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ABOUT THIS GUIDE

This manual provides instructions and illustrations on how to use your TE100-P1U USB 2.0 Print Server, including:

- Chapter 1, **Introduction**, provides the general information on the product.
- Chapter 2, **Hardware Installation**, describes the hardware installation procedure for the product.
- Chapter 3, **Using the Utilities**, helps you to install and use the software.
- Chapter 4, **Web Configuration**, completes the configuration using the web browser.
- Chapter 56, Printing in Windows 7/Vista/2003 Server/XP/ 2000, let you complete printing task through your print server in Windows 7/Vista/2003 Server/XP/2000 environment.
- Chapter 6, **Printing in Windows 98SE/ME**, lets you complete printing task through your print server in Windows 98SE/ME environment.
- Chapter 7, **Printing in MAC OS**, lets you complete printing task through your print server in MAC OS 10.1~10.6 environment.

Please note that the illustrations or setting values in this manual are **FOR YOUR REFERENCE ONLY**. The actual settings and values depend on your system and network. If you are not sure about the respective information, please ask your net work administrator or MIS staff for help.

1

INTRODUCTION

Congratulations on purchasing your TE100-P1U 1 Port USB Print Server, the easiest and fastest way to deploy printers on your network.

This compact print server can connect your network through an Access Point under the infrastructure mode, or can be used in ad-hoc mode for direct communication between computer/notebook and print server anywhere you wish to locate printer services. It manages the flow of print files from your workstation or file server to its connected printers, delivering print jobs to high-performance printers much faster than a file server or a computer acting as a print server can.

The pocket-sized Print Server features a Web-based Configuration Utility, which allows you to set up the print server through the web browser easily and quickly. It also includes a simple software utility **PS-Utility**, a user-friendly program that allows you to complete settings for the print server.

Package Contents

Unpack the package and check all the items carefully, and be certain that you have:

- ◆ TE100-P1U
- Multi-Language Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Power Adapter (5V DC, 2.5A)

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future.

System Requirements

• Operating System:

Microsoft Windows 7/Vista/2003 Server/XP/2000/ME/98SE Mac OS X 10.1~10.6

• For Web Configuration:

Java-enabled web browser, such as Microsoft[®] Internet Explorer 6.0 and Netscape Navigator 6.0.

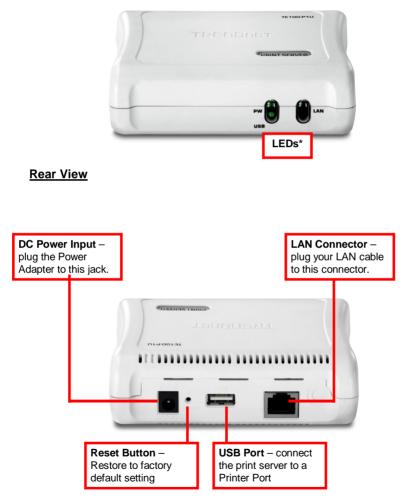
General Features

- Compliant with USB 2.0 Hi-Speed printing
- Equipped 10/100 Auto-MDIX Fast Ethernet LAN port
- Multi protocol support is ideal for shared printing in mixed-LAN environments
- Windows-based program makes it possible to set up in a few minutes.
- Offer LPR program for Windows 98SE/ME TCP/IP printing
- Supports DHCP IP assign function
- Supports Web configuration
- Provides Flash memory for easy firmware upgrading
- Supports IPP for Windows 7/Vista/XP/2000
- Supports second http port for remote web configuration and IPP printing
- Supports Mac OS 10.1 ~10.6

Product View

This section describes the externally visible features of the print server.

Front View



* There are three green LED indicators on the rear panel:

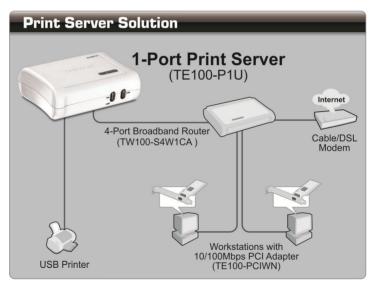
LEDs	Description
Power	Steady light confirms that the Print Server is powered on.
USB	When it blinks, the printer connected is printing.
Link/Act	Steady light confirms that the print server has a good connection to your network.
	When it blinks (briefly dark), the print server is receiving/ transmitting data from/to the network.

2

HARDWARE INSTALLATION

Networking Application

The following diagram explains the application of your print server.



Installing the Print Server

Follow these steps for a trouble-free start of print server operations with your TE100-P1U USB Print Server.

- **1.** Confirm proper operation of the printer to be connected to the print server.
- **2.** When you have confirmed proper operation of the printer, turn off the power.
- 3. Confirm that your network is operating normally.
- **4.** Connect the print server to the network (through the RJ-45 connector of the print server).
- **5.** While the printer is powered off, connect the print server to the printer's port.
- 6. Turn on the printer's power.
- 7. Connect the DC end of the AC Power adapter to the DC power input socket of the print server and the AC end to the wall outlet. This will supply power to the print server immediately.

NOTE: The printer default IP address. To prevent from any conflict in your network, it is recommended to use the PS-Utility program to change the IP setting when there is some other device's IP Address is the same as the print server's default IP Address.



USING THE UTILITIES

This chapter describes the software utilities for the print server, including how to set up your print server with these utility. The **PS-Utility** is designed with a user-friendly interface that allows you to set up and administer the print server easily.

Auto-Run Installation

Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program, and the menu screen will appear as below.



- PS Wizard click to setup printer port connectivity
- Install Utility click to install PS-Utility and PS Monitor. Please refer to the next section for detailed information on installing the utility.
- User's Guide click to preview the User's Guide or Quick Installation Guide in PDF format for detailed information of the Print Server.
- Product Registration click to register your product on-line
- Exit click to close the Auto-Run program.

PS-Utility

To avoid the conflict in your network, you can use PS-Utility to change the related settings of your print server (such as the IP address) after finishing the installation.

Installing PS-Utility

1. Insert CD-ROM into CD-ROM drive. Click *Install Utility* > PS Utility.



Installing PS-Utility

1. Insert CD-ROM into CD-ROM drive. Click Install Utility > PS Utility.



2. Click *Next* > in the welcome screen of InstallShield Wizard.



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

noose Destination Location Select folder where Setup will install files.		
Select tolder where Setup will install files.		
Setup will install PS-Utility in the following folder	r.	
To install to this folder, click Next. To install to a folder.	udifferent folder, click Browse	and select another
Doctination Folder		
Destination Folder		Prove
Destination Folder C:\Program Files\TPENDneft/PS-Utility		Browse
		Browse

4. Click *Next >* to select Program folder

Select Program Folder		
Please select a program folder.		
	ram Folder listed below. You may type a new	folder name,
or select one from the existing folders list	. Click Next to continue.	
Program Folders:		
PS-Utility		
Existing Folders:		
7-Zip Accessories		<u>^</u>
Administrative Tools		-
Adobe		=
Adobe Master Collection CS4		
CoreIDRAW Graphics Suite X5		
doPDF 7		
FileZilla FTP Client		
Games		-
IPViewSP		×
	<back next=""></back>	Cancel

5. The InstallShield Wizard starts to install the software, and the Progress bar indicates the installation is proceeding.

6. When completed, click *Finish*.

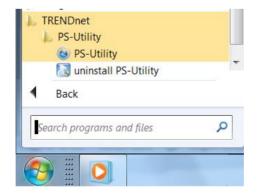


After installing the utility, the application program for the print server is automatically installed to your computer, and creates a folder in **Start\Programs\TRENDnet\PS-Utility**.

Using PS-Utility

This section describes the operation of PS-Utility. To launch PS-Utility:

1. Click Start -> Programs -> TRENDnet -> PS-Utility



2. The main screen will appear as below, and it starts to search the connected print server within the network.

Device Name	Setup Wiz	zard	Update Firmware
Vour print server	Change IP A	ddress	Factory Reset
	Show Web	Setup	Print Test
	-Information		
	MAC Address	00 1 4	00 00 bfe1
	IP Address	192.16	58.1.1
	Model	T E1 00)-P1 U
	Status	Runnii	ng
	Firmware	4.15	
	UpTime	42 day	/s, 11:01:06
Discover Device	About	1	Close

Component Features:

Device List: Display the connected print server within the network.



Control Buttons

Change IP Address: Click this button to bring up the following dialog box, allowing you to change the IP Address. In this dialog box, you can select either Manually Assign or DHCP Assign Automatically. When completed, click OK.

Manually Assign	n
IP Address	192 168 0 1
Subnet Mask	255 255 255
Default Gateway	192 168 0 254
DHCP Assign A	Automatically

- **Update Firmware:** Click this button to update the firmware of the selected print server.
- Show Web Setup: Click this button to open your web browser and launch the Configuration Utility. Alternately, you can double-click the print server in the Device List to launch the Configuration Utility.
- **Factory Reset:** Click this button to reload the factory settings of the print server.
- **Discover Device:** Click this button to search the connected print server again.
- **About:** Click this button to bring up a window containing the basic information of PS-Utility.
- Close: Click this button to exit PS-Utility.
- **3** Information Field: Display the basic information of the selected print server in the Device List.
- 4 Status Bar: Display the system status.

PS Wizard

PS Wizard is a convenient utility that allows you to set up the print server's port connection.

Windows 7/Vista/2003 Server/XP/2000

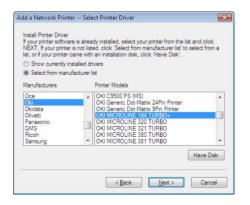
 Insert the CD-ROM into your computer's CD-ROM drive. Click PS Wizard and then click Win 7/Vista/2003/XP/2000 from the Auto-Run menu screen.



2) Select the print server, select the desired port and then click Add Printer.

Server Name	IP Addres	s	M	40 /	Addi	ess		ħ	
PS-XXXXXX	192.168.0	0.1	00	14	00 0	0 b		Т	
									Discover
•	m								Configuration
AN									
Dynamic IP (DI	HCP)								
Fixed IP									
IP Address :		0.	0		0		0		
Subnet Mask :		0.	0		0		0		
Default Gatew	/ay:	0 .	0		0		0		Apply
Port Information									
Port Name	Prin	nter Moo	del						
PS-XXXXXX-P1									

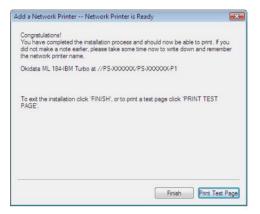
3) Click Select from manufacturer list. Select the appropriate driver for your printer and then click **Next**.



4) Click Next.

Add a Network	Printer Confirm Printer Driver	X
	the printer selection and choose whether to make this printer the ult printing device. Click NEXT to continue.	
Port Name :	PS-XXXXXX-P1	
Printer Model :		
Printer Driver :	Okidata ML 184-IBM Turbo	
Network Printe	r Name : jata ML 184-IBM Turbo at //PS-XXXXXXX/PS-XXXXXX/PS-XXXXXX/PS-XXXXXX/PS-XXXXXX/PS-XXXXXX/PS-XXXXXXXXXX	P1
🔽 Use this prin	nter as the default printer for Windows-based programs.	
	Cano	el

5) Click Print Test Page.



6) Click OK.



- 7) Click Finish.
- 8) Repeat steps 1 to 7 to add the printer to other computers on the network.

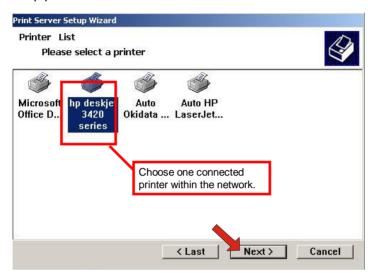
Windows 98SE/ME

1. Insert the CD-ROM into your computer's CD-ROM drive. Click **PS Wizard** and then click **98SE/ME** from the Auto-Run menu screen.



NOTE: For some specific printers, you may need to connect the printer to the computer and install the driver. In this case, connect it to the computer and install the driver first, and then connect it to the print server.

2. In the following window, select one printer in the Printer List to set up port connection, and then click *Next* >.



3. Select one printer port in the Print Server List, and click Next Print Server Setup Wizard

Find Print Serve Please sele	t a print server.	 Image: A set of the set of the
in Servers: hetwork 2 PS-D56EC6 2 UI	Your print server name Your printer port name	Choose one connected printer port.
lfo Server Name: IP Address:		Name: U1 Next≻ Cancel

PS Monitor Utility

PS Monitor will allow the print server to support HP GDI Printers.

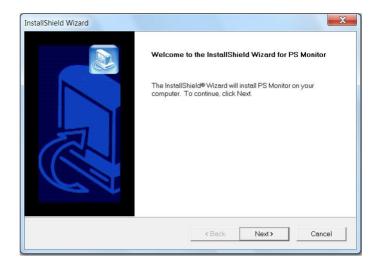
 Click the Install Utility → PS Monitor from the Autorun. This program will lead you to finish the installation process of the PS Monitor step by step.

	PS Wizard
	Win 7/Vista/2003/XP/2000 98SE/ME
	Install Utility
	PS Utility PS Monitor
-00-	User's Guide
	User's Guide Quick Installation Guide
	Product Registration
1-Port Parallel Print Server TE100-P1U	Exit
	© Copyright 2011 TRENDnet. All Rights Reserved

2. Choose the Language of your Windows system and click the "OK" button to the next step.



3. Click the "Next" button and start to install the PS Monitor.



4. Specified the directory for of the PS Monitor to be installed inside and then click the "Next" button.

noose Destination Location	
Select folder where Setup will install files.	
Setup will install PS Monitor in the followin	ng folder.
To install to this folder, click Next. To insta folder.	all to a different folder, click Browse and select another
- Destination Folder	
Destination Folder C:\Program Files\PS Monitor	Browse
	Browse

5. Click "Next" on Select Program Folder.

Select Program Folder Please select a program folder.	
Setup will add program icons to the Progra or select one from the existing folders list. (Program Folders:	ew folder name,
PS Monitor	
Existing Folders:	
7-Zip	*
Accessories Administrative Tools	=
Adobe	=
Adobe Master Collection CS4	
CoreIDRAW Graphics Suite X5 doPDF 7	
FileZilla FTP Client	
Games IPViewSP	-
allShield	
	 -

6. Click the "Finish" button to complete the installation.



7. The installation is completed. Click the "Start"->"Program"-> TRENDnet"->"PS Monitor 1.30" to launch the PS Monitor.

TRENDnet	
📙 PS Monitor	
S Monitor 1.30	
🔝 Uninstall PS Monitor 1.30	*
Back	
Search programs and files	Q

8. To verify if the PS Monitor is executed successfully, please check that the icon of PS Monitor is shown in the taskbar under your Windows system.

To add HP GDI printers onto your network, please proceed to "<u>Printing in Windows"</u> section and follow the proper operating system installation instructions.

4

WEB CONFIGURATION

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

Web Configuration Utility

First, launch your web browser (such as the Internet Explorer 6.0 used in this manual). Then, type *http://192.168.0.1* (the default IP address) in the Address bar and press [Enter] to enter the Management screen of the Configuration Utility.

TIP: The computer's IP address must correspond with the print server's IP address in the same segment for the two devices to communicate. Extensive knowledge of LAN will be helpful in configuring the print server.

Home

	IET	10/100Mbps USB 2.0 Print Server TE100-P1U
Home	Home - System	n Information
Setup Wizard	Server Name:	PS-884018
Change IP Address	Port Name:	U1
Printer Information	Model:	TE100-P1U
Factory Reset	Firmware Version:	4.08 (2006-03-16)
	MAC Address:	00 14 D1 8B 40 18
Firmware Upgrade	IP Address:	192.168.0.1 (Manual)
About	Up Time:	0 days, 00:02:49
		Refrosh

The Home screen displays the basic information of the print server. As shown above, the **System** displays the status of your print server and network. Clicking *Refresh* will update the information.

Setup Wizard

	10/100Mbps USB 2.0 Print Server TE100-P1U
Home Setup Wizard Change IP Address Printer Information Factory Reset Firmware Upgrade About	Setup Wizard - System Server Name: PS-884018 U1 Password: Next
	Copyright © 2006 TRENDnet. All Rights Reserved.

The "Setup Wizard" will lead you to change all the configurations step by step. Please follow below steps to finish it

System

Server Name: Assign a name to the print server.

Port Name: Assign the Port Name for the print server

Password: Enter the Administrator password (1-8 characters).

NOTE: Passwords are limited to 8 alphanumeric characters, having more than 8 characters will invalidate the password protection. After setting up the password, the login screen will prompt you for the password the next time you login. The User Name is "**admin**" and the password is what you have assigned.

Setup Wizard - System		
Server Name:	PS-884018	
Port Name:	U1	
Password:		
	Next	

IP Address

This option allows you to set the IP address manually or automatically. When you choose *Manually Assign*, you should enter the related information in the following boxes, including *IP Address*, *Subnet Mask*, and *Default Gateway*.

IP Address:	⊙ Manually Assign
	IP Address 192.168.0.1
	Subnet Mask : 255.255.255.0
	Default Gateway : 0.0.0.0
	O Automatically Assign

Microsoft Network

Enter the name of the Workgroup that you want the print server associated with in this field.

Setup Wizard - Microsoft Network		
Workgroup:	WORKGROUP	
	Next	

Second HTTP Port

This field allows settings to open a second port for the remote printing and IPP printing function. This will permit users to execute printing jobs through broadband IP router.

Setup Wizard - Second HTTP Port	
Second HTTP Port:	 ⊙ Enable ○ Disable Port Number : 81 (For Remote Web Configuration and IPP Printing)
	Next

Save to Print Server

Please verify the configurations and click "Yes" to save settings.

Setup Wizard -	Save to Print Server	
Server Name:	PS-8B4018	
Port Name:	U1	
IP Address:	192.168.0.1	
Subnet Mask:	255.255.255.0	
Default Gateway:	0.0.0.0	
Workgroup:	WORKGROUP	
Second HTTP Port:	Enable (Port - 81)	
Password:		
	Do you want to save settings to Print Server ?	
	Yes No	

The Setup Wizard is now completed.

Change IP Address

	TET 10/100Mbps USB 2.0 Print S	Gerver 100-P1U
Home Setup Wizard Change IP Address Printer Information Factory Reset Firmware Upgrade	Change IP Address IP Address: IP Address:	
About	Save Cancel	

This feature is helping you to change IP address only. If you have run the Setup Wizard already, you may skip this procedure. Please type in IP address that applies to your existing network (i.e. 192.168.X.X) Type in the Default Gateway (i.e. your router's local IP address).

Printer Information

	inet ¹	0/100Mbps USB 2.0 Print Server TE100-P1U
Home	Printer Informat	ion
Setup Wizard	Printer Manufacturer:	hp
Change IP Address	Printer Model:	deskjet 3420
Printer Information	Printer Command Set:	LDL, DYN
Factory Reset	Printer Status:	on line
Firmware Upgrade		Refresh
About		
		Copyright © 2006 TRENDnet. All Rights Reserved.

"**Printer Information**" will display all printer information such as Manufacturer, Model Number, Command Set and Status.

Factory Reset

	NET 10/100Mbps USB 2.0 Print Server TE100-P1U
Home Setup Wizard Change IP Address Printer Information Factory Reset Firmware Upgrade About	Factory Reset Do you want to restore Print Server to factory default setting? Yes
	Copyright © 2006 TRENDnet. All Rights Reserved.

Please click Yes to reload the factory settings of the print server.

Firmware Upgrade

	INET 10/100Mbps USB 2.0 Print Server TE100-P1U
Home Setup Wizard Change IP Address Printer Information Factory Reset Firmware Upgrade About	Firmware Upgrade Current Firmware Version and Date: 4.08 (2006-03-16) Select a Firmware File : Browse Upgrade Cancel
	Copyright © 2006 TRENDnet. All Rights Reserved.

The firmware can be easily upgrade through "Firmware Upgrade" feature. Click *Browse* to get the firmware file, and then click *Upgrade* to flash firmware. The new firmware can be downloading from <u>www.trendnet.com</u> once it is available.

About

	NET	10/100Mbps USB 2.0 Print Server TE100-P1U
Home Setup Wizard Change IP Address Printer Information Factory Reset Firmware Upgrade About	About Print Server v4.08	
		Copyright © 2006 TRENDnet. All Rights Reserved.

This screen displays the information of the print server.

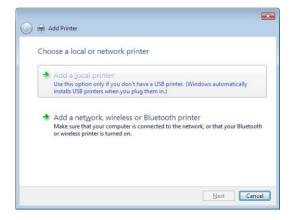
5

PRINTING IN WINDOWS 7/ VISTA/2003/XP/2000

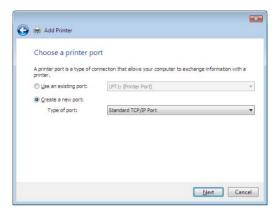
Setting Up Windows 7/ Vista TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows Vista.

Click Start > Control Panel > Printers Click "Add a Printer" Click "Add a local printer"



Select Create a new port, select Standard TCP/IP Port and then click Next.



Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click "**Next**".

Hint: You can get the Port name from the print server's system information through web browser. Please refer page 30.

🖣 🖶 Add Printer	
Type a printer host	name or IP address
Device type:	TCP/IP Device
Hostname or IP address:	192.168.0.1
Port name:	192.168.0.1
Query the printer and au	utomatically select the driver to use
	Next Cancel

Select "Custom", and click "Settings".

🚱 ఉ Add Printer		×
Additional P	ort Information Required	
 The device The network The device The device The address If you think the statements 	c is connected. is properly configured. on the previous page is correct. address is not correct, click Back to return to the previous page. Then correct perform anothere search on the network. If you are sure the address is correct.	
Device Type ③ Standard ④ Custom	Generic Network Card	

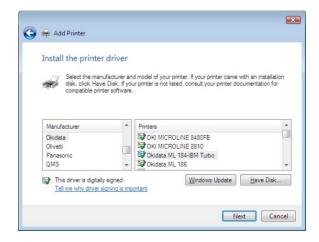
Select "LPR", and put the Port name in the field labeled "Queue Name". Then Click "OK".

<u>P</u> ort Name:	192.168.	0.1	
Printer Name or IP <u>A</u> ddres:	s: 192.168.	.0.1	
Protocol			
© <u>R</u> aw		● LPR	
Raw Settings			
Port <u>N</u> umber:	9100]
LPR Settings			
<u>Q</u> ueue Name:	U1		
LPR Byte Counting E	nabled		
SNMP Status Enable	d		
Community Name:	public		
			4 I
<u>S</u> NMP Status Enable	d]

Click "Next".

🚱 븖 Add Printer		×
Additional Po	ort Information Required	
 The device is The network The device is The address If you think the a 	is connected. s properly configured. on the previous page is correct. ddress is not correct, click Back to return to the previous page. Then correct perform another search on the network. If you are sure the address is correct,	
Device Type <u>S</u> tandard © <u>C</u> ustom	Generic Network Card	cel

The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click "**Have Disk**", to provide the Manufacturer's Driver Disk. Click "**Next**".



Select a "Printer Name".



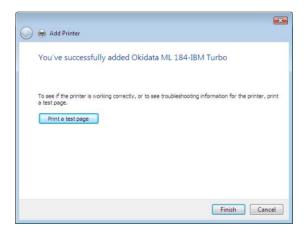
A Test Page can be printed to confirm proper configuration.



Once a test page has been sent to your printer, click Close.



Click Finish



Setting Up Windows XP TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows XP.

Click Start > Printer and Faxes and then Double Click "Add a Printer", then click "Next".



Select "Local Printer"



Create a new "Standard TCP/IP Port"

Computers communicate v	with 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
OUse the following port:	LPT1: (Recommended Printer Port)
• Create a new port:	

Click "Next"



Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click "**Next**".

Hint: You can get the Port name from the print server's system information through web browser. Please refer page 30.

Add Standard TCP/IP Printer	Port Wizard	
Add Port For which device do you want	to add a port?	
Enter the Printer Name or IP a	ddress, and a port name for the desired device.	
Printer Name or IP Address:	192.168.0.1	
<u>P</u> ort Name:	IP_192.168.0.1	
	< <u>B</u> ack <u>N</u> ext >	Cancel

Select "Custom", and click "Settings".

	rt Information Required could not be identified.	
	evice is of unknown type. Be sure that: properly configured.	
	on the previous page is correct.	
	e address and perform another search on the network by returning page or select the device type if you are sure the address is corre	
	page of select the device type if you are sure the address is cone	Ct.
	page of select the device type if you are sure the address is corre	ct.
Device Type	page of select the device type if you are sure the address is cone	ct.
A	Generic Network Card	ct.
Device Type	Generic Network Card	ct.
Device Type		сt.

Select "LPR", and put the Port name in the field labeled "Queue Name". Then Click "OK".

ort Settings		
Port Name:		IP_192.168.0.1
Printer Name or IP <u>A</u> ddress:		192.168.0.1
Protocol		
<u>○ R</u> aw		<u>⊙ </u> <u>L</u> PR
-Raw Settings		
Port <u>N</u> umber:	9100	
LPR Settings		
Queue Name:	U1	
LPR Byte Counting	Enable	d
SNMP Status Enab	led	
Community Name:	publi	c
SNMP <u>D</u> evice Index:	1	

Click "Next".

Additional Port Info The device could	prmation Required not be identified.	
	s of unknown type. Be sure that:	
 The device is prope The address on the 	riy configured. 9 previous page is correct.	
	ess and perform another search on the netwo	
revious wizard nade r	or select the device type if you are sure the a	toerroo si sserbh
ine ine including page :		
Device Type		
Device Type	neric Network Card	
Device Type		v.
Device Type	neric Network Card	



The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click "**Have Disk**", to provide the Manufacturer's Driver Disk.

Click "Next".

Add Printer Wizard		
Install Printer Softwa The manufacturer a		determine which printer software to use.
	Disk. If you	d model of your printer. If your printer came with an installation ar printer is not listed, consult your printer documentation for
Manufacturer		Printers
Fujitsu GCC Generic Gestetner Hewlett-Packard		🕼 hp deskjet 3420 series
This driver is digitally s Tell me why driver sig		Windows Update Have Disk
		< Back Next > Cancel

Select a "Printer Name".

Name Your Printer		1
You must assign a name to this printer.		
Type a name for this printer. Because som name combinations of more than 31 chara possible.		
Printer name:		
hp deskjet 3420 series		
Do you want to use this printer as the defa	ult printer?	
Yes		
⊙ Yes © No		

A Test Page can be printed to confirm proper configuration.

ld Printer Wizard			
Print Test Page To confirm that the printer is installed pro	operly, you can print	a test page.	
Do you want to print a test page?			
Yes			
C No			
	() ()	,	0
	< Back	Next>	Cancel

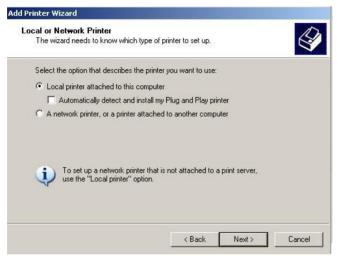
When the test page has been printed, click "Finish" to complete the installation.

Add Printer Wizard		and the second
	Comple Wizard	ting the Add Printer
		ccessfully completed the Add Printer Wizard. I the following printer settings:
	Name:	hp deskjet 3420 series
	Share name:	<not shared=""></not>
	Port:	U1
	Model:	hp deskjet 3420 series
	Default:	Yes
	Test page:	Yes
	To close this	wizard, click Finish.
		< Back Finish Cancel

Setting Up Windows 2000 TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows 2000.

Click Start > Settings > Printers. Double Click "Add Printer" Select "Local Printer"



Create a new "Standard TCP/IP Port"

Add Printer Wizard Select the Printer Computers comm	Port unicate with printers throug	gh ports.		Ŷ
Select the port yo new port.	u want your printer to use. ving port:	If the port is not	listed, you can c	reate a
Port LPT2: LPT3: COM1:	Description Printer Port Printer Port Serial Port	Printer		
COM2: COM3: COM4: Note: Most co	Serial Port Serial Port Serial Port Imputers use the LPT1: po	rt to communicat	te with a local pri	▼ nter.
Create a new Turan				
Туре:	Standard TCP/IP	Port		
		< Back	Next >	Cancel

Click "Next"



Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click "**Next**".

Hint: You can get the Port name from the print server's system information through web browser. Please refer page 30.

Add Standard TCP/IP Printer Port	t Wizard	×
Add Port For which device do you want	to add a port?	
Enter the Printer Name or IP ac	ddress, and a port name for the desired device.	
Printer Name or IP <u>A</u> ddress:	192.168.0.1	
Port Name:	IP_192.168.0.1	
	< <u>B</u> ack	Cancel

Select "Custom", and click "Settings".

The device is properly configured. The address on the previous page is correct. If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correstelect the device type below. Device Type Standard Generic Network Card	ould not be identified.		NV.
2. The network is connected. 3. The device is properly configured. 4. The address on the previous page is correct. If you think the address is not correct, click Back to return to the previous page. Then correct eddress and perform another search on the network. If you are sure the address is corrested: the device type below. Device Type C Standard Generic Network Card	ound on the network. Be sur	that:	
Device Type C Standard Generic Network Card	connected. properly configured. h the previous page is correct dress is not correct, click Bac erform another search on the		
	Generic Network Card		~
Custom Settings			

Select "LPR", and put the Port name in the field labeled "Queue Name". Then Click "OK".

Configure Standard TCP/IP Port	Monitor
Port Settings	
Port Name:	IP_192.168.0.1
Printer Name or IP <u>A</u> ddress:	192.168.0.1
Protocol	
⊂ <u>B</u> aw	€ LPR
- Raw Settings	
Port <u>N</u> umber: 9100	
- LPR Settings	
Queue Name: U1	
LPR Byte Counting Enabled	
SNMP Status Enabled	
Community Name: public	
SNMP Device Index: 1	
	OK Cancel

Click "Next"

dd Standard TCP/IP Printer Port Wizard	'd
Additional Port Information Required The device could not be identified.	d 🖌
The device is not found on the network. Be	e sure that:
	orrect. Back to return to the previous page. Then correct the network. If you are sure the address is correct,
Device Type C Standard Generic Network Card	
 Custom Settings 	

Click "Finish"



The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click "**Have Disk**", to provide the Manufacturer's Driver Disk.

Add Printer Wizard		
Install Printer Softw. The manufacturer a		determine which printer software to use.
disk, click Have compatible printe	Disk. If you	
Manufacturer	-	Printers
Fujitsu GCC Generic Gestetner Hewlett-Packard	•	tisi App deskjet 3420 series
This driver is digitally <u>Tell me why driver sid</u>		Windows Update Have Disk
		<back next=""> Cancel</back>

Click "Next"

Add Printer Wizard	
Use Existing Driver A driver is already installed f driver.	or this printer. You can use or replace the existing
HP Deskjet 3420 series	
Do you want to keep the ex Keep existing driver (rec Replace existing driver	isting driver or use the new one? ommended]
	< Back Next > Cancel

Select a "Printer Name".

Name Your Printer You must assign a name to this printer.		A
	ne programs do not support printer and server acters, it is best to keep the name as short as	
Printer name:		
hp deskjet 3420 series		
Do you want to use this printer as the def	ault printer?	
Do you want to use this printer as the def • Yes	ault printer?	
-	ault printer?	
	ault printer?	
	ault printer?	

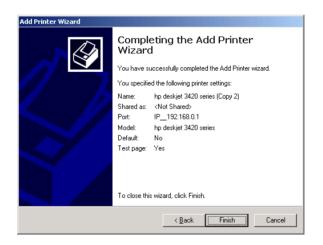
Sharing can be enabled here.

Printer Sharing You can share this printer w	ch other network users.	
	er, you must provide a share name. You can w one. The share name will be visible to othe	
Do not share this printer		
C Share name:		

Also, a Test Page can be printed to confirm proper configuration.

Add Printer Wizard			
Print Test Page To confirm that the printer is installed prope	erly, you can print	a test page.	Ì
Do you want to print a test page?			
Yes			
O No			
	< Back	Next >	Cancel

When the Test Page has been printed, click "Finish" to complete the installation.





PRINTING IN WINDOWS 985E/ME

The Print Server can provide print services to TCP/IP networks using the Ipr/Ipd network printing protocol. Most UNIX systems are capable of supporting Ipd, as is Windows NT/2000.

This LPR for TCP/IP Printing client gives Windows 98SE/ME workstations the ability to print using the Ipr/Ipd printing protocol. Though it is possible to print to Print Servers from Windows 98SE/ME, this capability is useful if primarily administer your network from UNIX systems, or if you want to print from workstations that are only accessible through IP routing.

Installing the LPR for TCP/IP Printing Client

Before your Windows 98/ME workstation can print using the lpr protocol, you will need to install the client program, as follows:

- 1. Make sure that you have installed the TCP/IP protocol, and have properly configured the Windows 98SE/ME TCP/IP settings. You can install the protocol from the Network control panel if necessary.
- 2. From the Start menu, choose the Settings submenu, then the Control Panel item within it. Windows will display the Control Panel folder.
- 3. Double-click on the Network icon in the Control Panel folder.

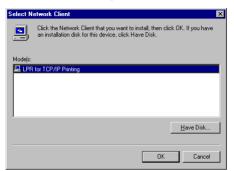


- 4. Click on the Add... button on the Configuration tab.
- **5.** Windows will ask for the type of component to add. Select Client and click **Add...** to continue.

Client	 Add
Adapter	
Protocol	Cancel
Service	

6. When Windows asks you to select a network client, click the Have Disk... button.

- 7. Insert the Print Server installation CD in your computer's CD-ROM, enter the proper pathname (for example , D:\ Ipr), and click **OK**.
- 8. Select the LPR for TCP/IP Printing client and click OK.



9. Windows will copy the necessary files, and return to the Network dialog. Click **OK** to let Windows restart.

Network ? 🗙
Configuration Identification Access Control
The following network components are installed:
Elient for Microsoft Networks
Client for NetWare Networks
LPR for TCP/IP Printing
NE2000 Compatible
¥ IFX/SPX-compatible Protocol ¥ NetBEUI
Add <u>R</u> emove <u>Properties</u>
Primary Network Logon:
Client for NetWare Networks
<u>File and Print Sharing</u>
Description
LPR for TCP/IP Printing (v1.00/1997-08-08) enables you to
connect to and use the printers connected on the Print Server devices that support TCP/IP LPR printing protocol.
devices that support I CP/IP LPN printing protocol.
OK Cancel

Adding LPR Printer Ports

Once you have installed the client, and have enabled TCP/IP printing for the Print Servers, then you need to add a printer port for each printer you will be printing to using the lpr/lpd protocol. To add a printer port,

- 1. From the **Start** menu, choose the **Settings** submenu, then the **Control Panel** item within it. Windows will display the Control Panel folder.
- 2. Double-click on the Network icon in the Control Panel folder.



3. Choose the LPR for TCP/IP Printing client and click the **Properties** button.

Network ? X					
Configuration Identification Access Control					
The following network components are installed:					
🔜 Client for Microsoft Networks					
Client for NetWare Networks					
🚊 LPR for TCP/IP Printing					
BE2000 Compatible					
FIPX/SPX-compatible Protocol					
🛊 NetBEUI 💌					
Add <u>R</u> emove <u>Properties</u>					
Primary Network Logon:					
Client for NetWare Networks					
<u>File and Print Sharing</u>					
Description LPR for TCP/IP Printing (v1.00/1997-08-08) enables you to connect to and use the printers connected on the Print Server devices that support TCP/IP LPR printing protocol.					
OK Cancel					

- 4. Click the **Add Port...** button to add a new lpd-accessible printer port.
- 5. Enter the IP address of the Print Server and the name of the printer port that you will be printing to, then press OK.

Hint: You can get the Port name from the print server's system information through web browser. Please refer page 30.

Add Port 🗙
IP Address : 202.39.74.188
Port Name :
PS-AA20AC-P1
OK Cancel

6. Click **OK** to leave the LPR for TCP/IP Printing Properties window.

LPR for TCP/IP Printing Properties	×
Ports Settings	
Port List	
N202.39.74.188\PS-AA20AC-P1	
Add Port	Delete Port
	OK Cancel

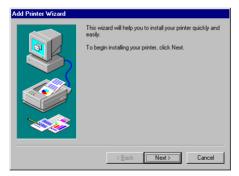
Printing from Windows 98SE/ME

After you have added the necessary printer ports, you can add a printer device for printing to the port. To enable printing to an Ipr-accessible printer port from Windows 98SE/ME,

- 1. From the Start menu, choose the Settings submenu, then the Printers item within it. Windows will display the Printers folder.
- 2. Double-click on the Add Printer icon in the Printers folder.

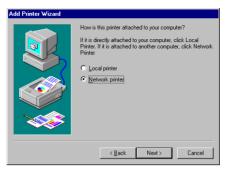


Windows will start the Add Printer Wizard.



Click the **Next** > button to continue to the next screen.

3. Choose the **Network Printer** selection and click the **Next** > button to continue.



4. Enter the name of the port, as displayed in the LPR for TCP/IP Printing Port List.

Add Printer Wizard	
	Type the network path or the queue name of your printer. If you don't know its name, click Browse to view available network printers.
	Network path or queue name:
	\\202.39.74.188\ps-aa20ac-p1
	Browse
	O Yes
	© №
	< Back Next > Cancel

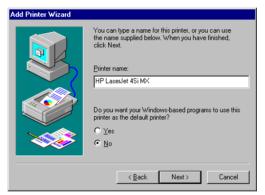
Alternatively, you can click **Browse...** and locate the printer port. TCP/IP printing ports are located under the Entire Network icon, within the Print Servers - TCP/IP LPR icon.



Press **OK** when you have located the proper printer port.

Click **Next >** to continue to the next step.

- 5. At this point Windows will ask you to choose the correct printer driver for the printer. Choose you printer's make and model from the list, or use the driver disk included with the printer. When you have chosen the correct printer, click Next > to continue.
- 6. Windows will then ask for a name for the new printer, and ask whether or not you want to set the printer as the Windows default printer. Click Finish (or Next >) to continue.



7. Windows may ask you whether or not you wish to print a test page to make sure that the printer will work correctly. When the test page is done printing, you will be asked whether or not the test page printed.

Setting TCP/IP Printing Settings

The Ipr client's Properties dialog allows you to change several of the client's settings. To change these settings,

- 1. From the **Start** menu, choose the **Settings** submenu, then the **Control Panel** item within it. Windows will display the Control Panel folder.
- 2. Double-click on the Network icon in the Control Panel folder.



3. Choose the LPR for TCP/IP Printing client and click the **Properties** button.

letwork ? ×
Configuration Identification Access Control
The following network components are installed:
Elient for Microsoft Networks
E Client for NetWare Networks
📇 LPR for TCP/IP Printing
NE2000 Compatible
FIPX/SPX-compatible Protocol
🕯 NetBEUI 💌
Add <u>B</u> emove <u>P</u> roperties
Primary Network Logon:
Client for NetWare Networks
Eile and Print Sharing
Description LPR for TCP/IP Printing (v1.00/1997-08-08) enables you to connect to and use the printers connected on the Print Server devices that support TCP/IP LPR printing protocol.
OK Cancel

4. Click on the Settings tab to access the Ipr client settings. Change the settings as necessary, and press **OK** to let the changes take effect.

LPR for TCP/IP Printing Properties	×
Ports Settings	
Communication Settings	
Communication Timeout : 5 seconds	
Retry Interval : 15 seconds	
Retry Times : 16 times 🔽 Infinite	
Spool Settings Spool Path : C:WIN95/SYSTEMILPRSPOOL]
Browse	
OK Cancel	

The parameters are as follows:

- Communication Timeout Determines how long, in seconds, the system will wait before determining that it has lost connection with lpr/lpd print servers.
- **Retry Interval** Determines how long, in seconds, the system will wait before retrying a lost connection.
- Retry Times Determines how many times the system will retry a lost connection with an lpr/lpd print server. If Infinite is checked, it will retry indefinitely.
- **Spool Path** Gives the directory path where the system will temporarily store lpr/lpd print server job files.



PRINTING IN MAC OS

NOTE: Mac OS printing is supported by Postscript printers only!

Below instruction is for your reference only. The actually screenshots and port names will differ depending on the print server. Below is the port name for each print server:

- TE100-P1P/TEW-P1PG => PS-XXXXXX-P1
- TE100-P1U/TEW-P1UG => U1
 - U1
- TE100-P21/TEW-P21G => PS-XXXXXX-U1 USB1
 - => PS-XXXXX-U2 USB2
 - => PS-XXXXXX-P3 Parallel1

MAC 10.6 SNOW LEOPARD USER

With Mac OS X Snow Leopard (10.6), you can use Bonjour, Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jetdirect - Socket printing through Print Server.



Click this icon in your Dock to open your System Preferences, then click Network icon

$\Theta \circ \circ$			System	Preferences			
< >	Show All					Q	
Personal							
New New	-			0	O		
Appearance	Desktop & Screen Saver	Dock	Exposé & Spaces	International	Security	Spotlight	
Hardware							
8	(Ø	5			0
Bluetooth	CDs & DVDs	Displays	Energy Saver	Keyboard & Mouse	Trackpad	Print & Fax	Sound
Internet &	Network						
	0	Q	۲				
MobileMe	Network	QuickTime	Sharing				
System							
11		**	()	8	2	0	
Accounts	Date & Time	Parental Controls	Software Update	Speech	Startup Disk	Time Machine	Universal Access

Select Ethernet Connection on the left menu bar, it will display your computer status.

	Q	
	3	
Location: Automatic	•	
Configure: IP Address: Subnet Mask: Router:	Ethernet is currently active and has the IP address 192.168.11.40. Manually 192.168.1.40	
	Advanced)	?)
	Status: Configure: IP Address: Subnet Mask: Router: DNS Server:	Status: Connected Ethernet is currently active and has the IP address 192.168.11.40. Configure: Manually IP Address: 192.168.1.40 Subnet Mask: 255.255.0 Router: DNS Server: Search Domains:

Adding a Printer

Click this icon in your Dock to open your **System Preferences** window as below.

000			System	Preferences			
	Show All					Q	
Personal							
New Ser	1		H	0	10	Q	
Appearance	Desktop & Screen Saver	Dock	Exposé & Spaces	International	Security	Spotlight	
Hardware							1
8	6		e	2		嵩	۵
Bluetooth	CDs & DVDs	Displays	Energy Saver	Keyboard & Mouse	Trackpad	Print & Fax	Sound
Internet &	Network						
		Ø					
MobileMe	Network	QuickTime	Sharing				
System							
11		* *	()			0	
Accounts	Date & Time	Parental Controls	Software Update	Speech	Startup Disk	Time Machine	Universal Access

Click the **Print & Fax** icon in **System Preferences** menu to view the menu below.

000	P	rint & Fax	
Show All		Q	
Click + to add a printer or fax	No Printer Selected		
+ -	Default Printer:	Last Printer Used	
Default Paper Size	in Page Setup:	A4 🗘	
Click the lock to prevent fu	rther changes.		?

Click the add button "+" to add a new printer.

Mac OS X Snow Leopard (10.6) supports five printing protocols:

- 1. Bonjour
- 2. Internet Printing Protocol (IPP)
- 3. Line Printer Daemon (LPD)
- 4. HP Jetdirect Socket

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled



or HP Jet Direct – Socket enabled printer, click the button and follow the instructions to add an IP Printer beginning on "Adding an IP printer" session

Bonjour-enabled Printers



To add a Bonjour-enabled printer, click the button in the window below

iult Fax	IP Windows	Bluetooth	AppleTalk	More Printers	Q Searc
Printer Name				A Kind	
PS-116688-P3				Bonjour	
S-116688-U1				Bonjour	
S-116688-U2				Bonjour	
Namai	PS-116688	02			
iname.	PS-110088	-83			
Location:	Local Zone				
Print Using:	Auto Select	t			-
	Opening conne				
100					

Select the printer model from **Printer Name** list and **Kind** type. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is PS-116688-P3. By default the **Printer Using** will use **Auto Select** to determine what printer configuration to use. This may also be manually selected in the Print Using drop-down menu by brand and model.

			Search
Printer Name		▲ Kind	
PS-116688-P3		Bonjour	
PS 116688 U1		Bonjour	
PS-116688-U2		Bonjour	
	PS-116688-U1		
Name:	PS-110088-01		
Location:			
Print Using:	Select a driver to use	•	-
	Q		
	C.		
	3300 Series		0
	350 Series		0
	4300 Series		
	4300 Series 5200 Series		
	E DE LA CONTRACTORIA DE LA CONTRACT		Ă.

Click the Add button to exit the window and implement the new setting.

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quite the **Printer Setup Utility** then start printing.



Adding an IP Printer

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled

or HP Jet Direct – Socket enabled printer, click the *protocol* button. Select the desired printing protocol from the **Protocol** drop-down menu.

efault Fax IP	P Windows	Bluetooth			
Protocol 🗸	Internet Prin Line Printer HP Jetdirect	iting Proto Daemon -	ocol – IPP	More Printers	Search
Queue:	inter host name				•
Name: N	No Selection				
Location:	No Selection				
Print Using:					×.

Type the IP Address of the printer, the name will appear in the **Name** field when the printer is found. This window will indicate that it is verifying the address. If the printer is found, this window will state "Valid and complete address" under the **Address** field.

The printer utility is able to detect the printer and may automatically select the correct printer driver in the **Print Using** field. Or manually select the printer-maker from the **Print Using** drop-down menu, and then select the printer model from the scroll-down list, or select **Generic PostScrip Printer** option from the **Print Using** drop-down menu if the model is not listed. To implement the setting, click **Add** button.

The setup procedures for these three printing protocols (Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jetdirect – Socket) are basically the same. Please find the example below.

For set up LPD Printing:

- 1. Enter the IP address of the print server to which the printer is attached in **Address** field.
- 2. Type the port name in **Queue** field.

00		0
	🔊 🚔 🚯 之 🚔	٩
Default Fax	IP Windows Bluetooth AppleTalk More Printers	Search
Protocol:	Line Printer Daemon - LPD	\$
Address:	192.168.0.10	
	Valid and complete address.	
Queue:	PS-116688-U1	•
	Leave blank for default queue.	
Name:	192.168.0.10	
Location:		
Print Using:	Generic PostScript Printer	•
		Add
		11.

For set up IPP Printing:

- 1. Enter the IP address of the print server in **Address** field. After that, enable print server's second port, and type
 - ": second port".
- NOTE: It is highly recommended to configure second port as 631, or any port from 1024 to 65535.
- 2. Type the port name in **Queue** field.

00					\bigcirc
		8	Ż		9
Default Fax	IP Windows	Bluetooth	AppleTalk	More Printers	Search
Protocol:	Internet Prir	iting Proto	ocol – IPP		•
Address:	192.168.0.1	0: second	port		
	Valid and comp	lete addres:	s.		
Queue:	PS-116688-	U1			
	Leave blank for	default que	ue.		
	100.100.0.1				
Name:	192.168.0.1	0			
Location:					
Print Using:	Generic Post	Script Prin	nter		\$
				(Add
and the second second					11.

For set up Socket Printing:

- 1. Enter the IP address of the print server to which the printer is attached in **Address** field. After that, type **": 9100"** for port 1, **": 9101"** for port 2 or **": 9102"** for port 3.
- 2. Keep the blank in queue field.

• ○ ○ 	9	Ā	8	R.	8	٩
Default Fax	IP	Windows	Bluetooth	AppleTalk	More Printer	rs Search
Protocol:	HP	Jetdirect	- Socket			•
Address:	192	.168.0.1	0: 9100			•
	Valid	and comp	lete addres	s.		
Queue:						*
	Leave	blank for	default que	eue.		
Name:	192	168.0.1	0			
Location:						
Print Using:	Gen	eric Post	tScript Pri	nter		•
						Add

Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quite the **Printer Setup Utility** then start printing.



MAC 10.5 LEOPARD USER

NOTE: Mac OS printing is supported by Postscript printers only!

With Mac OS X Leopard (10.5), you can use Apple Talk, Bonjour, Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jetdirect - Socket printing through Print Server.



Click this icon in your Dock to open your System Preferences, then click Network icon



Select **Ethernet Connection** on the left menu bar to review your computer information.



Click the **Advanced** button and then the **AppleTalk** tab as show below. Select the **Make AppleTalk Active** option, then click **OK** and the **Apply** button. AppleTalk is now active on the system. Now a printer can be added.

Make AppleTalk Active AppleTalk Zone: Configure: Automatically		
Configure: Automatically		
Saltan Made 201.011.201.0	alk Zone:	Refresh Zones
	onfigure: Automatically	•

Adding a Printer

Click this icon in your Dock to open your System Preferences, click Print & Fax icon.



The following screen will appear.

000	Р	rint & Fax		
Show All			Q	
Click + to add a printer or fax		No Printer Selected		
+ - Click here to add a printer Default Paper Siz	Default Printer: ze in Page Setup:	Last Printer Used	:	
Click the lock to prevent	further changes.			?

Click the add button "+" to add a new printer.

Mac OS X Leopard (10.5) supports five printing protocols:

- 1. AppleTalk
- 2. Bonjour
- 3. Internet Printing Protocol (IPP)
- 4. Line Printer Daemon (LPD)
- 5. HP Jetdirect Socket

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled



or HP Jet Direct – Socket enabled printer, click the printer button and follow the instructions to add an IP Printer beginning on "Adding an IP printer" session.

AppleTalk-enabled or Bonjour-enabled Printers

To add an AppleTalk-enabled or Bonjour-enabled printer, click the



Default button below.

ault Fax	IP Windows	Bluetooth	AppleTalk	(=) More Printers	Searc
aute Fax	ir windows	Bruetoour	Appretaik	More Frinters	Searc
Printer Name				Kind	_
PS-116688-P3				AppleTalk	
PS-116688-P3				Bonjour	
PS-116688-U1				AppleTalk	
PS-116688-U1				Bonjour	
PS-116688-U2				AppleTalk	
PS-116688-U2				Bonjour	
Location:	PS-116688- Local Zone	P3			
Print Using:	Auto Select				\$
	Opening conne	ction			

Select the printer model from **Printer Name/ Kind**. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is PS-116688-P3. By default the **Printer Using** will use **Auto Select** to determine what printer configuration to use. This may also be manually selected in the **Print Using** drop-down menu by brand and model.

efault Fax	IP Windows	Bluetooth	AppleTalk	More Printers	Search
Printer Name				A Kind	
PS-116688-P3				AppleTalk	
PS-116688-P3				Bonjour	
PS-116688-U1				AppleTalk	
PS-116688-U1 PS-116688-U2				Bonjour AppleTalk	
PS-116688-U2				Bonjour	
15 110000 02				bonjour	
Name:	PS-116688-	-U1			
Location:	-				
Print Using:	Select a driv	ver to use.			-
	Q				
	3300 Series				0
	350 Series				U
	4300 Series				
	5200 Series				
	5400 Series				× ×
	6200 Series				

Click the Add button to exit the window and implement the new setting.

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quite the **Printer Setup Utility** and start printing.



Adding an IP Printer

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled

or HP Jet Direct – Socket enabled printer, click the putton.

Select the desired printing protocol from the Protocol drop-down menu.

00				- ALLEN	\bigcirc
Default Fax	IP Windows	Bluetooth	AppleTalk		Q. Search
	Internet Prir ✓ Line Printer HP Jetdirect	iting Proto Daemon -	col – IPP	wore miller	
Queue:	Enter host name				
Name:	No Selection				
Location:	No Selection				
Print Using:					(
				. (Add

Type the IP Address of the printer, the name will appear in the **Name** field when the printer is found. This window will indicate that it is verifying the address. If the printer is found, this window will state "Valid and complete address" under the **Address** field.

The printer utility is able to detect the printer and may automatically select the correct printer driver in the **Print Using** field. Or manually select the printer-maker from the **Print Using** drop-down menu, and then select the printer model from the scroll-down list, or select **Generic PostScrip Printer** option from the **Print Using** drop-down menu if the model is not listed. To implement the setting, click **Add** button.

The setup procedures for these three printing protocols (Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jetdirect – Socket) are basically the same. Illustrated examples are include below for the sake of reference.

For set up LPD Printing:

- 1. Enter the IP address of the print server in Address field.
- 2. Type the port name in Queue field.

000		C
日 西 (🔊 🚔 🚯 🤕 🚔	9
Default Fax	IP Windows Bluetooth AppleTalk More Printers	Search
Protocol:	Line Printer Daemon - LPD	•
Address:	192.168.0.10	•
	Valid and complete address.	
Queue:	PS-116688-U1 Leave blank for default queue.	-
	Leave blank for deladit queue.	
Name:	192.168.0.10	
Location:		
Print Using:	Generic PostScript Printer	\$
	Ē	
	C	Add

For set up IPP Printing:

- 1. Enter the IP address of the print server in **Address** field. After that, enable print server's second port, and type
 - ": second port".
- NOTE: It is highly recommended to configure second port as 631, or any port from 1024 to 65535.
- 2. Type the port name in **Queue** field.

000			\bigcirc
Default Fax	P Windows Bluetooth Apple	Talk More Printers	۹ Search
Protocol:	Internet Printing Protocol -	IPP	•
Address:	192.168.0.10: second port		•
	/alid and complete address.		
Queue:	PS-116688-U1		
	eave blank for default queue.		
Name:	192.168.0.10		
Location:			
Print Using:	Generic PostScript Printer		•
		C	Add

For set up Socket Printing:

- 1. Enter the IP address of the print server in **Address** field. After that, type ": 9100" for port 1, ": 9101" for port 2 or ": 9102" for port 3.
- 2. Keep the blank in **queue** field.

$\Theta \cap \Theta$		0
3-1	🔊 🖴 🚯 之 🚔	۹
Default Fax	IP Windows Bluetooth AppleTalk More Printers	Search
Protocol:	HP Jetdirect - Socket	+
Address:	192.168.0.10 <mark>:9100</mark>	•
	Valid and complete address.	
Queue:		Ŧ
	Leave blank for default queue.	
Name:	192.168.0.10	
Location:		
Print Using:	Generic PostScript Printer	•
	\subset	Add
		11.

Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quite the **Printer Setup Utility** and start printing.

000		Print & Fax	
Show All		٩	
Printers 192.168.0.10 a Idle, Default		192.168.0.10	
		cation: Klind: Generic PostScript Printer Ratus: Idle, Default	
	(Open Print Queue Options & Supplies)	
+ -			
	Default Printer:	: Last Printer Used	
Default Paper Si	ze in Page Setup:	A4	
Click the lock to prevent	further changes.	(7)

MAC OS 10.4 TIGER USER

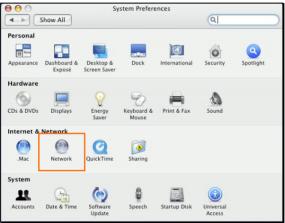
NOTE: Mac OS printing is supported by Postscript printers only!

With Mac OS X Tiger (10.4), you can use Apple Talk, Bonjour, Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jet Direct-Socket printing through Print Server.



in your Dock to open your System Preferences

Click this icon window as below.



Click the **Network** icon in **System Preferences** menu to view the menu below.

Select the **Apple Talk** tab in the **Network** menu. Check to select the **Make Apple TalkActive** option. Click the **Apply Now** button and close the menu. Apple Talk is now active on the system. Now a printer can be added.

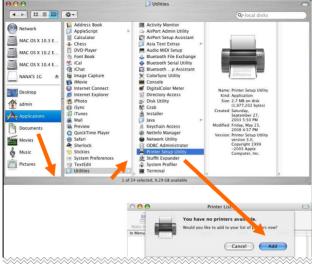
Location:	Automatic 🛟
Show: (Built-in Ethernet
TCP/IP PPP	oE AppleTalk Proxies Ethernet
	Make AppleTalk Active
Computer Name:	Chen Gloria's PowerBook G4 15" (Can be changed in Sharing Preferences)
AppleTalk Zone:	
Configure:	Automatically
To choose a zo	ne, first click Apply Now to turn on AppleTalk.

Adding a Printer

Use the **Go** menu at the top tool bar and select **Applications** option and find the **Utilities** folder or open the **Utilities** folder directly in **Go** menu.

Go	Window Hel	р
Ba	ck	36[
Fo	rward	36]
En	closing Folder	96 †
	Computer	企業C
1	Home	ΰ ℋH
0	Network	ΰжк
0	iDisk	•
A	Applications	ŵЖА
	Utilities	☆ ℋU
Re	cent Folders	Þ
Go	to Folder	企業G
Co	onnect to Server	¥K

In the Utilities folder, find and select Printer Setup Utility to open Printer List window. If no printer has been set up on your Macintosh, you will be prompted to add a printer. Click Add button on the pop-up dialogue box to open Printer Browser window.



Mac OS X Tiger (10.4) supports five printing protocols:

- 1. AppleTalk
- 2. Bonjour
- 3. Internet Printing Protocol (IPP)
- 4. Line Printer Daemon (LPD)
- 5. HP Jet Direct Socket

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled

or HP Jet Direct – Socket enabled printer, click on the **IP Printer** button and follow the instructions to add an IP Printer beginning on "Adding an IP printer" session.

AppleTalk-enabled or Bonjour-enabled Printers

To add an AppleTalk-enabled or Bonjour-enabled printer, click the



Default Browser button in the Printer Browser menu.

2	(Land)	Q	
ult Browser	IP Printer		Search
Printer Name		4	Connection
PT1			AppleTalk
.PT1			Bonjour
S-COD26A-P2			AppleTalk
S-COD26A-P2 S-COD26A-U3			Bonjour
S-C0D26A-U3 S-C0D26A-U3			AppleTalk Bonjour
Name:	PS-C0D26A-U3		
Location:	Local Zone		
Print Using:	Auto Select		\$
Sec.	Opening connection		

Select the printer model from **Printer Name** list and **Connection** type in the **Printer Browser** menu. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is PS-C0D26A-U3. By default the **Printer Browser** will use the **Auto Select** for **Print Using** to determine what printer configuration to use. This may also be manually selected in the **Print Using** drop-down menu by brand and model. Click the **Add** button to exit the **Printer Browser** window and implement the new setting.

10	Printer Brows		
		(Q,*	
ault Browser	IP Printer	Sear	ch
Printer Name		A Connec	tion
PS-116688-P3		AppleTa	
PS-116688-P3		Bonjour	
PS-116688-U1		AppleTa	
PS-116688-U1		Bonjour	
PS-116688-U2		AppleTa	
PS-116688-U2		Bonjour	
Name:	PS-116688-U1		
	PS-116688-U1 Local Zone		
Location:			•
	Local Zone		•
Location:	Local Zone HP		•
Location:	Local Zone HP Model		:
Location:	Local Zone HP Model DesignJet 5000PS		•
Location:	Local Zone HP Model Designjet 5000PS designjet 5500ps		•
Location:	Local Zone HP Model Designjet 5000PS designjet 5500ps Designjet 800PS HP 9085MFP HP 9085MFP eu		:
Location:	Local Zone HP Designlet 5000PS designjet 5500ps Designjet 800PS HP 9085MFP		:

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quit the **Printer List** and start printing.



Adding an IP Printer

To add an Internet Printing Protocol enabled, Line Printer Daemon enabled or HP Jet Direct – Socket enabled printer, click the IP Printer button in the **Printer Browser** window. Select the desired printing protocol from the **Protocol** drop-down menu.

	Pri	inter Browser	(
A	<u>e</u>	Q.+	
Default Browser	IP Printer	Sear	ch
		ting Protocol – IPP	
Protocol	 Line Printer I HP Jet Direct 		1
Address:	_		
	Enter host name o	or IP address.	
Queue:			
	Leave blank for de	efault queue.	
[
Name:	-		
Location:			
Drint Using:	Please select a	a driver or printer model	+

Type the IP Address of the printer, the name will appear in the **Name** field when the printer is found. The **Printer Browser** will indicate that it is verifying the address. If the printer is found, the **Printer Browser** will state "Valid and complete address" under the **Address** field.

he printer utility is able to detect the printer and may automatically select the correct printer driver in the **Print Using** field. Or manually select the printer-maker from the **Print Using** drop-down menu, and then select the printer model from the scroll-down list, or select **Generic PostScript Printer** option from the **Print Using** drop-down menu if the model is not listed. To implement the setting, click **Add** button.

The setup procedures for these three printing protocols (Internet Printing Protocol (IPP), Line Printer Daemon (LPD), and HP Jet Direct – Socket) are basically the same. Illustrated examples are include below for the sake of reference.

For set up LPD Printing:

- 1. Enter the IP address of the print server to which the printer is attached in **Address** field.
- 2. Type the port name in **Queue** field.

000		Printer Browser	0
2	9	(Q,=	
Default Browser	IP Printer		Search
Protocol:	Line Printe	er Daemon – LPD	•
Address:	192.168.0	10	
	Valid and com	nplete address.	
Queue:	PS-116688	3-U1	•
	Leave blank fo	or default queue.	
Name:	192.168.0.	10	
Location:	1921100101	***	
			-
Print Using:	Generic Po	stScript Printer	÷
(?)		More Printers	Add
0			

For set up IPP Printing:

- Enter the IP address of the print server to which the printer is attached in Address field. After that, type ": 80" or ": second port" if print server's second port is enabled.
- 2. Type the port name in **Queue** field.

000		Printer Browser	0
Default Browser	IP Printer	Q.+	earch
Protocol:	Internet Pr	rinting Protocol – IPP	•
Address:	192.168.0	.10 <mark>:80</mark>	•
	Valid and com	nplete address.	
Queue:	PS-116688	3-U1	
	Leave blank fo	or default queue.	
Name:	192.168.0.	10	
Location:	152.100.0.	10	
	Generic Po	stScript Printer	•
	-		
(2)		More Printers	Add
		more Frinters	nuu

For set up Socket Printing:

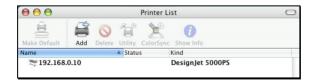
- 1. Enter the IP address of the print server to which the printer is attached in **Address** field. After that, type **": 9100"** for port 1, **": 9101"** for port 2 or **": 9102"** for port 3.
- 2. Keep the blank in **Queue** field.

00	P	rinter Browser	
4		Q.+	
ault Browser	IP Printer		Search
Protocol:	HP Jet Direct	– Socket	;
Address:	192.168.0.10	0: 9100	•
	Valid and comple	ete address.	
Queue:			*
	Leave blank for o	default queue.	
Name:	192.168.0.10)	
Location:			
Print Using:	HP		\$
	Model		
	DesignJet 5000F		
	designjet 5500p		
	Designjet 800PS	5	
	HP 9085MFP		
	HP 9085MFP eu		U
		jet 2250 PS – Ver 1.6	×.
	HP Business Inkj	jet 2280 PS – v1.0	Ť
		More Printers.	bbA

When the **Installable Options** pop-up window shows up as below, click **Continue** button.

00	Printer Browser	(
Steel In	nstallable Options	
J 1	92.168.0.10	
full advan	e your printer's options are accurately shown here so you can tak tage of them. For information on your printer and its optional , check the documentation that came with it.	e
Installed	d Memory: Standard	
🗹 ISO (A4,A3,)	
🗹 ANSI	(A,B,)	
🗹 DIN	(C4,C3,)	
🗹 JIS (B	i4,B3,)	
🗹 Arch	itectural	
?	Cancel Continue	
	HP 9085MFP	1
	HP 9085MFP eu	
	HP Business Inkjet 2250 PS - Ver 1.6 HP Business Inkjet 2280 PS - v1.0	
	(More Printers) Add	_

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use. Quit the **Printer Setup Utility** and start printing.



MAC OS 10.3 PANTHER USER

NOTE: Mac OS printing is supported by Postscript printers only!

With Mac OS X Panther (10.3), you can use Apple Talk, Line Printer Daemon (LPD), and Rendezvous, printing through Print Server.



Click this icon **System Preferences** window as below.



Click the **Network** icon in **System Preferences** menu to view the menu below.

000			Network	6		0
10			2			
Show All Dis	plays Sound	Network	Startup Disk			
	Locat	ion: Lo	cation (1/16/	09 3:56 PM)	•	
	Sh	iow: Bu	ilt-in Ethernet		;	
	TCP/IP	PPPoE	AppleTalk	Proxies	Ethernet	
			Make AppleT	alk Active		
	Computer N		min's Compu In be changed ir		erences)	
	AppleTalk 2	tone:			\$	
	Confi	gure: 🛛	utomatically		\$	
						0
						?
Click the	lock to preve	nt further	changes.	Assi	st me)(Apply Now

Select the **Apple Talk** tab in the **Built-in Ethernet** menu. Check to select the **Make AppleTalk Active** option. Click the **Apply Now** button and close the menu. Apple Talk is now active on the system. Now a printer can be added.

Adding a Printer:

Use the **Go** menu at the top tool bar and select **Applications** option and find the **Utilities** folder or open the **Utilities** folder directly in **Go** menu.



In the Utilities folder, find and select Printer Setup Utility to open Printer List window.

	📁 Utilities		0
\$**		Q- local disks	
Address Book Applestrap Applestrap	Adus Mul Setup Audio MUI Setup Bieteoth File Exchan Bieteoth Colorsyn Colorsyn Colorsyn Color Cohol Cohol	ge OO-	
			- 110
	000	Printer List	0
	You	I have no printers available	
	Adpress book Applestrop	Additional and a set of the	Cold disk C

If no printer has been set up on your Macintosh, you will be prompted to add a printer. Click **Add** button on the pop-up dialogue box to open the window below.

	Printer List	C
Make De	Rendezvous	
In Menu	Name 🔺	
	PS-116688-P3	
	PS-116688-U1	
	PS-116688-U2	
	Location: Local Domain Printer Model: HP	
	Model Name	
	DesignJet 5000PS	
	Designjet 800PS	
	HP Business Inkjet 2250 PS – Ver 1.6	
	HP Business Inkjet 2280 PS - v1.0	
	Cancel Add	

Mac OS X Panther (10.3) supports three printing protocols:

- 1. AppleTalk
- 2. Rendezvous
- 3. Line Printer Daemon (LPD)

To add an LPD enabled printer, click **IP Printing** in the drop-down menu and follow the instructions to add an IP Printer beginning on "Adding an IP printer" session.

AppleTalk-enabled or Rendezvous-enabled Printers

To add an AppleTalk-enabled or Rendezvous-enabled printer, click either **AppleTalk** or **Rendezvous** in the drop-down menu.



Select a printer name from the **Name** list. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is PS-1168-U1. By default the **Printer Model** will use the **Auto Select** to determine what printer configuration to use. This may also be manually selected in the **Print Model** drop-down menu by brand and model. Click the **Add** button to see the newly added printer in the Printer List window.

0	Printer L	ist	
De	Rendezvous	\$	
Name			
PS-11	l6688-P3		
PS-11	l6688-U1		
PS-11	6688-U2		
	Location: Local Domain Model: HP		•
	l Name		*
Desig	nJet 5000PS		
	njet 800PS		
	siness Inkjet 2250 PS – Ver 1.6		× I
HP Bu	siness Inkjet 2280 PS – v1.0		Ŧ
		Cancel Cancel	Add

The printer that has just been added will show up in the **Printer List** menu, it might take a few seconds depending on network conditions. When the printer appears listed it is ready for use.

Add Delete Utility ColorSync Show Info	
Make Default Add Delete Utility ColorSync Show Info	
In Menu Name 🔺 Status Kind	Host
🗹 💐 PS-116688-U1 DesignJe	t 5000PS

Adding an IP Printer

To add an LPD enabled printer, click **IP Printing** in the drop-down menu in the Printer List window.



After selecting **IP Printing**, a window displays as follows:

		Printer List	
Make De		IP Printing	
n Menu	Printer Type:	LPD/LPR	•
	Printer Address:	192.168.0.10	
		Complete and valid address.	
	Queue Name:	PS-116688-U1	
		Leave blank for default queue	
	Printer Model:	Generic	•
		Cance	Add

Set up LPD Printing:

- 1. Enter the IP address of the print server to which the printer is attached in the **Printer Address** field.
- 2. Type the port name in **Queue** field.
- 3. The printer utility is able to detect the printer and may automatically select the correct printer driver in the **Print Model** field. Or, manually select the printer-maker from the **Print Model** drop-down menu, and then select the printer model from the scroll-down list, or select **Generic** option from the **Print Model** drop-down menu if the model is not listed.
- 4. To implement the setting, click **Add** button.

Rendezvous Uses in MAC OS 10.2

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

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

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

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



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

000	AppleTalk Directory Services IP Printing	0
	✓ Rendezvous USB	2
Name PS-8251C6-U1 PS-B338A2-U1	local.	
Printer Model:	Generic	t)

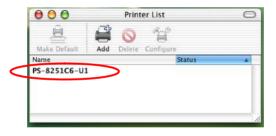
3. When clicking the **Rendezvous** item, the following window appears to display the connected Rendezvous-enabled printers.

000	Printer List
	Rendezvous 🗘
Name PS-8251C6-U1 PS-8338A2-U1	Location local. local.
\sim	Connected printer(s)
Printer Model:	Generic
	Cancel Add

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

	Rendezvous	+
Name	A Loca	ation
PS-8251C6-U1	loca	d.
PS-8338A2-U1	loca	4.
	Auto Select	
inter Model	Other	

5. The printer is installed into the system successfully.



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