

USB-PRINTER WIRELESS LAN PRINTSERVER

(DN-13014-2)



Manual

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- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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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.

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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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Contents

1.	INTF	RODUCTION1
	1.1	Product Introduction2
	1.2	Product Package 3
	1.3	Network Printing Architecture4
	1.4	 1.3.1 Print Server Network Functions
	1.5	Contents of the User's Manual 11
	1.6	Firmware & Printing Function13
2.	HAR	DWARE INSTALLATION14
3.	WIN	DOWS PEER-TO-PEER NETWORK
	3.1	System Architecture16
	3.2	Administrator Installation and Setup18
	3.3	Administrator Utilities
	3.4	Client Installation and Setup27
	3.5	Client Utilities
	3.6	3.5.1Network Ports Quick Setup333.5.2Remote Ports (Utility)35Windows Add Printer Procedure38
		3.6.1 Windows Vista and 7
4.	WIN	DOWS NT/2000/2003 NETWORK47
	4.1	System Architecture 48
	4.2	Windows NT/2000/2003 Server Installation and Setup . 49
	4.3	User Installation and Setup51
5.	NET	WARE NETWORK52
	5.1	System Architecture53
	5.2	NetWare 3.x/4.x/5.x Installation & Setup55

		5.2.1 Installation Using PCONSOLE	55
6.	UNIX	X SYSTEM NETWORK	59
	6.1	Introduction	60
	6.2	Enable Print Server's TCP/IP Support	61
	6.3	Setup Print Server's IP Address	62
		6.3.1 DHCP 6.3.2 BOOTP	
	6.4	6.3.2 BOOTP Verify Print Server's IP Address	
	6.5	Configure Remote LPD Printing on the Host	
7.	CON	IFIGURATION UTILITY	69
	7.1	Introduction	70
	7.2	Search for All Available Print Server	72
	7.3	Status of Print Server	73
	7.4	Setup the Print Server	75
	7.5	General Configuration	77
	7.6	TCP/IP Configuration	78
	7.7	Netware Print Server Configuration	80
	7.8	AppleTalk Configuration	81
	7.9	SNMP Configuration	82
	7.10	SMB Configuration	83
	7.11	System Configuration	84
	7.12	Wireless Configuration	87
	7.13	Wizard	98
	7.14	Report	103
8.	WEB	B MANAGEMENT	104
	8.1	Introduction	105
	8.2	Login	106
	8.3	Device Status	107
		8.3.1 System8.3.2 Printer	

		8.3.3 TCP/IP	109
		8.3.4 SMB	
		8.3.5 SNMP	
		8.3.6 NetWare	
	0.4	8.3.7 AppleTalk	
	8.4	Setup Wizard	
		8.4.1 System	
		8.4.1.1 Advanced Settings	
		8.4.2 Wireless.8.4.2.1 General Setting.	
		8.4.2.2 Encryption	
		8.4.2.3 Site Survey	
		8.4.3 TCP/IP	
		8.4.4 SMB	126
		8.4.5 SNMP	
		8.4.6 NetWare	
		8.4.7 AppleTalk	
	0.5	8.4.8 Save Settings	
	8.5	System Tools	131
		8.5.1 Load Default	
		8.5.2 Upgrade Firmware from Browser	132
9.	IPP I	PRINTING	133
	9.1	Introduction	134
	9.2	System Setup	135
		9.2.1 Print Server Side	135
		9.2.2 Client Side	135
10.	LPF	R PRINTING	140
	10.1	Introduction	141
	10.2	Standard LPR Settings in Windows XP	142
	10.3	Standard LPR Settings in Windows Vista and 7	149
	10.4	C	
		10.4.1 MAC 10.4.x	
		10.4.2 MAC 10.3.x	
	\ A/I		460
11.	V V I I	NDOWS XP SP2 SETUP	

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 802.11n/g/b wireless LAN (up to 300Mbps data transfer rate), an Ethernet network port (10/100Mbps Ethernet) and one print port for printer.

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 98SE/Me/NT/2000/XP/2003/Vista/7, 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:

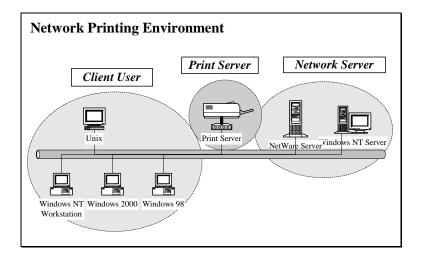
- One Print Server
- One Antenna
- One Power Adapter
- One Quick Installation Guide
- One CD-ROM (Including all the software utilities, drivers and User's Manual)

1.3 Network Printing Architecture

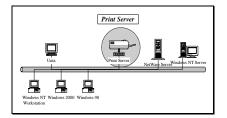
This section illustrates how print server functions and operates on the network. Before you install and use print server, it is strongly recommended that you read this section completely, and select only the chapters you need according to your network operating system by "Contents of the User's Manual"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

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

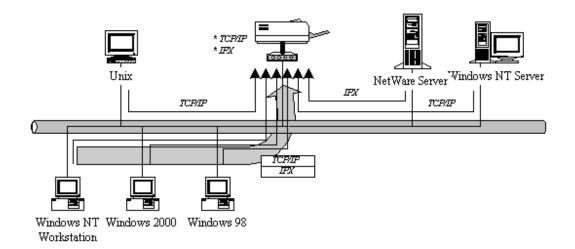
- Print Server
- Client User
- Network Server (optional)



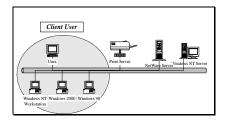
1.3.1 Print Server Network Functions



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.



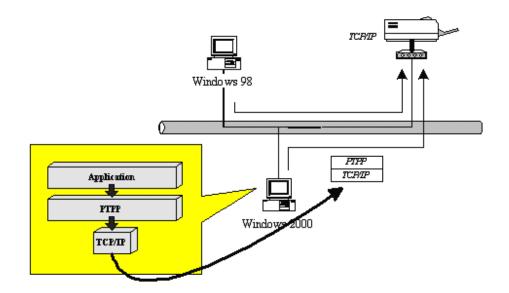
1.3.2 Network Printing Functions for Clients



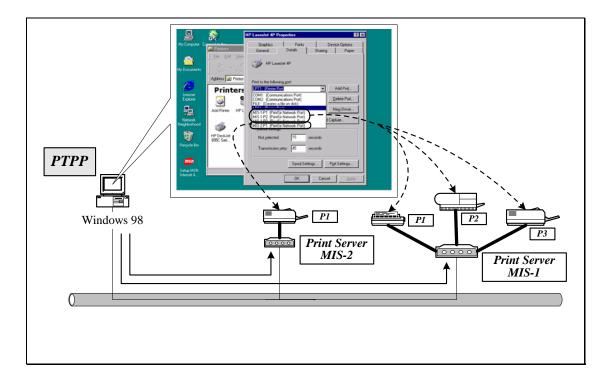
Common operating systems for clients are classified as following:

Windows 98SE/Me/NT/2000/XP/2003/Vista/7

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows 98SE/Me/NT/2000/XP/2003/Vista users. PTPP (Peer-to-Peer Printing) supports TCP/IP protocol.



In the client installation procedure, after PTPP (Peerto-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).



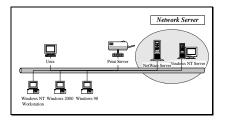
UNIX / Linux

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

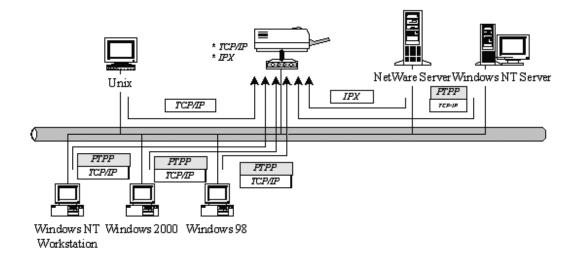
In NetWare environment, print server offers various printing modes like print queue, remote printer, etc.

1.4 Network Printing Environment

Common network environment are classified as following:

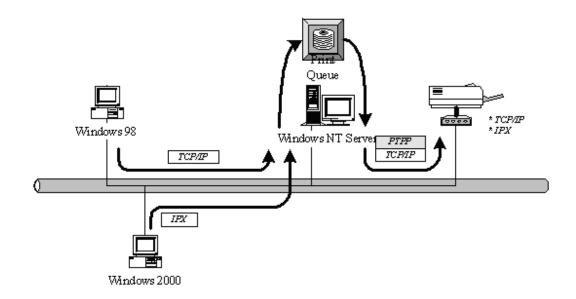
Windows Peer-to-Peer Network

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

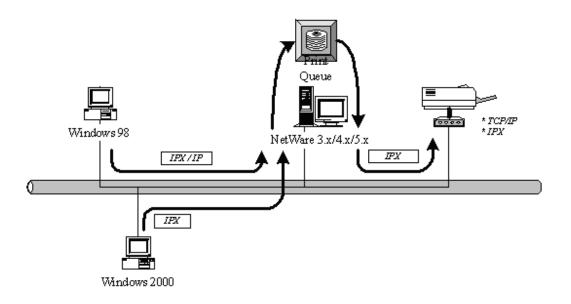


Windows NT/2000/2003 Network

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 Network

Chapter 5. NetWare Network

Chapter 6. UNIX System Network

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

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

Chapter 9 introduces Print Server's IPP Printing function and setup procedure. The IPP Printing provides a convenient way to print documents across the Internet by the IPP protocol. Chapter 10 introduces Print Server's LPR Printing function and Windows XP/Vista/7 and MAC OS 10.x standard setup procedures. The LPR Printing (Line Printer Remote technology) allows users to connect to printers via TCP/IP for printing sharing.

Chapter 11 introduces how to deal with the problem that if you can't find any print server listed on the "Available Ports" in "Network Ports Quick Setup" in Windows XP SP2.

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.

4. 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 Status and Ready LEDs will be on. When the LEDs are unlighted, the print server is ready.

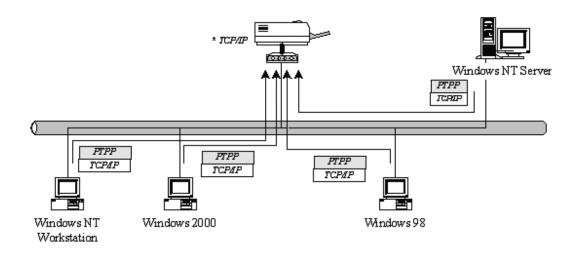
NOTE1: MUST use the power adapter shipped with the print server, do NOT use any other power adapter from any sources.

NOTE2: To prevent the compatibility problem between print server and a few printer, 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 (Peerto-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

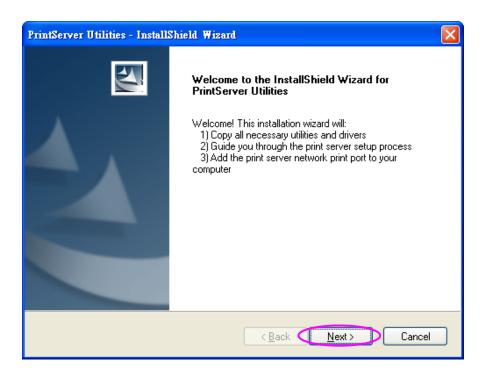
The Administrator Installation can be performed on Windows 98SE/Me/NT/2000/XP/2003/Vista/7 with the same user interface. Before the installation, please verify that your network protocol is installed on your PC (TCP/IP, IPX and/or NetBEUI). It will be helpful in your installation process.

1. Insert 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 "Print Server Utilities" window will be displayed. Click "Next".



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

PrintServe	r Utilities - InstallShield Wizard		×
	estination Location Ider where setup will install files.		1
	Install PrintServer Utilities to: C:\Program Files\PrintServer Utilities	Change	
InstallShield –		< Back	9

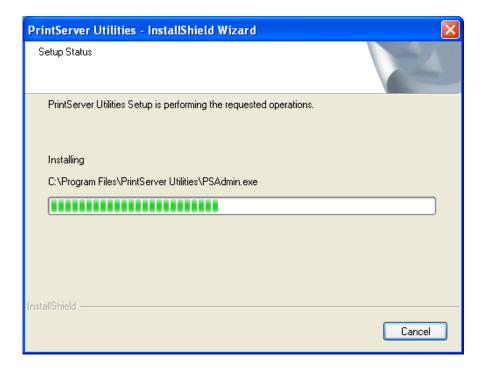
5. Select the components you want to install. It is highly recommended to install all provided components. Click "Next" to continue.

PrintServer Utilities - InstallShield Wizard	
Select Components Select the components setup will install.	
Select the components you want to install, and deselect t install.	he components you do not want to Description This section will install PrintServer Network Driver
3.95 MB of space required on the C drive 1053.96 MB of space available on the C drive InstallShield < <u>B</u> ac	k Next > Cancel

6. Click "Install".

PrintServer Utilities - InstallShield Wizard	X
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	_
< <u>B</u> ack Install Cancel]

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".

Print Server List	×
Choose print server PS256002	
	If the Print Server is installed for the first time, the "Print Server Name" is the last 6 digit of
	MAC ID of the Print Server with a "PS" prefix
	Refresh
	< Back Next > Cancel

- 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".

Name the Print	Server 🔀
Device name :	PSCA82F3 The unique serial number of the print server
Alias Name :	PS256002 An alternative name for easy management
	< Back Next > Cancel

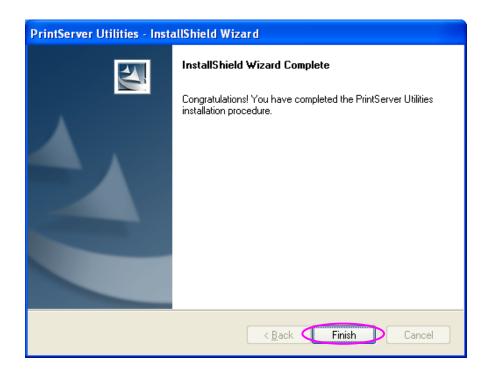
10. Specify the IP Address for the Print Server manually or click "Next" to keep default IP Address, i.e. 192.168.2.2.

Network Protocol and IP Address Configuration	X
IFX/NetBEUI This print server supports IFX/NetBEUI network protocols.	
C Assign the Print Server an IP address IP Address 192.168.2.2	
Don't change Configure the IP Address later.	
< <u>B</u> ack <u>N</u> ext > Cancel	

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.

Device Name :		Click "Finish", the program
Alias Name :	PS256002	will add the Network Port
IPX support :	Enable	of the Print Server to your
NetBEUI support :	Enable	PC automatically.
TCP/IP support :	Enable]
IP Address Assignment :	Manual]
IP Address :	192.168.2.2	

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



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

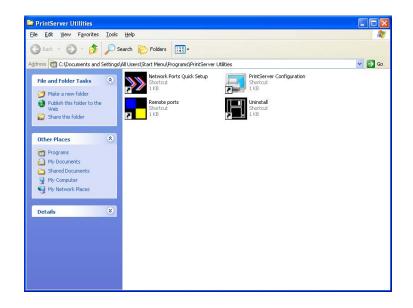
- Install all utilities and drivers to the administrator's PC.
- Configure the print server (including the print server name and network protocol)
- Add the network port of the print server to the administrator's PC.

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.
- Print Server Configuration 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

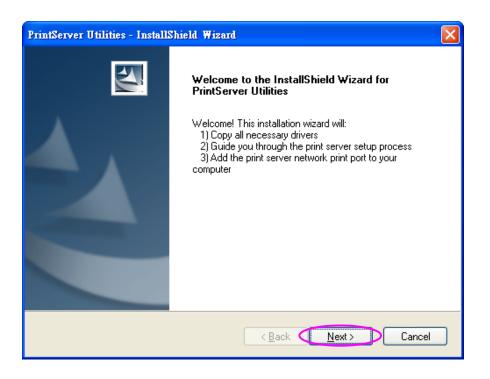
The Client Installation can be performed on Windows 98SE/Me/NT/2000/XP/2003/Vista/7 with the same user interface. Before the installation procedure, please confirm that your PC has connected to the network and installed at least one network protocol.

1. 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".



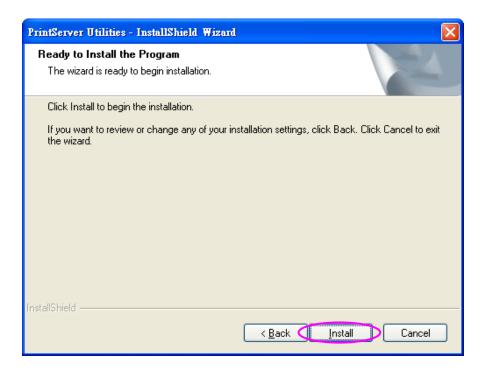
3. The "Print Server Utilities" window will be displayed. Click "Next".



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

PrintServe	r Utilities - InstallShield Wizard		
	estination Location Ider where setup will install files.		
	Install PrintServer Utilities to: C:\Program Files\PrintServer Utilities		Change
InstallShield –		Back	ext > Cancel

5. Click "Install"

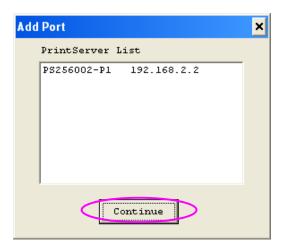


6. The system will start to install the utilities automatically.

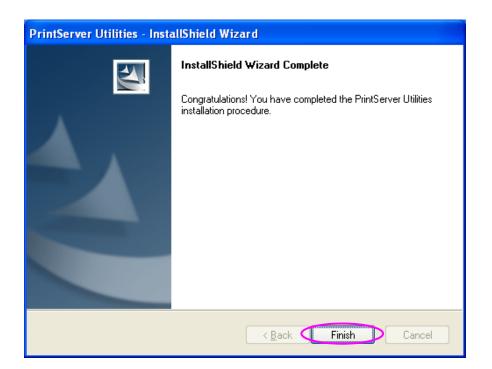
PrintServer Utilities - InstallShield Wizard	
Setup Status	P.
PrintServer Utilities Setup is performing the requested operations.	
Installing	
C:\Program Files\PrintServer Utilities\CONFIG.INI	
InstallShield	
	Cancel

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".

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.



8. 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.

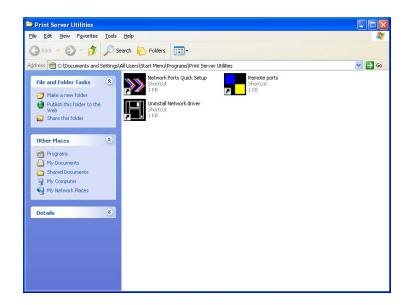
You can then perform the Windows' standard "Add Printer" procedure to add network printers to your PC. Please refer to Section 3.6.

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	
	1	Print to the following port(s). Documents will print to the first free checked port.	
Add Port 🗙		Port Description Printer	^
PrintServer List PS256002-P1 192.168.2.2	-	COM1: Serial Port COM2: Serial Port COM3: Serial Port COM4: Serial Port FILE: Print to File P2256002:P1 Print Server Network HP LaseJet Add Port Delete Port Configure Port	ort
Continue		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	3.1	X
Available Ports	Chosen Ports	
	PS256002-P1	ОК
	>>>	Cancel
	<	
	<u> </u>	
Refresh	Configure Port C Auto C IPX C TCP Queue	P 🔿 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.

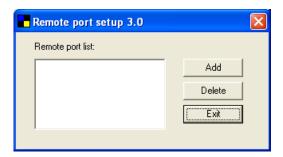
Select the network ports in the "Available Ports" list and click ">" to add ports. If you want to add all available ports, please click ">>". To cancel some of the network ports or all ports from the "Chosen Ports" list, please click "<" or "<<".

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:

Step1. Run Remote Ports Utility. Clicks "Add" to add a remote print port.



Step2. Enter print server's name, IP address, select used ports, and enter LPR queue name of each port. Click "Ok".

Create remote port	X
Print Server Name :	OK
IP Address :	Cancel
Port	

Step3. 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 I	Properties	? 🔀			
General Sharing	Ports Advanced Devi	ce Settings			
HP La	HP LaserJet				
Print to the follow checked port.	ing port(s). Documents will pr	int to the first free			
Port	Description	Printer 🔼			
U WH3-P1	PrintServer Network				
WH3-P2	PrintServer Network				
U WH3-P3	PrintServer Network				
Sales-P1-P	1 PrintServer Network				
SNAGIT7	Local Port	Snaglt 7 📃			
□ IR	Local Port	~			
<		>			
Add Port	Delete Port	<u>C</u> onfigure Port			
Enable bidirectional support					
Enable printer pooling					
C Enders printer pooling					
	ОК	Cancel Apply			

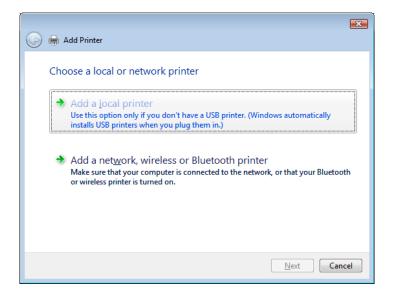
3.6 Windows Add Printer Procedure

After adding a "Network Port" of the print server to your PC by Administrator or Client Installation Program, you can follow the procedures described in the following sections to add printer to the Windows.

3.6.1 Windows Vista and 7

The following "Add Printer" steps are running in Windows Vista or 7.

- 1. Click "Start", select "Settings\Printers".
- 2. Click "Add a Printer".
- 3. The "Add Printer" wizard is displayed. Select "Add a local printer".



4. Choose the suitable printer port which was created by the installation process and click "Next".

) 🖶 Add Printer	•
Choose a printer po	rt
A printer port is a type of co printer.	nnection that allows your computer to exchange information with a
Use an existing port:	PScab0d7-P1 (Standard TCP/IP Port)
Oreate a new port:	
Type of port:	Local Port 👻
	Next Cancel

5. Select the 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	×
Install the printer driver	
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]
HP	
infotec	
Konica 👻 🖼 HP LaserJet 1015 👻	
This driver is digitally signed. <u>Windows Update</u> Tell me why driver signing is important]
Next Cancel	

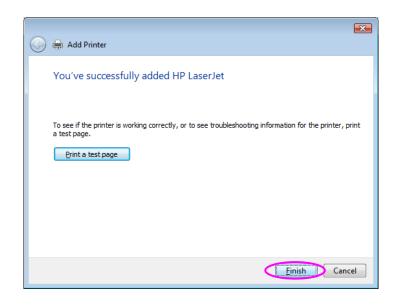
6. Name your printer and set the default printer, click "Next".

G	🖶 Add Printer		
	Type a printer	name	
	Printer name:	HP LaserJet	
		Set as the <u>d</u> efault printer	
	This printer will be in	stalled with the HP LaserJet driver.	
			Next Cancel

7. The printer drivers are being installed.

🍚 🖶 Add	Printer	×
	Installing printer	

8. It is recommended to print a test page. Click "Finish".



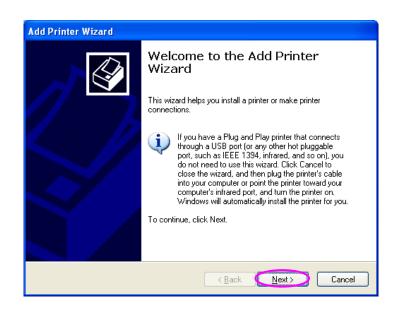
9. The printer is added to "Printers" page, you have added the printer to your computer successfully. Now you can start to print from your computer to the print server.

🔾 🗢 💀 🕨 🖉 Control 🖡	Panel > Printers • •	Search		م
🎍 Organize 👻 🏢 Views		_	_	2
Favorite Links Documents Pictures Music Recently Changed Searches	Name Fax HP LaserJet Microsoft XPS Document Writer	Documents 0 0	Status Ready Ready Ready	Commer
Folders ^	<			Þ

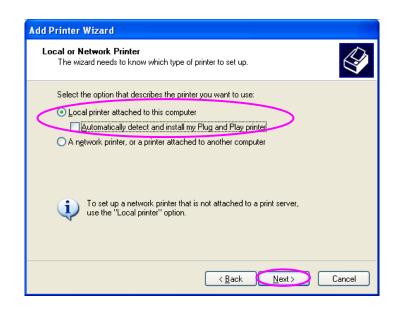
3.6.2 Windows XP

The following "Add Printer" steps are running in Windows XP, the steps in other Operating Systems such as Windows 98SE/Me/2000 are similar.

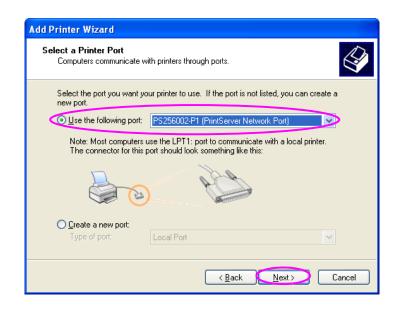
- 1. Click "Start", choose "Settings" and select "Printers and Faxes".
- 2. Click "Add a Printer".
- 3. The "Add Printer Wizard" is displayed. Click "Next".



4. 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".



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



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 d	letermine which printer software to use.
	I model of your printer. If your printer came with an installation r printer is not listed, consult your printer documentation for
Manufacturer 🔼	Printers 🔼
Generic Gestetner	HP LaserJet IIP Plus
HP	W HP LaserJet IIP PostScript Cartridge v52.2
IBM infotec 🔍 🔍	W HP LaserJet Plus
This driver is digitally signed.	Windows Update Have Disk.
	<back cancel<="" next="" td=""></back>

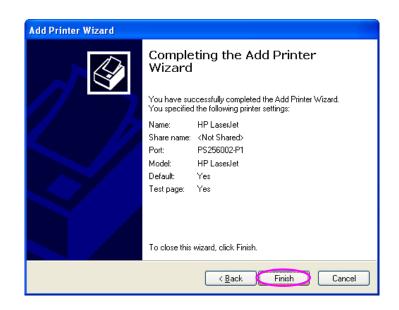
7. Name your printer and setup the default printer, click "Next".

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. <u>Printer name:</u> <u>HP LaserJet</u>
Do you want to use this printer as the default printer? ⊙Yes ○No
<u>ABack</u> <u>Next</u> Cancel

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

Add Printer Wizard
Print Test Page To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page? ⊙ Yes ⊙ No
< <u>B</u> ack <u>Next</u> Cancel

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

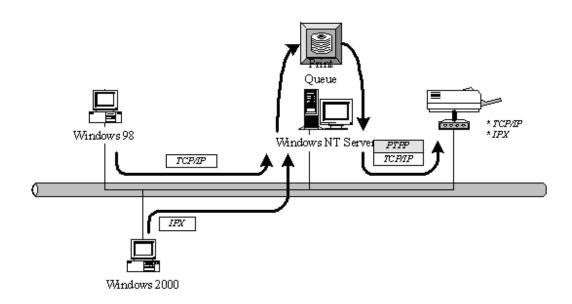


Now you can start to print from your PC to the print server.

4. Windows NT/2000/2003 Network

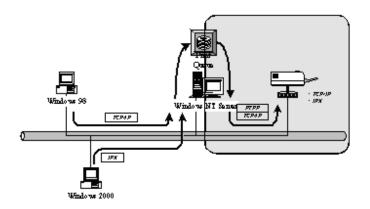
4.1 System Architecture

In Windows network environment, other than the Peerto-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.

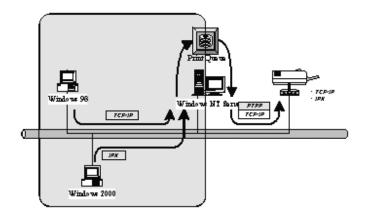
Step2.

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.

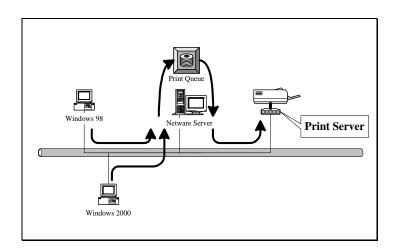
Add Printer Wizard	
	How is this printer attached to your computer? If it is directly attached to your computer, click Local Printer. If it is attached to another computer, click Network Printer C Local printer C Network printer
	< <u>B</u> ack Next > Cancel

5. NetWare Network

5.1 System Architecture

We implement 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.
- 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".

NetWa	re Print Console V3.75 User SUPERVISOR (Friday July 31, 1998 5:14 On File Server SERVER Connection 2
ſ		n .
÷	Print Queues	vailable Options ge Current File Server t Queue Information
		ueue Name: P\$30100C_Q1

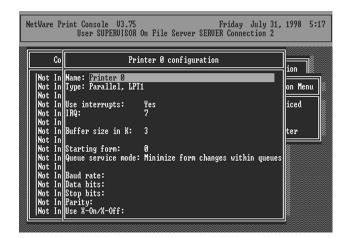
6. You have now successfully created the print queue that your print server will serve. Press the Escape

key until the Available Options main menu is displayed.

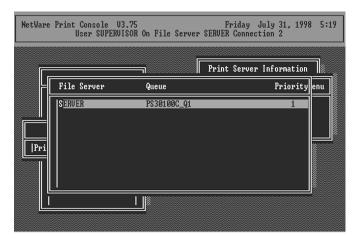
- 7. Select Print Server Information.
- 8. Press the Insert key to add a new NetWare print server object. The print server name can be identical to the PSxxxxxx name printed on the label of the print server.

NetWa	e Print Console U3.75 Friday July 31, 1998 User SUPERVISOR On File Server SERVER Connection 2	5:15
F		
	Print Servers	
	vailable Options	
	ge Current File Server	
	New Print Server Name: PS30100C	
Ľ		

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



- 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.



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

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

mkdir /var/spool/lpd/pserverd chown daemon /var/spool/lpd/pserverd chgrp daemon /var/spool/lpd/pserverd chmod 775 /var/spool/lpd/pserverd

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

printer-name:\
:lp=:\
:rm=203.66.191.186:\
:rp=lpt1:\
:If=/var/spool/Ipd/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.

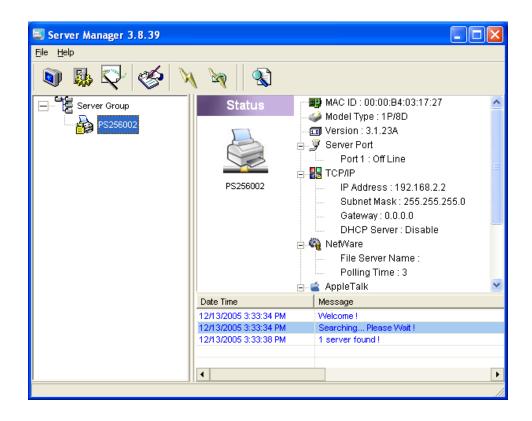
The Configuration Utility provides the following configuration and management functions:

- 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.

- 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.

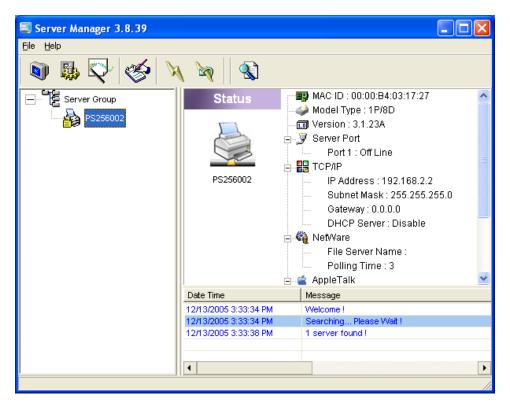
7.2 Search for All Available Print Server



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



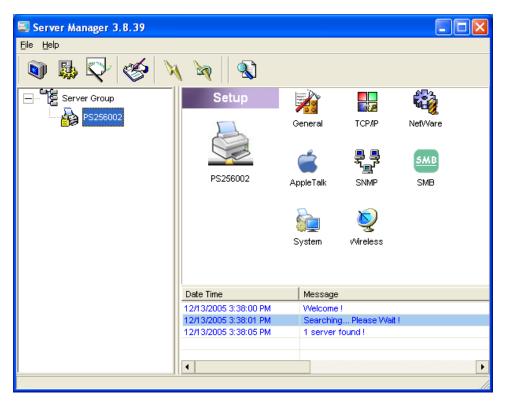
Click "Status" icon on the tool bar, the status of the current selected print server will be showed on the right side of the window.

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 won on 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

Login - PS256002	×
User Name : admin	
Password : **** Login Cancel	

7.5 General Configuration

General - PS256	002	×
	General	
General Settings-	Device Info	_
	MAC ID : 00:00:B4:03:17:27 Type : 1P/8D Version : 3.1.23A Port No : 1	
	Server Name : PS256002	
🔲 Set User Na	ne/Password	
🔍 User Na	ame: Password:	
U #	Retype Password :	
	Save Cancel	

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 "Server 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 - PS2560	002	
	TCP/IP	
TCP/IP Settings		
	IP DHCP Server	
T P	C Auto IP 🙃 Static IP	
	IP Address : 192 168 2 2	
	Subnet Mask : 255 255 255 0	
	Gateway: 0 0 0	
	SaveCar	icel

TCP/IP - PS25600	2					
	тс	P/IP				
TCP/IP Settings						
	IP DHCP Server					
TP	C Auto C E	nable	•)isable		
	Starting Address :	0	0	0	0	
	Range :	0				
	Subnet Mask :	0	0	0	0	
	Gateway :	0	0	0	0	
	DNS :	0	0	0	0	
				Save	Cano	el

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" and "DNS". The print server will assign a unique IP for each client.

7.7 Netware Print Server Configuration

NetWare - PS256002	<
NetWare	
Net/Vare Settings	1
Polling Time : 🔋 🕂 (Sec.)	
File Server to be serviced NetWare Server :]
SaveCancel]

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.

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

7.8 AppleTalk Configuration

AppleTalk - PS256002		×
	AppleTalk	
AppleTalk Settings		
2	Zone Name :	
Printer Type		
Port 1 :	LaserWriter	
Port 2 :	LaserWriter	
Port 3 :	LaserWriter	
	Save Car	ncel

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 SNMP Configuration

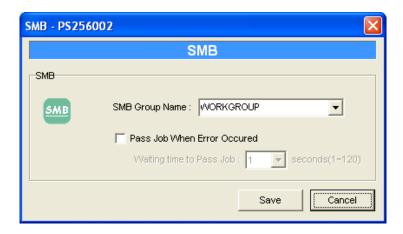
SNMP - PS256	002	×
	SNMP	
SNMP	Contact :	
	Save Cancel	

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.

7.10 SMB Configuration



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.

7.11 System Configuration

System - PS2560	02
	System
-System Settings	 Enable Appletalk Printing Enable Bonjour Printing Enable LPR Printing Enable NetWare Binary Printing Enable TCP RAW Printing Enable IPP Printing Enable IPP Printing Enable SMB Enable SNMP Enable NetBEUI
Update :	Upgrade
	Function : Auto C Enable C Disable FCC (1-11)
	Save

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

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

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.

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

Load Default: If you want to reset the Print Server to default factory settings, please click "Load Default".

Wireless Function: You can select "Auto", Enable" or "Disable" to manually configure the wireless function.

Auto – "Auto" is the default setting of the print server. At this mode, the print server will automatically decide to enable or disable the wireless function. 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 this is the case, the print server will run in Ethernet mode. If the print server is not connected to an active network by Ethernet cable, the print server will run in wireless LAN mode.

Users can plug the Ethernet cable to the print server at the first, after configuring the print server features and wireless settings; they can unplug the Ethernet cable to enable the wireless connection. It makes the configuration much easier without creating the wireless connection in advance.

Note: After you have set the wireless function, please remove the Ethernet cable and then re-plug the power jack of the print server to activate the wireless connection.

Enable – Enable wireless function only, the print server's wireless LAN will be always enabled and Ethernet will be always disabled.

• Disable – Disable the wireless function, the print server's wireless LAN will be always disabled and Ethernet will be always enabled.

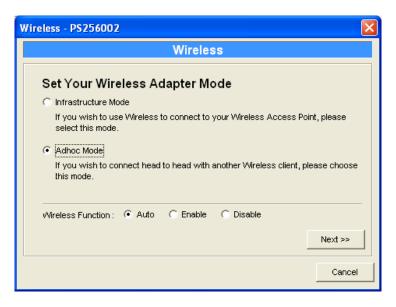
Domain Country: The wireless channels are different from country to country. Generally, the channels are from 1 to 11 in USA and from 1 to 13 in Europe. The operating channel will be set to the print server before importing. If you are in different country, please make sure you have set the available channels according to your location.

7.12 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".

For the "Wireless Function" setting, you can select "Auto", Enable" or "Disable" to manually configure the wireless function of the print server.

Auto – "Auto" is the default setting of the print server. At this mode, the print server will automatically decide to enable or disable the wireless function. 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 this is the case, the print server will run in Ethernet mode. If the print server is not connected to an active network by Ethernet cable, the print server will run in wireless LAN mode.

Users can plug the Ethernet cable to the print server at the first, after configuring the print server features and wireless settings; they can unplug the Ethernet cable to enable the wireless connection. It makes the configuration much easier without creating the wireless connection in advance.

Note: After you have set the wireless function, please remove the Ethernet cable and then re-plug the power jack of the print server to activate the wireless connection.

Enable – Enable wireless function only, the print server's wireless LAN will be always enabled and Ethernet will be always disabled.

• Disable – Disable the wireless function, the print server's wireless LAN will be always disabled and Ethernet will be always enabled.

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

Infrastructure Mode:

Wireless - PS256002	×
Wireless	
Connect to Your Wireless Network	
 Scan For Your local Wireless Network Let the Wizard automatically scan for your Wireless Network(SSID) 	
C Assign Your Wireless Network Manually	
<< Back Next >>	
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	
Wireless Ne	twork Name(SSID)	
SSID	BSSID	Channel
frank	00:0E:2E:41:23:4C	11
th	ease scan and select the name of your e list above. you do not see your Wireless Network p	
	our Wireless Network is setup correctly	
	<	< Back Next >

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:

Vireless - PS256002
Wireless
Connect to your wireless Network
C Scan For Your local Wireless Network
Let the Wizard automatically scan for your Wireless Network(SSID)
 Assign Your Wireless Network Manually default Enter your own Wireless Network ID (SSID)Manually
Channel Selection
C Auto
Manual 11 << Back Next >>
Cancel

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	×
	Wireless	
Wireless	s Network Name(SSID)	
SSID	BSSID Char	nel
frank	00:0E:2E:41:23:4C 11	
Scan	Please scan and select the name of your Wireless N the list above. If you do not see your Wireless Network please che your Wireless Network is setup correctly and re-sc	ck to see if
	<< 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	
Wireless Security(WEP)	
Security Mode : Disable	If you wish to activate (WEP)
Disable WEP(ASCII)	wireless security or your wireless network is already
WEP(HEX)	running wireless security you may configure your settings
€ WPA-shared key	here. (Note)All Wireless Device:
Key 1:	on your network must use the same WEP key to function
C Key 2:	correctly.
С Кеу 3:	
C Key 4:	<< Back Next >>
ess - PS256002 Wireless	Cance
Wireless	Cance
Wireless Security	
Wireless Wireless Security Security Mode : Disable	If you wish to activate wireless security or your wireless
Wireless Wireless Security Security Mode : Disable	If you wish to activate wireless
Wireless Wireless Security Security Mode: Disable MERK(SSCI)	If you wish to activate wireless security or your wireless network is already running wireless security you may configure your settings here.
Wireless Wireless Security Security Mode : Disable PassPhrase WEP(ASCII) WEP(HEX) © WPA-None	If you wish to activate 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 sam
Wireless Wireless Security Security Mode : Disable PassPhrase WEP(ASCII) WEP(HEX)	If you wish to activate wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on
Wireless Wireless Security Security Mode : Disable PassPhrase WEP(ASCII) WEP(HEX) (• WPA-None	If you wish to activate 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 sam
Wireless Wireless Security Security Mode : Disable PassPhrase WEP(ASCII) WEP(HEX) © dWPA-None Key 1 : C Key 2 :	If you wish to activate 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 sam

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" or "WPA-None" specified for Ad Hoc mode. The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

less - PS256002 Wireless		
Wireless		
Wireless Security(WEP)		
Security Mode : MEP(ASCII)	If you wish to activate (WEP)	
	wireless security or your wireless network is already	
PassPhrase	running wireless security you may configure your settings	
€ 64 bit C 128 bit	here. (Note)All Wireless Device on your network must use the	s
• Key 1 :	same WEP key to function correctly.	
C Key 2:	concelly.	
C Key 3:		
C Key 4:	<< Back Next >>	
less - PS256002	Cano	e
less - PS256002 Wireless		el
		el
Wireless	If you wish to activate (WEP)	el
Wireless Wireless Security(WEP) Security Mode : WEP(HEX)	If you wish to activate (WEP) wireless security or your wireless network is already	el
Wireless Wireless Security(WEP)	If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings	
Wireless Wireless Security(WEP) Security Mode : WEP(HEX) PassPhrase 6 4 bit C 128 bit	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 Device on your network must use the	
Wireless Wireless Security(WEP) Security Mode : WEP(HEX) PassPhrase 6 64 bit 128 bit Key 1 :	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 Device	
Wireless Wireless Security(WEP) Security Mode : WEP(HEX) PassPhrase 6 4 bit C 128 bit	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 Device on your network must use the same WEP key to function	
Wireless Wireless Security(WEP) Security Mode : WEP(HEX) PassPhrase © 64 bit © 128 bit © Key 1 : © Key 2 :	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 Device on your network must use the same WEP key to function	
Wireless Wireless Security(WEP) Security Mode : WEP(HEX) PassPhrase 6 44 bit 128 bit Key 1 : Key 2 : Key 3 :	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 Device on your network must use the same WEP key to function correctly.	

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 13digit ASCII values as the encryption keys. For example: "01234567890123456789abcdef" or "administrator".

WPA-shared key or WPA-None Security Mode:

Wireless - PS256002	
Wireless	
Wireless Security(WEP)	
Security Mode : VVPA-shared key	If you wish to activate (WEP)
WPA Algorithms : TKIP TKIP Shared Key :	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 correctly.
	<< Back Next >>
-	Cancel

Wireless - PS256002	X
Wireless	
Wireless Security	
Security Mode : WPA-None	If you wish to activate wireless security or your wireless network is already running wireless security you may
WPA Algorithms : TKIP	configure your settings here. (Note)All Wireless Devices on your network must use the same key to function correctly.
Key:	
	< Back Next >>
	Cancel

"WPA-shared key" (for an infrastructure network) or "WPA-None" (enables WPA security for your ad hoc network) requires users to set the advanced encryption methods, i.e. TKIP 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.
- 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						×	
	Wireless						
Configure You	ır Ada	pters I	P Add	ress			
C Automatically O	btain IP S	ettins(DH	CP)				
Obtain your IP S (DHCP must be	-						
Set Your IP Mar	nually						
IP Address :	192	168	2	2			
Subnet Mask :	255	255	255	0			
Gateway :	192	168	2	254			
				<< Bac	sk .	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.



Click "Save" to save the wireless configuration.

7.13 Wizard

Elle Help		Print Server Setup Wizard
	Date Time	Message
	12/12/2005 2:54:50 PM	Welcome !
	12/12/2005 2:54:51 PM	Searching Please Wait !
	12/12/2005 2:55:00 PM	1 server found !
	12/12/2005 2:55:13 PM	Verification Successful!
1		[*

Click "Wizard" icon 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.

Step 1: Set up the name of this print server and select to enable or disable the wireless function.

Print Server Setup	Wizard - PS256002	×
General Sett	ings	
	Server Name : PS256002	
	Wireless Function :	
	Cancel Next >>	

Step 2: Select to enable required printing protocol. Please refer to section 7.11 for detail information.

System Settings Image: System Setting in the image of the	Print Server Setup Wiza	rd - PS256002	×
		S ✓ Enable Appletalk Printing ← Enable Bonjour Printing ✓ Enable LPR Printing ✓ Enable NetWare Binary Printing ✓ Enable TCP RAW Printing ✓ Enable IPP Printing	
<< Back Cancel Next >>			

Step 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 - PS2	56002				×
TCP/IP Settin	gs					
۹ ۲ ۲	C Auto IP		P			
	IP Address :	192	168	2	2	
	Subnet Mask :	255	255	255	0	
	Gateway:	192	168	2	254	
	[<< Bacl		Cancel	Ne	ext>>

Step 4: Setup the AppleTalk printing. Please refer to section 7.8 for detail information.

Print Server Set	up Wizard - PS2560002	×				
AppleTalk	Settings					
	Zone Name : 🔭					
	Printer Type					
	Port 1 : LaserWriter					
	Port 2: LaserWriter					
	Port 3: LaserWriter					
-	<< Back Cancel Next >>					

Step 5: Setup the NetWare printing. Please refer to section 7.7 for detail information.

Print Server Se	tup Wizard - PS2560002	×
NetWare	Settings	
	Polling Time : 3 (Sec.)	
	File Server to be serviced	
	NetWare Server :	
	<< Back Cancel Next >>	

Step 6: Select the Wireless Adapter mode and complete wireless LAN settings. The other procedures are the same with "Wireless" Setting in "Setup" screen. Please refer to section 7.12 for detail information.



Step 7: Click "Save" to finish setting. Please reboot the print server to let these settings take effect.

Setup Status Summa	ary	
Server		^
Name: PS256002		
Print Protocol		
AppleTalk Printing : Enable		
Bonjour Printing : Not Suppo	ort	
LPR Print : Enable		
NetWare Binary Printing : E	nable	
Raw Print : Enable		
IPP Print : Enable		
SMB: Enable		
SNMP: Enable		
NetBEUI : Enable		
IP Settings		~

7.14 Report

Device Name	MACID	Model Type	Version	Status
PS256002	00:00:B4:03:17:27	1P/8D	3.1.23A	
٢				

Click "Report" icon Son 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 the 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".



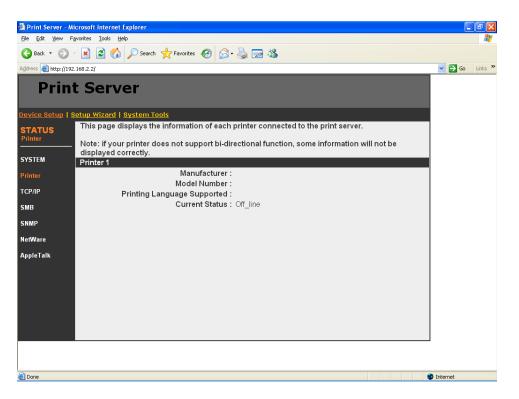
8.3 Device Status

8.3.1 System

	🕽 - 💌 🙆 🏠 🔎 Search 📌				
idress 🕘 http://	/192.168.2.2/				🚽 🔁 Go 🛛 Link
Drii	nt Server				
PIII	it Server				
vice Setup	<u>Setup Wizard</u> <u>System Tools</u>				
TATUS	This page displays the cu	irrent system settings	of the print server.		
YSTEM					
	System Information				
STEM	Device Name :	PS031727	Raw Printing :	Enable	
inter	Printer Server Name :	PS256002	IPP Printing :	Enable	
inter	Model Type :	1PW Print Server	LPR Printing :	Enable	
P/IP	Firmware Version :	3.1.23	AppleTalk Printing :	Disable	
	MAC Address :	00:00:B4:03:17:27	NetWare Printing :	Disable	
ЛB	USB Port Number :	No	SMB :	Disable	
IMP	LPT Port Number :	1	SNMP :	Enable	
	Wireless Lan Status :	Auto	NetBEUI :	Disable	
tWare	Wireless Configruation				
pleTalk	Mode :	Adhoc	ESSID :	00:00:00:00:00:00	
pieraik	Channel Number :	0	WEP :	Disable	
	Status :	Disconnected	BSSID :		
					1

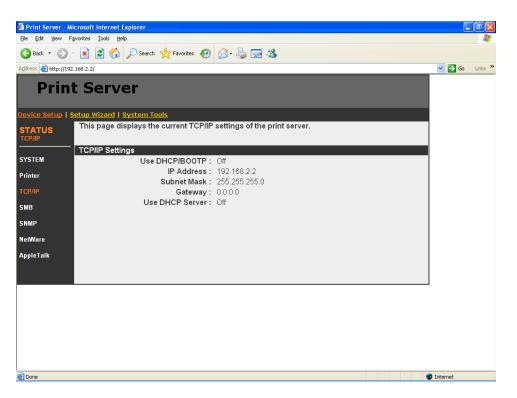
System Information includes "Device Name", "Print Server Name", "Model Type", "Firmware Version", "MAC Address", "Wireless LAN Configuration" and the protocols enabled status, etc.

8.3.2 Printer



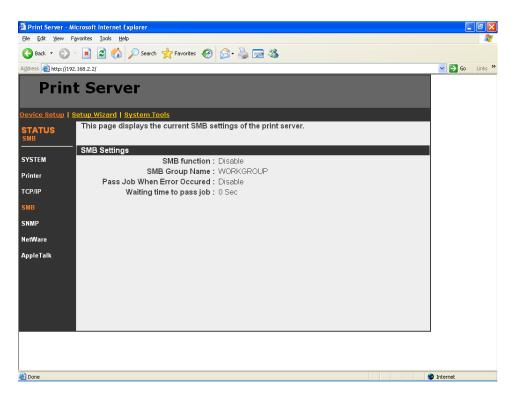
This page lists information of printers connected to all printer ports.

8.3.3 TCP/IP



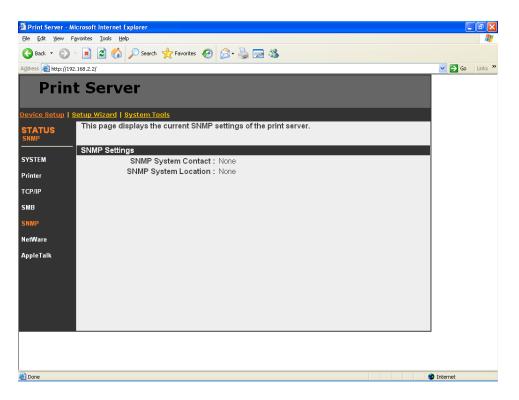
This page lists all TCP/IP settings of the print server including "IP Address", "Subnet Mask" and "Gateway". It also lists DHCP server setting.

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



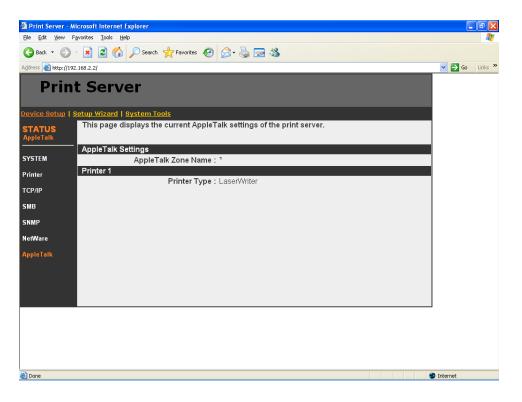
This page lists the SNMP settings of the print server. It includes the settings of "SNMP System Contact" and "SNMP System Location".

8.3.6 NetWare

🗿 Print Server - Mi	icrosoft Internet Explorer	_ 6 🗙
Eile Edit View Fi	avorites Iools Help	
Ġ Back 🔹 🛞	🔹 🗟 🏠 🔎 Search 👷 Favorites 🤣 🔗 - 🍓 🔜 🦓	
Address 🕘 http://192	.168.2.2/	🔽 🋃 Go 🛛 Links 🎽
Print	t Server	
Device Setup S	ietup Wizard <u>System Tools</u>	
STATUS NetWare	This page displays the current NetWare settings of the print server.	
	General Settings	
SYSTEM	Polling Time: 3 seconds	
Printer	NetWare Bindery Settings	
TCP/IP	Use Bindery Mode : Enable Name of the File Server :	
SMB	NetWare Port Settings	
	Port1 Attached Queue : Disconnected	
SNMP		
NetWare		
AppleTalk		
🙆 Done		Internet

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

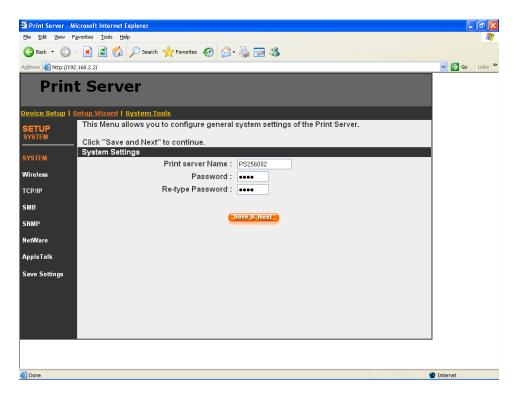
8.3.7 AppleTalk



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

8.4 Setup Wizard

8.4.1 System



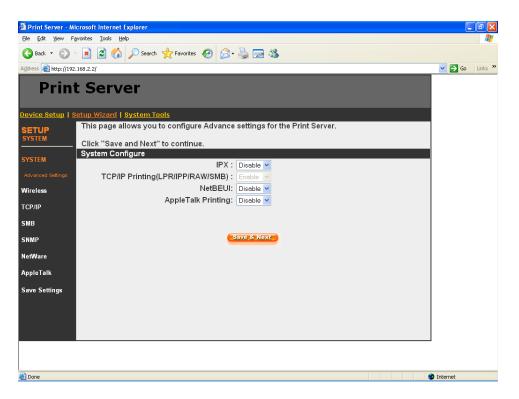
You can change the print server name and password of the print server from here.

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.

Password, enter the password you want to change to the print server. The password can be up to 7-digit alphanumeric format. The default password is "1234".

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

8.4.1.1 Advanced Settings



You can enable/disable the printing protocols from the screen. To enable the function, please select "Enable"; to disable the function, please select "Disable".

8.4.2 Wireless

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.

8.4.2.1 General Setting

Print	Server
<u>Device Setup S</u>	etup Wizard System Tools
SETUP	Define your ESSID, wireless mode channel no.
WIRELESS	Click Save and Next to continue.
SYSTEM	Wireless Setting
	Function: Auto
Wireless	Mode: Infrastructure
General Setting	ESSID: default
Encryption	Channel: 11 🗸
SiteSurvey	WPS Self PinCode : 66815143
, i i i i i i i i i i i i i i i i i i i	
TCP/IP	Registrar SSID :
SMB	Configure via PinCode : Start PIN
SNMP	
NetWare	Save & Next
	Save & Next
AppleTalk	
Save Settings	

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.

Wireless Setting

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

Auto – "Auto" is the default setting of the print server. At this mode, the print server will automatically decide to enable or disable the wireless function. 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 this is the case, the print server will run in Ethernet mode. If the print server is not connected to an active network by Ethernet cable, the print server will run in wireless LAN mode.

Users can plug the Ethernet cable to the print server at the first, after configuring the print server features and wireless settings; they can unplug the Ethernet cable to enable the wireless connection. It makes the configuration much easier without creating the wireless connection in advance.

Note: After you have set the wireless function, please remove the Ethernet cable and then re-plug the power jack of the print server to activate the wireless connection.

• Enable – Enable wireless function only, the print server's wireless LAN will be always enabled and Ethernet will be always disabled.

 Disable – Disable the wireless function, the print server's wireless LAN will be always disabled and Ethernet will be always enabled.

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 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 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.

Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS) is the latest wireless network technology which makes wireless network setup become very simple. If you have WPS-enabled wireless access point, and you want to establish a secure connection to it, you don't have to configure the wireless access point and setup data encryption by yourself. All you have to do is to go to the WPS setup page of this print server, click a button, and then press a specific button or enter a set of 8digit code on the wireless access point you wish to establish a secure connection - just three simple steps! This wireless print server is compatible with WPS. To use this function, the wireless access point you wish to connect to must support WPS function too. Now, please follow the following instructions to establish secure connection between WPS-enabled wireless access point you're your wireless network card.

Self Pincode is the Here displays the WPS pin code used to connect to WPS-enabled wireless access points. You have to input this number into the WPS enabled access point to establish WPS connection.

Configure via Push Button Click this button and this camera will enter PBC-style WPS connection state for 120 seconds. Please push 'Start PBC' button on the wireless access point you wish to connect within 120 seconds to establish WPS connection (The remaining time will be displayed on the button).

If connection can not be established after 120 seconds, you'll be prompted by a message box, and you can press 'Start PBC' button to try again

Registrar SSID type in the SSID of the AP you want to connect to.

Configure via PinCode If you have wireless access point's WPS PIN code, you can input it here and press 'Start PIN' button to start to establish PIN-style WPS connection.

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-PSK" (for an infrastructure network or "WPA-NONE" (enables WPA security for an ad hoc network). The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

🗿 Print Server - Mi	icrosoft Internet Explorer	- 7 ×
Eile Edit ⊻iew Fa	avorites Iools Help	
🚱 Back 🔹 🛞	🛛 📓 🏠 🔎 Search 📌 Favorites 🛛 🔗 🌭 🥁 📨 🖓	
Address 🕘 http://192	.168.2.2/	🖌 🛃 Go 🛛 Links 🎽
Print	t Server	
Device Setup S	etup Wizard System Tools	
SETUP WIRELESS	Encryption allows your data being transmitted over the wireless network securely.If this function is enabled, please make sure your wireless stations are using the same encryption keys as the Printer Server.	
SYSTEM	Click "Save and NEXT" to continue.	
Wireless	Encryption Setting Mode : WEP	
General Setting	Key length : 64-bit	
Encryption	Key format : Hex (10 characters) 🗸	
SiteSurvey	Passphrase: Generate	
TCP/IP	Enter a key into the table Default key : Key1 v	
SMB	Key1:	
SNMP	Key 2 : Reconcision	
NetWare	Key 3 : ********	
AppleTalk		
Save Settings	Save & Next	
) Done		Internet

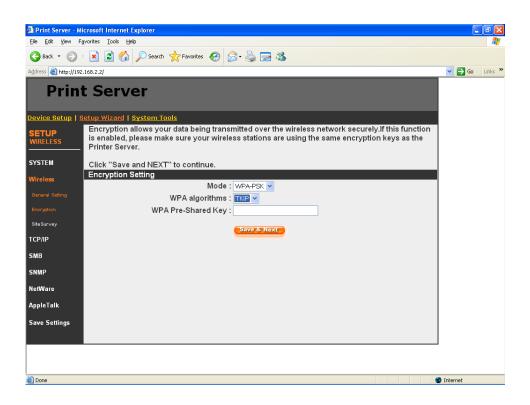
• Key Length – You can choose "64-bit" to use WEP with 64bit key length encryption or choose "128-bit" to use WEP with 128-bit key length encryption. The longer key length can provide better security but worse transmission throughput.

- 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.
- PassPhrase A passphrase 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-PSK Security Mode:



"WPA-shared key" (for an infrastructure network) requires users to set the advanced encryption methods, i.e. TKIP 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.
- WPA Pre-Shared Key Enter 8 to 63 digits of ASCII format to be the key for the authentication within the network.

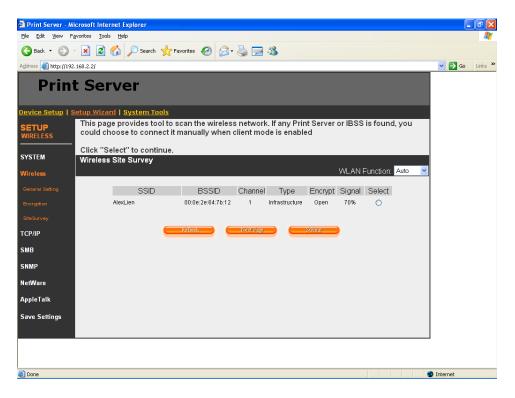
WPA2-PSK Security Mode:

🚰 Print Server - Mic	rrosoft Internet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> v	vorites Iools Help
🕞 Back 🔹 🛞 🕤	💌 😰 🏠 🔎 Search 👷 Favorites 🤣 🎯 - 😓 🖼 🦓
Address 🕘 http://192.3	168.2.2/
Print	Server
Device Setup Se	<u>etup Wizard</u> <u>System Tools</u>
SETUP	Encryption your data over the wireless network.
WIRELESS	Click Save and Next to continue.
	Encryption Setting
SYSTEM	Encryption mode: WPA2-PSK 🗸
Wireless	WPA algorithms: AES 🖌
General Setting	Pre-shared Key Format: Passphrase
	Pre-shared Key:
Encryption	Save & Next
SiteSurvey	
TCP/IP	
SMB	
SNMP	
NetWare	
AppleTalk	
Save Settings	

- Pre-Shared Key Format– Seles the type of pre-shared key, you can select passphrase (8 or more alphanumerical characters, up to 63), or Hex (64 characters of 0-9, and a-f).
- Pre-Shared Key –Enter 8 to 63 digits of ASCII format to be the key for authentication within the network.

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





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 use General Setting 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.

There is also a "WLAN Function" setting for you to setup Auto/Disable/Enable wireless function of the print server here. Please refer to section 8.4.2.1 to know more about the setting.

8.4.3 TCP/IP

🗿 Print Server - M	icrosoft Internet Explorer	- 7 ×
Eile Edit View F	avorites Iools Help	1
🚱 Back 🝷 🕥	- 🖹 🗟 🏠 🔎 Search 👷 Favorites 🤣 😥 - 🌺 🔜 🖓	
Address 🕘 http://192	.168.2.2/	🔽 🔁 Go 🛛 Links 🎽
Prin	t Server	
Device Setup S	Setup Wizard System Tools	
SETUP	This Menu allows you to configure TCP/IP settings for the Print Server.	
TCP/IP	Click "Save and Next" to continue.	
SYSTEM	TCP/IP Settings	
	O Enable Obtain TCP/IP settings automatically (use DHCP/BOOTP)	
Wireless		
General Setting	IP Address : 192.168.2.2	
Encryption	Subnet Mask : 255.255.255.0	
SiteSurvey	Gateway: 0.0.0	
TCP/IP	Print Server DHCP Server : Enable	
	Start IP: 0.0.0	
SMB	Range: 0	
SNMP		
NetWare	Subnet Mask : 0.0.0 Gateway : 0.0.0	
A	Gateway . 0.0.0	
AppleTalk		
Save Settings	Save & Next	
ê		Internet

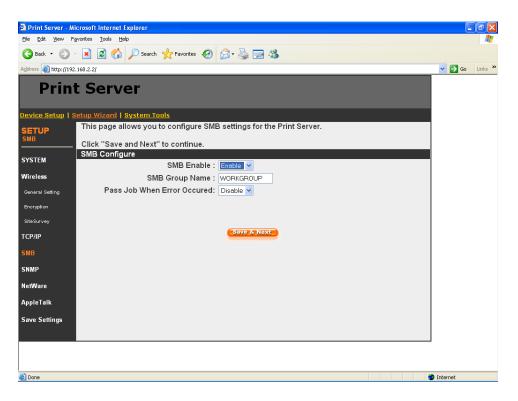
You can configure the print server to automatically get IP from DHCP server or manually specify static IP. The print server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

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

		_	
	crosoft Internet Explorer	_	
Eile Edit ⊻jew Fş	yvorites Iools Help		~
Ġ Back 🝷 🕥 🕚	💌 🗟 🏠 🔎 Search 👷 Favorites 🍪 🔗 - 🌺 🔜 🦓		
Address 🙋 http://192	168.2.2/	💌 🔁 Go	Links »
Print	t Server		
Device Setup S	etup Wizard <u>System Tools</u>		
SETUP	TThis page allows you to configure SNMP settings for the Print Server.		
SNMP	Click "Save and Next" to continue.		
SYSTEM	SNMP Configure		
313121	SNMP System Contact :		
Wireless	SNMP System Location :		
General Setting			
Encryption	Save & Next		
SiteSurvey			
TCP/IP			
SMB			
SNMP			
NetWare			
AppleTalk			
6 6			
Save Settings			
Done		Internet	

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.

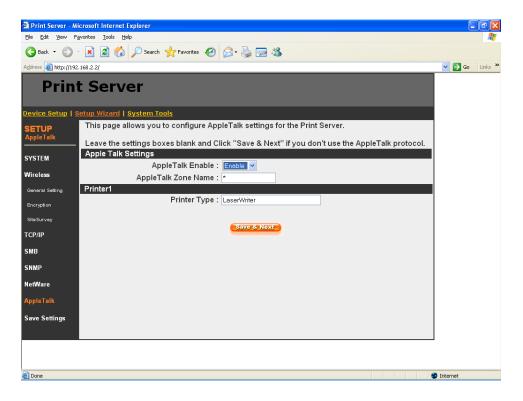
8.4.6 NetWare

	icrosoft Internet Explorer		
	iorosoft internet Explorer avorites Iools Help	E	
G Back 🔹 🐑	- 😰 🙆 🌈 Search 👷 Favorites 🤣 🔗 - 🌺 🚍 🖓		
Address 🙆 http://192	.168.2.2/	💌 🔁 Go	Links »
Print	t Server		
Device Setup S	ietup Wizard <mark>System Tools</mark>		
SETUP	This Menu allows you to configure the NetWare function of the Print Server.		
NetWare	Click "Save and Next" to continue.		
	General Settings		
SYSTEM	Polling Time: 3 seconds(min: 3, max 29 seconds)		
Wireless	NetWare Bindery Settings		
General Setting	Name of the File Server :		
Encryption			
	Save & Next		
SiteSurvey			
TCP/IP			
SMB			
SNMP			
NetWare			
AppleTalk			
Save Settings			
Sure Settings			
Done		🕽 Internet	

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.

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.

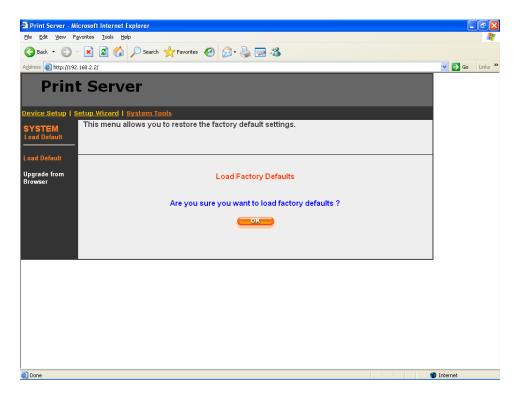
8.4.8 Save Settings

🔁 Print Server - Mi	icrosoft Internet Explorer	- - X
File Edit View Fi	avorites Tools Help	
🕝 Back 🔹 🕥	💌 🗟 🏠 🔎 Search 🜟 Favorites 🧭 🎯 - 🍓 🚍 🦓	
Address 🗿 http://192	.168.2.2/	🔽 🛃 Go 🛛 Links 🎽
Print	t Server	
Device Setup S	ietup Wizard <u>System Tools</u>	
SETUP	This page allows you to configure AppleTalk settings for the Print Server.	
AppleTalk	Leave the settings boxes blank and Click "Save & Next" if you don't use the AppleTalk protocol.	
SYSTEM	Apple Talk Settings	
	AppleTalk Enable : Enable 🔽	
Wireless	AppleTalk Zone Name: *	
General Setting	Printer1 Microsoft Internet Explorer	
Encryption	Printer Would you like to save settings and reboot?	
SiteSurvey		
TCP/IP	OK Cancel	
SMB		
SNMP		
NetWare		
AppleTalk		
Save Settings		
ê		Internet

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

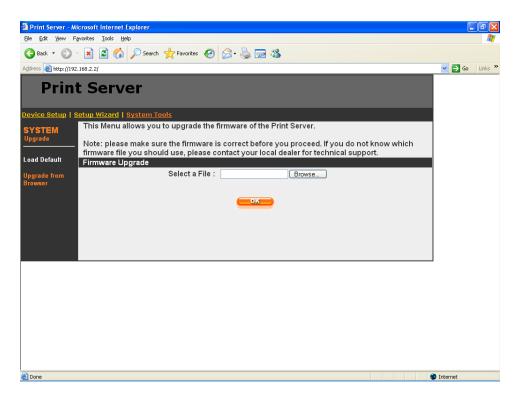
8.5 System Tools

8.5.1 Load Default



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.

9. IPP Printing

9.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The print server can support IPP printing by default. It is needless to do any setting. Any PC that can support IPP printing, for example Windows 2000/XP, can directly uses the print server by IP. By using the IPP printing, you can share the printer to all the PC's that can access the print server by IP. You can even share your printer to Internet users.

9.2 System Setup

9.2.1 Print Server Side

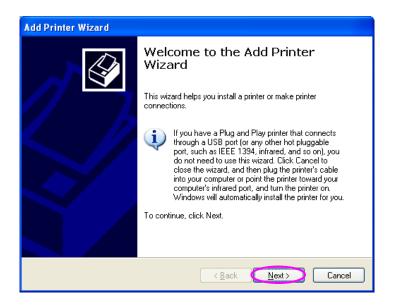
It is needless to do any setting on the print server side. Make sure the print server has correct IP settings. If you want to share the printers to Internet users, you have to set a real IP to the print server. You also have to make sure that any gateway, router or firewall does not block IPP protocol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

9.2.2 Client Side

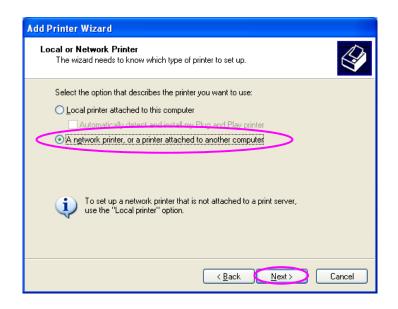
You only need to perform Window's standard Add New **Printer** procedure.

- Step1. Click "Start", choose "Settings" and select "Printers and Faxes".
- Step2. Click "Add a Printer".

Step3. The "Add Printer Wizard" is displayed. Click "Next".



Step4. Select "A network printer, or a printer attached to another computer". Click "Next".



Step5. 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 "lpt1". example of the URL One 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 Next):	
Name:	
Example: Wearver winner	
 Connect to a printer on the Internet or on a home or office network: 	
URL: http://192.168.3.66:631/lpt1	
Example: http://server/printers/myprinter/.printer	
< <u>B</u> ack Next > Cancel	

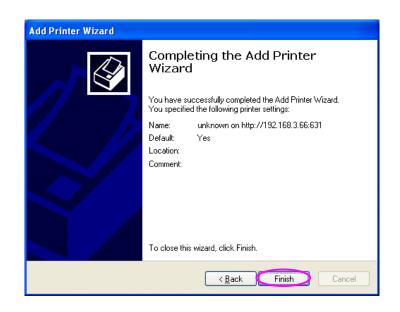
Step6. Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.

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 HP LaserJet IIP Plus Gestetner HP LaserJet IIP PostScript Cartridge v52.2 HP HP LaserJet IIP PostScript Cartridge v52.2 HP LaserJet IIP Nus IBM infotec HP LaserJet Plus Im the driver is digitally signed. Tell me why driver signing is important
< <u>B</u> ack Next> Cancel

Step7. 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.	Ð
Do you want to use this printer as the default printer? ● ves ● No	

Step8. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".



10. LPR Printing

10.1 Introduction

LPR Printing (Line Printer Remote technology) allows users to connect to printers via TCP/IP for printing sharing. The computer with Windows 98SE/Me/NT/2000/XP/2003, Windows Vista and 7 and MAC OS 10.x Operating Systems can use the protocol to share printing in the network. Print Server can support LPR printing by default.

If you install the Print Server in Windows 98SE/Me/NT, the Print Server provides a tool "Network Ports Quick Setup" that helps to add the LPR protocol to users' computer easily. Please refer to Section 3.5.1.

To configure the LPR setting in Windows 2000/XP/Vista/7 and MAC OS 10.x, please follow the procedures describe in the following sections.

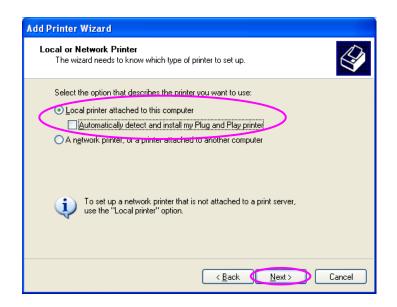
10.2 Standard LPR Settings in Windows XP

To configure the LPR setting in Windows XP, please follow the steps below. The LPR setup procedures in Windows 2000 and 2003 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".



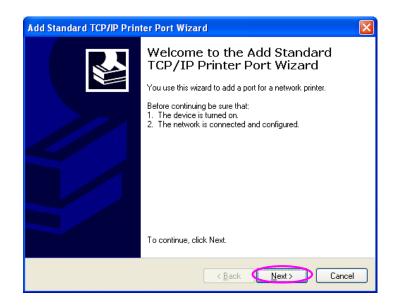
4. Select "Local Printer attached to this computer" and click "Next".



5. Choose "Create a new port" and "Standard TCP/IP Port". Click "Next".

Add Printer Wizard Select a Printer Port		
Computers communicate w	vith printers through ports.	
Select the port you want yo new port.	our printer to use. If the port is not listed, you can create a	
\bigcirc <u>U</u> se the following port:	LPT1: (Recommended Printer Port)	
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:		
	E E	
© <u>C</u> reate a new port: Type of port:	Standard TCP/IP Port	
	< <u>Back</u> <u>Next</u> Cancel	

6. Please make sure that the Print Server and the Printer have turned on and connected to the network correctly before you continue. Click "Next".



7. Enter the IP Address of the Print Server in the "Printer Name or IP Address". Click "Next".

Add Standard TCP/IP Printer Port Wizard	×
Add Port For which device do you want to add a port?	Second
Enter the Printer Name or IP address, and a port name for the desired devi	ce.
Printer Name or IP Address 192.168.2.2	
Port Name: IP_192.168.2.2	
< <u>B</u> ack ↓ Next>	Cancel

8. Select "Custom" and click "Settings". When you have finished the settings at step 9, click "Next" to continue.

Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required The device could not be identified.
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct. Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Ostandard Generic Network Card
O Custom Settings
< Back Next > Cancel

9. Select "LPR" and enter "lpt1" in the "Queue Name", click "OK". By default the queue name of the Print Server is "lpt1".

Configure Standard TCP	/IP Port Monitor	?×
Port Settings		
Port Name:	IP_192.168.2.2	
Printer Name or IP <u>A</u> ddress:	192.168.2.2	
Protocol O <u>B</u> aw	<u>●</u> LPR	
Raw Settings Port <u>N</u> umber:	9100	
LPR Settings	pt1	
LPR Byte Counting En	abled	
SNMP Status Enabled		
<u>C</u> ommunity Name:	public	
SNMP <u>D</u> evice Index:	1	
	ОК	Cancel

10. Click "Finish".

Add Standard TCP/IP Prin	iter Port Wizard	×
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.	
	SNMP: Yes Protocol: LPR, lpt1 Device: 192.168.2.2 Port Name: IP_192.168.2.2 Adapter Type:	
	To complete this wizard, click Finish.	
	< Back Finish Cancel	

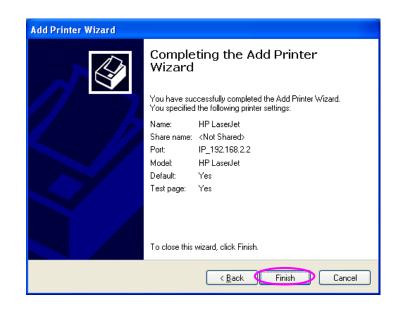
11. Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.

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 Gestetner HP IBM infotec Iwatsu Wetett HP LasedJet Plus HP La
This driver is digitally signed. <u>Windows Update</u> <u>Have Disk</u>
< <u>B</u> ack <u>Next</u> Cancel

12. Choose to set the print whether as a default printer or not. 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
ON₀
< Back Next > Cancel

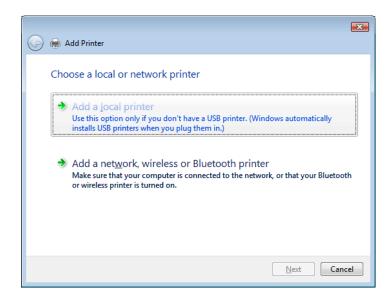
13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".



10.3 Standard LPR Settings in Windows Vista and 7

To configure the LPR setting in Windows Vista and 7, please follow the steps below.

- 1. Click "Start", select "Settings\Printers".
- 2. Click "Add a Printer".
- 3. The "Add Printer" wizard is displayed. Select "Add a local printer".



4. Choose "Create a new port" and select "Standard TCP/IP Port". Click "Next".

🚱 🖶 Add Printer	*
Choose a printer port	
A printer port is a type of conne printer.	ction that allows your computer to exchange information with a
Use an existing port:	LPT1: (Printer Port)
<u>Create a new port:</u>	
Type of port:	Standard TCP/IP Port
	Next Cancel

5. Enter the IP Address of the Print Server in the "Hostname or IP address" field. Click "Next".

🚱 🖶 Add Printer	
Type a printer hostnar	me or IP address
Device <u>typ</u> e:	Autodetect 🗸
Hostname or IP <u>a</u> ddress:	
Port name:	192.168.2.2_1 natically select the driver to use
	Next Cancel

6. Select "Custom" and click "Settings". When you have finished the settings at step 7, click "Next" to continue.

🚱 🖶 Add Printer
Additional Port Information Required
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct.
Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Standard Generic Network Card
<u>Custom</u> Settings
Next Cancel

7. Select "LPR" and enter "lpt1" in the "Queue Name", click "OK". By default the queue name of the Print Server is "lpt1".

Configure Standard TCP/IP Port N	lonitor 💽
Port Settings	
<u>P</u> ort Name:	192.168.2.2_1
Printer Name or IP <u>A</u> ddress:	192.168.2.2
Protocol © <u>R</u> aw	<u> PR</u>
Raw Settings Port <u>N</u> umber: 9100	
LPR Settings Queue Name: Ipt	
LPR Byte Counting Enabled	
SNMP Status Enabled	
Community Name: public	
SNMP Device Index: 1	
	OK Cancel

8. Select the 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	•
Install the printer driver	del of your printer. If your printer came with an installation
	ter is not listed, consult your printer documentation for
Manufacturer Pri	nters
	hp digital copier 410
	HP LaserJet 1012 HP LaserJet 1015
This driver is digitally signed. <u>Tell me why driver signing is importan</u>	<u>W</u> indows Update <u>H</u> ave Disk
	Next Cancel

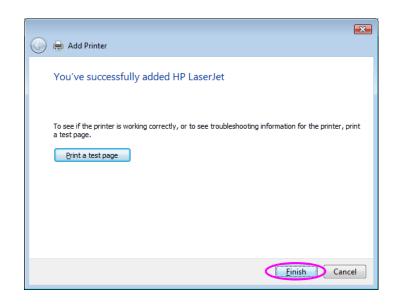
9. Name your printer and set the default printer, click "Next".

		X
G 🖶 Add Printer		
Type a print	er name	
Printer name:	HP LaserJet	
	Set as the <u>d</u> efault printer	
This printer will be	e installed with the HP LaserJet driver.	
		Next Cancel

10. The printer drivers are being installed.

🕞 🖶 Add	Printer		X
	Installing printer		
			_
		Next Car	ncel

11. It is recommended to print a test page. Click "Finish".



12. The printer is added to "Printers" page, you have added the printer to your computer successfully. Now you can start to print from your computer to the print server.

				, • ×
🔾 🗢 💀 🕨 Control P	anel > Printers	Search		Q
🌗 Organize 👻 🏢 Views				?
Favorite Links Documents Pictures Music Recently Changed Searches	Name	Documents 0 0	Status Ready Ready Ready	Comm

10.4 Standard LPR Settings in MAC OS10.x

10.4.1 MAC 10.4.x

To enable LPR Printing in Macintosh 10.4.x, please follow the procedures below.

1. Open Print and Fax from the System Preferences.

- 2. With the Printing tab selected, click the "Add" button.
- 3. When the Printer Browser opens, select "IP Printer".
- 4. In the "IP Printer" screen, please configure as below.

Protocol: Select Line Printer Daemon - LPD as the Protocol. IP Address: Set the address to the Print Server's IP Address, for example: 192.168.2.2. Queue: Set the queue name to lpt1. Name: You can designate a name for the printer. Location: You can enter the location of the printer. Printer: Select the printer model that is attached to the Print Server.

5. Click "Add" to complete the printer installation.

10.4.2 MAC 10.3.x

To enable LPR Printing in Macintosh 10.3.x, please follow the procedures below.

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



2. Click "Print & Fax".



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

(
Printing	Faxing	
Set Up F	Printers	
er in Print Dialog:	Last printer used	
ze in Page Setup:	US Letter	•
Share my print	ters with other computers	*
ent further changes		
	er in Print Dialog: ze in Page Setup:	Set Up Printers

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

●●● ≜ (Printe	r List 🕜	
	Add elete Add PS000888_lpt1 PS123487_lpt1	Utility Color	Sync Show Info Kind EPSON Stylus Color EPSON Stylus Color	

5. Enter the "Printer Type", "Printer Address" and "Queue Name" and select the "Printer Model" 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 "lpt1".

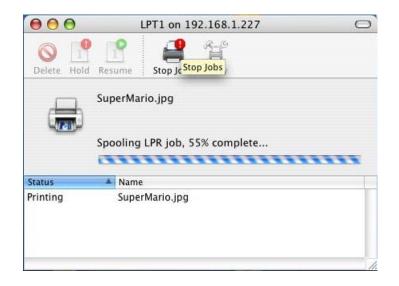
Printer Model: Select the Printer Model that is attached to the Print Server.

Printer Setup U		-
O	Printer List	C
	IP Printing	
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	A	
EPSON Stylus C6	51, CUPS+Gimp-Print v4.2.5	
	· · · · · · · · · · · · · · · · · · ·	
	70, CUPS+Gimp-Print v4.2.5	
Anna anna an Adharan ann	Cancel	
	Printer Type: Printer Address: Queue Name: Printer Model: Model Name EPSON Stylus CG EPSON Stylus CG EPSON Stylus CG	Printer List IP Printing Printer Type: LPD/LPR Printer Address: 192.168.1.227 Complete and valid address. Queue Name: Ipt1 Leave blank for default queue Printer Model: EPSON Stylus C61, CUPS+Gimp-Print v4.2.5 EPSON Stylus C62, CUPS+Gimp-Print v4.2.5 EPSON Stylus C70, CUPS+Gimp-Print v4.2.5 EPSON Stylus C80, CUPS+Gimp-Print v4.2.5 EPSON Stylus C80, CUPS+Gimp-Print v4.2.5

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

	rinter Setup Utilit		Printers	Window Help Printer List	◀ Wed 11:42 P
				Printer List	1
		18 X	0		
Make Def		Utility ColorSyne			
n Menu			Show Into		Host
√ Nenit		Status		EPSON Stylus C61, CUPS+Gimp-Print v4.2.5	nost
Contract of Contra	a LPT1 on 192.16	8.1.227			
	# PS000888_ipt1			EPSON Stylus Color 740, CUPS+Gimp-Print v4.2.5	
	😸 PS123487_lpt1			EPSON Stylus Color 740, CUPS+Gimp-Print v4.2.5	

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

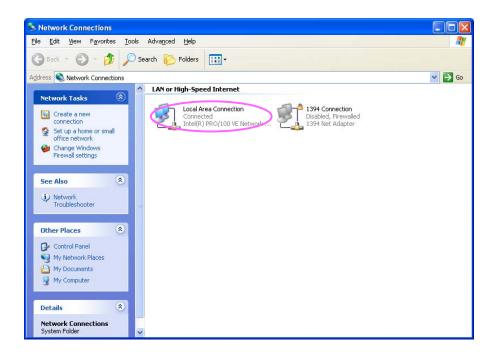


11. Windows XP SP2 Setup

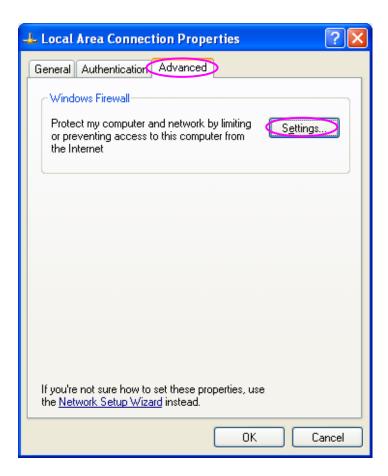
In Windows XP SP2, XP SP2's firewall would block the unknown communications. This print server has allowed the communications data passed through the XP SP2's firewall.

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.

- Step1. Click "Start", choose "Settings" and select "Network Connections".
- Step2. Right click "Local Area Connection" and select "Properties".



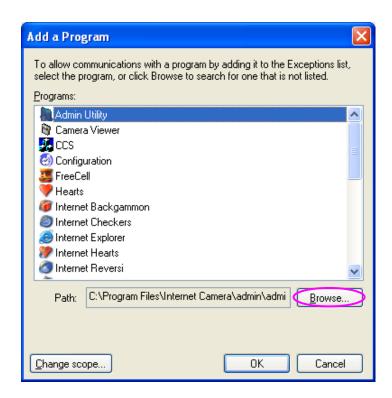
Step3. Select "Advanced" tab and click "Settings...".



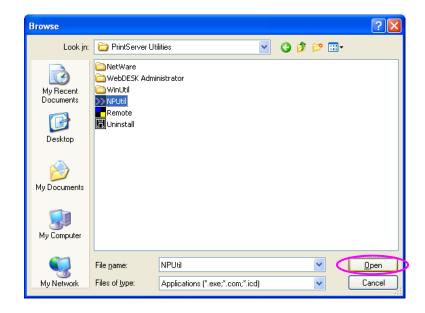
Step4. Select "Exceptions" tab and click "Add Program...".

😻 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 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	

Step5. Click "Browse" to add a new program.



Step6. Open the "NPUtil" file from "C:\Program Files\PrintServer Utilities" (where C:\ is the system drive).



Step7. 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.	t
Programs:	
🥌 Internet Explorer	^
🐲 Internet Hearts	
🔕 Internet Reversi	
💣 Internet Spades	_
Minesweeper 🚽	
MSN Explorer	
Metwork Ports Quick Setur	
🧐 Outlook Express	-
9 Pinball	
PrintServer Configuration	
See ProMagic	*
Path: C:\Program Files\PrintServer Utilities\NPUtil.ex Browse	
Change scope OK Cancel	

Step8. 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 Remote Desktop 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