D-Link DP-301U Fast Ethernet Print Server

Manual

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Package Contents



Contents of Package:

- D-Link DP-301U Pocket-Sized Print Server
- Manual and Warranty on CD
- Printed Quick Installation Guide

If any of the above items are missing, please contact your reseller.

System Requirements:

- A computer with an installed Ethernet adapter
- Windows Vista/XP/2000/NT4/ME/98SE/95
- Apple Mac OS 9.x to MAC OS X 10.4.x
- Linux, Solaris, SCO Unix, AIX
- Internet Explorer 6.0 or above; Netscape Navigator version 6.0 or above, with

JavaScript enabled

Printer must support required operating system

Introduction

The D-Link DP-301U Print Server is a packet size print server that connects to your Ethernet/Fast Ethernet network anywhere you wish to locate printer services. The DP-301U manages the flow of print files from workstations or file servers to connected printers, delivering print jobs to printers much faster than a file server or a PC acting as a print server can.

The DP-301U includes easy-to-use software to install on most Windows-based networks. Protocol support for TCP/IP, NetBEUI, and AppleTalk are provided to ensure seamless connection to major networking Operating Systems.

The DP-301U has a built in Web-Based management feature that allows users to easily configure and manage multiple print queues through TCP/IP. The DP-301U also supports Telnet as an alternative method to configure the unit.

The DP-301U improves network printing services in the following ways:

The DP-301U picks up the workload of managing print file traffic to its connected printers. This provides workload relief to your file servers, and allows the file servers full capacity to be used for file access or other direct services to network users. On peer-to-peer networks, workstations can print directly to the Print Server without increasing the load of another workstation or server.

The DP-301U's USB printer port is USB 2.0 port, which can transmit to high-speed laser printer much faster than a PC's USB printer port. High-speed laser printer connected to the Print Server's USB port can be operated at their full capacity.

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Because the DP-301U is very portable and inexpensive compared to a PC-based print server, and Print Server connects to your file servers through the network, printers can be deployed to locations of maximum convenience to users.

The DP-301U offers extraordinary flexibility, operating with all major network operating systems and protocols:

TCP/IP

UNIX lpr/lpd (HP-UX, SunOS, Solaris, SCO, UnixWare, IBM AIX) Windows NT/2000, Windows 95/98SE/ME, Windows XP/Vista, NetWare 5.x NDPS LPR Remote Printing

NetBEUI

Windows NT/2000/XP, Windows 95/98SE/ME, Windows for Workgroups, Microsoft LAN Manager, IBM LAN Server

AppleTalk

MacOS EtherTalk

Furthermore, the print server features a useful software: PS-Wizard. PS-Wizard is an user-friendly program used to complete further settings for the print server, and assist you to easily add a printer on your computer. See also the "Using The PS-Wizard" chapter in this manual for the details. The print server also supports configuration and management via the Telnet protocol for networks without Windows-compatible machines.

External Features

Port Connector

The DP-301U's USB port is located on its rear panel. The port is configurable using the Web Configuration Interface or the print server's Telnet interface. The Print Server's Web configuration permits users to configure settings through the web browser.

Default IP Address of DP-301U is set as automatically getting from DHCP server or Router which build-in DHCP server.

NOTE: The PC's IP Address must be in the same subnet as the print server's IP Address for the two devices to communicate. (For example, if print server's IP Address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP Address should be 192.168.0.x, where x is a value between 1-254, excluding 10.)



Network Cable Connector

The Print Server's rear panel features an RJ-45 connector for connection to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling (which should be Category 5 twisted-pair cable). The port supports the NWay protocol, allowing the Print Server to automatically detect or negotiate the transmission speed of the network.

USB Port Connector

The rear panel of the print server features the USB port connector. Plug this connector directly into the USB port on your network printer via a USB cable.

Reset Button

Press and release this button to reset the Print Server; or press and hold this button for three seconds until the USB LED on the front panel light up and then release the button, the Print Server will resume the factory default settings.

DC Power Connector

The DC power input connector is located on the Print Server's rear panel and is labeled DC 5V.

Front Panel

LED Indicators

The front panel of the print server features three LED indicators:



Power

Steady green confirms that the Print Server is powered ON.

USB

Lights up to indicate printing activity.

LAN

Steady green confirms that the Print Server has a good connection to the Ethernet or Fast Ethernet network. The indicator blinks off briefly to indicate that the Print Server is receiving or transmitting from the network.

These three indicators are also used by the Print Server's Power-ON Self Test (POST) to indicate any hardware failures.

Setting up the DP-301U

Installing the Print Server

WARNING: Configuration problems may result if the Print Server is powered up without first establishing its network connection.

Follow this procedure to avoid complications at the configuration stage.

1. Confirm proper operation of the printers to be connected to the DP-301U.

2. When you have confirmed proper operation of the printer, switch its power OFF.

3. Confirm that your network is operating normally.

4. Connect the DP-301U RJ-45 Connector to the network, using an Ethernet CAT5 cable.

5. While the printer is powered OFF, install the DP-301U USB port connector into the USB port on the network printer.

6. Switch on the connected printer.

7. Plug the AC power adapter's DC output plug into the DC 5V power socket on the rear panel of the Print Server.

8. Plug the power adapter into a power outlet. This will supply power to the Print Server, as it has no external power switch. The green Power LED on the Print Server's front panel should illuminate steadily, and the Print Server's Self-Test will proceed.

Power ON Self-Test

Every DP-301U has been factory-tested to operate properly.

When the DP-301U is powered ON, it also automatically performs a Self-Test on each of its major components. The final result of the Self-Test is signaled by the state of the USB LED indicator following the Self-Test. Preliminary to the actual component tests, the three LED indicators are tested to confirm their steady and flashing operation.

Immediately after power-up, all three of the green LEDs should illuminate steadily for several seconds. Then the USB LED should light OFF. Irregularity of any of the three LEDs during these LED tests may mean there is a problem with the LEDs themselves.

The actual component tests immediately follow the LED tests. A normal (no fault) result is signaled by a simultaneous flashing of the USB LED three times, followed by a quiescent state with the USB LED dark.

If the Self-Test routine traps any component error, then following the LED tests the Self-Test will halt and the USB LED will continuously signal the error according to the following table. In the event of any such error signal, contact your dealer for correction of the faulty unit.

USB LED	Faulty Component
On	DRAM error
1 long 3 short	Flash Protected
1 long 5 short	Flash Erase/Program error
1 long 6 short	LAN Controller error
1 long 14 short	LAN MII error

USB LED	Faulty Component
1 long 18 short	USB error
1 long 19 short	PCI error

Getting Started

Below is a sample network using the DP-301U. The DP-301U has a built- in Web-based management feature that allows users to easily configure and manage multiple print queues through TCP/IP.



For a list of printers that are compatible with the DP-301U, please see the Appendix in this manual. The compatibility list is not comprehensive. Even if it is not included in the list, your printer may be compatible with the DP-301U.

Using PS-Wizard

This chapter will introduce you the installation and operation of a useful software program – PS-Wizard.

Auto-Run Installation

Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the

Auto-Run program. The content of the Installation CD-ROM includes:

- View Quick Installation Guide click to preview the *Quick Installation Guide* in PDF format for step-by-step instructions of the print server Installation.
- View Manual click to preview the User's Guide in PDF format for detailed information of the print server.
- Install Acrobat Reader click to launch Acrobat Reader for the viewing and printing of PDF files in the Installation CD-ROM.
- Install PS-Wizard click to install PS-Wizard to complete further settings for the print server, such as:
 - Changing IP address
 - Adding a printer on your computer in the easiest way.
- Close click to close the Auto-Run program.

PS-Wizard

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

Installing PS-Wizard

 Click the PSWizardSetup icon of the Installation CD-ROM, and then the system will prompt a window for you to select a desired setup language from its pull-down menu. After done the selection of language, click OK button to continue.

Choose S	ietup Language 🛛 🛛 🔀
	Select the language for this installation from the choices below.
	English
	OK Cancel

2. Click Next> button in the welcome window of InstallShield Wizard.



3. Specify the destination location by pressing **Browse...** button. Otherwise, leave the default setting and click **Next>** button to continue.

InstallShield Wizard	X
Choose Destination Location Select folder where Setup will install files.	
Setup will install PS-Wizard in the following folder.	
To install to this folder, click Next. To install to a d another folder.	ifferent folder, click Browse and select
Destination Folder	
C:\Program Files\PS-Wizard	Browse
InstallShield	
	< Back Next > Cancel

 You may enter a new folder name in the Program Folder field if you want to change the default name. Otherwise, you may leave the default setting and click Next> button to go on the installation.

InstallShield Wizard
Select Program Folder Image: Select a program folder.
Setup will add program icons to the Program 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-Wizard
Existing Folders: Accessories Administrative Tools Adobe AlphaNetworks ADL Instant Messenger Camtasia Studio 4 FileManager Games Microsoft Office
InstallShield Cancel

 The InstallShield Wizard starts to install the software, and the Progress bar indicates the installation is proceeding until the following window shows up. Click Finish button to complete the installation.



After installing the program, the application program for the print server is automatically installed to your computer, and creates a folder in Start→ Programs→ PS-Wizard.

Using PS-Wizard

PS-Wizard, supports for Windows 2000/XP/2003/Vista, is a simple and useful tool for you easily adding a printer on your computer in order to quickly start your printing task without any complicated configuration. That is, the main goal and advantage of the **PS-Wizard** is to let you add a printer on your PC in the easiest way.

Furthermore, the **PS-Wizard** also allows you to set up IP addresses of print server, such as IP address, Subnet Mask address, and default Gateway address.

Go to Start > Programs > PS-Wizard, and select PS-Wizard.



Server Name	IP Address	1	MAC /	Add	ress	1	
dlk-1A2AAA	10.62.32.15	0	0 17	9a b	f 5,	C	
301p	10.67.5.43	0	0.03	1b 5	94	C	
							Discover
20						-	Continueties
<			1			>	Configuration
0.51							
	1000						
Dynamic IP (DP	ICP)						
Fixed IP	04						
IP Address :	10	. 62	19	32	. 1	5	
Subnet Mask :	255	. 0		0	. 1	0	
Default Gateva	/ev : 10	1	83.0	1	2	54	Apply
Deradat Outern	ay. 10						
ort Information							
Port Name	Printe	r Model				1	
dlk-1A2AAA-U1	No Pri	nter Det	ected	1			

Print Server: This field allows you to manually discover the connected print server and to do further configuration of the print server that is selected from the list.

2

LAN: You may also to specify dynamic or static IP address for your print server. Then click **Apply** button to implement the new setting.

Port Information: This is the main function of the PS-Wizard for you to

easily add a printer on your computer.

To add a printer, click Add Printer, then the following window will display.

 	ed drivers	
 Select from manufactule 	urer list	
Manufacturers	Printer Models	
Digital Epson Fuji Xerox Fujitsu GCC	HP LaserJet 1200 Series PCL HP LaserJet 1200 Series PS (MS) HP LaserJet 1220 Series PCL HP LaserJet 1220 Series PS (MS) HP LaserJet 2000	^
Generic Gestetner HP	HP LaserJet 2100 HP LaserJet 2100 PCL6 HP LaserJet 2100 Series PS	~

The wizard provides three ways for you to select printer driver:

1. Show current installed drivers:

You may select this option, "**Show currently installed drivers**", to check if the same printer driver already existed for use. If not, you may try the next method. After done the selection of printer driver, click **Next>** button to continue.

2. Select from manufacturer list:

Check this option, "Select from manufacturer list", to manually select your printer from drop-down menus by brand and model. Click **Next>** button to continue when you find a desired driver. If not, try the last way (**Have Disk**). After done the selection of printer driver, click **Next>** button to continue.

3. Have Disk:

Click **Have Disk** button to bring up the following window. Insert the manufacture's installation CD-ROM to install the printer driver. After the correct driver is selected, click **OK** button to continue.

Install I	From Disk	
4	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	Copy manufacturer's files from:	Browse

After done the selection of printer driver, the wizard will ask you to confirm your selection again in the following window. Beside, you are allowed to edit the name of the printer in the field "**Network Printer Name**" and enable this printer as the default printer by checking the box "**Use this printer as the default printer for Windows-based programs**".

After you done the verification and configuration in the following window, click **Next>** button to continue. Then the printer (e.g. HP Laser 2000 used in this manual) will be auto-created in Windows' **Printers and Faxes** window as the following illustration.

	Add a Network Printer Confirm Printer Driver
	Windows default printing device. Click NEXT to continue. Port Name : dlk-1A2AAA-U1
	Printer Model : No Printer Detected Printer Driver : HP Lase(Jet 2000 Network Printer Name : HP Lase(Jet 2000 at //dlink-162666/dlik-162666/dlik)
	✓ Use this printer as the default printer for W indows-based programs.
	< Back Next> Cancel
Printer File Ed	is and Faxes
G Bac	k - 🕥 - 🎲 🔎 Search 🌮 Folders 🛄 -
Address	Printers and Faxes
Printer	Tasks d a printer up faxing
See Als	50

When the following window shows up, you may do print test by clicking **Print Test Page** button to check if you can do printing normally. If yes, then click **Finish** button to exit the installation window and now you may start your printing tasks.

Add a Network Printer Network Printer is Ready
Congratulations! You have completed the installation process and should now be able to print. If you did not make a note earlier, please take some time now to write down and remember the network printer name.
HP LaserJet 2000 at //dlink-1A2AAA/dlk-1A2AAA-U1
To exit the installation click 'FINISH', or to print a test page click 'PRINT TEST PAGE'.
Finish Print Test Page

Using the Web Configuration

Home

To begin managing the DP-301U, simply launch the browser (e.g. Internet Explorer 6.0 used in this manual) you have installed on your computer and direct it to the URL address: dlink-xxxxx, where xxxxx are the last six digits of DP-301U's MAC address. The MAC address can be found on the bottom side of the DP-301U device.

When you enter the correct URL, a password input dialog will pop up the following screen. Input "admin" in the **User name** field, leave the **Password** field as blank, and then click **OK** button.

le Edit View Favorites Tools F	ielp		
dress 🥘 http://dlink-1a2aaa/			
	Connect to di DP-301P+ User name: Password:	ink-1a2aaa ? 🗙	

Then the main screen of the print server's configuration will appear (see below). In addition to the product information, you can access and control the print server's configuration through five links on the top of this main screen: **Setup**, **Advanced**, **Maintenance**, **Status**, and **Help**. You may click a desired link from the bar, to display its submenu and select a desired option listed in the left column, and then the corresponding content will show up in the center column.

Product: DP-301U					Firmware Version: 2.20
D-Lin	k				
DP-301U	Setup	Advanced	Maintenance	Status	Help
Print Server Setup	NETWORK PRINTER	NETWORK PRINTER WIZARD			
LAN Setup Printer Setup	The Network Printer Wizard will allow you to install the printer drivers for the printer currently connected to your print server. Click Next to continue. Note: When you click Next you will be asked to download and run some software. This is the Network Printer Wizard so please click RUN , and if a second window appears click RUN again.			Add A Network Printer Wizard: Clicking Next to download and run a windows wizard program which will install a network printer onto your computer.	
Off line			Next		

SETUP > Print Server Setup

The **Print Server Setup** screen allows you to modify the **Print Server Name** and **Port Name**, as below shows. D-Link does not recommend changing these settings unless asked to do so by your network administrator.

Product: DP-301U					Firmware Version: 2.20
D-Linl	K				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
Print Server Setup LAN Setup Printer Setup Coff Ince Reboot	PRINT SERVER SE The Print Server Name changing these setting PRINT SERVER NA Server Loc	TUP and Port Name can be ch sounless asked to do so by ME Name : dlk-1A2AAA cation :	aanged below. D-Link does y your network administrat	not recommend or.	Helpful Hints Printer Setup: In this field, you can configure the basic information of your print server. Port Setting: In this field, you can assign the <i>Port Name</i> for the print server, and the description for the Printer port. It also allows you to
		USB : Port Name Description PJL Printer Apply Setting	: dlk-1A2AAA-U1 :	(optional)	setting (Yes or No).
PRINT SERV	/ER				

Print Server Name

In this field, you can configure the basic information of print server. The basic information contains a name of the print server, assigned in **Server Name** field, and a location for the print server, assigned in **Location** (optional) field.

Port Settings

In this field, you can assign the Port Name for the print server, and the description for the Printer port. It also allows you to select the PJL Printer setting (Yes or No). **NOTE**: **PJL (Printer Job Language) has certain job requirements that must be met to work correctly. For more information, please refer to your printer's manual.**

Once you have changed the settings in each option, click Apply Settings to store the settings, or Cancel to abandon.

SETUP > LAN Setup

The **LAN Setup** screen allows you configure the local network settings of print server. Please note that this section is optional and you should not need to change any of the settings here to get print server up and running.

Product: DP-301U					Firmware Version: 2.20
D-Lini	¢				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
Print Server Setup LAN Setup Printer Setup Off line Reboot	LAN SETUP This section allows you that this section is opt your print server up an TCP/IP IP 4	i to configure the local net onal and you should not n d running. Address : O Automatic	work settings of your prin eed to change any of the ally Assign assign sss : 10.62.32.15 Mask : 255.0.0.0 Bateway : 10.1.1.254 gs Cancel	t server. Please note settings here to get	Helpful Hints TCP/IP: This section allows you to configure the TCP/IP setting: IP Address.
PRINT SERV	/ER				

TCP/IP

This field allows you to assign IP address in manual or automatic method. When you choose Manually Assign, you should enter the related information in the following boxes, including IP Address, Subnet Mask, and Default Gateway. Once you have changed the settings in each option, click Apply Settings to store the settings, or Cancel to abandon.

SETUP > Printer Setup

The Printer Setup screen allows you install the printer drivers for the printer

currently connected to your print server.



Network Printer Wizard

Clicking **Next** to download and run a windows wizard program which will install a network printer onto your computer. When you click **Next** you will be asked to download and run some software.

File Download - Security Warning	×
Do you want to run or save this file?	
Name: Addprt.exe Type: Application, 256 KB From: dlink-1a2aaa Run Save Cancel	
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do run or save this software. <u>What's the risk?</u>	not

The above screen is the Network Printer Wizard so please click RUN, and if a

second window appears as below click **RUN** again.

Internet	t Explorer - Security Warning 🛛 🛛 🔀
The pu softwa Na	iblisher could not be verified. Are you sure you want to run this i re? me: Addprt.exe
Publist	ner: Unknown Publisher
	Run Don't Run
8	This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. <u>How can I decide what software to run?</u>

Please select the printer required, then click NEXT to continue.

D Add a Network Printer Select Printer	×
Please select the printer required, then click NEXT to continue.	
Printer Model	-
No Printer Detected at //dlk-1A2AAA/dlk-1A2AAA-U1	
K Back Next> Cancel	

The wizard provides three ways for you to select printer driver:

1. Show current installed drivers:

You may select this option, "**Show currently installed drivers**", to check if the same printer driver already existed for use. If not, you may try the next method. After done the selection of printer driver, click **Next>** button to continue.

D Add a Network Printer Select Printer Driver 🛛 🛛
Install Printer Driver If your printer software is already installed, select your printer from the list and click NEXT. If your printer is not listed, click 'Select from manufacturer list' to select from a list, or if your printer came with an installation disk, click 'Have Disk'. Show currently installed drivers Select from manufacturer list Installed Printer Drivers
HP LaserJet 2000
Snaglt / Printer
Refresh Driver List Have Disk
K Back Next > Cancel

2. Select from manufacturer list:

Check this option, "Select from manufacturer list", to manually select your printer from drop-down menus by brand and model. Click **Next>** button to continue when you find a desired driver. If not, try the last way (**Have Disk**). After done the selection of printer driver, click **Next>** button to continue.

 Add a Network Install Printer Driver If your printer softwar NEXT. If your printer list, or if your printer of Show currently in Select from manu 	Printer Select Printer Driver re is already installed, select your printer from the list and click is not listed, click 'Select from manufacturer list' to select from a came with an installation disk, click 'Have Disk'. stalled drivers facturer list
Manufacturers Generic Gestetner HP IBM infotec Iwatsu Kodak Konica	Printer Models Image: Printer
ē	Have Disk < Back

3. Have Disk:

Click **Have Disk** button to bring up the following window. Insert the manufacture's installation CD-ROM to install the printer driver. After the correct driver is selected, click **OK** button to continue.

Install	From Disk	
J	Insert the manufacturer's installation disk, and then make sure that the correct drive is	ОК
selected below.	selected below.	Cancel
	Copy manufacturer's files from:	
		Browse

After done the selection of printer driver, the wizard will ask you to confirm your selection again in the following window. Beside, you are allowed to edit the name of the printer in the field "**Network Printer Name**" and enable this printer as the default printer by checking the box "**Use this printer as the default printer for Windows-based programs**".

After you done the verification and configuration in the following window, click **Next>** button to continue. Then the printer (e.g. HP Laser 2000 used in this manual) will be auto-created in Windows' **Printers and Faxes** window as the following illustration.



When the following window shows up, you may do print test by clicking **Print Test Page** button to check if you can do printing normally. If yes, click **OK** button to close the **D-Link Add Printer Wizard** dialogue screen.

D Add a Network Printer Network Printer is Ready	×
Congratulations! You have completed the installation process and should now be able to print. If you did not make a note earlier, please take some time now to write down and remember the network printer name.	
HP LaserJet 2000 at //dlk-1A2AAA/dlk-1A2AAA-U1	
To exit the installation click 'FINISH', or to print a test page click 'PRINT TEST PAGE'. D-Link Add Printer Wizard	
Test page print successfully!	
ОК	
Finish Print Test Pa	ge
If yes, then click **Finish** button to exit the installation window and now you may start your printing tasks.

D Add a Network Printer Network Printer is Ready	×
Congratulations! You have completed the installation process and should now be able to print. If you did not make a note earlier, please take some time now to write down and remember the network printer name.	
HP LaserJet 2000 at //dlk-1A2AAA/dlk-1A2AAA-U1	
To exit the installation click 'FINISH', or to print a test page click 'PRINT TEST PAGE'.	
	le

ADVANCED > Advanced LAN

The **Advanced LAN** screen allows you to further network setting of print server, while you are recommended better not to change the settings unless instructed to modify the setting by your network administrator. The **Advanced LAN** screen contains these fields: **TCP/IP**, **Microsoft Network**, and **AppleTalk**.

Product: DP-301U						Firmware Version: 2.20
D.I int						
DP-301U	Setup	Advanced	Maint	enance	Status	Help
DP-301U Advanced LAN User Access E-Mail Notification SNMP Configure Reboot	Setup NETWORK SETTING Please do not change a administrator. TCP/IP DNS S Mac Bonjou Secc MICROSOFT NETWO APPLETALK A	Advanced inny of the following erver Address : UPnP : r/Rendezvous : and HTTP Port : DRK Workgroup : USB :	Maint Settings unless ins I. 0.0.0.0 2. 0.0.0 © Enable O Disa © Enable O Disa © Enable O Disa Port Number : [0 (For Remote Web WORKGROUP * Chooser Name Printer Type PostScript Level Evot Group	ructed to do ructed to do ructed to do ble ble ble configuration class c	Status so by your network n and IPP Printing) A2AAA-U1 rWriter	Help Helpful Hints TCP/IP: If you are using e-mail printing or e-mail notification, you will need to setup the DNS Server Address. Only if your network has a DNS Server setup should you enter the address into the DNS Server Address box, otherwise leave it as 0.0.0.0. UPPP allows your print server to be discoverable on the network. Mac Bonjour/Rendezvous allows your print server to be discoverable on an Apple Mac network.
PRINT SERV	/ER	Apply	settings Can	el		

TCP/IP

This field contains four options that allow you to configure the TCP/IP setting:

DNS Server Address, UPnP, Mac Bonjour/Rendezvous, and Second HTTP Port.

- **UPnP**: This option allows you to enable or disable UPnP function.
- Mac Bonjour/Rendezvous: This option allows you to enable or disable Mac Bonjour/Rendezvous function.
- Second HTTP Port: This option allows you to enable or disable Second HTTP Port for remote Web Configuration and IPP Printing.

Microsoft Network

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

AppleTalk

Enter the AppleTalk Zone name in the box. In the following options, enter the related configuration, such as the printer type.

<u>Chooser Name</u>: Display the print server's port name.

Printer Type: Enter the printer's type in this box.

PostScript Level: Select from the pull-down menu (Level 1 or Level 2).

Font Group: Select from the pull-down menu.

Once you have changed the settings in each option, click Apply Settings to store the settings, or Cancel to abandon.

ADVANCED > User Access

The **User Access** screen allows you to create and maintain an authorized list of users that are allowed to access the print server.

Product: DP-301U					Firmware Version: 2.20
D-Lini	K				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
Advanced LAN User Access E-Mail Notification SNMP Printer Off line Reboot	USER ACCESS This section allows you the print server. Enable Authorised AUTHORISED USER Add User : PC Dest MAC AC	to build and maintain an I User List : • Yes C Apply Settin RS cription : ddress : 00 80 C8 A1 B2	authorised list of users that No as Cancel (optional) Cancel (Example : OC	are allowed access to	Helpful Hints User Access: This section allows you to build and maintain an authorised list of users that are allowed access to the print server. Authorised Users: You can add/delete the user(5) to/from the User List. The User List at the bottom of the screen displays the current defined user and related information for the print server.
	1	PC Description	dd MAC Addres 00 80 C8 A1 B2 C3 00 03 1B 4D 59 2A ete	s Delete	
PRINT SERV	/ER				

User Access

By configuring the **Enable Authorised User List** option (**Yes**), the user in the User List is permitted to access the print server. Any user who is not added in the User List will not be allowed to access the print server. Once you have changed the settings in each option, click Apply Settings to store the settings, or Cancel to abandon.

Authorised Users

You can add or delete any user to or from the User List. The User List at the bottom of the screen displays the current defined user and related information for the print server.

ADVANCED > E-Mail Notification

The **E-Mail Notification** screen allows you to assign an E-mail address to the print server, so that your mail of the account can be printed out directly through the printer (ASCII text only). This screen also allow you choose where to send an email when the printer status changes.

Product: DP-301U					Firmware Version: 2.20
D-Lini	K				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
DP-301U Advanced LAN User Access E-Mail Notification SNMP Printer Giff line Reboot	Setup E-MAIL This menu allows you t whether you want to the print server will use ENABLE E-MAIL NO En Dest E-mail test will send an Do you want to test a E-MAIL ACCOUNT Incoming E-mail Outgoing E-mail E-mail Acc E-MAIL PRINTING E-mail Print	Advanced ochoose where to send orint a hard copy of this e to send the email. DIFICATION able e-mail notification tination e-mail Address (Apply Settin the-mail to Destination add on e-mail account? DETAILS E Server E-mail Address (SMTP) Server Address (SMTP) Serv	Maintenance an email when the printer mail, and also the email acc :	Status status changes, count settings which utple e-mail address)	Help Helpful Hints Enable E-mail Notification: You can set the print server to send an alert message when the printer status changes through E- mail. To enable this function, set the Enable e-mail notification option to 72-67. Then, input didress in the Enable Destination e-mail Address to the print server, so the print server, so that you can send an alert message when the printer status changes through SMTP server. E-mail Printing: E-mail Printing (ASCII Text Only) : Salect Enable to enable the E-mail printing function.
	/ER				

Enable E-mail Notification

You can set the print server to send an alert message when the printer status changes through E-mail. To enable this function, set the **Enable e-mail notification** option to Yes. Then, input the administrator's E-mail address in the **Destination e-mail Address** field.

E-mail Account Details

You can assign an E-mail address to the print server, so that your mail of the account can be printed out directly through the printer (ASCII text only). To enable this function, enter the E-mail account in the **Print Server E-mail Address** field. Then enter the server address, used to receive your E-mail here, in the Incoming E-mail (POP3) Server Address field. For **outgoing E-mail (SMTP) Server Address** field, enter the server address that is used to send your E-mail here. If your mail server needs to verify the user when sending E-mail, Print Server will apply the **E-mail Account (POP3) Name** and **E-mail Account (POP3) Password** to the mail server.

E-mail Printing

This section is for you to do E-mail Printing configuration, including:

<u>E-mail Printing (ASCII Text Only)</u>: Allows you to enable or disable the E-mail printing.

<u>Check E-mail Interval</u>: Allow you to set up a time interval in minute in order to check/receive E-mail periodically.

After done the configuration, click Apply Settings to restore the new configuration, or Cancel to abandon.

ADVANCED > SNMP

The **SNMP** screen allows you to use SNMP (Simple Network Management Protocol) to manage complex networks.

SNMP Management

<u>Community 1/2/3</u>: Enter a name in the **Name** frame, and configure the **Access Right** by selecting **Read Only** or **Read/ Write** from the pull-down menu.

Product: DP-301U					Firmware Version: 2.20
D-Lini	K				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
Advanced LAN User Access E-Mail Notification SNMP Printer Off Ime Reboot	SNMP SETTING This menu allows you t SNMP MANAGEMEN Comm	o set the SNMP access pr NT Access Right : Read nunity 1 Name : Access Right : Read nunity 2 Name : Access Right : Read Access Right : Read	operty.		Helpful Hints SNMP Management: SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks.
PRINT SERV	/ER				

MAINTENANCE > Password

The **Password** screen allows you to change the password of the print server by entering the current password in **Current Password** field and new password in **New Password** and **Confirm Password** fields. After done the configuration, click Apply Settings to enable and restore the new password, or Cancel to abandon. Be aware that the default password of the print server is blank.

Product: DP-301U					Firmware Version: 2.20
D-Lini	¢				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
Password Save/Restore Settings Firmware Upgrade Diagnostics Offine Reboot	SET PASSWORD ((DPTIONAL) rver password, please type User Name : Current Password : New Password : Confirm Password : Apply Setting	e in the current password, Admin s Cancel	then the new	Helpful Hints Set Password: Click Apply Settings to set new password .
PRINT SERV	'ER				

MAINTENANCE > Save/Restore Settings

The **Save/Restore Settings** screen not only allows you to save the current configuration in a computer for backup by clicking Save, but also allows you to reload a configuration that you saved before by clicking Browse to direct to the backup file, and then clicking Update Settings for reloading. Beside, you are also allowed to return the print server to the default settings by clicking Restore Device.



MAINTENANCE > Firmware Upgrade

The **Firmware Upgrade** screen displays you the current firmware's information of the print server, and also allows you to upgrade the firmware of the print server when a new version of firmware is available.

Click Browse to point to the firmware file, and then click Upgrade.

Product: DP-301U					Firmware Version: 2.20
D-Lini	K				\prec
DP-301U	Setup	Advanced	Maintenance	Status	Help
Password Save/Restore Settings Firmware Upgrade Diagnostics Off Inter Reboot	FIRMWARE UPGRA Note: Please do not up Link technical support. FIRMWARE INFOR Firm FIRMWARE UPGRA Note: Some firmwar performing an upgra Maintenance->Save To Upgrade the firm Upgrade button. Upgr	DE Ograde the firmware on t MATION mware Version : Release Date : DE e upgrades reset the co dide, be sure to save the (Restore Settings screen ware, enter the name o rade : Ur	nis print server unless instru 2.20 2007-11-06 nfiguration options to factor current configuration from t f the firmware upgrade file, grade	y defaults. Before he and click the e	Helpful Hints Firmware Upgrade: When a new version of firmware is available (e.g., downboading from the D- Link website), you can upgrade the firmware of your print server. Click Browse to point to the firmware file, and then click Upgrade.
PRINT SERV	/ER				

MAINTENANCE > Diagnostics

The Diagnostics screen allows you to test the printing for USB port of the print

server. After done the port selection, click Print Test Page to print a test page.



STATUS > Device Info

The Device Info screen displays the status of your print server, printer, and

network for your reference.

Product: DP-301U							Firmware Version: 2.20
D-Lini	Č						\prec
DP-301U	Setup	Advan	iced	Maint	tenance	Status	Help
Device Info	DEVICE INFO						Helpful Hints
Network	The following shows th	ne general syst	em informatio	on.			Print Server Status: The information about the
Print Log	PRINT SERVER ST.	ATUS					print server, including the firmware version, MAC/IP address, and up time, can
Printer	Sei	rver Name :	dk-1A2AAA				be found in this field.
<u>Off Ine</u>	Firmwa	model : re Version :	2,20 (2007-	11-06)			The items in this field
Reboot	MAC Address : 00 17 9A BF 5C EA					the printer, such as the	
	IP Address : 10.62.32.15 (Manual)				speed, printer status, and status of your printing		
		Up Time :	0 days, 01:3	30:07			tasks, etc.
	PRINTER STATUS						LAN Status: You can monitor the petworking status in this
		USB :	Printer Nam	ie :	dlk-1A2AAA-U1		field, including the network
			Printer Spee	ed :	Off line		the packets status.
			Printer Stat	us ;	Off line		
			Total Print 2	Jobs ;	0		
and the second second			Total Print 9	Size :	0 KBytes	يسمع	

and the second			V	a state of the second state of the
		Printing Status	: Idle	
		Name		
		MAC		
		IP		
		Protocol	:	
		Spooling Size :	: O Bytes	
		Printing Size	: O Bytes	
			1525	
	LAN STATUS			
	Link :	Yes		
	Speed :	100 Mbps		
	Full Duplex :	Yes		
	Tx Packets :	2437		
	Tx Errors :	0		
	Rx Packets :	145544		
	Rx Errors :	0		
				I
		Refresh		
		101 - C		
PRINT SERV	/ER			

Print Server Status

This field displays the information of the print server about the firmware version, MAC/IP address, and up time.

Printer Status

The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.

LAN Status

You can monitor the networking status in this field, including the network connection, speed, and the packets status.

STATUS > Network

The Network screen displays the general Network status of your print server,

including:

Auto IP

This field contains the current settings of TCP/IP, including DHCP/BOOTP, UPnP, and Mac Bonjour/Rendezvous. The items in this field are configured in **Advanced**

\rightarrow Advanced LAN \rightarrow TCP/IP.

TCP/IP Printing

In this field, you can monitor the status of your printing tasks through TCP/IP.

Microsoft Network Printing

In this field, you can monitor the status of your printing tasks through Microsoft Network.

Mac AppleTalk Printing

In this field, you can monitor the status of your printing tasks through Mac AppleTalk.

	Setup	Advance <u>d</u>	Maintenan	ce	Status	Help
		IS				Helpful Hints
	The following shows	the general networking s	tatus.			Auto IP: This field contain
						current settings
						UPnP, and Mac Boniour/Rendea
nter filme		DHCP/BOOTP :	Disable (IP: 0.0.0 Enable (IP: 10.6	J.U) 8 15 16)		items in this field configured in A
	Mac I	Bonjour/Rendezvous :	Enable (IP: 10.6	2.32.15)		> Advanced L TCP/IP.
ot						TCP/IP Printin
	TCP/IP PRINTIN	G				In this field, you monitor the sta
		LPR Printing :	Status	: Running		printing tasks th TCP/IP.
			Total Print Jobs	: 0 : 0 KBytec		Microsoft Net
		Port (9100) Printina :	Status	· Rupping		Printing: In this field, you
			Total Print Jobs	: O		monitor the stal printing tasks th
			Total Print Size	: O KBytes		Microsoft Netwo
		IPP Printing :	Status	: Running		Mac AppleTal Printing:
			Total Print Jobs	: 0		In this field, you monitor the stal
		FTP Printing '	Ctature			printing tasks th AppleTalk.
		The entrong .	Total Print Jobs	: Running : O		2244
			Total Print Size	: O KBytes		
i i i						
	SMB (O	ver NetBEIII) Printing	Ctatur	. Dupping		
	0.10 (0	ren netbeber innang .	Total Print Jobs	: Running : O		
			Total Print Size	: O KBytes		
	SMI	8 (Over NBT) Printing:	Status	: Running		
			Total Print Jobs	: O		
			TULAI PRINL SIZE	; U KBYLES		
	MAC APPLETAL	PRINTING				
		AppleTalk Printing :	Status	: Running		
			Total Print Jobs	: 0		
			rotal Print Size	: U KBytes		

Firmware Version: 2.20

Product: DP-301U

STATUS >Print Log

The Print Log screen displays the printing record of the authorized users.

Print Log

The items in this field display the user(s) information, which include the user(s) MAC address, IP address, name, and status of printing tasks.



HELP

The **Help** screen provides you brief information about the print server for your reference.



Reboot

If you want to reset the print server, you may just click the Reboot for restarting.



Refresh Printer Status

Click Printer to refresh printer status.



TCP/IP Printing for Windows Vista

Go to Start → Control Panel → Printers.

	and the second s
Internet Internet Explorer	
Windows Mail	admin
Welcome Center	Documents
Windows Ultimate Extras	Pictures
Y Paint	Games
Windows Update	Search
Command Prompt	Recent Items
Windows Media Player	Computer
Windows Media Center	Network
Windows Meeting Space	Connect To
Windows DVD Maker	Control Panel
<i>i</i>	Default Programs
All Programs	Help and Support

Click Add a printer.



Select the first option, Add a local printer, and then click Next.

. ھ	Add Printer
Cho	oose a local or network printer
•	Add a local printer Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)
•	Add a network, wireless or Bluetooth printer Make sure that your computer is connected to the network, or that your Bluetooth or wireless printer is turned on.
	Next Cancel

Select the second option, **Create a new port**, and highlight **Standard TCP/IP Port** from the pull-down menu. Click **Next**.

			×
\bigcirc	🖶 Add Printer		
	Choose a printer port		
	A printer port is a type of conner printer.	ction that allows your computer to exchange information with a	
	Use an existing port:	LPT1: (Printer Port)	-
	Oreate a new port:		
	Type of port:	Standard TCP/IP Port	-
		Local Port Standard TCP/IP Port	
		h2	
		Next Canc	el

Type the IP address of the print server (e.g. 10.62.31.15 used in this manual), which can be referred from the **PRINTER SERVER STATUS** of the print server's Web configuration, and then the Port Name will automatically be filled in. Click **Next**

(Add Printer				X
Ту	/pe a printer host	tname or IP a	ddress		
De	vice type:	TCP/IP Devic	e		•
Но	stname or IP address:	10.62.31.15	i		
Po	rt name:	10.62.31.15	i		
v	Query the printer and a	utomatically select	the driver to use		
				Next	Cancel
Product: pp-201	11				Firmware Version: 2.20
D-Li	ink				
DP-301U	// Setup	Advanced	Maintenance	Status	Help
Device Info	DEVICE INFO				Helpful Hints Print Server Status
Network Print Log	The following shows t	ne general system informa	tion.		The information about the print server, including the
Printe		ATUS	Δ		address, and up time, can be found in this field.

Printer	Server Name :	dlk-1A2AAA	be found in this field.
Off line	Model :	DP-301U	Printer Status:
	Firmware Version:	2.20 (2007-11-06)	The items in this held display the informatio
Reboot	MAC Address :	00 17 9A BF 5C EA	the printer, such as the given pame for the pr
	IP Address :	10.62.32.15 (Manual)	speed, printer status,
	Up Time :	0 days, 01:30:07	status of your printing tasks, etc.
	POINTER STATUS		LAN Status:

Select Custom and click Settings.

	on mation Required
The device is no	ot found on the network. Be sure that:
 The device i The network The device i 	is turned on. : is connected. is properly configured.
4. The address	on the previous page is correct.
ii you think the a	perform another search on the network. If you are sure the address is correct
the address and select the device	e type below.
the address and select the device Device Type	e type below.
the address and select the device Device Type <u>S</u> tandard	Generic Network Card

Then the follow screen will shows up, select LPR from the Protocol field. Then enter the Queue Name, which can be referred from PRINTER STATUS of the print server's Web configuration, in the LPR Settings field. Click OK.

Port Settings			
Port Name:	10.62.31.15		
Printer Name or IP Addres	s: 10.62.31.15		
Protocol			
© <u>R</u> aw	() <u>L</u> PR		
Raw Settings			
Port Number:	9100		
LPR Settings			
<u>Q</u> ueue Name:	dlk-1A2AAA-U1		
LPR Byte Counting B	nabled		
SNMP Status Enable	d		
Community Name:	public		
SNMP Device Index:	1		
	-		

Product: DP-3010	k					Firmware Version: 2.20
DP-301U	Setup	Advanced	Mair	ntenance	Status	Help
Device Info Network Print Log Ciffine Reboot	DEVICE INFO The following shows th PRINT SERVER ST Se Firmwa MA	ne general system info ATUS rver Name : dlk-1A/ Model : DP-30: re Version : 2.20 (C Address : 00 17 P Address : 10.62.	rmation. 2AAA IU 2007-11-06) 9A BF 5C EA 32.15 (Manual)		Helpful Hints Print Server Status: The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field. Printer Status: The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and
	PRINTER STATUS	Up Time : 0 days USB : Printer Printer Printer Total Total	01:30:07 Name : Speed : Status : Print Jobs : Print Size :	: dlk-1A2AAA-U1 : Off line : Off line : 0 : 0 KBytes	>	status of your printing tasks, etc. LAN Status: You can monitor the networking status in this field, including the network connection, speed, and the packets status.

Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click Next

🚱 🖶 Add Printer	3
Install the printer driver	
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.	
Manufacturer	
Generic Gestetner HP HP HP HP HP HP HP HP HP HP	
IBM + Intrester 4000 Series PCL 3	
Tell me why driver signing is important	
Next]

Click Next.

0	🖶 Add Printer		
	Type a printer	name	
	Printer name:	HP Laser Jet 4000 Series PCL 5	
		Set as the default printer	
	This printer will be ins	talled with the HP LaserJet 4000 Series PCL 5 driver.	
		Next Can	cel

After clicked **Print a test page**, a small dialogue box will show up as below. Click **Close**.

6	河 🖶 Add Printer	
	You've successfully added HP LaserJet 4000 Se	ries PCL 5
	To see if the printer is working correctly, or to see troubleshooting ir a test page. Print a test page	formation for the printer, print
1	HP LaserJet 4000 Series PCL 5	
	A test page has been sent to your printer	
	This test page briefly demonstrates the printer's ability to print graphics and text, and it provides technical information about the printer. Use the printer troubleshooter if the test page does not print correctly.	
L	Troubleshoot printer problems	Finish Cancel
	Close	

Click Finish.

🌍 🖶 Add Printer	Image: State Sta
You've successfully added HP LaserJet 4000 Series R	PCL 5
To see if the printer is working correctly, or to see troubleshooting information a test page.	tion for the printer, print
	Finish Cancel

The printer is now ready for printing with Windows Vista on your network.

Control I	Panel 🕨 Printers			▼ 4 9 Sec	arch
🌗 Organize 👻 🚆 Views	s 👻 🐏 Add a printer 👹	See what's pr	inting 🏪 Select	printing prefere	ences 🗡
Favorite Links	Name Documents	Status	Comments	Location	Model
Documents	Fax		HP Laser	Jet 4000 Series	PCL 5
Pictures	Ready		Ready	\searrow	1
🚯 Music	Microsoft XPS De	ocument	Snaglt 7		1
Recently Changed	Writer 0		Ready		
Searches			includy		3
Public .	and a second	الله المجارين	and a second	a an an an and	ألبوره

TCP/IP Printing for Windows XP

Go to Start -> Printers and Faxes -> Add a Printer.



When the following screen shows up, click Next.



Select the first option, Local printer attached to this computer, and click Next.



Select the second option, Create a new port, and highlight Standard TCP/IP Port

from the pull-down menu. Click Next.



Type the IP address of the print server (e.g. 10.62.31.15 used in this manual), which can be referred from the **PRINTER SERVER STATUS** of the print server's Web configuration, and then the Port Name will automatically be filled in. Click

ext					
Add Port For which	device do you want	t wizaru			
Enter the I	Printer Name or IP a	ddress, and a port name I	for the desired device.		
Printer Na	me or IP <u>A</u> ddress:	10.62.31.15			
Port Name	e:	IP_10.62.31.15			
		< <u>B</u> acl	(<u>N</u> ext >	Cancel	
duct: DP-301U					Firmware Version: 2
	12				
P-301U	Setup	Advanced	Maintenance	Status	Help
vice Info	DEVICE INFO				Helpful Hints
:work	The following show	s the general system informa	tion.		Print Server Status The information about
nt Log	PRINT SERVER	STATUS			firmware version, MAC address, and up time,
Printer		Server Name : dlk-1A2AA	A		be found in this field.
Off line	Firm	Model : DP-301U ware Version : 2 20 (200	7-11-06)		Printer Status: The items in this field
Reboot		MAC Address : 00 17 9A	BF 5C EA		the printer, such as th
		IP Address : 10.62.32.	15 (Manual)		speed, printer status, status of <u>your printing</u>
		Up Time : 0 days, 01	:30:07		tasks, etc.
					LAN Status:

Select Custom and click Settings.

dd Standard To Additional Por The device	CP/IP Printer Port Wi t Information Required could not be identified.	zard	
The detected de 1. The device is 2. The address	vice is of unknown type. B properly configured on the previous page is com	e sure that: rect.	su rahuming to the
previous wizard (address and perform anor page or select the device ty	pe if you are sure the addre	iss is correct.
Device Type			
Standard	Generic Network Card		~
 Custom 	Settings		
		C Back N	ext Cancel

Then the follow screen will shows up, select LPR from the **Protocol** field. Then enter the **Queue Name**, which can be referred from **PRINTER STATUS** of the print server's Web configuration, in the LPR Settings field. Click OK.

CP/IP Po	ort Monitor	?				
	IP_10.62.31.15					
BSS:	10.62.31.15					
	(⊙ LPR					
515						
dlk-1A2AAA-U1						
; Enabled						
bled						
public						
1						
	CP/IP P ess: 515 dlk-1A: pled public	CP/IP Port Monitor IP_10.62.31.15 ess: 10.62.31.15 Enabled bled public				
Product: DP-301U	ĸ					Firmware Version: 2.20
---	--	---	---	--	--------	---
DP-301U	Setup	Advanced	Main	tenance	Status	Help
Device Info Network	DEVICE INFO The following shows the	ne general system inform	nation.			Helpful Hints Print Server Status: The information about the
Print Log Printer Off Ing Reboot	PRINT SERVER ST Se Firmwa MA I	ATUS rver Name : dlk-1A24 Model : DP-301U re Version : 2.20 (20 C Address : 00 17 9) P Address : 10.62.33 Up Time : 0 days, (NAA) 107-11-06) A BF 5C EA 2.15 (Manual) 01:30:07	8		print server, including the firmware version, MAC/IP address, and up time, can be found in this field. Printer Status: The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.
	PRINTER STATUS	USB : Printer 1 Printer 5 Printer 5 Total Pr Total Pr	Name : Speed : Status : int Jobs : int Size :	dlk-1A2AAA-U1 Off line Off line D 0 KBytes	>	LAN Status: You can monitor the networking status in this field, including the network connection, speed, and the packets status.

Click Next.

Add Standard T	CP/IP Printer Port Wizard	
Additional Por The device	rt Information Required could not be identified.	
The detected de 1. The device is 2. The address of Either correct the previous wizard p	rvice 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 correc	to the st.
Device Type		
O Standard	Generic Network Card	4
 Custom 	Settings	
	< Back Next >	Cancel

Click Finish.

Add Standard TCP/IP Print	ter Port Wiz	ard	X		
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.				
	SNMP: Protocol: Device: Port Name: Adapter Type	No LPR, dlk-1A2AAA- U1 10.62.31.15 IP_10.62.31.15			
	To complete t	his wizard, click Finish. < Back Finish Cance			

Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click Next

Add Printer Wizard			
Install Printer Softw The manufacturer	a re and model (determine which printer software to use.	
Select the manu disk, click Have compatible prints	ifacturer an Disk. If you er software.	d model of your printer. If your printer came with an installation or printer is not listed, consult your printer documentation for	on
Manufacturer	<u> </u>	Printers	
Fujitsu		WHP LaserJet 3200 Series PCL	
Generic		HP LaserJet 3200 Series PS	
Gestetner		HP Laseljet 4	
HP	-	HP Lasellet 4000 Series PCL	-
This driver is digitally <u>Tell me why driver si</u>	signed. <u>aning is imp</u>	<u>W</u> indow≈ Update <u>H</u> ave Disk otant	
		< <u>B</u> ack Next > Cance	»

At this screen, you can input a name for the printer, and then click Next

dd Printer Wizard	
Name Your Printer You must assign a name to this printer.	
Type a name for this printer. Because som name combinations of mole than 31 chara possible.	ne piograms do not support printer and server acters, it is best to keep the name as short as
Printer name:	Y
Do you want to use this printer as the defa	ault printer?
⊙ Yes	
○ No	
	<back next=""> Cancel</back>

Select Yes to print a test page, click Next.

Add Printer Wizard			
Print Test Page To confirm that the printer is installed proper	ly. you can print	a test page.	
Do you want to print a test page?			
• Yes			
⊂ N <u>o</u>			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Click **Finish**. The printer is now ready for printing with Windows XP on your network.

Add Printer Wizard					
	Completing the Add Printer Wizard				
	You specified	the following printer settings:			
1 1 1 1 1 1 1 1 1	Name:	HP LaserJei			
	Share name:	<not shared=""></not>			
	Port:	IP_10.62.31.15			
	Model:	HP LaserJet 4000 Series PCL			
and the second second	Default:	No			
	Test page:	No			
	To close this	wizard, click Finish.			
		< Back Finish Cancel			

TCP/IP Printing for Windows 2000

Go to Start → Settings → Printers and Faxes → Add a Printer.



When the following screen shows up, click Next.



Select the first option, Local printer attached to this computer, and click Next.



Click Next.



Select the second option, $\ensuremath{\textit{Create}}$ a new port, and highlight $\ensuremath{\textit{Standard}}\xspace$ TCP/IP Port

from the pull-down menu. Click Next.

elect the port ew port.	you want your printer b	o use. If the part is not listed, you	i can create a
Use the fol	lowing port		
Port	Description	Printer	-
LPT1: LPT2: LPT3: COM1: COM2: COM3	Printer Port Printer Port Printer Port Serial Port Serial Port Serial Port		
Note: Most	computers use the LP	T1: port to communicate with a k	ocal printer.
Ereate a ne	ew port		da era

Click Next.



Type the IP address of the print server (e.g. 10.62.31.15 used in this manual), which can be checked from the **PRINTER SERVER STATUS** of the print server's Web configuration, and then the Port Name will automatically be filled in. Click

₹Xt			and the second	and the second	
Id Standard TC Add Port For which •	P/IP Printer Port device do you want	Wizard to add a port?		×	
Enter the F	rinter Name or IP ad	dress, and a port name fo	r the desired device.		
Printer Nan	ne or IP <u>A</u> ddress:	10.62.31.15			
Port Name:		IP_10.62.31.15			
		< <u>B</u> ack	<u>N</u> ext >	Cancel	
duct: pp-301U		<u>Back</u>	Next >	Cancel	Firmware Version: 2.
duct: pp-301U D-Lim)	k	<u>Back</u>	Next >	Cancel	Firmware Version: 2.
duct: pp-301U D-Lfim	K Setup	<u>Advanced</u>	Next >	Cancel	Firmware Version: 2.
Uuct: pp-301U D-Lim P-301U ///	Setup DEVICE INFO	< <u>B</u> ack	Next >	Cancel	Firmware Version: 2. Help Helpful Hints
duct: DP-301U D-Lim P-301U /// P-301U /// vice Info work	Setup DEVICE INFO The following show	Advanced	Next > Maintenance	Cancel	Firmware Version: 2. Help Helpful Hints Print Server Status The information about
duct: dp-301U D-Lfim P-301U /// vice Info work at Log	Setup DEVICE INFO The following show PRINT SERVER	Advanced vs the general system informa	Mext >	Cancel	Firmware Version: 2. Help Helpful Hints Print Server Status The information about print server, including t firmware version, MAC
duct: pe-301U	Setup DEVICE INFO The following show PRINT SERVER	Advanced sthe general system informa STATUS Server Name : dlk-1A2AA	Mext > Maintenance	Cancel	Firmware Version: 2. Help Helpful Hints Print Server Status: The information about print server, including to print server, including to be found in this field.
duct: DP-301U D-ILITTI P-301U /// P-301U /// vice Info work the Log Crimere Cr	Setup DEVICE INFO The following show PRINT SERVER	Advanced vs the general system information STATUS Server Name : dlk-1A2AA Model : DP-3010	Mext > Maintenance ation.	Cancel	Firmware Version: 2. Help Helpful Hints Print Server Status: The Information about print Server; including to be found in this field. Printer Status The theore in blue field. Printer Status The theore in blue field.
duct: DP-301U D-Linn P-301U /// P-301U /// vice Info work th Log Printer Off Ine Reboot	Setup DEVICE INFO The following show PRINT SERVER Firm	Advanced Advanced vs the general system informa STATUS Server Name : dlk-1A2AA Model : DP-3010 ware Version : 2,20 (200	Maintenance	Cancel	Firmware Version: 2. Help Helpful Hints Print Server, including t firmware version, MAC address, and up time, o be found in this field. Printer Status: The lifems in this field display the information the printer such as the
duct: DP-301U	Setup DEVICE INFO The following show PRINT SERVER Firm	Advanced Advanced Advanced Advanced Status Server Name : dlk-1A2AA Model : DP-3010 ware Version : 2.20 (200 MAC Address : 0.017 9A IP Address : 0.017 9A	Maintenance Maintenance	Cancel	Firmware Version: 2. Help Help Helpful Hints Print Server Status: The information about firmware version, MAC, address, and up time, o be found in this field. Printer Status: The terms in this field deplay the information the printer, such as the given name for the print speed, mitter status:
duct: DP-301U	Setup DEVICE INFO The following show PRINT SERVER Firm	Advanced Advanced Advanced Advanced STATUS Server Name : dlk-1A2AA Model : DP-3010 ware Version : 2.20 (200 MAC Address : 00.17 9A IP Address : 10.62.32. Up Time : 0 days, 01	<u>Next</u> <u>Next</u> <u>Naintenance</u> tion. A 7-11-06) BF SC EA 15 (Manual) .:30:07	Cancel	Firmware Version: 2.: Help Helpful Hints Print Server Status: The information about hirmware version, MAQ, address, and up time, or be found in this field display the information the printer Status: The items in this field display the information the printer status, or speed, printer status, or status of your printing tasks, etc.

Select Custom and click Settings.

dd Standard To Additional Por The device	CP/IP Printer Port Wi t Information Required could not be identified.	zard	
The detected de 1. The device is 2. The address of Either correct the previous wizard p	vice is of unknown type. By properly configured on the previous page is corr address and perform anoth page or select the device ty	e sure that: ect. ner search on the network by pe if you are sure the address	returning to the s is correct.
Device Type Standard Custom	Generic Network Card		•
<u> </u>	Jeturiga	(Back) Nei	xt> Cancel

Then the follow screen will shows up, select LPR from the **Protocol** field. Then enter the **Queue Name**, which can be referred from **PRINTER STATUS** of the print server's Web configuration, in the LPR Settings field. Click OK.

onfigure Standard T(CP/IP Port Monitor	?
Port Settings		
Port Name:	IP_10.62.31.15	
Printer Name or IP Addre	\$\$: 10.62.31.15	
Protocol Raw	(⊙ LPR	
Raw Settings Port Number:	515	
LPR Settings Queue Name:	dlk-1A2AAA-U1	
LPR Byte Counting	Enabled	
SNMP Status Enab	led	
Community Name:	public	
SNMP Device Index:	1	
	OK	Cancel

Product: DP-3010	k					Firmware Version: 2.20
DP-301U	Setup	Advanced	Maint	enance	Status	Help
Device Info	DEVICE INFO					Helpful Hints
Network	The following shows th	ne general system informa	ition.			Print Server Status: The information about the
Print Log Printer Off Ine Reboot	PRINT SERVER STATUS Server Name : dlk-1A2AAA Model : DP-301U Firmware Version : 2.20 (2007-11-06) MAC Address : 00 17 9A BF 5C EA					The information database the print server, including the firmware version, MAC/IP address, and up time, can be found in this field. Printer Status: The items in this field display the information of the printer, such as the given name for the printer, need onther status, and
	PRINTER STATUS	Up Time : 0 days, 01	:30:07			status of your printing tasks, etc. LAN Status: You can monitor the networking status in this
		USB: Printer Na Printer Sp Printer St	ime : ieed : atus :	dlk-1A2AAA-U Off line Off line	\supset	field, including the network connection, speed, and the packets status.
		Total Prin Total Prin	t Jobs : t Size :	0 O KBytes		

Click Next.

Additional Por The device	t Information Required could not be identified.	1
The detected de 1. The device is	vice is of unknown type. Be sure that: properly configured.	
2. The address (on the previous page is correct.	bu returning to the
distant and some with black		The second dependence for the second
Lither correct the previous wizard p	address and perform another search on the network bage or select the device type if you are sure the add	ress is correct.
Either correct the previous wizard p	address and perform another search on the network age or select the device type if you are sure the add	ress is correct.
Device Type	address and perform another search on the network bage or select the device type if you are sure the add	ress is correct.
Either correct the previous wizard p Device Type O Standard	Generic Network Card	ress is correct.
Device Type Standard	Generic Network Card	ress is correct.

Click Finish.

Add Standard TCP/IP Prin	ter Port Wiza	ard	X
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type:	No LPR, dk-1A2AAA- U1 10.62.31.15 IP_10.62.31.15	
	To complete t	his wizard, click Finish.	
		< Back Finish Cance	

Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click Next.

Add Printer Wizard			
Install Printer Softwar The manufacturer an	e d madel determine whi	ch printer software to use.	
Select the manufa disk, click Have D compatible printer	cturer and model of you isk. If your printer is not software.	ar printer. If your printer came wi listed, consult your printer docu	th an installation umentation for
Manufacturer Fujitsu GCC Generic Gestetner HP	Printers Pr	rdet 3200 Series PCL rdet 3200 Series PS rdet 4 rdet 4000 Series PCL rdet 4000 Series PCL	
This driver is digitally since Tell me why driver sign	gned. Ing is important	<u>Windows Update</u> < <u>B</u> ack	Have Disk

At this screen, you can input a name for the printer, and then click Next



Select the first option, Do not share this printer, and click Next.

Add Printer Wizard	
Printer Sharing You can share	this printer with other network users.
Indicate wheth printer, you mu	er you want this printer to be available to other users. If you share this it provide a share name.
Dg not sha	re this printer
C Share as	HPLaserJ
	< Back Next > Cancel

Select Yes to print a test page, click Next.

Add Printer Wizard			
Print Test Page To confirm that the printer is installed pro	operly, you can print	t a test page.	
Do you want to print a test page?			
• Yes			
○ N <u>o</u>			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Click **Finish**. The printer is now ready for printing with Windows 2000 on your network.

Add Printer Wizard		
	Completing the Add Printer Wizard You have successfully completed the Add Printer Wizard. You specified the following printer settings:	
	Name:	HP LaserJei
	Share name: <not shared=""></not>	
	Port: IP_10.62.31.15	
	Model: HP LaserJet 4000 Series PCL	
and the second se	Default: No	
	Test page:	No
	To obse this	without olick Einish
	i diciose this wizard, click Finish.	
		< Back Finish Cancel

TCP/IP Printing for Windows 98SE/ME

Go to **Start → Settings → Control Panel**. Double click on **Network**, and then click **Add**.

etwork			?
Configuration Identification	Access Control	1	
The following network comp	onents are insta	led:	
Client for Microsoft Netw Microsoft Family Logon D-Link DWL-650 11Mbp Dial-Up Adapter TCP/IP -> D-Link DWL- TCP/IP -> Dial-Up Adapter	rorks os WLAN Adapt 650 11Mbps WI der	er LAN Adepter	4
Primary Network Logon:	Remove	Propertie	
Microsoft Family Logon			٠
Elle and Print Sharing			
Description			
	0	к с	ancel

Highlight **Client** and click **Add**.

Select Network Component Type	? ×
Click the type of network component you want to install	
Clerk	Add
Protocol Service	Cancel
A client enables your computer to connect to other computers.]

At this window, click Have Disk.

Select Network Client	
Click the Net	tork Client that you want to install, then click DK. If you have disk for this device, click Have Disk.
Manufacturers:	Network Clients:
🛲 Banyan	Baryan DOS/Windows 3.1 client
Microsoft	1996 B
S Novel	
	Have Disk
	UK. Cancel

 Insert the DP-301U CD-ROM into your CD-ROM drive. Select the letter representing the CD-ROM drive on your computer from the pull-down menu.
 Double-click on the folder **lpr**.

- 3. Highlight Ipr.inf
- 4. Click OK.



Click OK to accept the location of the file.

Install Fr	om Disk	×
-	Insert the manufacturer's installation disk into the drive selected, and then click OK.	Cancel
	Copy manufacturer's files from:	
	G:\LPR	Browse

You should now be back to the Network Properties Page. Highlight LPR for TCP/IP Printing and click Properties.

The following network components are inst	alled
Client for Microsoft Networks	
🔜 LPR for TCP/IP Printing	
🔜 Microsoft Family Logon	
📲 D-Link DWL-650 11Mbps WLAN Adap	oler
DiaHUp Adapter	
TCP/IP -> D-Link DWL-650 11Mbps W	/LAN Adapter 🔄
Add Remove	Properties
Primaru Network Locopy	
Microsoft Earthy Logon	*
Iniciation Family Edgeri	
File and Print Sharing	
Description	
LPR for TCP/IP Printing (v1.00/1997-08-	20) enables you to
devices that support TCP/IP LPR printing	a protocol.
Colored States	Crucil Crucil

Click Add Port.

PR for TCP/IP Printing Properti	ies 🛛
Ports Settings	
Port List	
F	
Add Port	Delete Rott
	UK Lancel

Type in the IP address and Port Name of the print server, which can be referred from the **PRINTER SERVER STATUS** and **PRINTER STATUS** of the print server's Web configuration, in the corresponding field, and then click **OK**. (The IP Address and Port Name here are just for example only.)

IP Address :			
10.62.31.15			
Port Name :			
dlk-1A2AAA-U1	-		

roduct: DP-301U					Firmware Version: 2.20
D-Lin	ĸ				
DP-301U	Setup	Advanced	Maintenance	Status	Help
evice Info	DEVICE INFO				Helpful Hints
etwork.	The following shows t	Print Server Status: The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.			
int Log	PRINT SERVER STATUS Server Name : dlk-1A2AAA				
Pinter					
Offline		Model : DP-301U			Printer Status:
	Firmwa	are Version : 2.20 (200	07-11-06)		display the information o
Reboot	MA	C Address : 00 17 9A	BF 5C EA		the printer, such as the given name for the printe
		IP Address : 10.62.32	.15 (Manual)		speed, printer status, an
		Up Time : O days, O	1:30:07		status of your printing tasks, etc.
					LAN Status

Product: DP-301U							Firmware Version: 2.20
D-Linl	K						\prec
DP-301U	Setup	Advance	ed M	aint	enance	Status	Help
Device Info	DEVICE INFO						Helpful Hints
Network	The following shows th	ne general system	n information.				Print Server Status: The information about the
Print Log	PRINT SERVER ST	ATUS					print server, including the firmware version, MAC/IP address, and up time, can
Pinter	Se	rver Name: d	k-1A2AAA				be found in this field.
Off line	Fiermuna	Model : Di	P-301U .00 (0007 11 06				Printer Status: The items in this field
Reboot	MA	CAddress : 0	.20 (2007-11-08 D 17 9A BF 5C E	, Α			display the information of the printer, such as the
	1	P Address : 10	0.62.32.15 (Mar	ual)			given name for the printer, speed, printer status, and
		Up Time : 0	days, 01:30:07				status or your printing tasks, etc.
	PRINTER STATUS						LAN Status: You can monitor the
		USB : P	rinter Name	3	dlk-1A2AAA-U1	\supset	field, including the network
		P	rinter Speed	1	Off line		the packets status.
		P	rinter Status	1	Off line		
		т	otal Print Jobs	3	0		
		T.	otal Print Size	;	0 KBytes		

The IP Address and Port Name will be displayed in the following screen. (The IP Address and Port Name here are just for example only.) Click **OK**.

Port List	1 15/414-10200	0_111	_
10.02.0	1.191900-10200	n-v1	
Add	Port	Deter	e Port

Click OK.

Network ? 🗙
Curifiguation Identification Access Control
The following network components are installed:
Clearly for Misson & Maturalia
LIPB for TCP/IP Printing
String Control Control Participation
Dial-Up Adapter
Intel 21140 based 10/100 mpbs Ethernet Controller
Add <u>He</u> move <u>Properties</u>
Primary Network Logon:
Microsoft Family Logon
File and Print Sharing
OK Cancel

Windows will ask for a restart.

Click Yes.



Once your computer has rebooted, click on Start \rightarrow Settings \rightarrow Printers \rightarrow Add Printer. When the Add Printer Wizard screen appears, click Next.



Select Network Printer and click Next.

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
	<u>Network printer</u> <u>Ack</u> <u>Next></u> Cancel

Type in the path if you know it; otherwise, click **Browse**.

Type the network pat If you don't know its n network printers. Network <u>p</u> ath or queu	n or the queue nam ame, click Browse e name:	e of your printer. to view available
Network path or queu	e name:	
Do you print from MS-	DDS-based program	Browse
C Yes	ooo basca program	110 :
• <u>1</u> 00		
- 11°		
< <u>B</u> ack	Next>	Cancel
	Doyou print from MS- [●] Yes [●] No <u>Kack</u>	Doyou print from MS-DOS-based program [●] Yes [●] No <u>< B</u> ack Next >

At the following screen, browse for the printer port and highlight the port (e.g.

dlink-1D6FA3 in this manual). Click OK.



If the network path is not specified, type in the IP Address and Port Name of the print server. Select Yes or No to enable or disable printing from MS-DOS based programs. Click **Next**.

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.
CONTRACTOR	WAG CO 24 45484 409000 114
A summittee and	(10.62.31.15)dik-TAZAAA-01
	Browse Do you print from MS-DOS-based programs? ⊂ Yes ເ⊂ №ο
	<back next=""> Cancel</back>

Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers. Click **Next**.

Click the manu installation disk documentation	lacturer and model of your printer. If your printer ca , click Have Disk. If your printer is not listed, cons for a compatible printer.	ame with an uit your printer
Manufacturers:	Printers:	
Fujitsu GCC Genetic Hermes HP	HP LarerJet IIISi HP LarerJet IIISi PostScript HP LarerJet Series II HP LarerJet IID HP LarerJet IID PS Cartridge HP LarerJet IIP HP LarerJet IIP Pluz	- - -
	На	ve Disk
	< Back Next >	Cancel

Click Next



Select Yes to print a test page. Click Finish.



To check whether the printer is installed, go to Start \rightarrow Settings \rightarrow Printers.



Unix/Linux Printing

Printing Text Files form Unix

Text files on Unix systems contain lines that end with "newline" characters, as opposed to MS-DOS and Windows-related operating systems that end with a carriage return followed by a linefeed. Most printers require a carriage return/linefeed pair at the end of each line, making it necessary for some translation to be done before Unix text files can be printed on most printers.

For this purpose, you can define two "printers" for the same printer port, one that prints to the port itself, and one that prints to the port name with _TEXT added to the name. Files printed to the second port will be translated so that the printer has the carriage return/linefeed pairs that it needs.

For example, you could define a printer hp51 that prints to port PS-142634-P1, and a printer hp51t that prints to port PS-142634-P1_TEXT. Your graphics files could then be printed to the hp51 printer, and "raw" text files could be printed to the hp51t printer.

Printing form BSD Unix Versions

For "flavors" of the Unix operating system derived from or related to the BSD releases, such as SunOS 4.x, Linux, BSD/OS, FreeBSD, or NetBSD, you can use the following procedure to enable users to print to a printer connected to your D-LINK network print server:

- **1.** Log in as the superuser (root).
- 2. Add an entry for the print server in the host's /etc/hosts file, giving a hostname for the print server's IP address. A line in /etc/hosts contains an IP address and one or more aliases for the host. For example:

202. 39. 74. 40 ps-142634 ps-142634.dlink.com.tw

If you use DNS (the Domain Naming Services protocol), you can add an address record entry to your DNS database for the print server.

- **3.** Create a spool directory for the printer:
 - On SunOS systems, create the directory as a subdirectory of /var/spool, with the same name as the printer (e.g., /var/spool/hp51).
 - On Linux systems, create the directory as a subdirectory of /user/spool /lp.
 - On BSD/OS, FreeBSD, or NetBSD systems, create the directory as subdirectory of /var/spool.
- **4.** Change the owner and permissions of the directory so that it is owned and writable by group daemon, using the following commands:

chown bin.daemon /var/spool/hp51

chmod 775 /var/spool/hp51

5. Add an entry for the printer to /etc/printcap, similar to the following:

```
hp51:\
```

```
:lp=:sd=/var/spool/hp51 :mx#0:\
```

```
:rm=ps-142634:rp=ps-142634-p1:
```

The meaning of each of the entries is described below. The directory path in the sd spool directory entry should match the directory name you created above. If your entry requires more than one line you can escape the newline with a backslash.

6. Issue the command

```
lpc start hp5l
```

to start a spool daemon for the printer. The printer will now be available for use.

7. Optionally, add another printcap entry (and issue another lpc start command) for a second printer, using the port_TEXT port. This second printer name can be used for printing text files.

Entries in /ect/printcap begin with a name for the printer or a list of name, separated by | (a vertical bar). The entries used above are:



- **sd=dir** The location of the printer's local spool directory.
- mx#blocks The limit for print job files in the local spool directory;
 0 means no limit.
- •
- **rm=address** The host where the remote printer is located, in this case the D-Link print server.
- rp=printer The name of the printer on the remote host.
 For the D-Link print server, the port name should be used.
 Note: this entry is case-sensitive.
Printing from SCO Unix System V/386

To allow printing to a printer attached to your D-LINK network print server from a SCO Unix System V/386 host.

- 1. Login as the superuser (root).
- 2. Add an entry for the print server in the host's /etc/hosts file, giving a hostname for the print server's IP address. A line in /etc/hosts contains an IP address and one or more aliases for the host. For example:

202.39.74.40 ps-142634 ps-142634.dlink.com.tw

If you use DNS (the Domain Naming Services protocol), you can add an address record entry to your DNS database for the print server.

- 3. Change to the /dev directory, and issue the command mkdev rlp
- 4. The script will ask:

Do you want to install or delet remote printing (i/d/q)? Answer i and press Enter to continue.

5. The script will ask:

Do you want to change the remote printer description file /etc/printcap (y/n)?

Answer y and press Enter to continue.

6. The script will ask:

Please enter the printer name (q to quit):

Enter an alias for the printer on the local machine and press Enter. This name should be the same as the destination port name.

7. Answer r (remote printer) to the question

Is printer a remote printer or a local printer (r/l)?

8. When prompted with the question:

Please enter the name of the remote host that printer is attached to:

then enter the address of the D-Link print server. You can use the name you added to /etc/host in the step above.

9. Confirm that your entries are correct.

Is this correct? (y/n)

10. Answer the question:

```
Would you like this to be the system default printer? (y/n)
```

11. When you are done adding remote printers, enter q for the printer name.

12. Answer y to the question

Do you want to start remote daemon now (y/n)?

Once remote printing is set up, you can use the 1p command to print jobs to the new printer. For more information, consult your SCO Unix documentation.

Printing from Solaris

To allow printing from a Sun Solaris workstation,

- **1.** Log in as the superuser (root).
- 2. Add an entry for the print server in the host's /etc/hosts file, giving a hostname for the print server's IP address. A line in /etc/hosts contains an IP address and one or more aliases for the host. For example:

202.39.74.40 ps-142634 ps-142634.dlink.com.tw

If you use DNS (the Domain Naming Services protocol), you can add an address record entry to your DNS database for the print server.

- 3. In OpenWindows, start the admintool program.
- 4. Click on the Printer Manger icon.
- 5. From the Edit menu, select Add Print, then Add Access to Remote Printer...
- 6. Enter values for the fields as follow:
 - Printer Name This field should contain the name of the printer port you wish to use. The field is case-sensitive.
 - Printer Server This field should contain the IP address of the print server, or the alias name you added in step 2.
 - Printer Server OS This field should be set to BSD.
- 7. Confirm the addition.
- **8.** Optionally repeat the addition to add another printer for printing text files, with_TEXT appended to the port name.

Once you have added the new printer, you can use the 1p command to print files to the printer. Consult your Solaris documentation for details.

Printing from Red Hat Linux

Adding a Printer

1. Click the printer icon



at the bottom of the desktop.



2. Since no printer is set up so far, a prompt appears asking to run the printer configuration tool.



3. Click the **OK** button in the pop-up dialogue box to open the man **Printer configuration tool** menu. Note that to use the **Printer configuration tool** you must have root privileges, and to start the application you may also type the command: "redhat-config-printer".



4. Click the **New** button **New** in the **Printer configuration tool** menu.

>	Printer	configu	ration - I	ocalhost.	localdomain	-	×
	<u>A</u> ction	<u>T</u> est	<u>H</u> elp				
4			S.		B		
1	New	Edit	Delete	Default	Apply		
Q	ueue nar	ne 🕶 D	efault D	escription			
l—							_

Printer Configuration Tool menu

5. The Add a new print queue menu appears, click Forward to continue.



6. Enter a unique name for the printer in the **Name** text field. The printer name cannot contain spaces and must begin with a letter. The printer name may contain letters, numbers, dashes (-), and underscores (_). Optionally, enter a short description for the printer, which can contain spaces. Then click **Forward** to enter **Queue type** window.

♥ Add a new print queue						
Queue name						
Please enter a name for this queue. Choose a short name that begins with a letter and contains no spaces. Name: printer						
If you like, you can enter a d to help you identify it more e	lescription of the printer asily.					
Short description:	Short description:					
🔀 <u>H</u> elp	X Cancel A Back	<u>-</u> orward				

7. Select Networked UNIX (LPD) in the Select a queue type pull down menu, enter the IP address of the print server to which the printer is attached in Server field, and type the port name in queue field. Click Forward to select the type of printer.

Add a new print queu	e	
Queue type		
Select a queue type:	Networked <u>U</u> NIX (LPD)	•
Server:	Queue:	
10.24.313	Ip	
🚱 <u>H</u> elp	🔀 <u>C</u> ancel	

8. Select the printer model.

✔ Add a new print queue	
Printer model	
Select the printer manufacturer and model.	<u>N</u> otes
Generic (click to select manufacturer)	T
Text Only Printer	•
Raw Print Queue	
24-pin 136 Col	
24-pin 80 Col	*
L	
Belp X Cancel	

If a printer has not been detected automatically, select the model from the list. You can manually select the name of the printer manufacturer from the **Generic (click to select manufacturer)** pull-down menu, and the printer model from the sub-list. Click **Forward** to continue.

🗙 Add a new print queue	
Printer model	
Select the printer manufacturer and model.	<u>N</u> otes
HP	±
LaserJet 3200	^
LaserJet 3200m	
LaserJet 3200se	
Laser let 3300 MEP	\
₩ <u>C</u> ancel	▶ <u>F</u> orward

9. The last step is to confirm your printer configuration. Click Apply button to confirm or Back button to modify the configuration.

10. Print a test page to make sure the printer is functioning properly. To print a test page, select the printer from the printer list, then select the appropriate test page from the Test drop-down menu.



Setting up Printing in Mac OS X Tiger (10.4)

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

Click on this icon

Preferences window as below.

000		Sy	stem Prefere	ences		
	Show All				Q	
Personal						1
File New				3	õ	 Q Z
Appearance	Dashboard & Exposé	Desktop & Screen Saver	Dock	International	Security	Spotligh
Hardware						
8	(9		do -
Bluetooth	CDs & DVDs	Displays	Energy Saver	Keyboard & Mouse	Print & Fax	Sound
Internet &	Network					
(0	Q				- È
.Mac	Network	QuickTime	Sharing			- Ł

Click on 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 Talk Active** option. Click on the **Apply Now** button and close the menu. Apple Talk is now active on the system. Now a printer can be added.

000	Network	
Show All		Q)
Location:	Automatic	•
Show:	Built-in Ethernet	•
TCP/IP PPI	PoE AppleTalk Proxies Et	hernet
	Make AppleTalk Active	
Computer Name:	Chen Gloria's PowerBook G4 1 (Can be changed in Sharing Preferen	5" ces)
AppleTalk Zone:	(× v
Configure:	Automatically	•
To choose a zo	ne, first click Apply Now to turn on Ap	pleTalk.
Click the lock to prevent fur	ther changes. Assist m	ne Apply Now

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. 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 on the



Default Browser button in the Printer Browser menu.

00	Printe	er Browser		0
9	4	(Q,=		\square
Default Browser	IP Printer		Search	
Printer Name		A	Connection	
LPT1			AppleTalk	
LPT1			Bonjour	
PS-C0D26A-P2	2		AppleTalk	
PS-C0D26A-P	2		Bonjour	
dlk-1A2AAA-U1			AppleTalk	
dlk-1A2AAA-U1			Bonjour	
Name:	dlk-1A2AAA-U1			
Location:	Local Zone			
Print Using:	Auto Select		\$	
24	Opening connection			
MC				
?		More Printers) Add	
				11.

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 dlk-1A2AAA-U1. 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.

	Printer	Browser C
4	<u> </u>	Q
efault Browser	IP Printer	Search
Printer Name		Connection
LPT1		AppleTalk
LPT1		Bonjour
PS-C0D26A-P2	2	AppleTalk
PS-C0D26A-P2	2	Bonjour
dlk-1A2AAA-U1		AppleTalk
dlk-1A2AAA-U1		Bonjour
Name: Location:	dlk-1A2AAA-U1	
Print Using:	HP	;
-	Model	A
	The Easerget ELGO	6
	HP LaserJet 2300	
	HP Laserjet 2410	
	HP LaserJet 2420	
	HP LaserJet 2420 HP LaserJet 2430	U
	HP LaserJet 2420 HP LaserJet 2430 HP LaserJet 3015 HP LaserJet 3030 2020	U
	HP LaserJet 2420 HP LaserJet 2430 HP LaserJet 3015 HP LaserJet 3020 3030 HP LaserJet 3200	
	HP LaserJet 2420 HP LaserJet 2430 HP LaserJet 3015 HP LaserJet 3020 3030 HP LaserJet 3200	A T

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 on the IP Printer button in the **Printer Browser** window. Select the desired printing protocol from the **Protocol** drop-down menu.

000	Prin	nter Browser	\bigcirc
(D)	9	Q,+	
Default Browser IP	Printer	Search	
Protoco V L	nternet Printi ine Printer D IP Jet Direct -	ing Protocol – IPP aemon – LPD - Socket	D
Address:			
Ent	er host name or	IP address.	
Queue:			•
Lea	ive <mark>blank for def</mark>	fault queue.	
Name:			
Location:			
Print Using:	lease select a	driver or printer model	•
?		(More Printers)	Add

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. 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 Jet Direct – Socket) are basically the same. Illustrated examples are include below for the sake of reference.

For set up LPD Printing:

- 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	Printer Browser	0
9	(Q.	
Default Browser	IP Printer Search	
Protoco	Line Printer Daemon – LPD	•
Address	10.13.55.251	
	Valid and complete address.	
Queue	:: dlk-1A2AAA-U1	
	Leave blank for default queue.	_
Name	:: 10.13.55.251	
Location		
Print Using	: Generic PostScript Printer	•
(?)	More Printers)	dd
		11.

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

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 Search	
Protocol	: Internet Printing Protocol – IPP	•
Address	: 10.1.32.2 :80	
Queue	dlk-1A2AAA-U1 Leave blank for default queue.	
Name	: 10.1.32.2	
Location Print Using	: Generic PostScript Printer	•
?	More Printers Ac	ld

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

For set up Socket Printing:

- 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	Pri	nter Browser	0
4	4	(Q.r.	
Default Browser	IP Printer	Search	
Protocol:	HP Jet Direct -	Socket	•
Address:	10.62.72.251:	9100	•
	Valid and complete	e address.	
Queue:			*
	Leave blank for de	fault queue.	
Name:	10.62.72.251		
Location	-		_
Elecation.	(110		
Print Using:	HP		
	Model		*
	HP Color LaserJet	2550 Series	-
	HP Color LaserJet	3700	
	HP Color LaserJet	4500 v2014.200	
	HP Color LaserJet	4550 v3010.107	
	HP Color Laserjet	4650	
	HP Color Laserlet	5/5M v2015.104	4
(?)		(More Printers)	Add)

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

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

00	Printer Browser	0
(- T = 1	astallable Ontions	
	0.62.72.251	
Make sure full advan hardware,	your printer's options are accurately shown here so you tage of them. For information on your printer and its op check the documentation that came with it.	can take otional
Tray	an 10:62/2012/51. 3 Naha uta comanya adarent	
Memory	Configuration: 64 – 127 MB RAM	
Dupl	ex Unit	
Paper M	atching: Prompt User for correct size	
?	Cancel Co	ntinue
_	HR Color Lacorlet 4550 v2010 107	
	HP Color Laserjet 4600 v3010.107	
	HP Color LaserJet 4650	¥
	HP Color LaserJet 5/5M v2015.104	Ŧ
2		

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.



Setting up AppleTalk or LPR Printing in Mac OS X

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

With Mac OSX you can use AppleTalk or LPR printers using IP protocols for printing through Print Servers.

Open your System Preferences window and Click Network.



Select the AppleTalk tab in this window and check Make AppleTalk Active.

00	Network	G
🐱 💻 🔬	🚱 🔟	
Show All Displays Sound N	etwork Startup Disk	
Lo	cation: Automatic	
Show: PCI Ethernet Slot C	1 🕴	
ТСР	/IP PPPoE AppleTalk Proxies	<u> </u>
	Make AppleTalk Active	
Computer Na	me: david chen's Computer (Can be changed in Sharing Preference	5)
AppleTalk Zo	one:	+
Config	ure: Automatically	•
Click the lock to preve	nt further charge a la 🖛 💿 🖨	Apply New

S Texteun	File Eult Fo	Jiniat W	nuow Help
	New	ЖN	2000
	Open	жо	Intitled
test	Open Recent	•	
	Close	жw	
	Save	₩S	
	Save As	ፚ ፠ s	
	Save All		
	Revert to Sav	/ed	
-5- / 1	Page Setup	. ☆ ೫P	
	Print 🚳	ЖP	

To print, open a document and select File \rightarrow Print from the menu.

Select Edit Printer List from the Printer dialog box.

Printer:	✓ No Printer Selected
Saved Settings:	Edit Printer List 📡 👔
Copies & Pages	1
Copies: 1	🗹 Collated
Pages: 💽 All	1 to: 1

Click Add Printer



Select the printing protocol preferred, AppleTalk or LPR Printers using IP. In this example, AppleTalk has been selected.

-	LPR Printers USB	using IP	\$
Name	Directory Ser	vices	
📓 dik-1,82,84,8-01	-	LaserWrit	ter
dik-1D6FA3-U1		LaserWrit	ter
dik-1D6FA3-U2		LaserWrit	ter
dlk-1D6FA3-P3		LaserWrit	ter
Printer Mo	del: Auto Sele	ct	

AppleTalk protocol: After selecting AppleTalk, the Port Names of the Print Server will be displayed. The Port Names shown here are examples only. Click on the Port to which the post-script printer is connected.

00) 🖯	Pri	nter List	
0	Name		Kind	Status
0	dlk-1A2AAA-U1		LaserWriter	
	dlk-1D6FA3-U1		LaserWriter	
	dlk-1D6FA3-U2		lpr host	
	dlk-1D6FA3-P3		lpr host	
				k
		Delete	Add Printer.	

Then select the printer model from the dialog box displayed here. Click Add Printer and the Printer Port configuration is completed. Select the Printer Port just configured in the Print window. Click Print to print your document.

LPR Printer's Address: rnet address or DNS name	192.168.0.10	
	<u> </u>	
Use Default Queu	e on Server	
Queue Name: dl	e on server <-1A2AAA-U1	

LPR Printers using IP protocol: When you select LPR Printers using IP Protocol, this window will appear.

Type the IP Address of the Print Server into the LPR Printer's Address field.

In the Queue Name field, enter the Port Name of the post-script printer that is

connected to the Print Server. The Port Name illustrated here is only an example.

Select the printer model from the dialog box.

Click Add and the process are completed.

Close all Print Center windows, select the Printer Port that was just selected. Click Print to print the document.

Setting up AppleTalk Printing in Mac OS 9

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

The AppleTalk network protocol is used with computers using the MacOS operating system. It can be used for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary low-speed LocalTalk transport.

Print server can be used for network printing to PostScript printers. You can print from any MacOS computer connected to your Ethernet network, either directly using an EtherTalk connection, or indirectly through a LocalTalk-to-EtherTalk router.

NOTE: The Chooser name of a printer connected to one of the Print Server's ports is the same as its Port Name. If you are using AppleTalk printing, you will need to make sure that every Port Name is unique among all of the network printers in your AppleTalk zone. The Port Names shown in this manual are examples only.

To set up print server so that it can be used for AppleTalk printing:

Make sure the AppleTalk protocol is enabled in your Macintosh.

Make sure the PC's IP Address must correspond with the Print Server's IP Address in the same segment for the two devices to communicate.

Launch the browser and enter print server web interface, select the ADVANCED tab, click Advanced LAN button and then scroll to the bottom to the AppleTalk protocol section ■ If your AppleTalk network is divided into AppleTalk zones, you will have to specify which zone the Print Server should be in. You should locate the Print Server in the same zone as most of the users who will be using it. If your network is not divided into zones, the AppleTalk Zone field should contain a single asterisk (*).

For each Printer Port that will be used for AppleTalk printing, you may need to change the AppleTalk Port Settings in the **Advanced LAN** screen, shown as below.

301U	Setup	Advanced	Maintenan	ce	Status	Help
:e Info	NETWORK STATU	JS				Helpful Hints
iork	The following shows	the general networking st	atus.			Auto IP: This field contains th
Log						current settings of T including DHCP/BOO
		DHCP/BOOTP ·	Disable (IP : 0.0.0	າດາ		UPnP, and Mac Bonjour/Rendezvous
Off Ine		UPnP :	Enable (IP : 10.68	8.15.16)		configured in Advar
	Mac E	Bonjour/Rendezvous :	Enable (IP : 10.63	2.32.15)		> Advanced LAN - TCP/IP.
Reboot		0				TCP/IP Printing:
	TCP/IP PRINTIN	u				monitor the status of
		LPR Printing :	Status	: Runni	ng	TCP/IP.
			Total Print Jobs	: 0 : 0 /Ps	tor	Microsoft Networ
		Dort (0100) Drinting	TOtal Phrit Size	. U NBY	ues	Printing: In this field, you can
		PORC (9100) PRINTING :	Status Total Drint John	: Runni	ng	monitor the status o
			Total Print Size	: U • ПКВу	tes	Microsoft Network.
		IPP Printing :	Ctatur	, Dunni	na	Mac AppleTalk
		ar running r	Total Print Jobs	: 0	ny	Printing: In this field, you can
			Total Print Size	: 0 KBy	tes	monitor the status o printing tasks throug
		FTP Printing :	Status	: Runni	na	AppleTalk.
			Total Print Jobs	: 0		
			Total Print Size	: 0 KBy	tes	
	MICROSOFT NET	WORK PRINTING				
	SMB (O	ver NetBEUI) Printing :	Status	: Runn	ng	
			Total Print Jobs	: 0	107	
			Total Print Size	: 0 KBy	tes	
	SMI	3 (Over NBT) Printing:	Status	: Runn	ng	
			Total Print Jobs	: 0		
			Total Print Size	: 0 KBy	tes	
	MAC APPLETAL	PRINTING				
		AppleTalk Printing :	Status	: Runn	ng	
			Total Print Jobs	: 0		
			Total Print Size	: 0 KBy	tes	

AppleTalk

Enter the AppleTalk Zone name in the box. In the following options, enter the related configuration, such as the printer type.

<u>Chooser Name</u>: Display the print server's port name.

<u>Printer Type</u>: Enter the printer's type in this box.

PostScript Level: Select from the pull-down menu (Level 1 or Level 2).

Font Group: Select from the pull-down menu.

The exact procedure for selecting a PostScript printer connected to print server may vary slightly, depending on what printer driver version you are using. The procedure described below assumes you are using the LaserWriter 8.

To choose a printer connected to print server as your MacOS workstation's default printer, open the Chooser by selecting Chooser from the Apple menu. Select the LaserWriter 8 icon on the left. Make sure that AppleTalk is set to **Active**.

A list of all networked PostScript printers will be displayed as follow.

Double-click the name of the Printer Port you wish to use. The Printer Ports shown are examples only.



If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD**.



Select the appropriate printer description file for your printer.

Click Open. (If your printer is not listed, click Generic to use a generic printer description.)

If you wish to access this setting in the future, you can use the Setup button in the Chooser window.

The selected printer will become your computer's default printer. You may need to choose Page Setup in any applications you have open.

Technical Specifications

Printer Connection

Printer Port: USB port

Bi-directional Communication: Hewlett-Packard PJL (Printer Job Language)

standard for bi-directional communication.

Network Connection

Network Standards: 100Base-TX Fast Ethernet

Network Data Transfer Rate: 10/100 Mbps (megabits per second)

Network Connector: RJ-45

Network Protocols

Ethernet Frame Types: 802.2, 802.3, Ethernet II, SNAP (auto-switching)

Transport Protocols: TCP/IP, NetBEUI, AppleTalk/EtherTalk, LPR,SMB

TCP/IP Protocols Supported: BOOTP, SNMP, FTP, LPD, RARP, DHCP, IPP

Management and Diagnostics

Standard: SNMP

MIBs: MIB-II (RFC 1213)

Diagnostic LED Indicators: Power, USB, LAN

Environmental and Physical

Power Supply: External power supply providing 5V, 2.5A DC

Dimensions: 3.54" x 3.19" x 1.57" (90 mm x 81 mm x 40 mm)

Weight: approx. 4.27 oz. (121g)

Operating Temperature: 32 to122°F (0 to 50°C)

Storage Temperature: -13 to 131°F (-25 to 55°C)

Humidity: 5% to 95% non-condensing

Emissions: FCC Class B, CE Class B, VCCI Class B

Contacting Technical Support

Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone: (877) 453-5465 24 hours a day, seven days a week.

D-Link Technical Support over the Internet: http://support.dlink.com email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone: (800) 361-5265 Monday to Friday 8:30am to 9:00pm EST

D-Link Technical Support over the Internet: http://support.dlink.ca email:support@dlink.ca

When contacting technical support, please provide the following information:

- Serial number of the unit
- Model number or product name
- Software type and version number
Warranty and Registration

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (—D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

- D-Link or its authorized reseller or distributor and
- Products purchased and delivered within the fifty states of the United States, the District of
- Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type (—Warranty Period"), except as otherwise stated herein.

1-Year Limited Warranty for the Product(s) is defined as follows:

- Hardware (excluding power supplies and fans) One (1) Year
- Power Supplies and Fans One (1) Year
- Spare parts and spare kits ninety (90) days.

D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or have an identical make, model or part. D-Link may in its sole discretion replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product (-Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90)days (-Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund at D-Link's sole discretion. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Software will be warranted for the remainder of the original Warranty Period from the date or original retail purchase. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for hardware and software of D-Link's products will not be applied to and does not cover any refurbished product and any product

purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold —As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

• The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same.

■ The original product owner must obtain a Return Material Authorization (—RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided.

After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.

■ The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (—COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 53 Discovery Drive, Irvine, CA 92618. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: This limited warranty provided by D-Link does not cover: Products, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty.

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CE Mark Warning: 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.

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 radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. 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.

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of about 8 inches (20 cm) between the radiator and your body.

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

Register your D-Link product online at http://support.dlink.com/register/

Appendix: DP-301U Printer Compatibility List

DP-301U Print Server - Printer Compatibility List

The following lists the printers that have been successfully tested for compatibility with the D-Link DP-301U Print Server. The tests for printer compatibility were performed by an independent laboratory.

Each test environment consisted of the following components:

- PC operating under below network operating systems
 WinXP NetBIOS over TCP/IP, LPR. RAW and IPP printing.
 Win2000 -NetBEUI, NetBIOS over TCP/IP, LPR. RAW and IPP printing.
 MAC OS X 10.x- LPR and IPP printing.
 Linux/Unix LPR printing.
- The above PC is equipped with a 10/100BASE-TX Ethernet interface
- 10/100BASE-TX Ethernet switch
- D-Link DP-301U Print Server
- Printer under test

Printer Manufacturer	Printer Model	Printer Type
HP	DeskJet 640C	InkJet
HP	DeskJet 656C	InkJet
HP	DeskJet 845C	InkJet
HP	DeskJet 920C	InkJet
HP	DeskJet 948C	InkJet
HP	DeskJet 960C	InkJet

HP	DeskJet 90CXI	InkJet
HP	DeskJet 995C	InkJet
HP	DeskJet 125C	InkJet
HP	DeskJet 3320	InkJet
HP	DeskJet 3420	InkJet
HP	DeskJet 3425	InkJet
HP	DeskJet 3535	InkJet
HP	DeskJet 3650	InkJet
HP	DeskJet 5625	InkJet
HP	DeskJet 3745	InkJet
HP	DeskJet 3845	InkJet
HP	DeskJet 940C	InkJet
HP	DeskJet 5610	InkJet
HP	DeskJet 5650	InkJet
HP	DeskJet 5850	InkJet
HP	CP 1700	InkJet
HP	Business InkJet 1000	InkJet
HP	LaserJet 1200	Laser
HP	LaserJet 2200	Laser
HP	LaserJet 2200D	Laser
HP	LaserJet 2300D	Laser
HP	LaserJet 9000	Laser
HP	LaserJet 4600PS	Laser
HP	LaserJet 1000	Laser
HP	LaserJet 1010	Laser
HP	LaserJet 1020	Laser

HP	LaserJet 1022	Laser
HP	LaserJet 1160	Laser
HP	Color LserJet 2600N	Laser
HP	Color LserJet 3550	Laser
EPSON	LP-9100	Laser
EPSON	LP-9400	Laser
EPSON	LP-9500C	Laser
EPSON	LP-9800C	Laser
EPSON	LP-S5500	Laser
EPSON	LP-9200B	Laser
EPSON	LP-9200C	Laser
EPSON	LP-V500	Laser
EPSON	LP-4600PS	Laser
EPSON	LP-V1000	Laser
EPSON	LP-8800CPS	Laser
EPSON	LP-9800CPL	Laser
EPSON	LP-9200CPL	Laser
EPSON	LP-9100PS3	Laser
EPSON	EPL-6200	Laser
EPSON	PM-G730	Inkjet
EPSON	PM-D800	Inkjet
EPSON	PM-D600	Inkjet
EPSON	TM-T88III	POS receipt printer Thermal line
CANON	S100SP	InkJet
CANON	S200SP	InkJet
CANON	S300	InkJet

CANON	S330	InkJet
CANON	S400SP	InkJet
CANON	S520	InkJet
CANON	S600	InkJet
CANON	S6300	InkJet
CANON	S750	InkJet
CANON	S450	InkJet
CANON	S4500	InkJet
CANON	S9000	InkJet
CANON	PIXUS 850i	InkJet
CANON	BJC55	InkJet
CANON	BJC85	InkJet
CANON	1850	InkJet
CANON	IP1000	InkJet
CANON	IP3000	InkJet
CANON	IP4000	InkJet
Lexmark	Z13	InkJet
Lexmark	Z33	InkJet
Lexmark	Z43	InkJet
Lexmark	Z53	InkJet
Lexmark	Z25	InkJet
Lexmark	Z35	InkJet
Lexmark	Z45	InkJet
Lexmark	Z615	InkJet
Lexmark	Z810	InkJet
Lexmark	Z818	InkJet

Lexmark	Optra Color 45	InkJet
Lexmark	Optra C710	InkJet
Lexmark	Optra E	InkJet
Lexmark	Optra E+	InkJet
Lexmark	E310	InkJet
Lexmark	E230	InkJet
Lexmark	Optra K1220	InkJet
Lexmark	Optra M410	InkJet
Lexmark	Optra M412	InkJet
Lexmark	Optra N	InkJet
Lexmark	Optra R+	InkJet
Lexmark	Optra S1250	InkJet
Lexmark	Optra S1855	InkJet
Lexmark	Optra SC-1275	InkJet
Lexmark	Optra SE-3455	InkJet
Lexmark	OptraT614	InkJet
Lexmark	Optra W810	InkJet
FUJITSU	PHASER 3121	Laser
KYOCERA	FS-1920	Laser
SAMSUNG	ML-1520	Laser