all arguments of "**set**" command and the command format.

The following table lists all the arguments whose value can be modified by "set" command:

Argument	Description	Example
psname	Print server name	set psname 'PS001'
password	Login password	set password '1234'
username	Login username	set username 'admin'
wlfunc	Enable or disable the wireless LAN function.	set wlfunc auto
	The value should be "disabled", "enabled" or "auto"	
wlmode	Wireless LAN mode is Infrastructure or Ad Hoc.	set wlmode ad hoc
	The value should be "inf" or "ad hoc"	
ESSID	ESSID of the wireless LAN	set ESSID default
Argument	Description	Example
channel	Channel number used by wireless LAN.	set channel 11
	The value should be 1~14.	

Argument	Description	Example
wep	The mode of WEP.	set wep disable
	The value should be "disable", "wep64" or "wep128"	
defkey	Default WEP key number.	set defkey 0
	The value should be 0~3.	
	0: key 1 1: key 2	
	2: key 3 3: key 4	
key641	64 bit WEP key 1.	set key641 0123456789
	The value should be 10 digit Hex value	
key642	64 bit WEP key 2.	set key641 0123456789
	The value should be 10 digit Hex value	
key643	64 bit WEP key 3.	set key641 0123456789
	The value should be 10 digit Hex value	
key644	64 bit WEP key 4.	set key641 0123456789
	The value should be 10 digit Hex value	
key1281	128 bit WEP key 1.	set key1281 0123456789ab
	The value should be 26 digit Hex value	cdef0123456789a
key1282	128 bit WEP key 2.	set key1282 0123456789ab
	The value should be 26 digit Hex value	cdef0123456789a
key1283	128 bit WEP key 3.	set key1283 0123456789ab
	The value should be 26 digit Hex value	cdef0123456789a

Argument	Description	Example
key1284	128 bit WEP key 4.	set key1284 0123456789ab
	The value should be 26 digit Hex value	cdef0123456789a
ip	IP of the print server	set ip '192.168.2.2'
gateway	Default gateway of the print server	set gateway '192.168.2.254'
submask	Subnet mask of the print server	set submask '255.255.255.0'
polling	Polling interval (in second) of the print server for waiting printing jobs on the NetWare server	set polling 3
aq1	Name of the printer queue on the NetWare server	set aq1 'PQ1'
applezone	The name of AppleTalk zone that this print server joins to	set applezone '*'
printertype 1	The type of the printer attached to this print server	set printertype1 'LaserWriter'
SMBDG	The name of the SMB group name that this print server joins to	set SMBDG 'default'
SNMPC	The administrator contact	set SNMPC 'sbdjohn@hotm
	information of this print server for SNMP	ail.com'
SNMPL	The installed location of this print server for SNMP	set SNMPL 'Room 301'
port1	The port name of this print server	set port1 'lpt1'

Argument	Description	Example
DHCPS	Enable or disable the DHCP server.	Set DHCPS disable
	The value should be "disabled" or "enabled".	
DHCP	Enable or disable to get dynamic IP by DHCP.	Set DHCP disable
	The value should be "disabled" or "enabled".	
appletalk	Enable or disable AppleTalk printing	Set appletalk disable
	The value should be "disabled" or "enabled".	
SMBD	Enable or disable SMB printing	Set SMBD enable
	The value should be "disabled" or "enabled".	
SNMP	Enable or disable SNMP management protocol	Set SNMP enable
	The value should be "disabled" or "enabled".	
IPX	Enable or disable NetWare Bindery printing	set IPX enable
	The value should be "disabled" or "enabled".	
LPD	Enable or disable LPR printing	set LPD enable
	The value should be "disabled" or "enabled".	

Argument	Description	Example
IPP	Enable or disable IPP printing	set IPP enable
	The value should be "disabled" or "enabled".	
RAW	Enable or disable RAW printing	set RAW enable
	The value should be "disabled" or "enabled".	

9.5 Other Commands

9.5.1 ipconfig

"**ipconfig**" command is used to quickly get the IP settings (IP, subnet mask, default gateway) of the print server:

admin# ipconfig IP_ADDR=192.168.2.2 SUBNET_MASK=255.255.255.0 DEFAULT_GATEWAY=192.168.2.254

9.5.2 reboot

"reboot" command is used to restart the print server:

admin# reboot

9.5.3 exit

"exit" command is used to leave the print server telnet management:

admin# exit

9.5.4 help

"help" command is used to list all telnet management commands of the print server:

admin# help set argument value get argument ipconfig reboot exit

10. IPP Printing

10.1 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.

10.2 System Setup

10.2.1 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.

10.2.2 Client Side

You only need to perform Window's standard Add New Printer procedure.

- 1. Click "Start", choose "Settings" and select "Printers and Faxes".
- 2. Click "Add a Printer".

3. The "Add Printer Wizard" is displayed. Click "Next".



4. Select "A network printer, or a printer attached to another computer". 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: 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.
< Back (Next>) Cancel

5. 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:631/Port Name". The IP should be the print server's IP. The number 631 is IPP standard port number. Port Name is the port name of print server that your printer is connected to. The default port name is "Ipt1". One example of the URL is http://192.168.3.66:631/lpt1. After entering the URL of print server, click "Next".

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 Browse for a printer	
O Connect to this printer (or to browse for a printer, select this option and click Ne	ext):
Name:	
Example: \\server\printer	
• Egnnect to a printer on the Internet or on a home or office network:	
URL: http://192.168.3.66:631/lpt1	$\mathbf{)}$
Example: http://server/printers/myprinter/.printer	
< Back (Next>)	Cancel

 Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.

Add Printer Wizard	
Install Printer Software The manufacturer and model	determine which printer software to use.
	d model of your printer. If your printer came with an installation ur printer is not listed, consult your printer documentation for
Manufacturer 🔼	Printers 🔼
Generic	W HP LaserJet IIP Plus
Gestetner 💳	WHP LaserJet IIP PostScript Cartridge v52.2
IBM	HP LaserJet
infotec 💽	HP LaserJet Plus
This driver is digitally signed. Tell me why driver signing is imp	Windows Update Have Disk
	< <u>Back</u> (Next>) Cancel

7. Choose to set the print whether as a default printer or not. Click "Next".

Add Printer Wizard
Default Printer Your computer will always send documents to the default printer unless you specify otherwise.
Do you want to use this printer as the default printer? ⊙ <u>Yes</u> ○ N <u>o</u>
< Back Next > Cancel

8. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "**Finish**".



11. LPR Setting in MAC OS

LPR Printing (Line Printer Remote technology) allows Macintosh computers to connect to printers via TCP/IP. LPR Printing can be set up on any Macintosh with version 9.x above.

To enable LPR Printing in Macintosh, please follow the procedures below.

1. In the Desktop, click "System Preferences".



- 000 System Preferences 0 Personal e New O Appearance Desktop & Dock Exposé International Security Screen Saver Hardware 0 d. CDs & DVDs Displays Energy Keyboard & Print & Fa Sound Saver Mouse Internet & Network 1 1 1 * .Mac Network QuickTime Sharing System ... 18 Accounts Classic Date & Time Software Speech Startup Disk Universal Access Update
- 2. Click "Print & Fax".

3. From the "Print & Fax" screen, click "Set Up Printers...".

	Printing Faxing	
	Set Up Printers	
Selected p	printer in Print Dialog: Last printer used	
Default pap	er size in Page Setup: US Letter	

4. Click "Add" to add the new Print Server through TCP/IP.

	Printe	er List	
Make Default Add In Menu Name ✓ ₩ PS000888_Ip ✓ ₩ PS123487_Ipt	A Status	rSync Show Info Kind EPSON Stylus Color EPSON Stylus Color	

5. Enter the "**Printer Type**", "**Printer Address**" and "**Queue Name**" and select the "**Printer Mode**l" to setup the Print Server. Click "**Add**" to continue.

Printer Type: LPD/LPR

Printer Address: Input the IP Address of the Print Server

Queue Name: The queue name of the Print Server is "Ipt1"

Printer ModeI: Select the Printer Model that is attached to the Print Server.

00	Printer Setup L	Itility Edit View Printers Window Help Printer List	C
Make		IP Printing	
n Men ⊻ ⊻	Printer Type:	LPD/LPR	
⊻	Printer Address:	192.168.1.227	
		Complete and valid address.	
	Queue Name:	lpt1	
		Leave blank for default queue	
_	Printer Model:	EPSON	
	Model Name		
		51, CUPS+Gimp-Print v4.2.5	
	EPSON Stylus C	52, CUPS+Gimp-Print v4.2.5	
	EPSON Stylus C	70, CUPS+Gimp-Print v4.2.5	
		80, CUPS+Gimp-Print v4.2.5	

6. The Print Server is installed completely. You can see it in the "**Printer** List".

)			Printer List	C
Make De		ete Utility Co	olorSync Show In	fo	
Monu			Status	King	Uset
0	- IPT1 on 192	2.168.1.227		EPSON Stylus C61, CUPS+Gimp-	Print v4.2.5
	appe: 000888 B	ot1		EPSON Stylus Color 740, CUPS+Gir	mp-Print v4.2.5
	😸 PS123487_lp	ot1		EPSON Stylus Color 740, CUPS+Gir	mp-Print v4.2.5

7. You can print a file to check whether the Print Server is installed successfully.



12. UPnP Setup

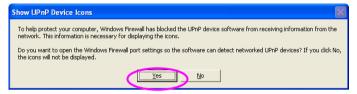
When the UPnP function is enabled, the print server can be detected by UPnP compliant system such as Windows XP. The print server will be displayed in the Neighborhood of Windows XP, so you can directly double click the print server or right click the print server and select "**Invoke**" to directly get into the web page of the print server for configuration.

T My Network Places	
Ele Edit View Favorites Iools Help	10
🔇 Back - 🐑 - 🏂 🔎 Search 🌔 Folders 🛄 -	
Address 🥞 My Network Places	💌 🛃 Go
Network Tasks Cold Network Add a network place. Cold Network Set up a hone or mail office network. Cold Network Set up a hone or small office network. Cold Network Set up a weeks network for a hone or small office Week workgroup concepters Public Network Hole works Network of protectioned Umpir/devices	
Other Places Desire Places My Computer My Computer My Computer Sward Documents Sward Places	
Details	

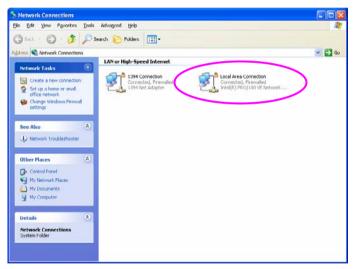
	Current system settings	of the print server.		
	System Information			
	Device Name: Print Server Name:	PSca519/ PSca519/	Raw Printing:	Enabled Enabled
Printer		SP766W	IPP Printing:	
- united	Model Type: System up time:		LPR Printing: Bonjour:	Enabled Disabled
TCP/IP	Firmware Version:	0day:00h:15m:29s 1.25	AppleTalk Printing:	Disabled
	MAC Address:	00:00 b4 ca 51:9f	NetWare Printing:	Enabled
SMB	USB Port Number:	00.00.04.08.51.8	SMB Printing:	Enabled
SNMP	LPT Port Number:	-	SNMP:	Enabled
arear.	Wireless Lan Status:	Disabled	Teinet:	Enabled
NetWare	wireless Lan Status:	Existenced	NetBEUI Printing:	Enabled
	12		UPnP:	Disabled
AppleTalk			UPHP.	LASEDIOU
Boniour				

Enable UPnP in Windows XP SP2

If you can't find the print server in the Neighborhood of Windows XP SP2 or you have seen the following message when you double click the print server. You have to check if UPnP function is blocked by the firewall. Please follow the steps below to enable it.



- 1. Click "**Yes**" on the above message or click "**Start**", choose "**Settings**" and select "**Network Connections**" to enable UPnP manually.
- 2. Right click the "Local Area Connection" and select "Properties".



3. In the "Local Area Connection Properties", select "Advanced" option menu and click "Settings".

👍 Local Area Connection Properties	?×
General Advanced	
Windows Firewall Protect my computer and network by limiting or preventing access to this computer from the Internet	
If you're not sure how to set these properties, use the <u>Network Setup Wizard</u> instead.	
ОК Са	ancel

4. The "Windows Firewall" screen will be popped up, select "Exceptions" option menu.



5. Enable "UPnP Framework" from the "Programs and Services list" and click "OK".

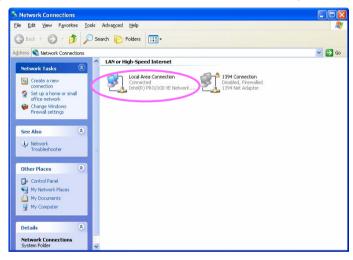
🗑 Windows Firewall 🛛 🛛 🗙
General Exceptions Advanced Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.
Programs and Services:
Name
 MFP Driver MFP Driver Print Server Utility Print Server Utility Print Server Utility Remote Assistance Remote Desktop Remote Virtual USB Client Skype UPnP Framework
Add Program Add Port Edit Delete
Display a notification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK Cancel

13. Windows XP SP2 Setup

In Windows XP SP2, XP SP2's firewall would block the unknown communication. This print server has allowed the communications data passed through the XP SP2's firewall.

In case that you do not find any print server listed on the "Available Ports" in "Network Ports Quick Setup", please follow the steps below.

- 1. Click "Start", choose "Settings" and select "Network Connections".
- 2. Right click "Local Area Connection" and select "Properties".



3. Select "Advanced" tab and click "Settings...".



4. Select "Exceptions" tab and click "Add Program...".

🖗 Windows Firewall	×
General Exceptions Advanced	
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.	
Programs and Services:	
Name	
File and Printer Sharing	
Remote Assistance	
Remote Desktop UPoP Framework	
Add Program Add Port Edit Delete	
Display a notification when Windows Firewall blocks a program	
What are the risks of allowing exceptions?	
OK Cancel	

5. Click "Browse" to add a new program.

Add a Program	×
To allow communications with a program by adding it to the Exceptions lis select the program, or click Browse to search for one that is not listed.	t
Programs:	
Admin Utility	
(a) Configuration	
Vertex Ve	
🝘 Internet Backgammon	
Internet Checkers	
🥌 Internet Explorer	
🧽 Internet Hearts	
🥏 Internet Reversi	~
Path: C:\Program Files\Internet Camera\admin\admi Browse.	
Change scope OK Cancel	

6. Open the "**NPUtil**" file from "**C:\Program Files\PrintServer Utilities**" (where C:\ is the system drive).

Browse						? 🔀
Look jn:	🗀 PrintServer Ut	ilities	<u>~</u> () 🕫 🛙	• 🔝 🕈	
My Recent Documents Desktop My Documents My Computer	Ci NetWare WebDESK Admi VinUtil VIPUtil Remote Ci Uninstall	nistrator				
	5 1	NDUR				
	File <u>n</u> ame:	NPUtil				<u>O</u> pen
My Network	Files of type:	Applications (*.exe;*.com;*.ic	d)		~	Cancel

7. A new program "**Network Ports Quick Setup**" is displayed in the list, click "**OK**".

Add a Program	×
To allow communications with a program by adding it to the Exceptions list, select the program, or click Browse to search for one that is not listed.	
Programs:	
🥌 Internet Explorer 🛛	
🐲 Internet Hearts	
🥥 Internet Reversi	
🚑 Internet Spades	
Minesweeper	
MSN Explorer	
Network Ports Quick Setup	
🔄 Outlook Express	
September 2	
PrintServer Configuration	
	<u>1</u>
Path: C:\Program Files\PrintServer Utilities\NPUtil.ex Browse	
Change scope OK Cancel	

8. Click "**OK**". You have completed the setting. The Windows XP SP2 will allow the incoming network connections activated by the program.

🖗 Windows Firewall 🛛 🛛 🗙
General Exceptions Advanced
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.
Programs and Services:
Name
☐ File and Printer Sharing
✓ ✓ Network Ports Quick Setup
Remote Assistance
Add Program Add Port Edit Delete
Display a notification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK Cancel

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