

# **Quick Installation Guide**

## **TCP/IP Printing** (LPR for Windows 95/98/Me/2000)

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# Setting up Windows 95/98/Me TCP/IP Printing

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

The LPR for TCP/IP Printing client gives Windows 95/98/Me workstations the ability to print using the LPR/LPD printing protocol. Though it is possible to print to Print Servers from Windows 95/98/Me, LPR printing is primarily used in networks with UNIX based implementation or if the user wants to print from workstations that are only accessible through IP routing.

## Installing the LPR for TCP/IP Printing Client

Before your Windows 95/98/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 95/98/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.

Network

- 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.

Click the type of net	work component you want to	install:
💾 Client		<u>A</u> dd
Adapter		
🍯 Protocol		Cancel
📇 Service		
A client enables u	w computer to connect to all	~

- 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:\ lpr), 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.

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Network
Configuration Identification Access Control
· · ·
The following network components are installed:
Elient for Microsoft Networks
Elient for NetWare Networks
LPR for TCP/IP Printing
NE 2000 Compatible
IPX/SPX-compatible Protocol
I 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 TLP/IP LPR 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 will 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 ? 🗙
Configuration Identification Access Control
The following network components are installed:
Elient for Microsoft Networks
Client for NetWare Networks
LPR for TCP/IP Printing
WE2000 Compatible
IPX/SPX-compatible Protocol
a NetBEUI
Add <u>R</u> emove <u>P</u> roperties
Primary Network Logon:
Client for NetWare Networks
File and Print Sharing
Description
LPR for TUP/IP Printing (VT.UU/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, and then press OK.

dd 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.

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LPR fo	r TCP/IP Printing Properti	es	×
Ports	Settings		
Po	ort List		
	₩202.39.74.188\PS-AA20AC-	P1	
	Add Port	Delete Port	
		OK	Cancel

## Printing from Windows 95/98/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 LPR-accessible printer port from Windows 95/98/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.

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

**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 gath or queue name: \\202.33.74.188\ps-sa20ac-p1	
(***)	Do you print from MS-DOS-based programs? C ⊻es C №	
	< <u>Back</u> 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.

Browse for Printer	? ×
Select the network printer that you want to add. Note: Printers are usually attached to computers.	
Image: Second secon	
	<b>T</b>
ОК Са	ancel

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 will prompt whether to print a test page to make sure that the printer that the printer is functioning properly. Windows will then prompt whether the test page printed.

## Setting TCP/IP Printing Settings

The LPR 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.

Vetwork
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
File IPX/SPX-compatible Protocol
a NetBEUI
Add <u>R</u> emove <u>P</u> roperties
Primary Network Logon:
Client for NetWare Networks
·
Eile and Print Sharing
Description
LPB 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 LPR 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:WN95/SYSTEMLPRSPOOL	
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.

# 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	Select the Printer Port Computers communicate with printers through ports.			
Select the port yo new port.	u want your printer to use.	If the port is not listed, you ca	n create a	
Deat	Description	Dista		
LPT1: LPT2: LPT3: COM1: COM2: COM3:	Printer Port Printer Port Printer Port Serial Port Serial Port Serial Port	1 HIRCH		
Note: Most co	Note: Most computers use the LPT1: port to communicate with a local printer.			
Create a new	port:			
Туре:	Standard TCP/IP	Port		
		< <u>B</u> ack <u>N</u> ext>	Cancel	



Click "Next"

Input the IP Address of the DP-313, and the Port name of the Port that will be printed to, then click "Next".

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 a	ddress, and a port name for the desired device.	
Printer Name or IP Address:	192.168.0.1	1
Port Name:	PS-00DF17-P2	1
	< <u>B</u> ack <u>N</u> ext >	Cancel

🐴 PS-00DF17(DP-313+) - Mi	crosoft Internet Expl	orer	
Ele Edit View Favorites	s <u>T</u> ools <u>H</u> elp		
🛛 💠 Back 🔹 🤿 🚽 👔	🖧 🔯 Search 🛛 🙀 Fi	avorites 🎯 History 🛛 🛃 - 🎒	
Address 🙋 http://192.168.0.1	1/		
D-I imle -			DB 212
D'LINK		Wireless Print Se	rver DP-313
Management	Configuration	<u>Tools</u>	<u>Help</u>
		Description -	
Configuration		Second I am E	
Server Device		Speed : Low	
ICP/IP Protocol		PJL Printer : Yes 💌	
NetBEULPTOTOCOL AppleTalk Drotocol			
Apple Talk Protocol	LPT2	Port Name : PS-00DF17-P2	
		Description :	
		Speed Low 💌	
		PJL Printer · Yes •	
	LPT3	Port Name : PS-00DF17-P3	
		Description	
		Speed I w	
		DT Distan Van -	
		FJL Frinter : Yes 💌	
	Wireless Interface	ESS-TD defa	ult

The Port name can be located from the Web Management.

Select "Custom", and click "Settings".

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
C Standard Generic Network Card
Custom Settings
< Back Next > Cancel

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

Configure Standard TCP/IP	Port Monitor	<u>?</u> ×
Port Settings		
Port Name:	PS-00DF17-P2	
Printer Name or IP Address:	192.168.0.1	
Protocol	,	
© <u>B</u> aw	⊙ <u>L</u> PR	
- Raw Settings		
Port <u>N</u> umber:	9100	
LPR Settings		
Queue Name:	PS-00DF17-P2	
LPR Byte Counting Er	nabled	
SNMP Status Enabled	1	
Community Name:	public	
SNMP <u>D</u> evice Index:	1	
	OK	Cancel

#### Click "Next".

	P/IP Printer Port Wizard	
Additional Por The device	t Information Required could not be identified.	
The detected de 1. The device is 2. The address of Either correct the previous wizard p	vice is of unknown type. Be sure that: properly configured. on the previous page is correct. s address and perform another search on the network by returning to the page or select the device type if you are sure the address is correct.	
Device Type – C <u>S</u> tandard	Generic Network Card	

#### 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
Add Printer Wizard The manufacturer and model determine which printer to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Manufacturers: Emitters:   Epson HP DeskJet 340   Fuitau HP DeskJet 340 (Monochrome)   GCC HP DeskJet 400 (Monochrome)   Generaic HP DeskJet 400 (Monochrome)   Gestether HP DeskJet 420   HP HP DeskJet 500   IBM HP DeskJet 500   Windows Update Have Disk
< <u>B</u> ack <u>N</u> ext > Cancel

### Click "Next".



#### Select a "Printer Name".

d Printer Wizard		
Name Your Printer You must assign a name for this printer.	E	Ş
Supply a name for this printer. Some prog combinations of more than 31 characters	ams do not support server and printer name	
Printer name:		
HP DeskJet 500		
	( Pack Maut ) Came	-
	< <u>D</u> ack <u>N</u> ext > Lance	81

Sharing can be enabled here.

Add Printer Wizard	
Printer Sharing You can share	a this printer with other network users.
Indicate wheth printer, you mu	ner you want this printer to be available to other users. If you share this st provide a share name.
Do not sha	are this printer
⊂ <u>S</u> hare as:	
	,
	< <u>B</u> ack <u>N</u> ext> Cancel

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



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

Add Printer Wizard		
	Completing the Add Printer Wizard	
	You have successfully completed the Add Printer wizard.	
	You specified the following printer settings:	
	Name: HP DeskJet 500 Shared as: <not shared=""> Port: PS-00DF17-P2 Model: HP DeskJet 500 Default: Yes Test page: Yes</not>	
	To close this wizard, click Finish.	
< <u>B</u> ack Finish Cancel		