Conceptronic C54PSERVU Wireless Print Server



User's Manual

Version: 1.0

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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.

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Contents

1.	INTR	ODUCTION	1
	1.1	Product Introduction 1	
	1.2	Product Package 1	
	1.3	Network Printing Architecture 1	
	1.4	1.3.1 Print Server Network Functions 2 1.3.2 Network Printing Functions for Clients 2 1.3.3 Network Printing Functions for Network Server 4 Network Drinting Environment 4	
	1.4	Network Printing Environment 4 Contents of the User's Manual 6	
	1.5	Firmware & Printing Function	
2.		DWARE INSTALLATION	7
2. 3.		DOWS PEER-TO-PEER NETWORK	
0.	3.1	System Architecture	Ŭ
	3.2	Administrator Installation and Setup	
	3.3	Administrator Utilities	
	3.4	Client Installation and Setup	
	3.5	Client Utilities	
	3.6	3.5.1Network Ports Quick Setup173.5.2Remote Ports (Utility)18Windows Add Printer Procedure20	
4.	WIND	OOWS NT/2000/2003 NETWORK 2	4
	4.1	System Architecture	
	4.2	Windows NT/2000/2003 Server Installation and Setup24	
	4.3	User Installation and Setup25	
5.	NETV	VARE NETWORK 2	6
	5.1	System Architecture	
	5.2	NetWare 3.x/4.x/5.x Installation & Setup	
		5.2.1 Installation Using PCONSOLE	
6.	UNIX	SYSTEM NETWORK 2	9
	6.1	Introduction	
	6.2	Enable Print Server's TCP/IP Support	
	6.3	Setup Print Server's IP Address	
	6.4	6.3.1 DHCP 29 6.3.2 BOOTP 29 Verify Print Server's IP Address 30	
	6.5	Configure Remote LPD Printing on the Host	

7.	CON	FIGURATION UTILITY 32
	7.1	Introduction
	7.2	Search for All Available Print Server
	7.3	Status of Print Server
	7.4	Setup the Print Server
	7.5	AppleTalk Configuration35
	7.6	General Configuration
	7.7	Netware Print Server Configuration
	7.8	System Configuration
	7.9	TCP/IP Configuration
	7.10	Wireless Configuration
	7.11	SNMP Configuration
	7.12	Wizard
	7.13	Report
8.	WEB	MANAGEMENT 49
	8.1	Introduction
	8.2	Login
	8.3	Device Status
	8.4	8.3.1 System 50 8.3.2 Printer 50 8.3.3 TCP/IP 51 8.3.4 SMB 51 8.3.5 SNMP 52 8.3.6 NetWare 52 8.3.7 AppleTalk 53 Setup Wizard 53
	8.5	8.4.1 System 53 8.4.1 Advanced Settings 54 8.4.2 Wireless 54 8.4.2.1 General Setting 54 8.4.2.2 Encryption 55 8.4.2.3 Site Survey 57 8.4.3 TCP/IP 57 8.4.4 SMB 58 8.4.5 SNMP 58 8.4.6 NetWare 59 8.4.7 AppleTalk 60 8.4.8 Save Settings 60 System Tools 61 8.5.1 Load Default 61 8.5.2 Upgrade Firmware from Browser 61
9.	IPP P	RINTING
	9.1	Introduction
	9.2	System Setup
		9.2.1 Print Server Side
		9.2.2 Client Side
10.	WIN	IDOWS XP SP2 SETUP 66

1. Introduction

1.1 Product Introduction

Thank you for purchasing and using our print server. This print server allows your printer to become a shared device on the network. It offers printing flexibility and manageability on your Local Area Network at an extremely low cost and with an absolute minimum setup and maintenance required. This print server provides IEEE 802.11g/b wireless LAN (up to 54Mbps data transfer rate), an Ethernet network port (10/100Mbps Ethernet) 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 95/98/Me/NT/2000/XP/2003, NetWare, Unix/Linux and MAC OS, etc.

With the help of Installation Wizard, you can easily and instantly complete the settings for the printing environment, and start enjoying the fantastic features provided by the print server. In the following chapters, we will introduce in detail the printing features, installation methods, and system configuration for different network environments.

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

1.2 Product Package

This package contains the following components:

- One Print Server
- One Antenna
- One Power Adapter
- One UTP Network Cable
- 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 95/98/Me/NT/2000/XP/2003

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows 95/98/Me/NT/2000/XP/2003 users. PTPP (Peer-to-Peer Printing) supports TCP/IP protocol.



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



UNIX / Linux

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

MAC OS

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

1.3.3 Network Printing Functions for Network Server



Common network servers are classified as following:

Windows NT/2000/2003

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

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

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

1.4 Network Printing Environment

Common network environment are classified as following:

Windows Peer-to-Peer Network

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



Windows NT/2000/2003 Network

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



NetWare Network (see below)



1.5 Contents of the User's Manual

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

The following chapters introduce:

- Chapter 3. Windows Peer-to-Peer Network
- Chapter 4. Windows NT/2000/2003 Server-Based 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 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

- Unpack the print server package and verify that all the items listed in the section 1.2 are provided.
- Connect the print server to the printer you want to share on the network.
- Connect the print server to your network by attached the network cable to the UTP port of the print server.
- Connect the power adapter to the print server. The print server will perform the Power-On-Self-Test (POST) after it is powered on. During the POST, the 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 (Peer-to-Peer Printing) for network printing.

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

3.2 Administrator Installation and Setup

The Administrator Installation can be performed on Windows 95/98/Me/NT/2000/XP/2003 with the same user interface. Before the installation, please verify that your network protocol is installed on your PC (TCP/IP, IPX and/or NetBEUI). It will be helpful in your installation process.

Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.

The "Autorun Menu" will be displayed on the screen as following. Click "Install Print Server Manager".

C54PSERVU
Install Print Server Network Eriver
(Install Print Server Manager) Install Acrobet Header
Guick Installation Guide User manual
BROWSE EXIT

The "Server Manager Setup" window will be displayed. Click "Next".



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.

Conceptro	nic C54PSERVU Server Manager - InstallShield Wizard	
	restination Location Ider where setup will install files.	No.
	Install Conceptronic C54PSERVU Server Manager to: C:\\Conceptronic\C54PSERVU\Server Manager	Change
InstallShield –	< Back Next >	Cancel

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

Conceptronic C54PSERVU Server Manager - Inst	allShield Wizard 🛛 🛛 🛛
Select Components Select the components setup will install.	
Select the components you want to install, and deselect the install.	he components you do not want to Description This section will install PrintServer Server Manager
3.91 MB of space required on the C drive 9599.76 MB of space available on the C drive InstallShield	
< Bac	k Next > Cancel

The system will start to install the utilities automatically.

After the installation, 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 Ser	ver List		
	e print server		
	D338	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 "CP" prefix	
		Refresh	
·		< Back Next > Cancel	_
		Cancer	

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 "CP". Please check the MAC ID on the print server.

Specify a recognizable name for the Print Server and click "Next".

Name the Print	Server 🛛 🛛
Device name :	PSCAD338 The unique serial number of the print server
Alias Name :	CPCAD 338 An alternative name for easy management
	< Back Next > Cancel

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
IPX/NetBEUI This print server supports IPX/NetBEUI network protocols.
Assign the Print Server an IP address IP Address 192.168.2.2
 Don't change Configure the IP Address later.
< Back Next > Cancel

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.

Alian Maria	PSCAD338 CPCAD338	Click "Finish", the program
Allas Name : IPX support :		will add the Network Port
NetBEUI support :		of the Print Server to your PC automatically.
TCP/IP support :		
IP Address Assignment :	Manual]
IP Address :	192.168.2.2]

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 95/98/Me/NT/2000/XP/2003 with the same user interface. Before the installation procedure, please confirm that your PC has connected to the network and installed at least one network protocol.

Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.

The "Autorun Menu" will be displayed on the screen as follows. Click "Install Print Server Network Driver".

THE	Autorun Menu C54PSERVU
www.canceptronic.net	Install Acrobat Reader Guick Installation Guide User manual BROWSE EXIT

The "Network Driver Setup" window will be displayed. Click "Next".



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.

Conceptro	nic C54PSERVU Network Driver - InstallShield Wizard 🛛 🛛 🛽	3
	Destination Location Ider where setup will install files.	
	Install Conceptronic C54PSERVU Network Driver to: C:\\Conceptronic\C54PSERVU\Network Driver Change	
InstallShield –	< Back Next > Cancel	

The system will start to install the utilities automatically.

After the installation, all network ports of the Print Servers detected on the network will be added to your PC automatically, click "Continue".

ld Port	×
PrintServer List	
CPC&D338-P1 192.168.2.2	
Continue	

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 deskjet 38	20 series Properties	;	2 🛛
		General Sharing	Ports Advanced Col	lor Management Info	
		hp des	<jet 3820="" series<="" th=""><th></th><th></th></jet>		
		Print to the followi checked port.	ng port(s). Documents will	print to the first free	
		Port	Description	Printer	^
		СОМ6:	Serial Port		
Add Port 🗙		Сом7:	Serial Port		
PrintServer List			Serial Port		
			Serial Port		
CPCAD338-P1 192.168.2.2		□ FIZE: □ CPCAD338-	Print to File P1 PrintServer Network	Deat	
		<		Full	
	· ·				
		Add Port	Delete Port	Configure F	ort
		Enable bidirect	ional support		
		Enable printer			
			,		
Continue			ОК	Cancel	Apply

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

» Network Ports Quick Setup	3.0	
Available Ports	Chosen Ports	
	> CPCAD338-P1	ОК
	>>>	Cancel
	<<	
Refresh	Configure Port	P 🔿 NetBEUI
	Queue Ipt1	

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.

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: IP Address:		OK ancel	
Port P1 P2	□ P3		
LPR Setting Queue Name	lpt1		
Queue Name Queue Name	lpt2 lpt3		

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 Pi	operties	? 🛛
General Sharing	Ports Advanced De	vice Settings
HP Lase	rJet	
Print to the followin checked port.	g port(s). Documents will	print to the first free
Port	Description	Printer 🔼
WH3-P1	PrintServer Network.	
□ WH3-P2	PrintServer Network.	
U WH3-P3	PrintServer Network	
Sales-P1-P1	PrintServer Network.	
SNAGIT7	Local Port	Snagit 7 🔤
	Local Port	<u>×</u>
<		>
Add Port	Delete Port	Configure Port
<u>Enable bidirection</u>	onal support	
Enable printer p	ooling	
	-	
	ОК	Cancel Apply

3.6 Windows Add Printer Procedure

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

- 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 "Local printer attached to this computer" and make sure that "Automatically detect and install my Plug and Play printer" is not selected. Click "Next".

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

Step5. Choose the suitable "Print Server Network Port" which was created by the Administrator Installation or Client Installation process and click "Next".

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

dd 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 Sestemer
HP LaserJet IIP PostScript Cartridge v52.2
IBM infotec
This driver is digitally signed.
Tell me why driver signing is important
< <u>B</u> ack Next > Cancel

Step7. Name your printer and setup the default printer, click "Next".

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name: HP LasedJet
Do you want to use this printer as the default printer?
⊙ <u>Y</u> es
ON₂
< Back Next > Cancel

Step8. 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
< Back Next > Cancel

Step9. You have added the printer to the PC successfully. The information of the printer is displayed in the windows. Click "Finish".

Add Printer Wizard		
	Comple Wizard	ting the Add Printer
		cessfully completed the Add Printer Wizard. The following printer settings:
	Name: Share name: Port: Model: Default: Test page:	HP DeskJet <not shared=""> PS031705-P1 HP DeskJet Yes No</not>
	To close this	wizard, click Finish.
		< Back Finish Cancel

4. Windows NT/2000/2003 Network

4.1 System Architecture

In Windows network environment, other than the Peer-to-Peer network printing architecture described in the previous chapter, we also offer the Server-Based Printing architecture for Windows NT/2000/2003 server.

Only one Windows NT/2000/2003 is required to have Windows PTPP (Peer-to-Peer Printing) driver installed and share the printing service on the network. Other network users can simply connect to the server and access the shared printer (see below).



4.2 Windows NT/2000/2003 Server Installation and Setup

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



Step1. If this is your first time installing print server, please install the administrator software on Windows NT/2000/2003 server first. Refer to section 3.2 for installation instructions.

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

- Step2. Please add/configure the Peer-to-Peer Printing of the Windows NT/2000/2003 network printer and verify that you can print from Windows NT/2000/2003 to the print server by the installed PTPP driver.
- Step3. Share the above server's printer to the network by performing the standard Windows printer sharing process.

4.3 User Installation and Setup



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



5. NetWare Network

5.1 System Architecture

We 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".



- 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 CPxxxxxx name printed on the label of the print server.



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

	Co	Printer 0 configuration	
Not		Name: Printer 0	ion
		Type: Parallel, LPT1	on Menu
Not			
Not	In	Use interrupts: Yes	iced
Not	In	IRQ: 7	
Not			
		Buffer size in K: 3	ter
Not			
Not	In	Starting form: 0	
		Queue service mode: Minimize form changes within queues	
Not			
		Baud rate:	
		Data bits:	
		Stop bits:	
Not	In	Parity: Use X-On/X-Off:	

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

NetWare		sole V3.75 SUPERVISOR	On File	Server	Fi SERVER	riday Connec	July 31, 1 tion 2	1998	3 5:19
			ח	ſ	Print	Server	Informat	ion	
	File Ser	ver	Queue				Prior	ity	enu
Pri	SERVER		P\$3010	0C_Q1			1		
Ľ									

- 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:\

:Ip=:\

:rm=203.66.191.186:\

:rp=lpt1:\

:If=/var/spool/lpd/pserverd.log:\

:sd=/var/spool/lpd/pserverd:\

:mx#0:

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

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

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

The rp= entry should correspond to the port name of the remote printer. The values should be one of lpt1, lpt2 or lpt3 depends on the printer port.

The print server should now be available for printing from your Unix host.
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.
- AppleTalk Configuration: AppleTalk Protocol Setting.
- General Configuration: General Information of print server.
- NetWare Configuration: NetWare Printing Configuration.
- System Configuration: Print Server Network Ability Setting and Firmware Upgrade.
- TCP/IP Configuration: IP Address and DHCP Server Configuration.
- Wireless Configuration: Wireless LAN Configuration.
- SNMP Configuration: SNMP Information 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.

Eile Help						
🔊 🕵 💐 🏈 I	X	🏹 🛛 🐒				
Print Server Group		Setup		\mathbf{X}		2
PM2		-	General	SS N TCP/IP	~ -₩ NetWare	AppleTalk
- A PS000872			General	I CE/IE	Netwale	Арріетаік
PS008595						
PS031705				<u> </u>	ĨŢĨ	
	Ξ	50001705	System	Wireless	SNMP	
PS0306WG		PS031705				
PS080811						
RD1						
РМЗ						
🗛 QA1						
ACC4						
- 🗟 wн	Da	ate Time	Message			
RD2		81/2005 3:27:39 PM	Welcome !			
SA SA		8172005 3:27:40 PM 8172005 3:27:54 PM	Searching Pl 26print servers			

7.2 Search for All Available Print Server



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

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

7.3 Status of Print Server



Click "Status" icon von 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



on the tool bar, the setup items of the current selected print server will be Click "Setup" icon 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 - PS031705	×
User Name Jadmin Password	
Login Cancel	

7.5 AppleTalk Configuration

Appletalk - PS031	705	×
	AppleTalk	
AppleTalk Settings		
6	Zone Name 📕	
Printer Type		
	Port 1: LaserWriter	
	Port 2: LaserWriter	
	Port 3: LaserWriter	
	Save Cance	

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.

7.6 General Configuration

General - PS031	705 🛛 🛛
	General
General Settings	Device Info
	Mac ID : 00:80:5A:03:17:05 Type : 1P/8D Version: 1.9.23A Port No : 1
	Print Server Name FS031705 SMB Group Name WORKGROUP
	ne/Password
	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 "Print Server Name", "SMB Group Name", "User Name" and "Password" here.

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

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.

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

7.7 Netware Print Server Configuration

1	NetWare - PS031705	×
	HetVare	
	NetWare Settings Polling Time 🖺 🛨 (Sec.)	
	File Server to be serviced	
	NetWare Server	
	Save Cancel	

Double Click "NetWare" icon and the NetWare configuration window will pop-up. This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

Polling Time Is the polling interval of the print server for waiting printing jobs on the NetWare server.

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

System - PS031705		×
	System	
System Settings	 Enable Appletalk Printing Enable Rendezvous 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	
Wireless Functi Domain Coun	on : Auto C Enable C Disable try : 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, 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. If you want to reset the Print Server to default factory settings, please click "Load Default".

- Wireless Function: You can select "Enable" or "Disable" to manually enable or disable the wireless function. If you manually enable wireless function, the print server's wireless LAN will be always enabled and Ethernet will be always disabled. If you manually disable the wireless function, the print server's wireless LAN will be always disabled and Ethernet will be always enabled. You also can select "Auto" to let the print server automatically decide to enable or disable the wireless function. The print server only can work in ether Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the print server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the print server is connected to an active network by Ethernet cable when starting up, the print server will run in Ethernet mode. If the print server is not connected to an active network by Ethernet cable when starting up, the print server will run in wireless LAN mode. The print server default is in "Auto" mode.
- **Domain Country:** The wireless channels are different from country to country. Generally, the channels are from 1 to 11 in USA and from 1 to 13 in Europe. The Domain Country setting is for you to set the available channels according to your location.

7.9 TCP/IP Configuration

TCP/IP - PS0317	705	X
	109/19	
-TCP/IP Settings-	C Auto IP C Static IP	
	IP Address: 192 168 2 2	
	Subnet Mask: 255 255 255 0	
	Gateway: 0 0 0 0	
	Save	s

TCP/IP - PS031705						
	TC	P/IP				
TCP/IP Settings	DHCP Serve		@ Di			
s A	Starting Address: Range:	0	0		0	
	Subnet Mask:		0	0	0	
	Gateway Address:	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 Address" and "DNS". The print server will assign a unique IP for each client.

7.10 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

Wireless - PS031705
Vireless
Set Your Wireless Adapter Mode
C Infrastructure Mode
If you wish to use Wireless to connect to your Wireless Access Point, please select this mode. C Adhoc Mode
If you wish to connect head to head with another Wireless client, please choose this mode
Wireless Function :
Next
Cancel

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

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

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

Infrastructure Mode:

Wireless - PS031705	×
Vireless	
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 Enter your own Wireless Network ID (SSID)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 -	vs031705	×
	Vireless	
Wire	ess Network Name(SSID)	
SSID	BSSID Channel	
frank	00:90:cc:6e:6e:2c 4	
Sc	Please scan and select the name of your Wireless Network from the list above. If you do not see your Wireless Network please check to see if your Wireless Network is setup correctly and re-scan.	
	Back Next	
	Cancel	

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

Wireless - PS031705
Vireless
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
Channel Selection
Auto
C Manual 🗨 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.

Ad Hoc Mode:

Wireless - PS03	1705	K
	Vireless	
Wireless	Network Name(SSID)	
SSID	BSSID Channel	
default	00:11:22:33:44:55 11	
Scan	Please scan and select the name of your Wireless Network from the list above. If you do not see your Wireless Network please check to see if your Wireless Network is setup correctly and re-scan.	
	BackNext	
	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 - PS031705	
Vireless	
Wireless Security(WEP)	
Security Mode: Disable	If you wish to activate (WEP)
PassPhrase: WEP(ASCII) WEP(HEX) WPA-shared key WPA-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.
C Key2	
© Key3	
С Кеу4	Back Next
	Cancel

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

less - PS031705		
Vireless		
Wireless Security(WEP)		
Security Mode: WEP(HEX)	If you wish to activ	
	 wireless security o network is already 	
PassPhrase:	wireless security y configure your set	tings here.
💿 64 bit 🔿 128 bit	(Note)All Wireless your network mus	
€ Key1	WEP key to funct	
C Key2		
С Кеу3	1	
С Кеу4	Back	Next
less - PS031705		Cance
less - PS031705		Cance
less - PS031705 Vireless		Cance
		Cancel
Vireless	If you wish to actin	
Wireless Security(WEP) Security Mode: WEP(ASCII)	wireless security o network is already	vate (WEP) r your wireless running
Wireless Security(WEP) Security Mode: WEP(ASCII)	wireless security o network is already wireless security y configure your set	vate (WEP) r your wireless r running ou may tings here.
Wireless Security(WEP) Security Mode: WEP(ASCII) ▼ PassPhrase: © 64 bit © 128 bit	wireless security o network is already wireless security y configure your set (Note)All Wireless your network musi	vate (WEP) r your wireless running ou may tings here. Devices on t use the same
Wireless Security(WEP) Security Mode: WEP(ASCII) PassPhrase: © 64 bit © Key1	wireless security o network is already wireless security y configure your set (Note)All Wireless	vate (WEP) r your wireless running ou may tings here. Devices on t use the same
Wireless Security(WEP) Security Mode: WEP(ASCII) ▼ PassPhrase: © 64 bit © 128 bit © Key1 © Key2	wireless security o network is already wireless security y configure your set (Note)All Wireless your network musi	vate (WEP) r your wireless running ou may tings here. Devices on t use the same
Wireless Security(WEP) Security Mode: WEP(ASCII) PassPhrase: © 64 bit © Key1 © Key2 © Key3	wireless security o network is already wireless security y configure your set (Note)All Wireless your network musi	vate (WEP) r your wireless running ou may tings here. Devices on t use the same
Wireless Security(WEP) Security Mode: WEP(ASCII) ▼ PassPhrase: © 64 bit © 128 bit © Key1 © Key2	wireless security o network is already wireless security y configure your set (Note)All Wireless your network mus WEP key to funct	vate (WEP) ir your wireless ir running ou may tings here. Devices on t use the same ion 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 13-digit ASCII values as the encryption keys. For example: "01234567890123456789abcdef" or "administrator".

WPA-shared key Security Mode:

Wireless - PS031705	
direless	
Wireless Security(WEP) Security Mode: WPA-shared key	If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function correctly.
	Back Next
	Cancel

When "WPA-shared key", also named "WPA-PSK" requires users to select 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 - PS031705					
	Vireless				
Configure Your Adapters IP Address					
C Automatically Ob	otain IP Se	ettins(DHC	P)		
	Obtain your IP Settings from your Wireless Access Point/Router.(DHCP must be enabled on your Wireless Access Point/Router)				Router.(DHCP must be
Set Your IP Mar	nually				
IP Address:	192	168	2	2	
Subnet Mask:	255	255	255	0	
Gateway:	0	0	0	0	
				Back	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.

7.11 SNMP Configuration

SNMP - PS031705		×
	SWMP	
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.

7.12 Wizard



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

Double click the "Print Server Setup Wizard" the setup wizard will guide you through all the setup process.

Step 1: Set up the name of this print server and the SMB Group Name for the print server. Also set up "Enable", "Disable" or "Auto" for the wireless function here. Please refer to section 7.6 and 7.8 for detail information.

Wizard - PS03170	5			×
General Settir	igs			
	Print Server Nam	e PS0317	05	
	SMB Group Nam	e WORKG	ROUP	
	Wireless Function :	 Auto 	© Enable	C Disable
			Cancel	Next >>

Step 2: Select to enable required printing protocol. Please refer to section 7.8 for detail information.

Wizard - PS0317	705	×
System Sett	ings	
	✓ Enable Appletalk Printing ✓ Enable Rendezvous Printing	
	Enable LPR Printing	
	🔽 Enable NetWare Binary Printing	
	🔽 Enable TCP RAW Printing	
	🖂 Enable IPP Printing	
	🔽 Enable SMB	
	🔽 Enable SNMP	
	🔽 Enable NetBEUI	
	<< Back Cancel Next >>	

Step 3: Setup the IP of this print server and the DHCP server. Please refer to section 7.9 for detail information.

Wizard - PS03170	5	×
TCP/IP Setting	-	
	P DHCP Server	
- A	C Auto IP C Static IP	
	IP Address 192 168 2 2	
	Subnet Mask 255 255 255 0	
	Gateway 0 0 0 0	
<u> </u>	<< Back Cancel Next	>>

Step 4: Setup the AppleTalk printing. Please refer to section 7.5 for detail information.

Wizard - PS0317	05	×
AppleTalk S	ettings	
)	Zone Name ×	
	Printer Type	
	Port 1 : LaserWriter	
	Port 2 : LaserWriter	
	Port 3 : LaserWriter	
<u> </u>	<< Back Cancel Next >>	

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

Wizard - PS0317	705 🛛 🔀
NetWare Se	ttings
	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 7.10 for detail information.

Wizard - PS031705	X
 Set Your Wireless Adapter Mode Infrastructure Mode If you wish to use Wireless to connect to your Wireless Access Point, please select this mode. Adhoc Mode If you wish to connect head to head with another Wireless client, please choose this mode 	
<< Back Cancel Next >>	

Step 7: Click "Save" to finish setting.



7.13 Report

Device Name	MAC ID	Model Type	Version	Status 🔨
PS031705	00:80:5A:03:17:05	1P/8D	1.9.23A	
PS0306WG	00:80:5A:03:06:03	1P/8D	1.9.23A	
<				

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

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

8. Web Management

8.1 Introduction

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

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

IP Address: 192.168.2.2 User Name: Admin Password: 1234

8.2 Login

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

Notes: Default User Name is "admin", default password is "1234".

Connect to 192	2.168.2.2 🛛 🛛 🔀
	GR
Default password	:1234
<u>U</u> ser name:	🖸 admin 💌
Password:	••••
	Remember my password
	OK Cancel

8.3 Device Status

8.3.1 System

C54PS		The Concept of Global Com	munication	
Device Setup	System Information			
SYSTEM Printer	This page displays the curren	t system settings of the print s	erver.	
TCP/IP	System Settings			
SMB SNMP	Device Name :	CPCAD338	Raw Printing :	Enable
NetWare AppleTalk	Printer Server Name :	CPCAD338	IPP Printing :	Enable
Арргетак	Model Type :	C54PSERVU	LPR Printing :	Enable
	Firmware Version :	3.2.22	AppleTalk Printing :	Enable
	MAC Address :	00:00:B4:CA:D3:38	NetWare Printing :	Enable
	USB Port Number :		SMB :	Enable
	LPT Port Number :	No	SNMP :	Enable
	Wireless Lan Status :	Auto	NetBEUI :	Enable
	Wireless Configuration			
	Mode :	Adhoc	ESSID :	00:00:00:00:00:00
	Channel Number :	0	WEP :	Disable
	Status :	Disconnected	BSSID :	

System Information includes "Device Name", "Print Server Name", "Model Type", "System Up Time", "Firmware Version", "MAC Address", "Wireless LAN Status" 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 setting 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

C54PSE	RVU CONCEPTRONIC The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Device Setup	NetWare Information
SYSTEM Printer	This page displays the current NetWare settings of the print server.
TCP/IP	General Settings
SMB SNMP NetWare	Polling Time: 3 seconds
AppleTalk	NetWare Bindery Settings
Appletaik	Use Bindery Mode : Enable
	Name of the File Server:
	NetWare Port Settings
	Port1 Attached Queue: Disconnected

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

C54PSE	
	The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard	System Configuration This Menu allows you to configure general system settings of the Print Server.
SYSTEM Wireless	Click "Save & Next" to continue.
TCP/IP SMB	System Settings
SNMP	Print server Name : CPCAD338
NetWare AppleTalk	Password :
	Re-type Password :
Save Settings	
	Sove & Next

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.

8.4.2 Advanced Settings

C54PSE	
	The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard	Advanced System Configuration This page allows you to configure Advance settings for the Print Server.
SYSTEM Advanced Settings	Click "Save & Next" to continue.
Wireless TCP/IP	System Configure
SMB	IPX : Enable 💌
SNMP NetWare	TCP/IP Printing(LPR/IPP/RAW/SMB) : Enable
AppleTalk	NetBEUI: Enable 💌
Save Settings	AppleTalk Printing: Enable V

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

8.4.3 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.

8.4.3.1 General Setting

C54PSE	
	Device Setup Setup Wizard System Tools
Setup Wizard SYSTEM Wireless General Setting	Wireless Configuration This page allows you to define your ESSID, Wireless Mode and Channel Number. Note,all wireless devices on your wireless network must have the same ESSID to communicate with one another. Click "Save & Next" to continue.
Encryption SiteSurvey TCP/IP SMB SNMP NetWare AppleTalk	Wireless Setting Function: Auto Mode: Ad hoc ESSID: default Channel Number: 11 v
Save Settings	Seve G Next

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

- Function Is for user to disable, enable or let the print server auto select to connect to the wired or wireless network. If "Disable" is selected, the print server can only connect to the network through wired Ethernet. If "Enable" is selected, the print server can only connect to the network through Wireless LAN. If "Auto" is selected, the print server can automatically decide to enable or disable the wireless function.
 The print server only can work in ether Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the print server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the print server is connected to an active network by Ethernet cable when starting up, the print server will run in Ethernet mode. If the print server will run in wireless LAN mode. The print server default is in "Auto" mode.
- Mode Is the operation mode of wireless station. You can choose ether "Ad Hoc" or "Infrastructure" mode. If you do not have any access point and want to use peer-to-peer connection, you have to choose "Ad Hoc" mode. If you have an access point as the wireless LAN infrastructure, you have to choose "Infrastructure" mode.
- **ESSID** 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.

8.4.3.2 Encryption

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

WEP Security Mode:

C54PSE		
	Device Setup Setup Wizard System Tools	
Setup Wizard SYSTEM Wireless General Setting	Wireless Encryption Configuration Encryption allows your data being transmitted over the wireless network securely. If this function is enabled, please make your wireless stations are using the same encryption keys as the Printer Server. Click "Save & Next" to continue.	sure
Encryption SiteSurvey TCP/IP SMB SNMP NetWare AppleTalk	Encryption Setting Mode : WEP Key length : 64-bit Key format : Hex (10 characters)	
Save Settings	Passphrase:Generate Enter a key into the table Default key : Key1 ❤	
	Key 1 : ####################################	
	Sove & Next	

- Key Length You can choose "64-bit" to use WEP with 64-bit key length encryption or choose "128bit" 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:

C54PSE	
	Device Setup Setup Wizard System Tools
Setup Wizard SYSTEM Wireless General Setting	Wireless Encryption Configuration 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. Click "Save & Next" to continue.
Encryption SiteSurvey	Encryption Setting
TCP/IP SMB SNMP NetWare AppleTalk	Mode : <mark>WPA-PSK ❤</mark> WPA algorithms : <mark>TKIP ❤</mark> WPA Pre-Shared Key :
Save Settings	Seve & Next

When "WPA-PSK", also named "WPA-shared key" requires users to select 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 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 "Save & Next" to confirm the configuration.

8.4.3.3 Site Survey



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

There is "WLAN Function" setting for you to setup Auto/Disable/Enable wireless function of the print server here. Please refer to section 8.4.3.1 to know more about the setting.

8.4.4 TCP/IP

C54PSE	
	The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard	TCP/IP Configuration This Menu allows you to configure TCP/IP settings for the Print Server.
Wireless	Click "Save & Next" to continue.
General Setting Encryption	TCP/IP Settings
SiteSurvey TCP/IP	Enable Obtain TCP/IP settings automatically (use DHCP/BOOTP)
SMB SNMP	Disable Use the following TCP/IP settings
NetWare	IP Address : 192.168.2.2
AppleTalk	Subnet Mask : 255.255.255.0
	Gateway : 0.0.0.0
Save Settings	Print Server DHCP Server : Disable 🗸
	Sove & Next

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

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

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

8.4.5 SMB

C54PSE	
	The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard	SMB Configuration
SYSTEM	This page allows you to configure SMB settings for the Print Server.
Wireless	Click "Save & Next" to continue.
General Setting Encryption	SMB Configure
SiteSurvey TCP/IP	SMB Enable : Enable 💌
SMB	SMB Group Name / WORKGROUP
SNMP NetWare	Pass Job When Error Occurred: Disable 🗸
AppleTalk	
Save Settings	
	Save & Next

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.

8.4.6 SNMP

C54PSE	The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard	SNMP Configuration
	This page allows you to configure SNMP settings for the Print Server.
SYSTEM Wireless General Setting	Click "Save & Next" to continue.
Encryption	SNMP Configure
SiteSurvey TCP/IP	SNMP System Contact :
SMB	SNMP System Location :
SNMP NetWare	
AppleTalk	
	Save & Next
Save Settings	

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.

8.4.7 NetWare

C54PSE	
	The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard	NetWare Configuration
	This Menu allows you to configure the NetWare function of the Print Server.
SYSTEM Wireless	Click "Save & Next" to continue.
General Setting Encryption	General Settings
SiteSurvey TCP/IP	
SMB SNMP	Polling Time: 3 seconds(min: 3, max: 29 seconds)
NetWare	NetWare Bindery Settings
AppleTalk	
Save Settings	Name of the File Server :
	Sove & Next

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

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

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

8.4.8 AppleTalk

C54PSE	
	Device Setup Setup Wizard System Tools
Setup Wizard SYSTEM Wireless General Setting Encryption	Apple Talk Configuration This page allows you to configure AppleTalk settings for the Print Server. Leave the settings boxes blank and Click "Save & Next" if you don't use the AppleTalk protocol. Apple Talk Settings
SiteSurvey TCP/IP SMB SNMP NetWare AppleTalk	AppleTalk Enable : Enable
Save Settings	Printer Type : LaserWriter

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.

8.4.9 Save Settings

C54PSE	RVU CONCEPTRONIC [®] The Concept of Global Communication
	Device Setup Setup Wizard System Tools
Setup Wizard SYSTEM Wireless General Setting	Apple Talk Configuration This page allows you to configure AppleTalk settings for the Print Server. Leave the settings boxes blank and Click "Save & Next" if you don't use the AppleTalk protocol.
General Setting Encryption SiteSurvey TCP/IP SMB SNMP	Apple Talk Settings Apple Talk Ap
NetWare AppleTalk	USB Printer Print OK Cancel
Save Settings	Sove G Next

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

C54PSE	
	Device Setup Setup Wizard System Tools
System Tools	Firmware Upgrade
Load Default	This Menu allows you to upgrade the firmware of the Conceptronic C54PSERVU PrintServer.
F/W Upgrade	
	Firmware Upgrade
	Note: please make sure the firmware is correct before you proceed. Visit our website, <u>www.conceptronic.net</u> , for the latest available firmware.
	Select a File : Browse

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".

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

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".

One example of the URL is http://192.168.3.66:631/lpt1. After entering the URL of print server, click "Next".

Add Printer Wizard
Specify a Printer If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to? Browse for a printer Connect to this printer (or to browse for a printer, select this option and click Next): Name: Example: \\second printer 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>Back</u> <u>Next</u> 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	
	HP LaserJet IIP Plus	
HP	HP LaserJet IIP PostScript Cartridge v52.2	
IBM	HP LaserJet Plus	
This driver is digitally signed. Windows Update		
Tell me why driver signing is important		
	< <u>B</u> ack <u>Next</u> 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.		
Do you want to use this printer as the default printer? ⊙ ves ○ No		
	cel	

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

Add Printer Wizard	
	Completing the Add Printer Wizard
	You have successfully completed the Add Printer Wizard. You specified the following printer settings:
	Name: unknown on http://192.168.3.66:631 Default: Yes Location: Comment:
	To close this wizard, click Finish.
	Cancel

10. 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 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\Conceptronic\C54PSERVU\Server Manager\" (where C:\ is the system drive), if you have installed the Server Manager. Open the "NPUtil" file from "C:\Program Files\Conceptronic\C54PSERVU\Network Driver\" (where C:\ is the system drive), if you have installed the Network Driver only.

Browse		2 🛛
Look in:	🔁 Server Manager 💽 🧿 🎓 🖽 -	
My Recent Documents	<mark>≫ NPUtil.exe</mark> ■ P5Admin.exe ■ Remote.exe ↓ Uninstall.exe	
Desktop		
My Documents		
My Computer		
	File name: NPUtil.exe Ope	n
My Network	Files of type: Applications (*.exe,*.com,*.icd) Cancel	el

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.
Programs:
Nero Recode
😚 Nero ShowTime
🕺 Nero SoundTrax
Mero StartSmart
🚵 Nero Vision
😳 Nero WaveEditor
Network Ports Quick Setup
> Paint.NET
C PartitionInfo
PartitionInfo
🔮 PartitionMagic 8.0 💽
Path: C:\Program Files\Conceptronic\C54PSERVU\ 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?