TP-LINK®

User Guide

TL-WPS510U

Wireless Print Server



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FCC STATEMENT

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

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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

Complies with
IDA Standards
(DA104578)

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FCC Radiation Exposure Statement

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment."

CE Mark Warning

CEO

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

National Restrictions 2400.0-2483.5 MHz

Country	Restriction	Reason/remark
Bulgaria		General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy		If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation		Only for indoor applications

Note: It not used outdoors in France.

All contents and specifications are subject to change without notice.

DECLARATION OF CONFORMITY

For the following equipment: Product Description: **Wireless Print Server** Model No.: **TL-WPS510U** Trademark: **TP-LINK**

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 1995 / 5 / EC, Directives 2004 /108 / EC, Directives 2006/95/EC

The above product is in conformity with the following standards or other normative documents

Radio EMC ETSI EN 300 328 V1.7.1:2006 ETSI EN 301 489-1 V1.6.1:2005 ETSI EN 301 489-17 V1.2.1:2002 EN 60950-1:2006

The product carries the CE Mark

€€

Health & Safety

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC)

Signature:

Zhao Jianjun Director of International Business Date of Issue: 2008-04-30

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Chapter 1. Introduction

1.1 Product Overview

The external print servers enhance capability by letting you place your printers at convenient locations directly on the Ethernet network, and by increasing network printer performance and management. Please note that the print server does not support printing with host-based printers, e.g. CAPT, GDI, PPA.

1.2 Network configuration

The print servers provide an embedded web server that can be accessed via a proper web browser. We also subsidiary Windows-based PSAdmin utility which help administrator to setup print server environment.

1.3 Components and Features

Dongle-sized Wireless Print Server

- 1-USB2.0 High Speed port(PID1)
- > 1 Setup CD contains driver and manual for Windows system
- > One external AC power adapter
- > One Quick Installation Guide
- Built-in Reset Button

1.4 LED Indicators

LED	Status	Indication			
Power	On (Red)	The Print Server's power is on.			
	Off	The Print Server's power is off.			
WLAN	Blinking (Green)	Indicating the linkage and data transmission via wireless connectivity.			

Chapter 2. Installation

Before you start, you should prepare the following items:

- > One Windows-based computer with print server setup CD
- One printer
- > One printer cable
- One 802.11b/g Access Point (optional)

2.1 Hardware Installation

To install the print servers, you need to complete these steps:

- 1) Confirm that your printer parallel port or USB Port works well.
- 2) Connect the print server to the network and printer, and plug in the print server.

Follow these instructions to install the print servers, please refer to any peripheral you are connecting to the print server:

- 1) Turn off the printer's power.
- 2) Connect the print server to your printer with the supplied printer cable.
- 3) Turn the printer's power on.
- 4) Plug the AC power adapter into the power connector on the print server.
- 5) Wait 40 seconds as part of the print server's Power On Self Test (POST).

2.2 Wireless Network with Print Server:

- Username: admin
- Password: 0000
- Wireless Mode: Ad-Hoc (Peer-to-Peer)
- Channel: 1
- SSID: WLAN-PS
- IP Address: 192.168.0.10
- Subnet Mask: 255.255.255.0

Chapter 3. Print Server Installation

3.1 Preparation

The print server supports Standard TCP/IP Port printing protocol – LPR/LPD. This means that the print server supports the most popular network operating systems today, including Windows 2000/XP/2003/Vista, Linux and Mac OS 10.2 or above.

3.2 Configuration Solution Table

Setup Operating System	Function	Remarks			
PSAdmin utility / Setup Wizard					
Windows 2000/XP/2003, Vista	Install a single network on a peer-to-peer network	Easy printer installation runs from print server setup CD			
Embedded Web server					
Windows-based system, Mac OS, Linux…	Remote setup print server from private network	Follow standard browser, e.g. IE or Firefox			

3.3 Self-test Page

To know the current settings of print server, please follow these instructions to print the self-test page of print server.

- 1) Turn off the printer's power.
- 2) Connect the print server to your printer with the supplied printer cable.
- 3) Turn the printer's power on.
- 4) Plug the AC power adapter into the power connector on the print server.
- 5) Wait 40 seconds as part of the print server's Power On Self Test (POST).
- 6) Press the reset button for 8 seconds, and then release it.
- 7) Then, the test page includes the current settings of print server will be printed out.

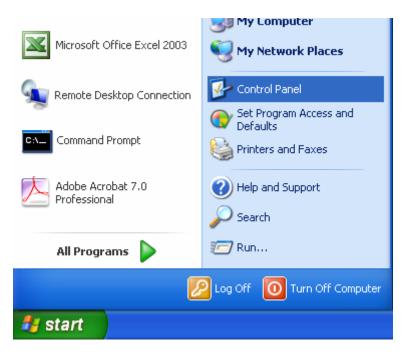
Chapter 4. Software Installation

The PSAdmin is a proprietary Windows-based management program that can assist you in configuring and managing your print server. The program can be installed from the setup CD of print server.

4.1 Prepare Your Computer

For Windows XP:

Step 1 On the Windows taskbar, click the Start->Control Panel



Step 2 select and double-click Networking Connections.



Step 3 Right Click Wireless Connection, select and click Properties.

1	Wireless Network Connection 12
	Disa <u>b</u> le
_	<u>Y</u> iew Available Wireless Networks
	Stat <u>u</u> s
	Repair
	Bridge Connections
	Create <u>S</u> hortcut
	Delete
	Rena <u>m</u> e
	P <u>r</u> operties

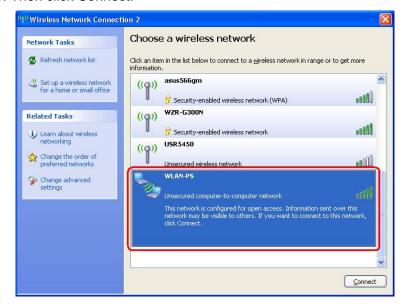
Step 4 Select Internet Protocol (TCP/IP), then double click it or click Properties.

🕹 Wireless Network Connection Properties 👘 🛛 🔀				
General Wireless Networks Advanced				
Connect using:				
TP-LINK 11b/g Wireless Adapter Configure				
This connection uses the following items:				
AEGIS Protocol (IEEE 802.1x) v3.4.3.0				
Retwork Monitor Driver Internet Protocol (TCP/IP)				
Install Uninstall Properties				
Description				
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication				
across diverse interconnected networks.				
Show icon in notification area when connected				
Notify me when this connection has limited or no connectivity				
OK Cancel				

Step 5. Select "Use the following IP address" and input the static IP address, e.g. 192.168.0.101, Subnet mask: 255.255.255.0;

192 . 16			
192 . 16			
	8.U	. 101	L
255 . 25	5.255	i. O	L
32	-	- 11 I	
0.000.000		•//	
	isses:	0.022/801	0.920 7 01

Step 6 Find the SSID (WLAN-PS) of wireless print server by Windows Zero Configuration or vendor utility of wireless adapter. Then click Connect.



For Windows Vista:

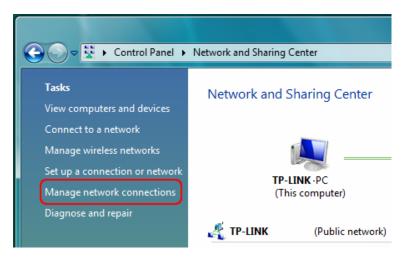
Step 1 On the Windows taskbar, click the Start, then select Control Panel;



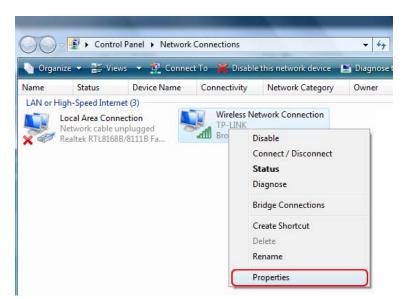
Step 2 Select Classic View on the left side then double-click Networking and Sharing center;

~				
🕞 💬 🗢 🔣 🕨 Control Panel 🕨				
Control Panel Home	Name	Category		
Classic View			å	
	Add Hardware	Administrat Tools	AGEIA PhysX	AutoPlay
	1			
	Color Management	Date and Time	Default Programs	Device Manager
	14 A	R		Q,
	Game Controllers	Indexing Options	Internet Options	iSCSI Initiator
)9	
	Network and Sharing Center	NVIDIA Contr	Offline Files	Parental Controls

Step 3 Click Manage network connections on the left side;



Step 4 Right click on Wireless Network Connection and select Properties;



Step 5 Highlight the Internet Protocol Version 4(TCP/IPv4) and select Properties;

Wireless Network Connection Properties	X
Networking Sharing	
Connect using:	
Broadcom 802.11g Network Adapter	
Configure	
This connection uses the following items:	
Client for Microsoft Networks	
🗹 📇 QoS Packet Scheduler	
🗹 📇 File and Printer Sharing for Microsoft Networks	
Internet Protocol Version 6 (TCP/IPv6)	
🗹 📥 Internet Protocol Version 4 (TCP/IPv4)	
🗹 🛶 Link-Layer Topology Discovery Mapper I/O Driver	
🗹 🔺 Link-Layer Topology Discovery Responder	
Install Uninstall Properties	

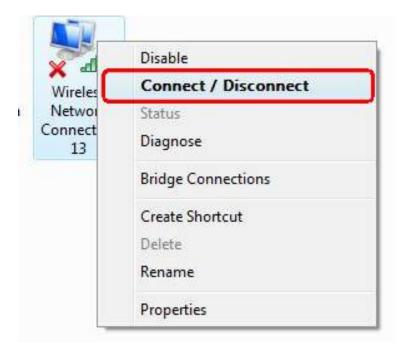
Step 6 Select "Use the following IP address" and input the static IP address, e.g. 192.168.0.101, Subnet mask: 255.255.255.0, then click OK.

Internet Protocol Version 4 (TCP/IPv4)	Properties 2
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automatical	y
• Use the following IP address:	
IP address:	192.168.0.101
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	· · ·
Obtain DNS server address autom	natically
Ose the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Advanced
	OK Cancel

Step 7 Go back to Network and Sharing Center, then click Manage network connections.



Step 8 Right click on Wireless Network Connection and select Connect/ Disconnect;

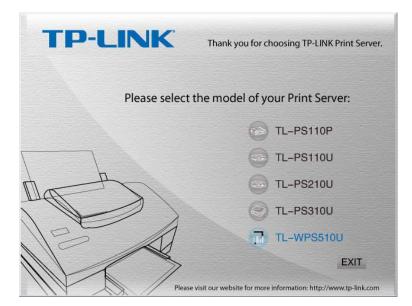


Step 9 Click 5 Refresh button to view the wireless network. Select the WLAN-PS, then double click it or click Connect.

Connect to a network	
Disconnect or connect to another network	
Show All	(+ ₇)
TP-LINK Unsecured network	Î llee
WLAN-PS Unsecured network	lle.
	E
Set up a connection or network Open Network and Sharing Center	
C	Connect Cancel

4.2 Installing the PSAdmin and Setup Wizard

- 1) Insert the setup CD into your CD-drive. The autorun program will be started.
- 2) Select **TL-WPS510U** for your print sever.



3) Choose **Setup Wizard** to install the print server and configure the connected printer.

TP-LINK Wireless Pri	nt Server Setup	
Setup Wizard		
Documentation		
Exit	Welcome to the Wireless Print Server CD ROM Browser. Select one of the options to contimue.	¥31.1

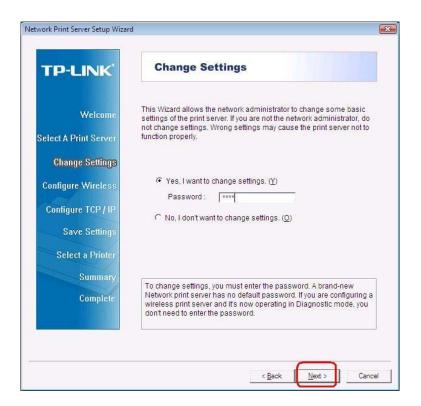
4) Click Next, the wizard will automatically discover the print server.

	Print Server Setup Wizard
Welcome	This Wizard guides you through the installation of the Network print server that is connected to the local area network on this computer.
lect A Print Server	
Change Settings	Before you proceed, make sure the print server and the printer are properly connected and turned on.
Configure Wireless	
Configure TCP / IP	To continue, click Next.
Save Settings	
Select a Printer	Version 0.95.02
Summary	
Complete	

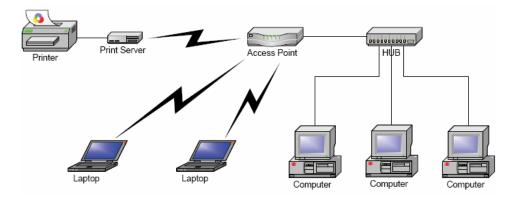
5) From the **Select A Print Server** screen, select the print server port that you want to configure and click **Next**.

TP-LINK	Select A	Print Ser	ver		
Welcome			g print servers on th o set up from the lis		ork.
Select A Print Server	Detected print serv	vers on your loca	network :		
	Device Name	IP Address	MAC Address	Port	Status
Change Settings	1P_PrintServ01	192.168.0.10	00:1A:FF:01:34	U1	Ok
Configure Wireless Configure TCP / IP					
Configure TCP / IP Save Settings		711			F
Configure TCP / IP	<		is not displayed.	R	⊧ efresh(<u>R</u>)
Configure TCP / IP Save Settings	Land	ou want to set up		R	► efresh(<u>R</u>)
Configure TCP / IP Save Settings Select a Printer	If the print server y check the connect	ou want to set up ion and click Refi server has just l rint server to initia		nay take	a few

6) On the Change Settings screen, select No or Yes:

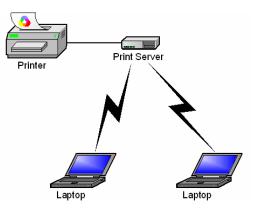


- a) Click **Yes** if you want to change wireless settings or assign a static IP address to the print server, the **default password is 0000**
- > On the **Basic Wireless Settings** screen, select **Communication Type** according to your network:



Infrastructure mode

Ad-Hoc



> Enter the proper SSID of your wireless network, e.g. the SSID of your wireless router or access point;

Channel: optional

Data Transmit Rates: select Auto or others

Transmit Mode: select Auto or others

1	Basic Wireless Settings
Welcome	Configure the following wireless settings on the print server. These settings must match your wireless network for the print server to communicate with all computers over a wireless connection.
Select A Print Server	Communication Type : Infrastructure
Change Settings	SSID : Enter the SSID of your own wireless network
Configure Wireless	Data Transmit Rates : Auto
Configure TCP / IP	Transmit Mode : G only 💌
Save Settings	 In Infrastructure (Access Point) mode, the wireless network print server will communicate with network computers through an Access Point.
Select a Printer	2.In Ad-Hoc or 802.11b Ad-Hoc mode, wireless devices communicate with each other directly.
Summary	
Complete	If the communication type is 'Infrastructure (Access Point)', you do not have to enter the Channel number used by the Access Point.

If you have wireless security on your wireless network, please set the correct Authentication type, then configure it according to your wireless network and click Next.

	Wireless Se	ecurity
	This page allows you t safeguarding the wirel	to set up the print server's security feature for less connection.
Welcome		
	Authentication Type :	Open System 👻
elect A Print Server	Encryption :	Open System
and the state of the	Encolphien :	Shared Key
Change Settings		WPA-PSK
		WPA2-PSK
Configure Wireless	1 Ear 64-hit (comptime	es called 40-bit) WEP encryption, enter the key
Configure TCP / IP		anumeric character or 10 hexadecimal digits
Save Settings	alphanumeric charact	ryption, enter the key which contains 13 ers or 26 hexadecimal digits (depending on
Palast - Distant	the key format you sele	ect)
Select a Printer		racter is a through z, A through Z, and 0
Summary	through 9. A hexadecir	nal digit is 0 through 9 and A through F)
	Note: The key is case	e-sensitive. A print server is accessible if the

On the TCP/IP Settings screen, specify a fixed or dynamic IP address for the print server, a fixed IP address is highly recommended. Click Next.

H H	TCP/IP Settings	
Welcome Select A Print Server		print server. The print server can be ss from a DHCP server on the Idress.
Change Settings	Obtain an IP address	automatically (use DHCP)
Configure Wireless	Specify an IP address	3
Configure TCP/IP Save Settings	IP Address Mask IP Address Gateway IP Address	192.168.0.10 255.255.255.0
Select a Printer Summary	Galeway in Audiess	192.168. 0. 1
Complete		you set up the print server to use a the IP address is correctly entered for rly.

PNote:

The IP address of print server must be within the same subnet as your network adapter.

e.g. Wireless Router or Access Point (192.168.0.1)

Wireless Printer Server (192.168.0.10) PC\Laptop (192.168.0.101)

- b) If you click **No** on the "**Change Settings**" page, the printer server will keep using the default IP address and the default settings:
 - > Username: admin
 > Encryption: none
 - > Password: 0000 > DHCP client: off
 - > Ad-Hoc mode > IP address: 192.168.0.10

> Channel: 1

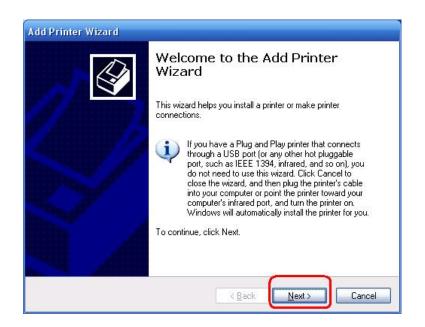
> Subnet Mask: 255.255.255.0

- > SSID: WLAN-PS
- 7) In the setup wizard, select an already configured printer from the list, click **Next** and then **Finish** to complete the installation.

Or select **Add New Printer** if the print server is connected to a printer that hasn't been installed before and does not appear in the list.

TP-LINK	Select A Printer		
Welcome	The Wizard now helps you set up the print print server. You can either select a printe installed on this computer or add a new p	r that has already been	
elect A Print Server	Select a printer from the following list	Add New Prin	iter
Change Settings	Printer Name	Port	Т
Configure Wireless	Samsung ML-1750 Series PCL6 Microsoft XPS Document Writer HP Laser let 1022n	USB001 XPSPort: LPT1:	
Configure TCP / IP	Canon iP2500 series	LPT2:	
Save Settings			
Select a Printer			
Summary	1		
Complete	To add a new printer, you need a printer the driver file that you've downloaded from		

8) Click Add New Printer to launch Windows Add Printer Wizard.



9) Click Next and select Local Printer, make sure the Automatically detect and install my Plug and Play printer check box is NOT checked. Then click Next.

Local or Network Printer The wizard needs to know w	which type of printer to set up.
Select the option that describ	bes the printer you want to use:
Local printer attached to I	this computer
Automatically detect a	and install my Plug and Play printer
🔘 A n <u>e</u> twork printer, or a pri	nter attached to another computer
To set up a network use the "Local print	s printer that is not attached to a print server, er'' option.
	< Back Next > Cancel

10) Make sure the **Use the following port** radio-button is clicked and select **LPT1: (Recommended Printer Port)** from the pull-down list. Then click **Next**.

elect a Printer Port Computers communicate	e with printers through ports.
Select the port you want new port.	t your printer to use. If the port is not listed, you can create a
⊙ Use the following por	rt: LPT1: (Recommended Printer Port)
	rs use the LPT1: port to communicate with a local printer. iis port should look something like this:
	3
O <u>Create a new port</u> Type of port:	HP Standard TCP/IP Port

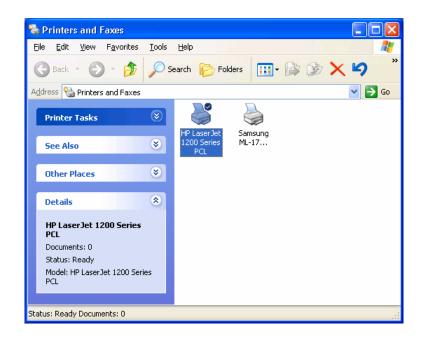
11) Select Manufacturer and Printer from the lists of printer's driver. Then click Next.

The manufacturer and m	nodel determine which printer software to use.	×
	rer and model of your printer. If your printer came with If your printer is not listed, consult your printer docume ware.	
Manufacturer	Printers	
Gestetner HP	HP LaserJet 1100 (MS) HP LaserJet 1200 Series PCL	-
IBM infotec	HP LaserJet 1200 Series PS (MS)	
	HP LaserJet 1220 Series PCL	
This driver is digitally signed		<u>H</u> ave Disk

- 12) If you already have the printer's driver installed, you will be asked whether to keep it or to replace it. Click **Next**. Supply a name for the printer and choose whether you want to make it your default printer. Then click **Next**.
- 13) Then, choose whether you want to share the printer with other network users, print a test page (please select **No**.), etc. Select the appropriate radio-button and click **Next** and **Finish**.
- 14) In the setup wizard, finish the installation by highlighting the installed printer in the **Select a Printer** list and click **Next**, **Next** -> **Finish**.

TP-LINK	Select A Printer		
Welcome	The Wizard now helps you set up the prin print server. You can either select a printe installed on this computer or add a new p	er that has alre	
Select A Print Server	Select a printer from the following list		Add New Printer
Change Settings	Printer Name	Port	
Configure Wireless	HP LaserJet 1200 Series PCL 5 Samsung ML-1750 Series PCL6	LPT1: USB001	
Configure TCP / IP	Microsoft XPS Document Writer HP LaserJet 1022n Canon iP2500 series	XPSPort: LPT1: LPT2:	
Save Settings			
Select a Printer			
Summary	1		
Complete	To add a new printer, you need a printer the driver file that you've downloaded fro		
			t)

15) From Windows system, go to **start** -> **Printers and Faxes** and highlight your newly installed printer.



16) Right-click, select **Properties** -> **Ports** and verify that the print server's port appears.

i HP La	serJet 1	200 Se	eries PCL P	ropertie	5	? 🛛
General	Sharing	Ports	Advanced	Device Se	ettings	
3	HP Las	erJet 120	00 Series PCL	2		2
checke		ng port(s). Documents	will print to		
Port			Description		Printer	<u>^</u>
	DM4:		Serial Port			
FI	LE:		Print to File			
U 🗆 🗆	SB001		Virtual printer	port fo		100
DD	DT4_001		psc printer			
	_192.168	0.10-1	Standard TC	P/IP Port	HP LaserJet	1200 S
<			Ш]	>
A	dd Port		Delete F	Port		e Port
<u>Enat</u>	ble bidirect					
			ОК		Cancel	Apply

- 17) Go to **General**; click **Print Test Page** to verify the configuration.
- 18) Done.

Note:

If you wish to install more print servers, start setup wizard from your Windows Start menu: **start** -> **All Programs** -> **Network Print Server** -> **PSWizard** and repeat the installation procedure.

4.3 How to create print server port manually?

- From your Windows Start menu: start -> All Programs -> Accessories -> System Tools -> Control Panel -> Hardware and Sound -> Printers.
- 2) Find your installed printer icon, right-click, select Properties -> Ports -> Add Port -> Standard TCP/IP Port -> New Port -> Next.
- 3) Input the exact IP address of print server that you configured it. Click **Next**.
- 4) Select **Custom**, and click **Settings**.
- 5) Choose LPR, and input the queue name as lp1.
- 6) Click OK -> Next -> Finish, to complete the wizard.
- 7) Click Close -> Apply.
- 8) Now, the print server port has been created.

4.4 How to know the current settings of print server?

- 1. Plug the AC power adapter into the power connector on the print server.
- 2. Wait 40 seconds as part of the print server's Power On Self Test (POST).
- 3. Press the reset button for 8 seconds, and then release it.
- 4. Then, the test page includes the current settings of print server will be printed out.

4.5 Using PSAdmin

After the software of setup CD is successfully installed, starts PSAdmin utility from your Windows Start menu: start -> All Programs -> Network Print Server -> PSAdmin. The screen will then appear as follow picture.



All print server(s) on the WLAN will be displayed along with their respective device name, MAC Address, print server name, firmware version, and status. The terms are defined as follows:

- > **Device Name**: The name of the print server hardware used for identification purposes.
- > **MAC Address**: The Ethernet address of the print server.
- > Version: The firmware version of the print server.
- > Status: Connected printer's status presently.

4.6 Wizard

Wizard is a configuration program that can assist you in setting up the necessary parameters for your print server device to function. Setup a print server by using Wizard.

TCP/IP Wizard

1) Click **Wizard** button just like a picture < >.and select **TCP/IP Wizard**.

Configuration	Please select one of following wizard(s):
Wizard	TCP/IP Wizard
	Description
	TCP/IP Wizard can assist you in setting up the necessary parameters for TCP/IP printing.

- 2) Select "Obtain an IP address from DHCP server". If there is a DHCP server on your network. This option allows the print server to obtain IP-related settings automatically from your DHCP server. This setting, by default, is disabled. If you would like to manually specify an IP address to the device, please skip to the following step.
- 3) In the IP Address option, type an IP address for the print server. The IP address must meet the IP addressing requirements of the network segment.

TCP/IP Wizard	
Configuration Wizard	TCP/IP Wizard Image: Several severa several several severa several several several several severa sev
	Cancel

- 4) (*Optional*) In the **Subnet Mask** option, type the Subnet Mask your LAN or network segment is currently configured to use.
- 5) (Optional) In the Gateway field, type the IP address of gateway.
- 6) When done, click **OK** button. The program will save the above settings into the print server.
- 7) Done

4.7 Manual Setup

Manual Setup is a configuration program designed for more experienced users. Also, all the configurations here can be configure by the WEB management of print server. You can refer to the Chapter 4.

4.7.1 General:

- 1) Select the print server that you wish to configure.
- 2) Click **Properties** in the tool bar and the following screen will appear, **Properties** button just like a picture <

>, as follow picture: (The factory default password is **0000**.)

R	This print server need a setup password to configuration, please input the password.
	Password : ****

Then, user can change the print server's device name and password. The factory default password is **0000**.

1P_PrintServ5CE3E	3 Properties 🛛 🔀
Print Server Configuration	Seneral Image: Wireless Image: TCP/IP Ceneral Information Device's information : Image: MAC Address : 00:02:72:5C:E3:EB F/W Version : 6.01.43E 0025 Model : 43 Print Ports : 1 Device Name : 1P_PrintServ5CE3EB Setup Password To prevent unauthorized users from changing device settings, you can set up password for this print server. Image: Password Image: Password for this print server.
	OK

4.7.2 Wireless:

User can change the print server's wireless settings and security to match his current wireless network.

	🐠 General 🚊 Wireless 🎆 TCP/IP
Print Server Configuration	Wireless Setting The page allows you to set up this print server to be an Access Point or a wireless station on the network. Access Point : Mode : 802.11b Ad-Hoc ESSID : WLAN-PS Channel : 1 (1 - 11) Basic Rates : Auto Transmit Mode : Auto

4.7.3 TCP/IP:

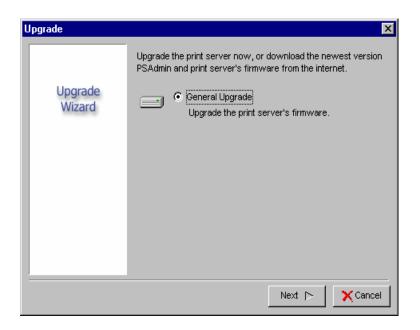
User can change the print server's IP address. Default is **192.168.0.10/255.255.255.0**. We highly recommend specifying a **fixed** IP address for the print server

		e automatically assigned to the print
Print Server Configuration	DHCP server, please server.	rver. If your network does not have a specify an IP address for the print dress from a DHCP server
	IP Address :	192 . 168 . 0 . 10
	Subnet Mask :	255 . 255 . 255 . 0
	Gateway :	192 . 168 . 0 . 254

4.8 Upgrade

Upgrade allows the user to upgrade the print server device. In order to upgrade the unit please perform the steps as follows:

1) Click **Upgrade** button just like a picture < , as shown as follow picture



2) Select **General Upgrade**. Make sure that the upgrade file(mps43.bin) is located in the same directory as PSAdmin.

4.9 Reset

- 1) Click **Reset** button just like a picture $< \bigcirc >$.
- 2) Reset allows the user to reset the print server device in order to establish a new connection or for new settings to take effect.

4.10 Refresh

- 1) Click **Refresh** button just like a picture < .
- 2) Refresh searches all attached print server(s).

Chapter 5. Configuration from Embedded Web Server

5.1 Overview

The Print Server contains an embedded web server that can be accessed through a supported web browser on a WLAN, for example, IE6, Firefox or above is recommended.

The embedded web server provides access to configuration and management pages for the print server and the connected peripheral device.

5.2 Using Embedded Web Server

Before you can use the embedded web server, the print server must be configured with a proper IP address. There are many ways to configure the print server's IP address. For example, the Windows-based of PSAdmin utility can easily set an IP address with the print server, please refer to the chapter 3.

Once you have finished the IP address configuration with print server. You should use web browser to manage the print server.

Preparation

Enter the print server's IP address in the Address field of your Web browser. Press Enter. Then the print server page will appear. From here you can configure all print server settings.

Setup Menu

Meanwhile, you have finished the IP address configuration with print server. You should use web browser to configure the print server. The setup menu of the print server helps administrator to setup the print server.

Preparation

Enter the IP address of the print server as the URL.

Factory default IP address: 192.168.0.10

User Name: admin

Password: 0000

Connect to 192	.168.0.10
	GER
1P_PrintServ5CE3	EB
<u>U</u> ser name:	🖸 admin 💌
Password:	••••
	Remember my password
	OK Cancel

5.3 Status Menu

Once you have finished the IP address configuration with print server. You should be use web browser to view and manage the print server.

Preparation

Enter the print server's IP address in the Address field of your Web browser. Press Enter. Then the print server page will appear. From here you can configure all print server settings.

Please follow this information in the status menu of the print server:

5.3.1 System Status

- 1) Click **Status**, it then appears the sub-menu.
- 2) Click **System**, it then as shown in the following picture.

TP-LINK		Wirel	TL-WPS510U ess Print Server
Status	Misc Resta	rt	
System	Wireless	Printer	TCP/IP
Print Server Name: System Up Time: Firmware Version: MAC Address:	1P_PrintServ0134CD 0000 DAY 04:19:32 6.01.43E 0046a LOAU 00:1a:ff:01:34:cd	DER 3.5 WEB 54.0001	
Inc Address.	00,10,11,01,04,00		

- Print Server Name: This option allows you to view device name of the print server. To correct the print server's device name.
- System Up Time: This option allows you to view uptime of the print server. When you start the print server, it will compute the print server from start time to power off time.
- **Firmware Version:** This option allows you to view firmware version of the print server. To verify the print server's firmware version is newer in this time.
- MAC Address: This option allows you to view Node ID of the print server. The Node ID is unique from any print server.

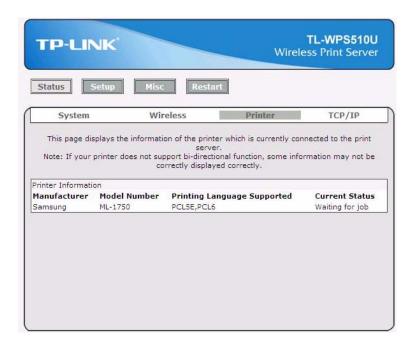
5.3.2 Wireless Status

- 1) Click **Status**, it then appears the sub-menu.
- 2) Click **Wireless**, it then as shown in the following picture about the current wireless settings.

TP-LINK		Wirel	TL-WPS510U Wireless Print Server	
Status Setup) Misc Resta	rt		
System	Wireless	Printer	TCP/IP	
Network Type	Ad-Hoc WLAN-PS			
Network Type	Ad-Hoc			
SSID	WLAN-PS			
Channel	6			
Channel				
Channel Transmission Rate	Auto			
	Auto			

5.3.3 Printer Status

- 1) Click **Status**, it then appears the sub-menu.
- 2) Click **Printer**, it then as shown in the following picture.

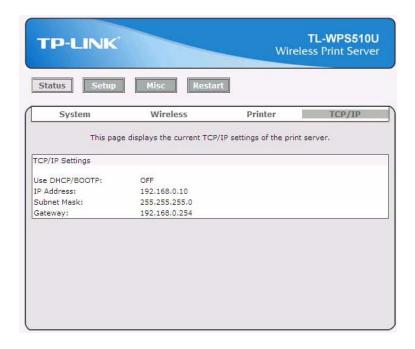


- Manufacturer: This option allows you to view manufacturer of the printer. When the printer connected with the print server, it will be show in the manufacture box.
- Model Number: This option allows you to view model of the printer. When the printer connected with the print server, it will be show in the model box.

- Printing Language Supported: This option allows you to view command to set the printer. When the printer connected with the print server, it will be show in the command box.
- Current Status: This option allows you to view status of the printer. When the printer connected with the print server, it will be show in the status box. For Example: Waiting for job. It is means the printer already to printing.

5.3.4 TCP/IP Status

- 1) Click **Status**, it then appears the sub-menu.
- 2) Click **TCP/IP**, it then as shown in the following picture.



- Use DHCP/BOOTP: This option allows you to view DHCP/ BOOTP status. If there is a DHCP/BOOTP server on your network, this option allows the print server to obtain IP-related settings automatically from your DHCP server.
- IP Address: This option allows you to view IP address from the print server. The IP address must meet the IP addressing requirements of the network segment. (default: 192.168.0.10)
- Subnet Mask: This option allows you to view subnet mask from the print server.
- **Gateway:** This option allows you to view gateway from the print server.

5.4 Setup Menu

Meanwhile, you have finished the IP address configuration with print server. You should use web browser to configure the print server. The setup menu of the print server helps administrator to setup the print server.

Preparation

Enter the IP address of the print server as the URL, default: 192.168.0.10. Then the print server's home page will appear in content of the web browser.

Please follow this information in the setup menu of the print server:

5.4.1 System Setup

- 1) Click **Setup**, it then appears the sub-menu.
- 2) Click **System**, it then as shown in the following picture.

TP-LINK		TL-WPS510U Wireless Print Server
Status Setup	Misc Restart	
System	Wireless	TCP/IP
System Settings		
	1P_PrintServ0134CD	
System Settings Print Server Name : Administrator's Password Account :		
Print Server Name :	1P_PrintServ0134CD admin	

- Print Server Name: This option allows you to input device name of the print server. To correct the print server's device name.
- Password: This option allows you to change password of the print server. Factory default is 0000. (default user name is admin, it's not available to change)

5.4.2 Wireless Setup:

- 1) Click **Setup**, it then appears the sub-menu.
- 2) Click **Wireless**, it then as shown in the following picture.

TP-LI	NK			TL-WPS510L Wireless Print Serve
Status	Setup	Misc	Restart	
Syste	em		Wireless	TCP/IP
This s	etup page	allows you to	configure wireless s	ettings of the print server.
Basic Settings				
Network Type :		Infrastruct	ure 🔻	
SSID :		WLAN-PS		
Channel :		6 🔻		
Transmission Ra	te :	Automatic	*	
Wireless Mode :		• Mixed M	lode C G-Only Mo	ode
Advanced Settin Security Type((• Disable • WEP			
	Key Ind		C1 C2 C3	
		tion Type :	64-bit (10 hex c	ligits) 💌
	Key 1 :			
	Key 2 :			
	Key 3 :		1	
	Key 4 :			

Basic Settings:

- > **Network Type:** To change the WLAN type to Ad-Hoc(default) or Infrastructure.
- **SSID:** To change the SSID to connect an existing wireless network.(default: WLAN-PS)
- > **Channel:** Indicates the channel setting for this print server.
- > **Transmission Rate:** Select the basic transfer rates based on the speed of wireless network.
- > Wireless Mode: Select the WLAN mode based on the existing wireless network

Advanced Settings:

Security Type: To change the wireless security settings based on the existing wireless network. Default setting is Disable.

The print server provides three kind of security settings: WEP (64/128bit), WPA (TKIP/AES (CCMP)) and WPA2 (TKIP/AES (CCMP)) to fit an existing security setting of wireless network.

WPA-PSK and WPA2-PSK support Infrastructure mode only.

And the following site survey table will provide a list of existing wireless network. You can choose one to join.

5.4.3 TCP/IP Setup:

- 1) Click **Setup**, it then appears the sub-menu.
- 2) Click **TCP/IP**, it then as shown in the following picture.

FP-LINK	c	TL-WPS510U Wireless Print Server
Status Setu	p Misc Restart	
System Wire	less TCP/IP	Mor
This setup	page allows you to configure TCP	/IP settings of the print server.
CP/IP Settings		
_	settings automatically (use DHCP/	BOOTP)
_	settings automatically (use DHCP/ ng TCP/IP settings	'BOOTP)
C Obtain TCP/IP		(BOOTP)
C Obtain TCP/IP :	g TCP/IP settings	(воотр)
 Obtain TCP/IP : Use the followir IP Address: 	ng TCP/IP settings	'ВООТР)
 Obtain TCP/IP : Use the followin IP Address: Subnet Mask: 	g TCP/IP settings 192.168.0.10 255.255.255.0	'воотр)
 Obtain TCP/IP : Use the followin IP Address: Subnet Mask: 	g TCP/IP settings 192.168.0.10 255.255.255.0	'воотр)
 Obtain TCP/IP : Use the followin IP Address: Subnet Mask: 	g TCP/IP settings 192.168.0.10 255.255.255.0	

- DHCP/BOOTP: This option allows you to select DHCP/ BOOTP option. If there is a DHCP/BOOTP server on your network. This option allows the print server to obtain IP-related settings automatically from your DHCP server.
- IP Address: This option allows you to input IP address from the print server. The IP address must meet the IP addressing requirements of the network segment.

PNote:

On the TCP/IP Setup screen, specify a fixed IP address is highly recommended.

- Subnet Mask: This option allows you to input subnet mask from the print server. The IP address must meet the IP addressing requirements of the network segment.
- Default Router: This option allows you to input gateway from the print server. This IP address of gateway must meet the router or gateway to go across of the network segment.

5.5 Misc

- 1) Click **Misc**, it then appears the sub-menu.
- 2) Click **Factory Default**, it can restore the factory default settings to print server. It will erase all previous settings.

TP-LIN	JK.	TL-WPS510U Wireless Print Server
Status	etup Misc	Restart
Factory Def	ault Firmwa	are Upgrade
All current Click Firm	settings will be erased.	o reload all default settings in the print server. Warning! wse to your firmware directory and reload the print OK

3) Click **Firmware Upgrade**, it then as shown in the following picture.

	TL-WPS510U Wireless Print Server
Misc	
Firmware Upgrade	
	Browse
Firmware Upgrade	
	Firmware Upgrade ows you to upgrade the firmware firmware is correct before you and use, please contact your loca y and File:

Firmware Upgrade: To upgrade your print server with the up-to-date firmware.

5.6 Restart

Click **OK** to reboot the print server.

TP-LINK	TL-WPS510U Wireless Print Server
Status Setup	Misc
Restart	
	s page allows you to restart the print server. Restart The Print Server In to save settings and restart the print server now ? OK

Chapter 6. TCP/IP LPR Port Printing Installation

DHCP

The print server supports DHCP feature, allowing the print server to obtain an IP address and related TCP/IP settings automatically from a DHCP server. While the print server supports DHCP, we strongly recommend you manually specify a **fixed** IP address to the print server. By default, the print server's DHCP function is disabled and the IP address is 192.168.0.10.

6.1 Windows 2000/XP/2003/Vista Standard TCP/IP Port Printing Installation

- 1) Click Start, point to Settings, and select Printer.
- 2) Run Add Printer, Click Next.
- 3) The Add Printer Wizard screen will appear, Select Local Printer and click Next.
- 4) From the type of **Create a new port** box as shown in the following picture, select the **Standard TCP/IP Port**, Click **Next** and **Next**.

Add Printer Wizard									
	Select the Printer Port Computers communicate with printers through ports.								
Select the port yo new port.	Select the port you want your printer to use. If the port is not listed, you can create a new port.								
O Use the follow	wing port:								
Port	Description	Printer							
LPT1: LPT2: LPT3: COM1: COM2: COM3:	LPT1: Printer Port HP LaserJet 5 LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port								
Note: Most c	omputers use the LPT1: po	rt to communicate with	n a local printer.						
💿 Create a new	port:								
Туре:	Create a new port: Type: Local Port Local Port Local Port Network Print Port Standard TCP/IP Port Cancel								

5) The Add Standard TCP/IP Printer Port Wizard box will then appear as shown the picture as below, and type in the IP address assigned to the print server in the *Printer Name or IP Address* box, Click **Next**.

Add Standard TCP/IP Printer Port	t Wizard	×					
Add Port For which device do you want							
Enter the Printer Name or IP a	Enter the Printer Name or IP address, and a port name for the desired device.						
Printer Name or IP Address:	192.168.10.200						
Port Name:	IP_192.168.10.200						
	< Back Next >	Cancel					

6) In the Add Standard TCP/IP Printer Port Wizard box as shown in the following picture, Select Custom, Click Settings button, and click Next.

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

- 7) In the **Configure Standard TCP/IP Port Monitor** box as shown in the following picture, select **LPR** form Protocol, type in a queue name: **Ip1**.
- 8) Click **OK**, and **Next**.

Configure Standard TCP/IP Port	Monitor ?	2 ×
Port Settings		
Port Name:		-
Fort Name.	IP_192.168.10.200	- 11
Printer Name or IP Address:	192.168.10.200	
Protocol-		
C Raw	LPR	
Raw Settings		
Port Number: 9100		
LPR Settings		
Queue Name: Ip1		
E LPR Byte Counting Enabled		
SNMP Status Enabled		
Community Name: public		
SNMP Device Index: 1		
	OK Cancel	

- 9) Click Finish.
- 10) Select the appropriate printer manufacturer and printer type list and click Next.
- 11) Type in a new Printer name or leave it in default, and click Next button.
- 12) A message reading, "To confirm that the printer is installed properly, you can print a test page". Select **Yes** (Recommended) and click **Finish**.
- 13) Done.

6.2 Mac OS 10.4 and Linux LPR/LPD Installation

For LPD printing application in Mac OS X 10.4.x

- 1) From the **Printer Setup Utility**, click **Add**.
- 2) Click IP Printer and select Line Printer Daemon LPD.
- 3) Input the **IP address** of print server and the **Queue** name: lp1.
- 4) Choose a proper printer model from the **Print Using**. Then click **Add**.

0	-0	Printer Browser	
	9	Q.+	
ult Browser	IP Printer		Search
Protocol:	Line Printe	er Daemon – LPD	\$
Address:	192.168.0	.10	
	•	me or IP address.	
Queue:	lp1		
	Leave blank fo	or default queue.	
Name:	192.168.0.	10	
Location:			
Print Using:	HP		•
	Model		
	HP LaserJet 1	300 Series	
	HP LaserJet 1	320 series	
	HP LaserJet 2		0
	HP LaserJet 2		
	HP LaserJet 2		
	HP LaserJet 2		2
	HP LaserJet 2	420	1
)		<i></i>	
		More Printers	Add

6.3 Redhat Linux 9/Fedora Core

The Print Server can work under any Linux-based systems, including Slackware, RedHat, etc, without any problems.

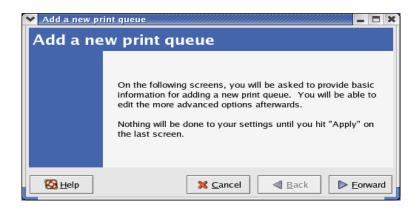
Basically, the Linux's printing system is based on BSD system. Although many commercial Linux systems are available in the market and their commands will vary slightly, depending upon which version is used, the functionality of the Linux-based variants is exactly the same.

Following are the outlined procedures (*recommended for all users*) on Red Hat Linux or later with *X-Window* system installed.

- 1) Make sure that the TCP/IP is well configured on your RedHat system, including network interface card's driver and IP-related settings say, IP address, subnet mask, and gateway IP).
- 2) Log in *root*.
- 3) Start X-windows by typing *startx* at the shell mode.
- 4) Open **Printer Configuration**.

Y	Printer	configu	iration -	baghdad		-	
	<u>A</u> ction	<u>T</u> est	<u>H</u> elp				
	_		S.		B		
12	New	Edit	Delete	Default	Apply		
Q	ueue nan	ne 👻 D	efault D	escription			
				-			

5) Click New button.



6) Click Forward button.

Add a new print que Queue name	<u>ie</u> (11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1			
name that begins with Name: hplj2200	for this queue. Choose a short n a letter and contains no spaces.			
About If you like, you can e to help you identify it	nter a description of the printer more easily.			
Short description: HPLaserJet2200				
🔀 <u>H</u> elp	Sancel			

7) In the **Name** field, type a user-defined name, click **Forward**.

Select a queue typ	e: Networked <u>U</u> NIX (L	.PD) ≚	
Server:	Qu	eue:	
192.168.10.251	lp:	1	

- 8) In the **Queue Type** field, choose **Networked UNIX**.
- 9) In the **Server** field, type the IP address of print server
- 10) In the **Queue** field, type a print server's port name, which connect to the printer. For example: lp1.
- 11) Click Forward button.
- 12) In the **Printer** field, choose **Postscript Printer**.

✓ Add a new print queue	/////// = 🗆 ×
Printer model	
Select the printer manufacturer and model. Depending on how the remote queue is configured, you may need to select the generic PostScript option here.	<u>N</u> otes
HP	*
LaserJet 2100M	^
LaserJet 2200	
LaserJet 2D	
Lasoriat 3P	*
Help X Cancel A Back	▶ <u>F</u> orward

13) Choose the model of printer and click **Forward**.

\star Add a new pr	int queue			
Finish, and create the new print queue				
r mon, a	id create the new print queue			
	About to create the following queue:			
	Turn Hele Diel Onen			
	Type: Unix Print Queue Queue: lp1@192.168.10.251			
	Printer: HP LaserJet 2200			
🔀 <u>H</u> elp	X Cancel			

14) Done.

Chapter 7. Upgrading Print Server

7.1 Overview

Upgrading print server will allow you to upgrade its firmware inside the print server while the newer software version of the print server is available from your local dealer. Depending on the different systems users might use, this chapter is divided into several Sections; please refer to the following lists for your systems.

1. Upgrading the print server from PSAdmin

2. Upgrading the print server from command prompt

3. Upgrading the print server from WEB browser

PNote:

- 1) Before you proceed to upgrade the print server, please ensure that the necessary binary file is located on your current working directory.
- 2) Before upgrading the print server, ensure that it is not printing jobs. You have to wait until the print job is finished before you can proceed.
- 3) Be careful not to interrupt the file transfer. If the transfer is interrupted, the print server may have to be re-initialized by your dealer.

7.2 Upgrading the print server from PSAdmin

- 1) Ensure binary file is located in the PSAdmin directory.
- 2) Run **PSAdmin** from your Windows-based computer.
- 3) Click the **Upgrade** icon on tool bar.

7.3 Upgrading the print server from command prompt

- 1) Ensure binary file is located in your current working directory.
- 2) At command prompt, and type "tftp -i <print server's IP address> put mpsXX.bin ".
- 3) Wait for the transfer successful message.
- 4) Done.

7.4 Upgrading the print server from Browser

- 1) Ensure binary file is located in your local drive.
- 2) Enter the IP address of the print server as the URL. Default is 192.168.0.10
- 3) Click Misc, and then choose Firmware Upgrade.
- 4) Click **Browse...** and select the firmware file.
- 5) Click Firmware Upgrade button.
- 6) Done.

Chapter 8. Troubleshooting

General Troubleshooting Overview

The most common problems, which cause the print server to perform improperly, are covered in this chapter. If a problem still exists after reading this chapter, please contact your dealer for technical support.

1) LED Light Indicators

The print server is equipped with LED lights to assist in diagnosing problems that are the result of the network and/or the print server hardware itself.

Power (Red)

When the print server unit is powered on, the **Power** LED will be turned on. This indicates that the print server hardware is properly configured.

Wireless (Green)

Indicating the linkage and data transmission via wireless connectivity.

2) Power Related Problems

The print server requires an external AC power adapter in order for it to function. If you have a power problem, check to see whether the power cord or its connectors are damaged. More importantly, check to see that the AC power adapter included with the print server matches the AC voltage in your country or area. Using an incorrect AC adapter will damage your print server.

3) Print Port Related Problems

Printing data failure may be caused by a loose connection of the print server to the USB port of the printer. Check to see if any of the pins on the USB port connector are damaged. In addition, check the cable connection. If the pins are damaged, contact your dealer for a replacement connector.

4) TCP/IP Troubleshooting

A. The print server's Node ID you specified in the "arp" command is not correct.

If this is the case, please ensure the Node ID field in the corresponding entry of the print server's IP address in NT's ARP cache table is correct by typing the following command at NT's DOS prompt. "arp -a"

If the Node ID shown on the screen doesn't match the print server's Node ID, please follow the instructions below to reset the entry.

- 1) At NT's DOS prompt, type "arp -d <print server's IP address>" to delete the current entry.
- 2) Type "arp -s <print server's IP> <print server's Node ID>" to specify a new ARP entry.

B. The print server's IP address is duplicated or is as same as another computer's IP address on the network.

If this is the case, please consult your network administrator to obtain an unused IP address for your print server.

Appendix A: Reset Button

Perform a Factory Default:

- 1. Disconnect the external power adapter.
- 2. Hold down the reset button.
- 3. Reconnect the external power adapter. Wait about 15 seconds.
- 4. Release the reset button.
- 5. The print server will restart, the POST time needs 40 seconds.

WARNING:

This will erase all settings of print server to default and should be performed with caution!

After performing a factory default, the default settings will be:

- Username: admin
- Password: 0000
- Wireless Mode: Ad-Hoc (Peer-to-Peer)
- Channel: 1
- SSID: WLAN-PS
- IP Address: 192.168.0.10
- Subnet Mask: 255.255.255.0

Appendix B: Frequently Asked Questions

1) Question A:

Print jobs are sent to the print queue successfully, but fail to be sent to the printer.

Possible explanations:

- 1. The Print server Name/Print Queue configuration is incorrect.
- 2. The Print server name specified and stored in the print server memory doesn't match the same one.
- 3. The power adapter connected to the print server is loose or disconnected.
- 4. The printer is off-line, jammed or out of paper.

Solutions:

- 1. Check all the information in print port setting.
- 2. Check all the information of the print server by running PSAdmin.
- 3. Check to see that if the power adapters are properly connected.
- 4. Recheck the print server connection by running the PSAdmin.

2) Question B

Print jobs start printing, but print very slowly or print unknown characters.

Possible explanation and solution:

A printer driver is missing or is incompatible with that printer. Using a print driver that is not specific for the printer can cause printing errors. Install the proper printer driver. If these printer drivers are not available to you, please contact your printer manufacturer.

3) Question C

The upgrading process indication bar stops and does not seem to proceed again while upgrading the print server.

Possible Explanation:

There might be a network problem. This causes the upgrading procedure to fail.

Solutions:

1) Check the wireless network connection, especially from the workstation running the PSAdmin to the print server unit.

2) Upgrade the print server again by PSAdmin or WEB browser.

4) Question D

The setup Wizard can't find print server.

Possible Explanation:

The Personal Firewall installed in your computer blocks the connection.

Solution:

Please disable the Personal Firewall temporarily or adjust the security level to lower.

Appendix C: Additional Installation Instructions

Panasonic KX-P6100/6300/6500

If you are using a Panasonic KX-P6100/6300/6500 laser printer with the print server through the **Network Print Port** under Windows 95/98, please redirect the printer named "**Panasonic KX-P6100 PCL**" or "**Panasonic KX-P6300 PCL**", or "**Panasonic KX-P6500 PCL**" to the print server through the **Network Print Port**.

DO NOT redirect the printer named "Panasonic KX-P6100 GDI", "Panasonic KX-P6300 GDI", or "Panasonic KX-P6500 GDI" to the print server.

Please note that the print server doesn't support printing with host-based printers, e.g. CAPT, GDI, and PPA printers. Furthermore, the print server doesn't support any non-printing functions of MFP (Multiple Function Printer).

In case of static electricity or noise of power cable issue causes print server to disconnect, please re-plug the USB cable or re-start power to connect again.