

D-Link DPR-1020

USB Multifunction Print Server

Manual

Rev. 01 (November, 2008)

D-Link[®]
Building Networks for People

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Package Contents



Contents of Package:

- D-Link DPR-1020 USB Multifunction 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 Ethernet interface.

- Windows Vista/XP/2000/NT4/ME/98SE/95

Or

- Apple Mac OS 9.x to MAC OS X 10.4.x

Or

- Linux, Solaris, SCO Unix, AIX

- Internet Explorer 6.0 or above; Netscape Navigator version 6.0 or above, with JavaScript enabled

- Your printer must support the required operating system.

Introduction

D-Link's DPR-1020 Print Server allows you to connect a USB Multi-Function Printer (MFP) to your existing Ethernet network. This product lets multiple users print, scan and fax using the connected printer. The DPR-1020 also manages the flow of print files and delivers print jobs quickly and efficiently.

The DPR-1020 comes with easy to use software compatible with most Windows-based networks. Protocol support for TCP/IP, NetBEUI, and AppleTalk are provided to ensure seamless connection to major networking operating systems.

The DPR-1020 has a built in web configurator that allows users to easily configure the Print Server and manage multiple print queues through TCP/IP.

The DPR-1020 improves upon network printing services in the following ways:

- The DPR-1020 manages the print file traffic for all of the connected printers. This provides relief for your file servers and allows them to be used to their full capacity for file access or other network services. On peer-to-peer networks, workstations can print directly to the Print Server without increasing the load of another workstation or server.
- The DPR-1020 Print Server is portable and cheap compared to a PC-based print server. This means you're able to deploy the DPR-1020 in locations that offer maximum convenience to users.
- Use the included PS-Link software to enable your computer to use your MFP printer's print/scan/fax/copy functions. **PS-Link** helps you to install your printer's

Introduction

manufacturer drivers without creating a physical USB connection from your printer to your computer. After the software provided by your printer's manufacturer is installed, using the printer's scan and fax functions will be exactly the same as how it's described in your printer's manual.

- Use PS-Wizard to easily add a network printer on Windows for traditional TCP/IP printing.

The DPR-1020 is compatible 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

The PS software, PS Link and PS Wizard, allows further configuration of the MFP server:

- **PS-Link** —Use this to enable your computer to use your printer's print/scan/fax/copy functions and GDI printing. **PS-Link** helps you to install your printer's manufacturer drivers without creating a physical USB connection from your printer to your computer. For more information see the "Using The PS Software Chapter".

➤ **PS-Wizard** — This tool allows you to easily add a printer to your computer. For more information see the “Using The PS Software Chapter”.

External Features

Port Connectors

The DPR-1020's USB printer port is located on the rear panel of the device and is configurable using the web configurator.

The default IP address of the DPR-1020 is automatically acquired from a DHCP server on the network. If a DHCP server cannot be found the default IP address for the DPR-1020 will be **192.168.0.10**.

NOTE: Your 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 MFP 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.)

Rear Panel Connectors



Ethernet Port (LAN)

The Print Server's rear panel features an Ethernet port for connecting 10/100Mbps CAT 5 Ethernet cables. This port supports the NWay protocol, allowing the Print Server to automatically detect or negotiate the transmission speed of the network.

DC Power Connector

The DC power input connector is labeled DC 5V.

LED Indicators



The top of the Print Server features three LEDs:

■ **Power** 

A steady blue light confirms that the Print Server is turned ON.

■ **USB** 

A steady blue light indicates the printer is online and successfully connected to the print server. This light will also blink to indicate that data is being transferred between the print server and printer.

■ **Link/Act** 

A steady blue light confirms that the Print Server has a connection to an Ethernet network. This light will also blink when receiving or transmitting data on the network.

External Features

These three LED indicators are also used during the Print Server's Power-ON Self Test to indicate any hardware failures.

Setting up the DPR-1020

Installing the Print Server

WARNING: There may be configuration problems if the Print Server is turned on without first establishing a network connection.

Follow the steps below to avoid any complications during the hardware installation:

1. Confirm that the printer you will use to connect to the DPR-1020 is operating correctly.
2. When you have confirmed that the printer is operating correctly, switch its power OFF.
3. Confirm that your network is operating normally.
4. Using a CAT 5 Ethernet cable, connect the DPR-1020 Ethernet Port (labelled **LAN**) to the network.
5. While the printer is turned OFF, connect the USB printer cable to the printer and then to the USB port on the Print Server.
6. Switch on the printer.
7. Insert the power adapter's output plug into the DC 5V power socket on the rear panel of the Print Server.
8. Connect the other end of the power adapter into a power outlet. This will supply power to the Print Server. The blue LED on the Print Server's front panel should turn on and the Print Server's self-test will proceed.

Power ON Self-Test

Every DPR-1020 has been factory-tested to operate properly.

When the DPR-1020 is powered ON, it 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 operation.

Immediately after power-up, all three of the blue LEDs should illuminate steadily for several seconds. Then the USB LED should light OFF simultaneously. 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 simultaneous flashing of the LEDs three times, followed by a quiescent state with all three LEDs dark.

If the Self-Test routine traps any component error, then following the LED tests the Self-Test will halt and the LEDs 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
1 long 18 short	USB error

Getting Started

Below is a sample network using the DPR-1020. The DPR-1020 has a built-in web configurator that allows users to easily configure the Print Server and manage multiple print queues through TCP/IP.



WARNING: Only a USB printer may be connected to the USB port of the DPR-1020. Do not connect any other USB devices to the USB port of the DPR-1020; to do so, may damage the unit and will void the warranty for this product.

For a list of printers that are compatible with the DPR-1020, 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 DPR-1020.

Using the PS Software

This chapter will introduce you to the installation and operation of the PS Software (**PS-Link** and **PS-Wizard**) with which the MFP Server can be configured further.

Auto-Run Installation

Insert the included installation CD into your computer's CD-ROM drive to initiate the auto-run program. If auto-run does not start, click **My Computer** > [CD ROM Drive Letter].

The content of the installation CD-ROM includes:

- **Install PS Software** – click this to install the **PS Software**, which contains **PS-Link** and **PS-Wizard** that can configure more settings for the MFP Server, such as:
 - Change the IP address
 - Support the multi-functions (Print/Scan/Copy/Fax) of a MFP printer, GDI printing, and other software from any MFP/GDI printer.
 - Easily add a printer to your computer.
- **View Quick Installation Guide** – click this to preview the *Quick Installation Guide* in PDF format for step-by-step instructions of the MFP Server Installation.
- **View Manual** – click this to preview the *User Manual* in PDF format for detailed information regarding the MFP Server.
- **Install Acrobat Reader** – click this to install Acrobat Reader for the viewing and printing of PDF files found in this Installation CD-ROM.
- **Exit** – click to close the Auto-Run program.

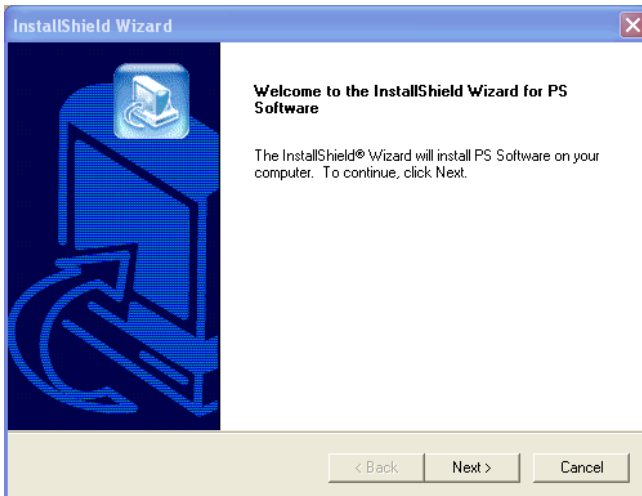
PS Software

To avoid any conflict within your network, use the **PS Software** to change your MFP Server's settings, such as the IP address.

The **PS Software** contains two utilities: **PS-Link** and **PS-Wizard**.

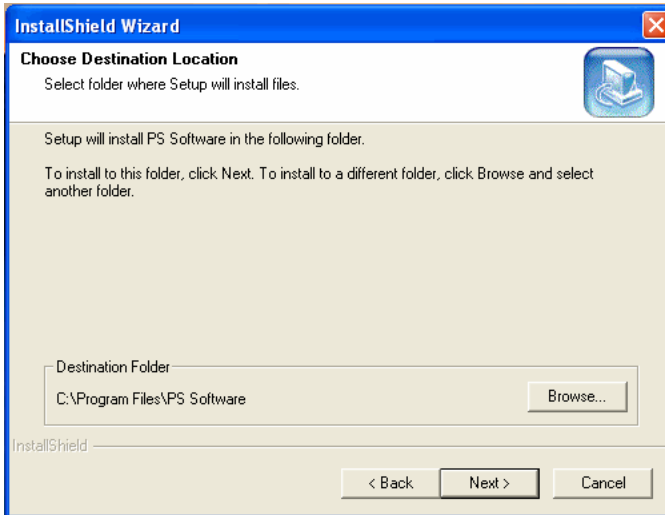
Installing PS Software

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

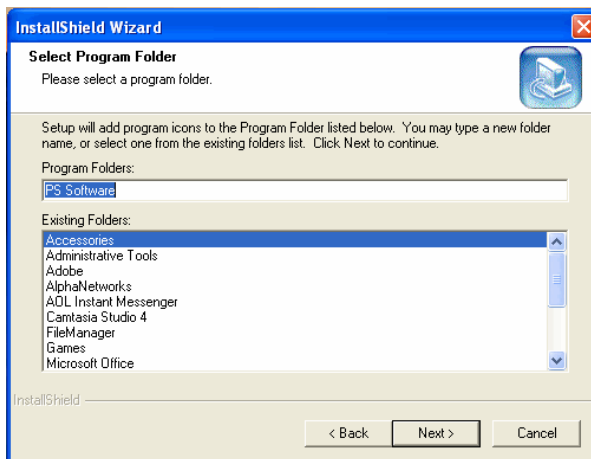


Using the PS Software

- Specify the destination location by clicking the **Browse...** button. Otherwise, click the **Next >** button to continue.

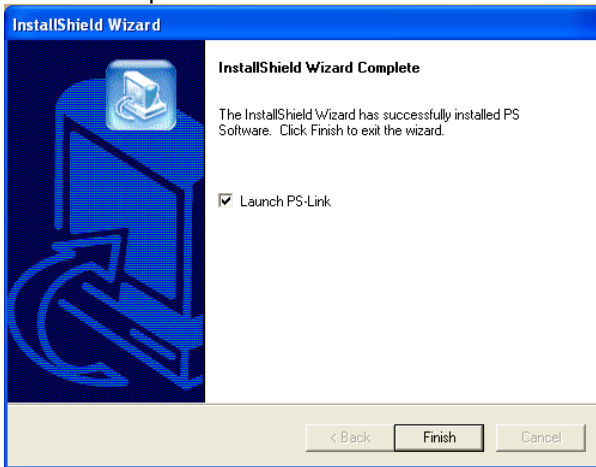


- You may enter a new folder name in the Program Folder field if you want to change the default name. Otherwise click the **Next >** button to go to the next screen.



Using the PS Software

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



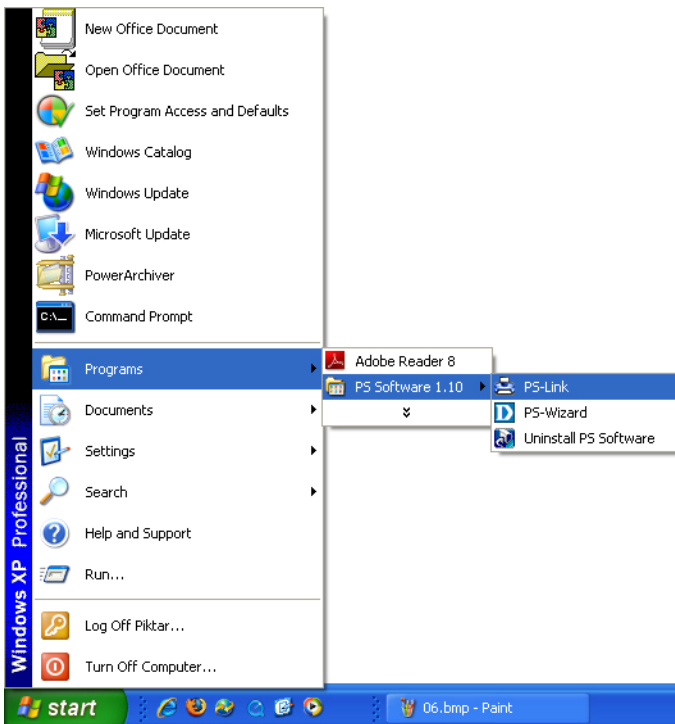
After installing the program, you can access the two utilities by clicking **Start** → **Programs** → **PS Software**.

The **PS Software** contains two utilities: **PS-Link** and **PS-Wizard**.

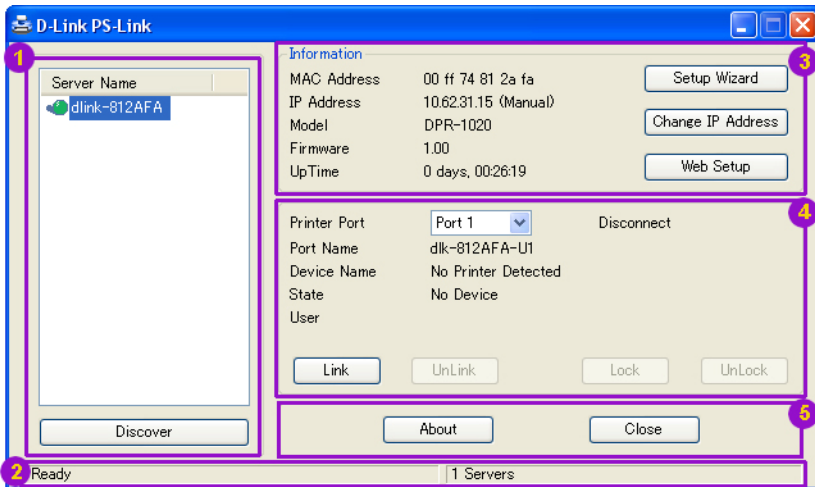
Using PS-Link

PS-Link (Windows 2000/XP/2003/Vista), is a utility that will help you use your printer manufacturer drivers with the MFP print server. Using the **Link** command you can simulate a physical USB connection between your computer and printer, thus enabling you to complete the installation of the manufacturer drivers without making a USB connection to your computer.

To start PS-Link, go to **Start** → **Programs** → **PS Software**, and click **PS-Link**.



PS-Link will then start and automatically search for MFP servers in the same network segment. If the installation has been successful, you will see that the name of your MFP server has been discovered and is listed in the **Server Name** column. If your MFP server is not listed, please check your network connectivity and click the **Discover** button again.



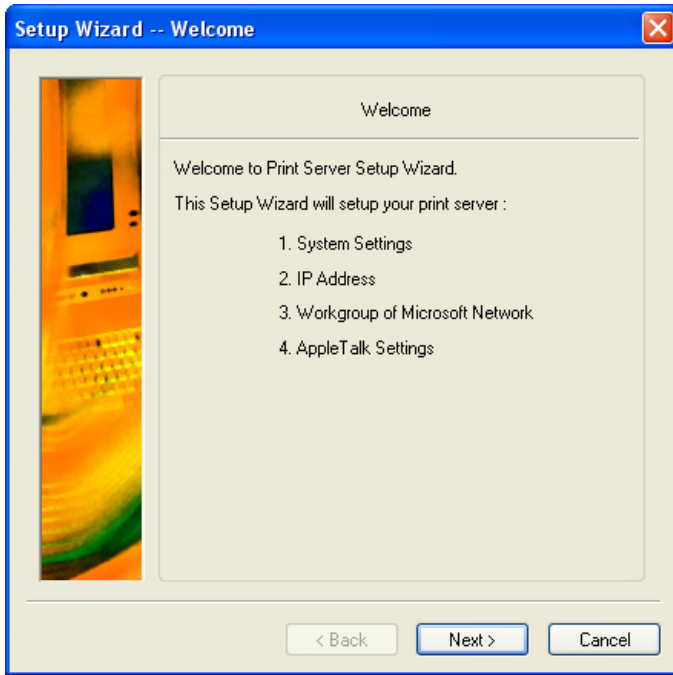
1 Server Name: This list displays the name of the MFP Servers within the network.
Discover: Click this button to search for more MFP Servers.

2 Status Bar: The status bar at the bottom of the screen displays the current system status and number of connected MFP servers.

3 Information: This field displays basic information regarding the selected MFP Server in the Device List.

There are also three buttons: **Setup Wizard**, **Change IP Address**, and **Web Setup**. Here is an explanation of each button:

[Setup Wizard] – Setup Wizard will allow you to configure the print server step-by-step. When this button is clicked, the following screen will display.

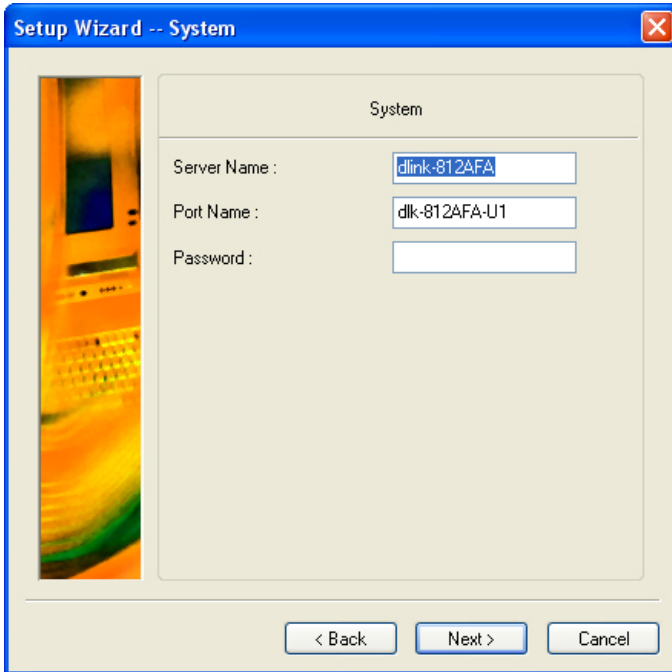


Click **Next >** to begin configuring the settings.

System Settings

Enter the Server Name, Port Name and Password for the print server.

Click **Next >** to continue to the next page and **Cancel** to exit.



Setup Wizard -- System

System

Server Name : dlink-812&FA

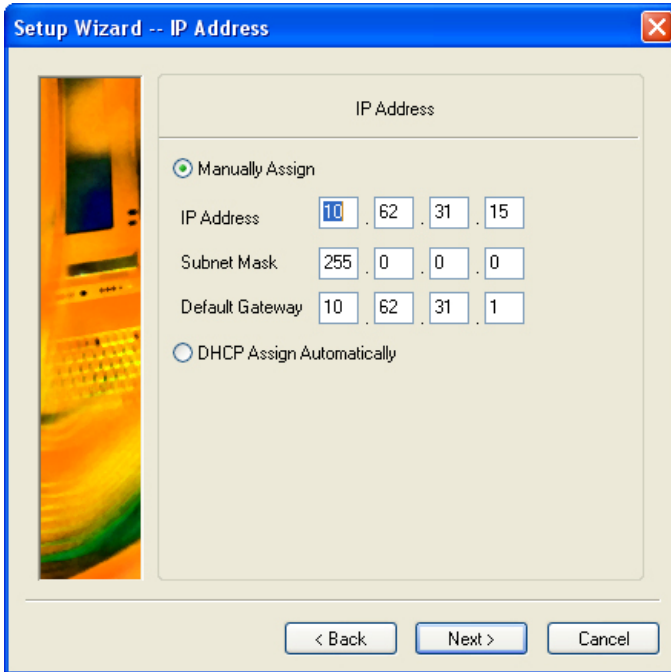
Port Name : dlk-812&FA-U1

Password :

< Back Next > Cancel

● **Changing the IP Address:**

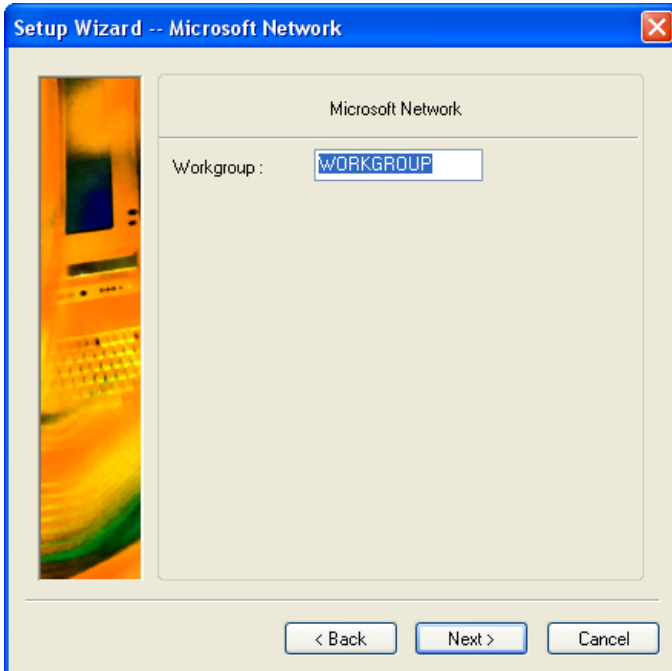
Select **Manually Assign** to enter a specific IP address for the print server or **DHCP Assign Automatically** to assign the server an IP address automatically. Click **Next >** to continue to the next page or **Cancel** to exit.



● Microsoft Network Workgroup

Type the name of the Microsoft Workgroup.

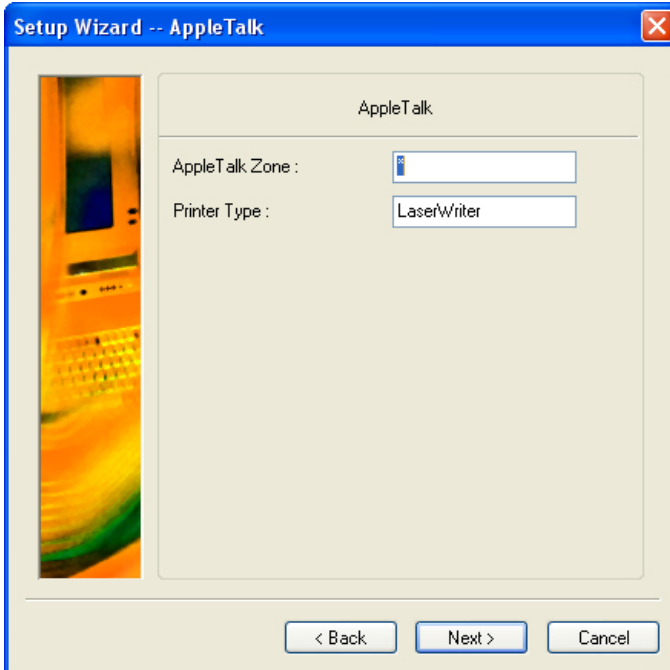
Click **Next >** to continue to the next page or **Cancel** to exit.



● AppleTalk Settings (Optional)

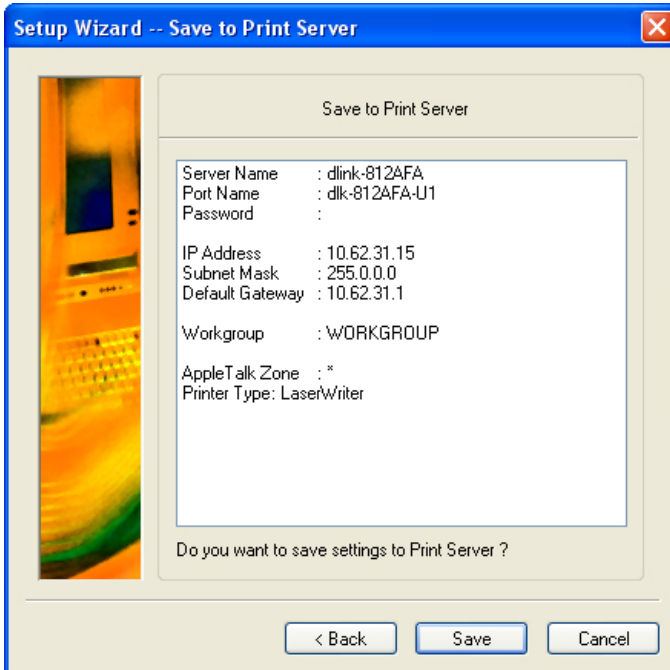
Enter the AppleTalk Zone or just type "*" if your AppleTalk network is not divided into zones. Type the Printer Type.

Click **Next >** to continue to the next page or **Cancel** to exit.

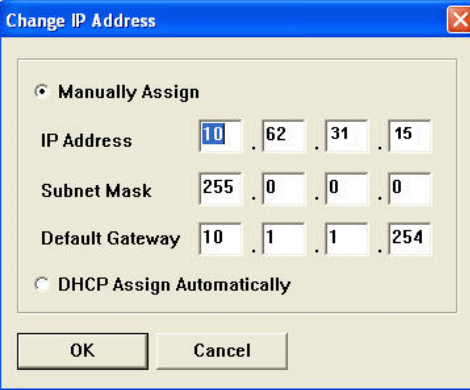


Using the PS Software

After the configuration of these screens is complete, click **Save** to store the settings that are displayed or **Cancel** to abort. You can also click **< Back** to modify these settings.



[Change IP Address] - Click this button to bring up the following screen. This screen allows you to change the IP Address of the MFP Server. Select **Manually Assign** to enter a specific IP address for the MFP server or **DHCP Assign Automatically** to assign the server an IP address automatically. Click **OK** to save your changes or **Cancel** to abort.



The image shows a dialog box titled "Change IP Address" with a close button in the top right corner. It contains two radio button options: "Manually Assign" (which is selected) and "DHCP Assign Automatically". Under "Manually Assign", there are three rows of input fields: "IP Address" with values 10, 62, 31, 15; "Subnet Mask" with values 255, 0, 0, 0; and "Default Gateway" with values 10, 1, 1, 254. At the bottom, there are "OK" and "Cancel" buttons.

Field	Value 1	Value 2	Value 3	Value 4
IP Address	10	62	31	15
Subnet Mask	255	0	0	0
Default Gateway	10	1	1	254

[Web Setup] – Click this button to launch the web configurator. You can also launch the web configurator by clicking on the name of the server in the Device List.

The screenshot shows the D-Link DPR-1020 web interface. At the top, it displays 'Product: DPR-1020' and 'Firmware Version: 1.00'. The D-Link logo is prominently featured. Below the logo is a navigation bar with tabs for 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Setup' tab is active, and within it, the 'Printer Setup' section is selected. The main content area is titled 'NETWORK PRINTER WIZARD' and contains the following text: '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.' Below this text is a note: '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.' A 'Next' button is located at the bottom of the wizard area. On the left side, there is a printer status indicator showing a printer icon with a red 'X' and the text 'Printer Off line', along with a 'Reboot' button. On the right side, there is a 'Helpful Hints...' section titled 'Add A Network Printer Wizard:' which provides instructions: 'Clicking **Next** to download and run a windows wizard program which will install a network printer onto your computer.'

4 Printer Port: This field displays basic information and the current status of the connected printer. It also allows you to use the four control buttons (Link, UnLink, Lock, UnLock).

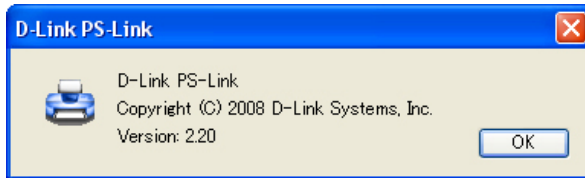
[Link] – The function of this button is to simulate the physical connection between the printer and computer via a USB cable. This means you can set up a link by simply clicking this button without physically attaching the printer's USB cable to your computer. This is because the USB cable will be connected from your printer to the print server and not to your computer.

[UnLink] – This button disconnects the simulated link between the printer and the computer.

[Lock] – Clicking the **Lock** button will enable **Single User Mode**. In this mode only one user may print.

[UnLock] – Clicking the **Unlock** button will enable the **Shared Mode**.

- 5 **About:** Click this to display the PS-Link version number. Click the **OK** button to close this window.



Close: To exit PS-Link, click this button.

Installing and Using a MFP/GDI Printer

This section will tell you how to use a MFP/GDI printer through the PS-Link utility after the printer manufacturer's driver has already been installed.

For PCs with the MFP/GDI printer driver installed:

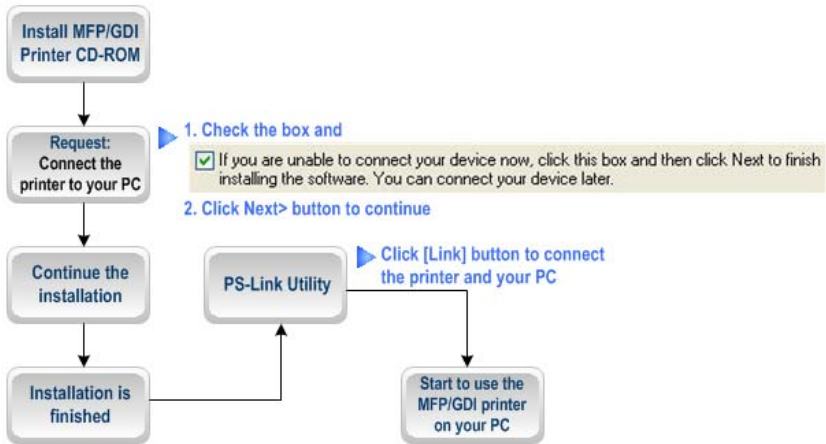
If your computer already has the MFP/ GDI printer driver installed, you can just click the **[Link]** button in **PS-Link** to complete the connection between the printer and your computer.

For PCs without the MFP/GDI printer driver installed:

If your computer does not have the MFP/GDI printer driver installed, you may use the following procedure:

1. Insert the manufacturer's CD-ROM into your computer's CD-ROM drive to initiate the auto-run program.
2. Follow the instructions of the manufacturer's CD-ROM to install the MFP driver and other software until you are requested to attach the printer's USB cable to your computer.
3. The installation steps will be different depending on the printer and manufacturer brand. Below you will find diagrams for several printers from different manufacturers:

For HP:

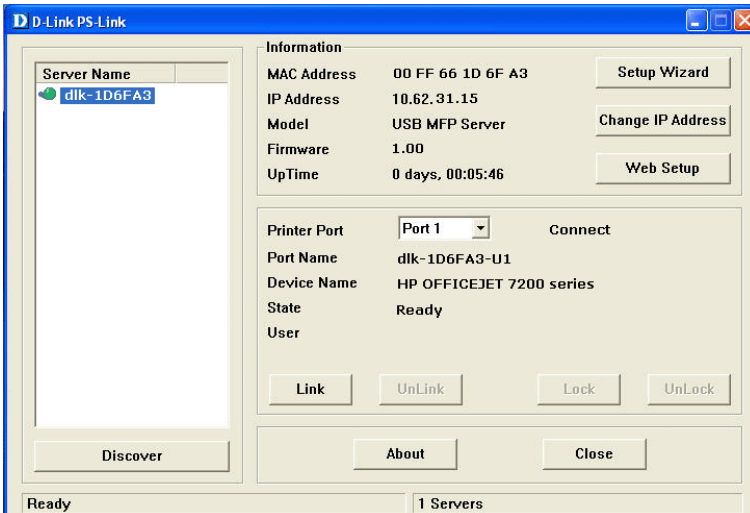


1. When the installation program asks you to connect the USB cable you are allowed to connect it later by checking a box. Click the **Next >** button to continue the rest of the installation.

Using the PS Software



2. When the installation of all drivers has been completed, you may use the **PS-Link** utility to complete the physical connection between the MFP/GDI printer and your computer by clicking the **[Link]** button.



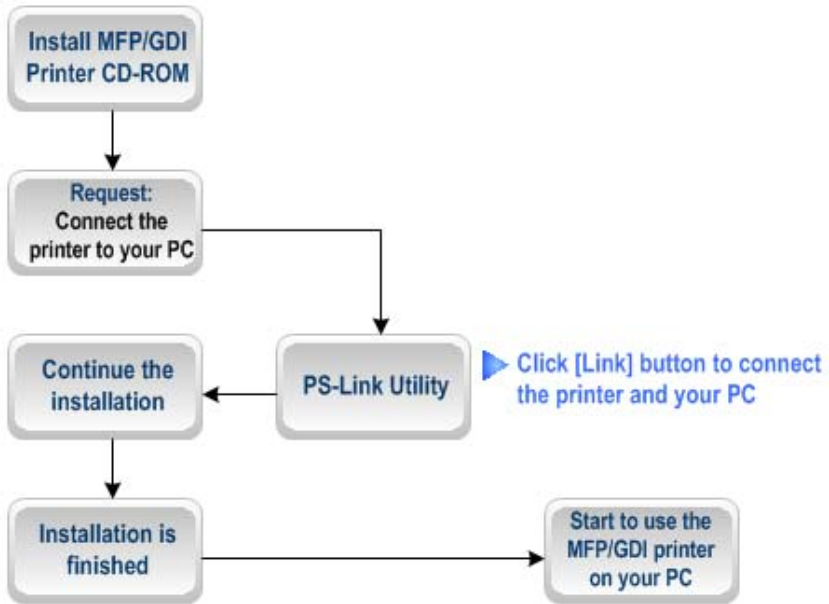
Using the PS Software

If the connection has been made successfully, the following message will display.
Press **OK** to exit.



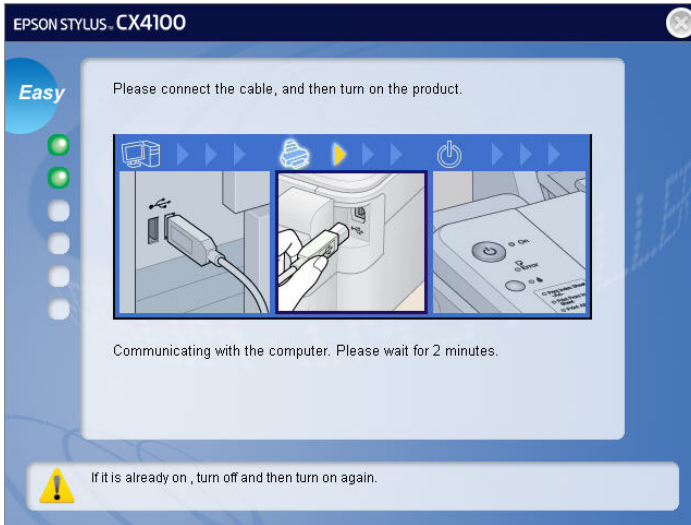
3. Now the MFP/GDI printer is ready to use. You may start to use the MFP/GDI printer through your computer.

For EPSON:

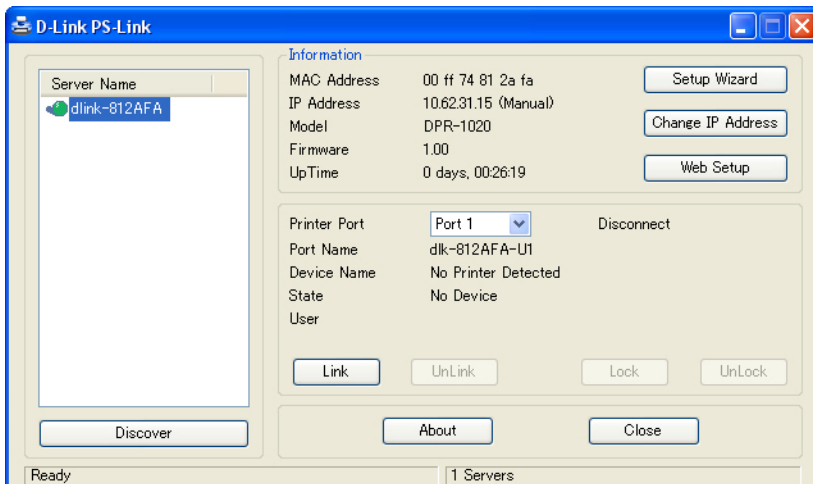


Using the PS Software

1. When the installation program asks you to connect the USB cable of the MFP/GDI printer to your computer, you are not allowed to ignore it; therefore, you need to use **PS-Link** to simulate a USB connection between your printer and computer.



2. To do this launch the **PS-Link** utility and click the **[Link]** button.



Using the PS Software

When the connection has been completed successfully, a message will display.

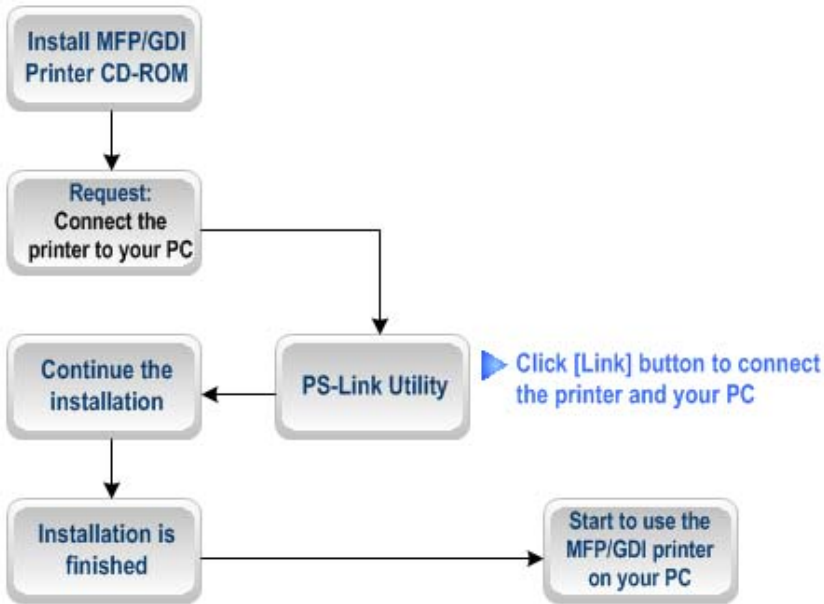
Press **OK** to exit.



3. Now you have to go back to continue the installation of the MFP/GDI printer CD-ROM on your computer in order to complete the rest of installation steps.

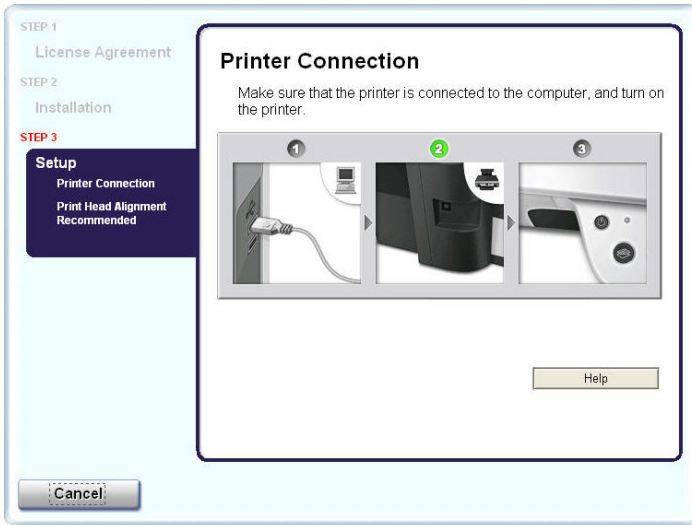
4. When the installation is complete, you may start to use the multi-functions (Print/Scan/Copy/Fax) of the MFP/GDI printer through your computer.

For Canon:

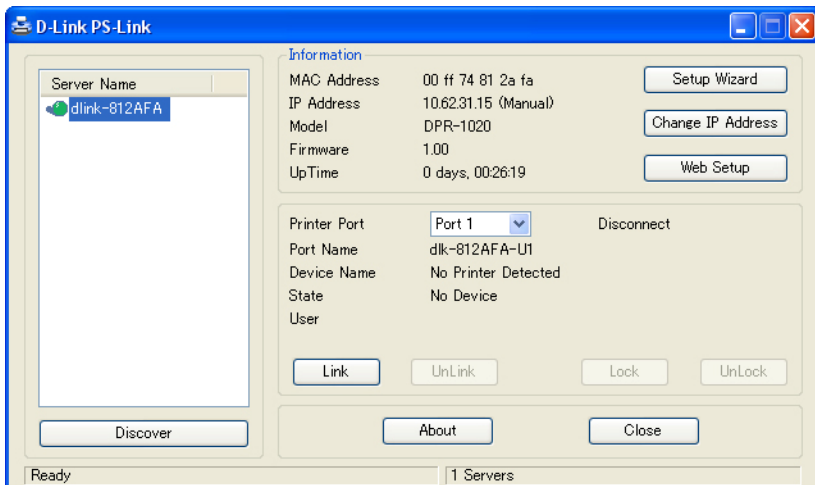


1. When the installation program asks you to connect the USB cable of the MFP/GDI printer to your computer, you are not allowed to ignore it; therefore, you need to use **PS-Link** to simulate a USB connection between your printer and computer.

Using the PS Software



2. Launch the **PS-Link** utility and click the **[Link]** button.



Using the PS Software

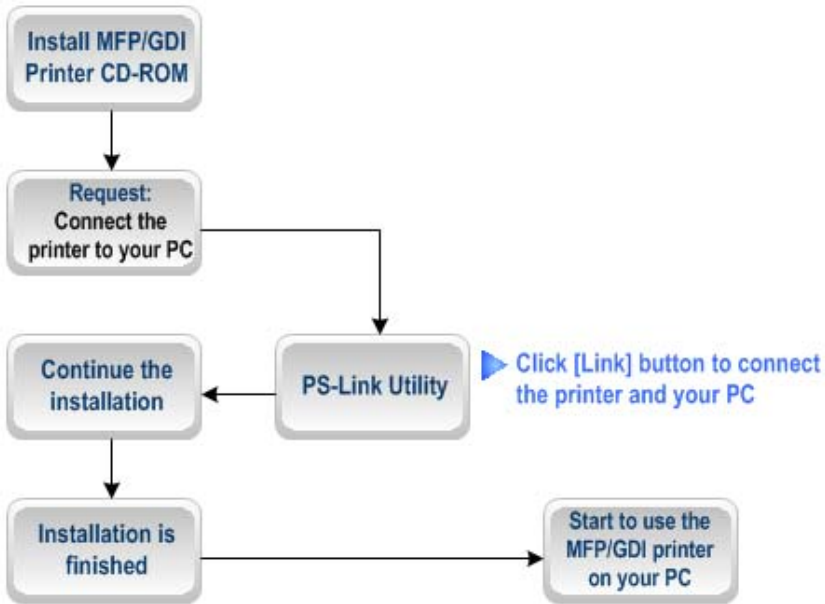
When the connection has been completed successfully, a message will display. Press **OK** to exit.



3. Now you have to go back to continue the installation of the MFP/GDI printer CD-ROM on your computer in order to complete the rest of installation steps.

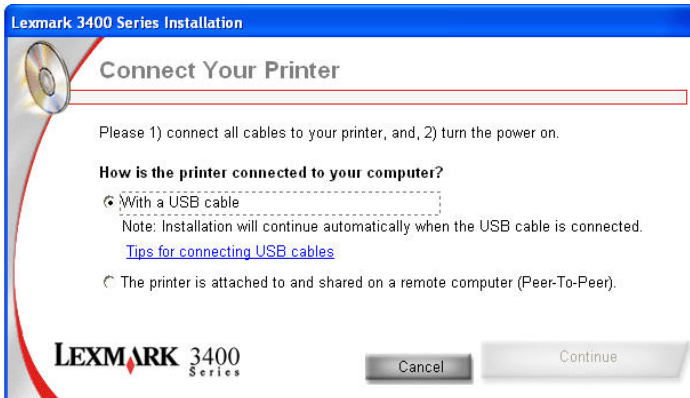
4. When the installation of the MFP/GDI printer CD is complete, you may start to use the multi-functions (Print/Scan/Copy/Fax) of the MFP/GDI printer through your computer.

For Lexmark:

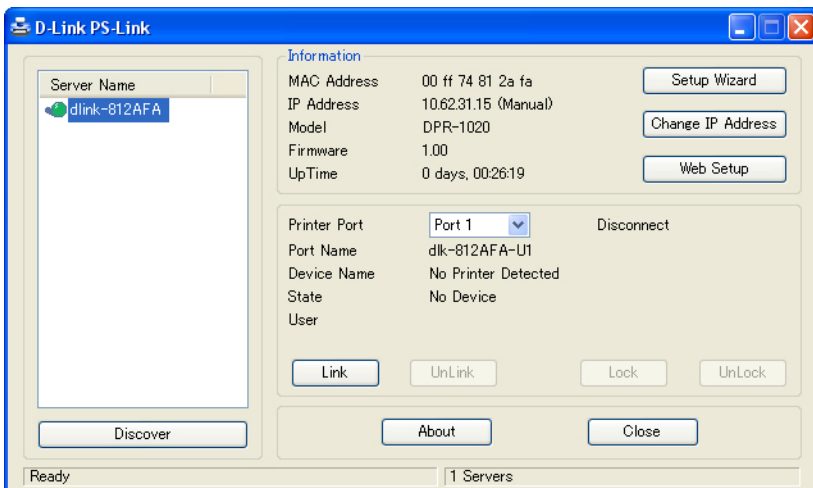


1. When the installation program asks you to connect the USB cable of the MFP/GDI printer to your computer, you are not allowed to ignore it; therefore, you need to use **PS-Link** to simulate a USB connection between your printer and computer.

Using the PS Software



2. Launch the **PS-Link** utility and click the **[Link]** button.



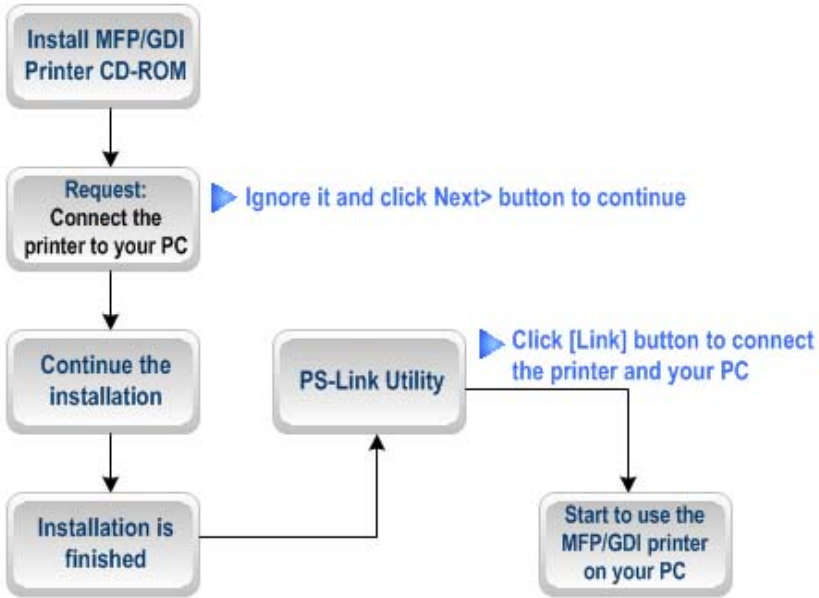
When the connection is completed successfully, a message will display. Press **OK** to exit.



3. Now you have to go back to continue the installation of the MFP/GDI printer CD on your computer in order to complete the rest of installation steps.

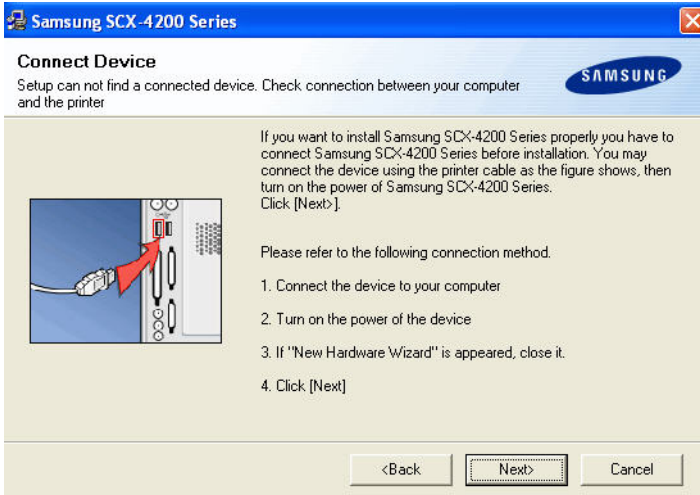
4. When the installation of the MFP/GDI printer CD is complete, you may start to use the multi-functions (Print/Scan/Copy/Fax) of the MFP/GDI printer through your computer.

For Samsung:



Using the PS Software

1. When the installation program asks you to connect the printer to your computer, just ignore it and click the **Next>** button to continue.



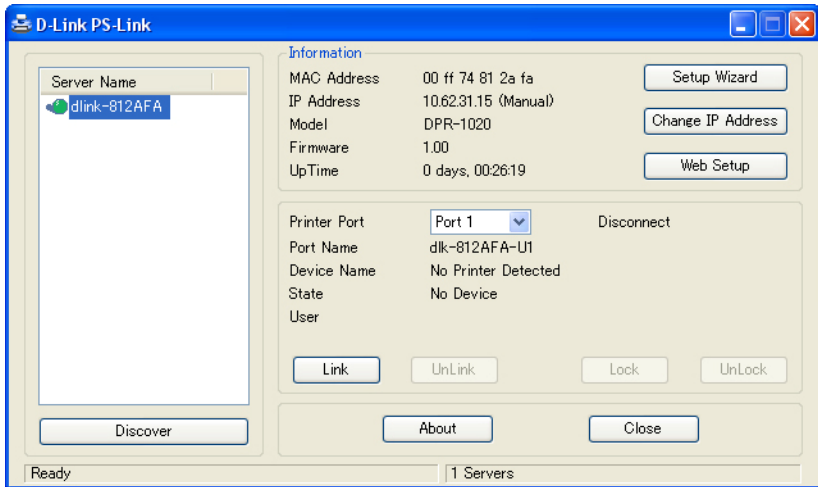
2. The program will prompt you again to connect the two devices, click **No** and continue with the rest of the installation.



Using the PS Software

3. After the installation of the MFP/GDI printer CD has finished, you may use **PS-Link** to complete the physical connection between the MFP/GDI printer and your computer.

Click the **[Link]** button of the **PS-Link** window as below.

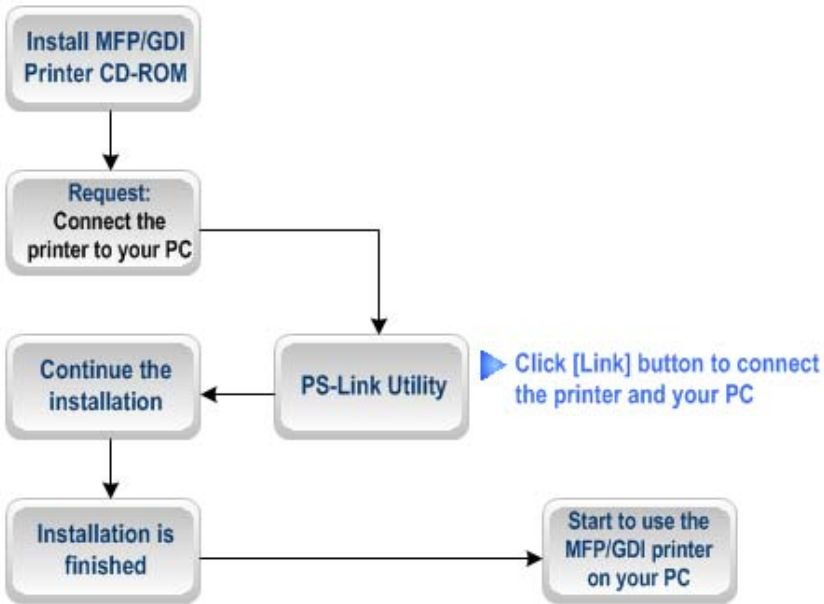


When the connection is successful, a message will display. Press **OK** to exit.



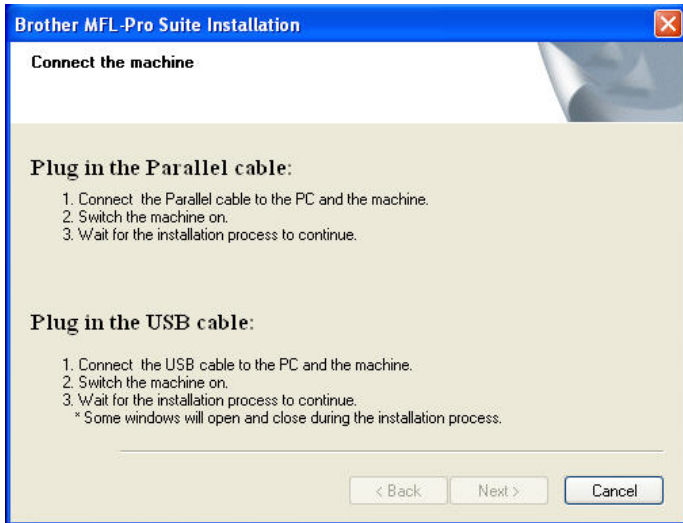
4. Now the MFP/GDI printer is ready to use through your computer.

For Brother:

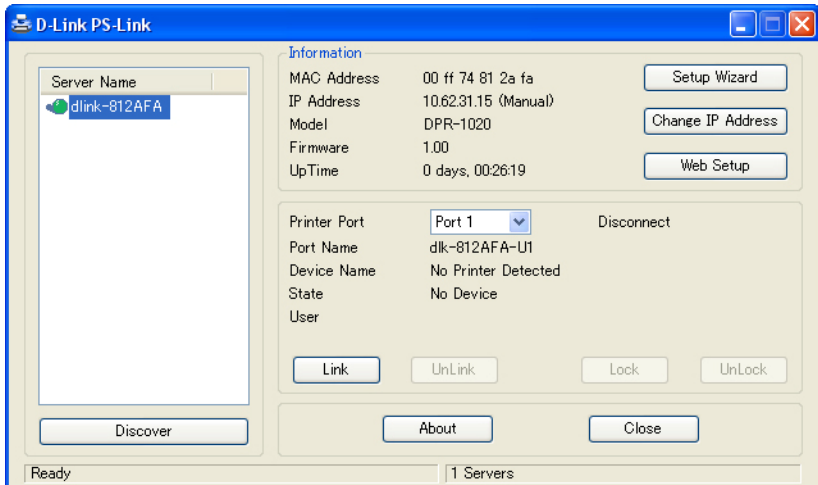


1. When the installation program asks you to connect the USB cable of the MFP/GDI printer to your computer, you are not allowed to ignore it; therefore, you need to use **PS-Link** to simulate a USB connection between your printer and computer.

Using the PS Software



2. Launch the **PS-Link** utility and click the **[Link]** button.



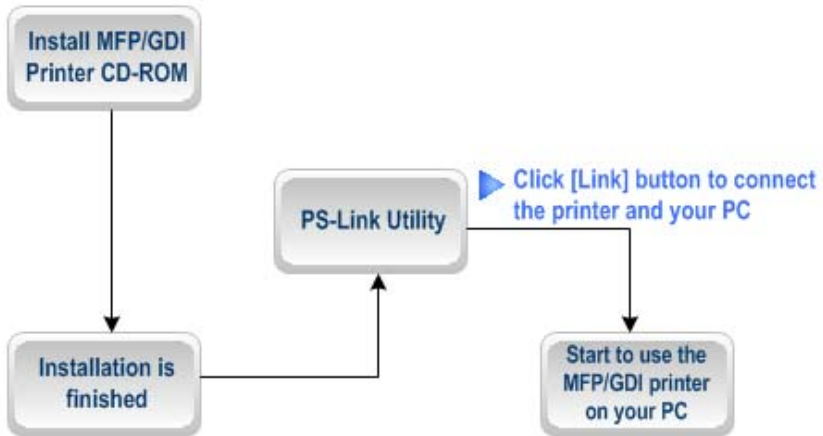
When the connection has been completed successfully, a message will display to inform you. Press **OK** to exit.



3. Now you have to go back to continue the installation of the MFP/GDI printer CD on your computer in order to complete the rest of installation steps.

4. When the installation of the MFP/GDI printer CD is complete, you may start to use the multi-functions (Print/Scan/Copy/Fax) of the MFP/GDI printer through your computer.

For Fuji Xerox:

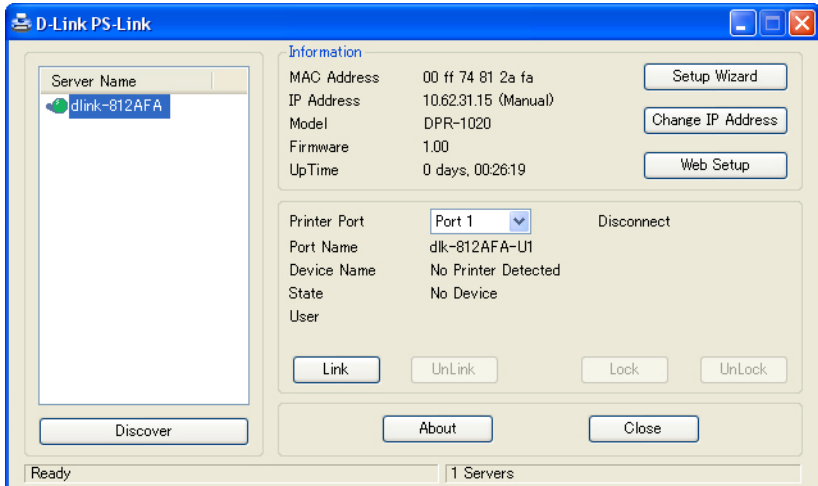


1. The installation program of the Xerox MFP/GDI printer will not request you to make a physical connection between the printer and your computer.

2. After the installation has finished, you will have to link the connection between the MFP/GDI printer and your computer in order to use the printer on your computer. To do this you need to use **PS-Link** to link the two devices.

Launch the **PS-Link** utility and click the [**Link**] button.

Using the PS Software



When the connection has been completed successfully, a message will display to inform you. Press **OK** to exit.



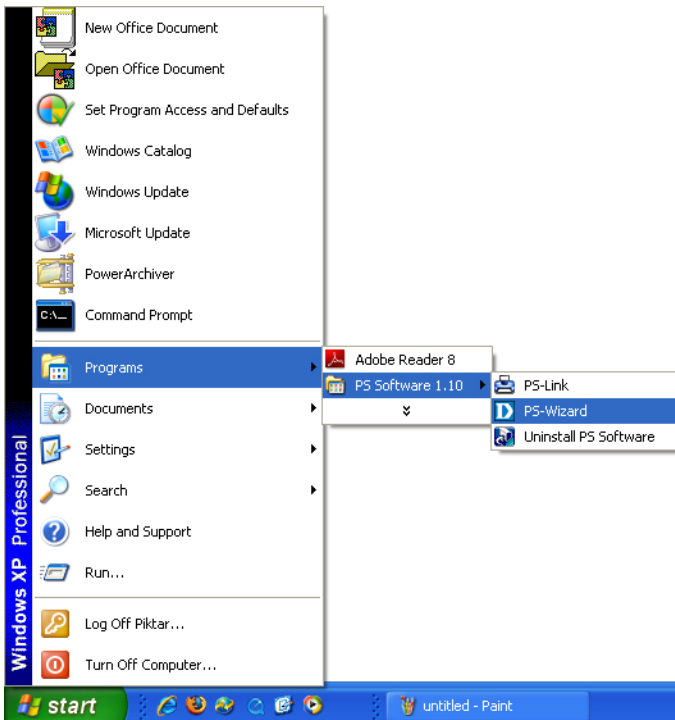
3. Now the MFP/GDI printer is ready to use through your computer.

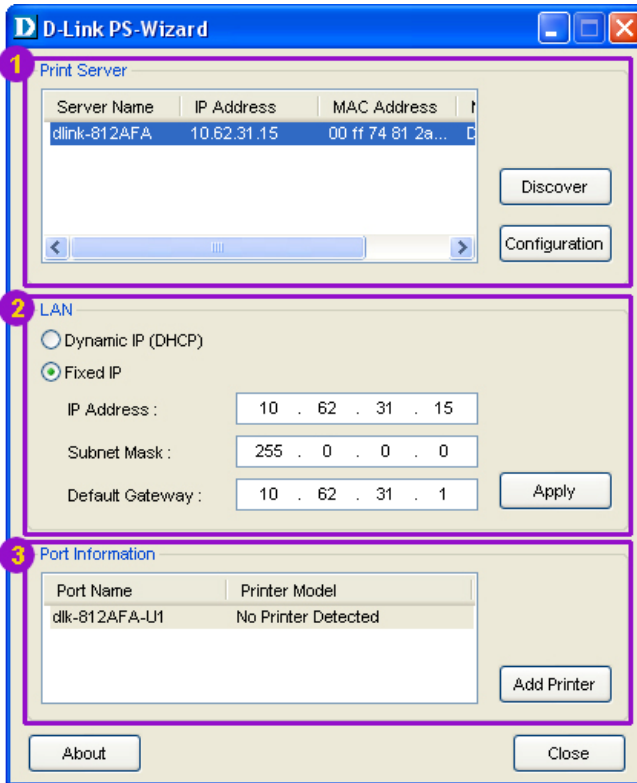
Using PS-Wizard

PS-Wizard (Windows 2000/XP/2003/Vista) is a simple and useful tool for you to easily add a printer onto your computer without any complex configuration.

The **PS-Wizard** also allows you to change the IP address settings for the MFP Server – including such things as IP address, Subnet Mask address and default Gateway address.

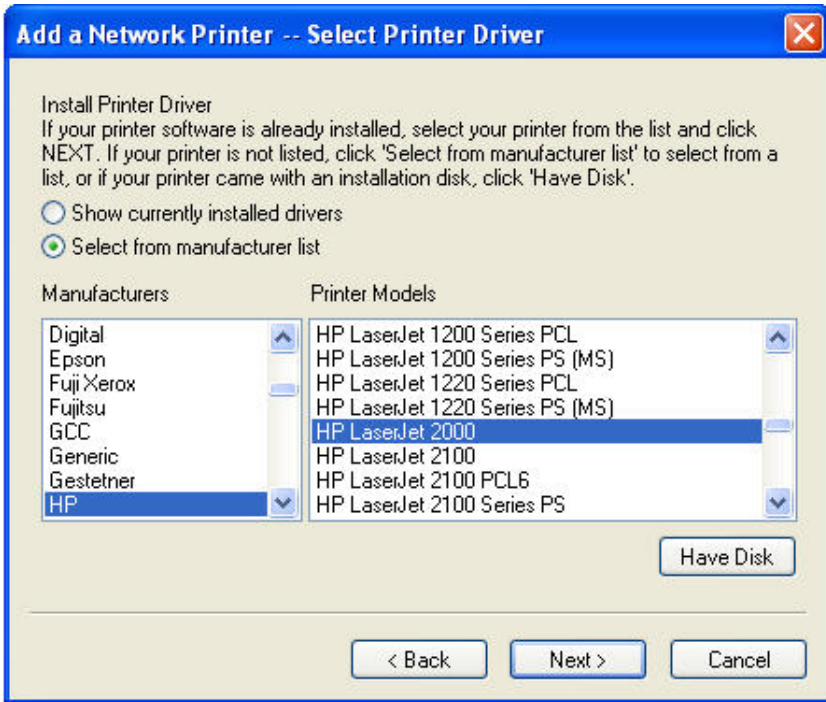
Go to **Start** → **Programs** → **PS Software**, and select **PS-Wizard**.





- 1 Print Server:** This field allows you to manually discover any connected MFP Servers and to further configure a selected MFP Server.
- 2 LAN:** Here you can select to use a Dynamic IP (DHCP) or a static IP address for the selected MFP server. Click **Apply** button to implement the new settings.
- 3 Port Information:** This is the main function of the **PS-Wizard** and enables you to easily add a printer onto your computer.

To add a printer, click , then the following screen will display.



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

1. Show currently installed drivers:

Select this option to see if your printer software is already installed. If not, you may try the next method. After selecting a printer driver, click the **Next>** button to continue.

2. Select from manufacturer list:

Select this option, "Select from manufacturer list", to manually select your printer by brand and model. Click the **Next >** button to continue when you have selected the desired driver.

3. Have Disk:

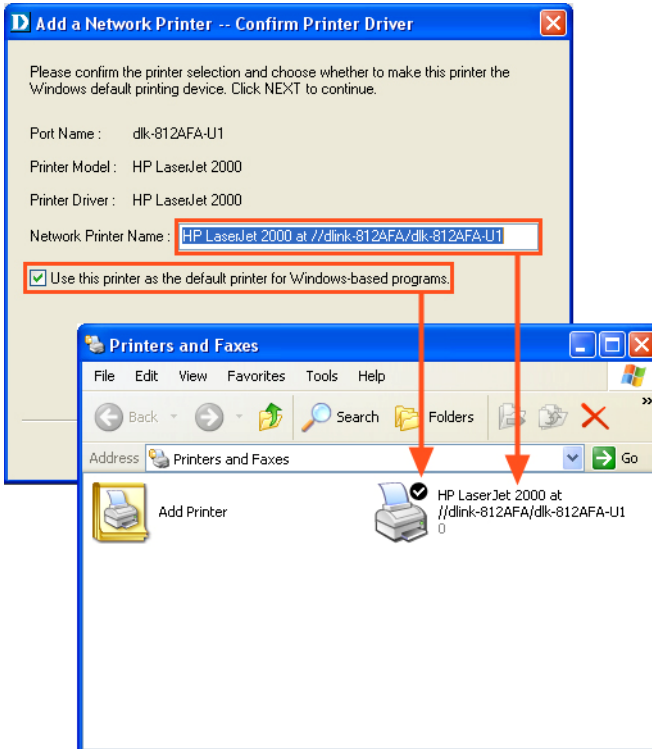
Click the **Have Disk** button to bring up the following window. Insert the manufacturer's installation CD to install the printer driver. After the correct driver is selected, click the **OK** button to continue.



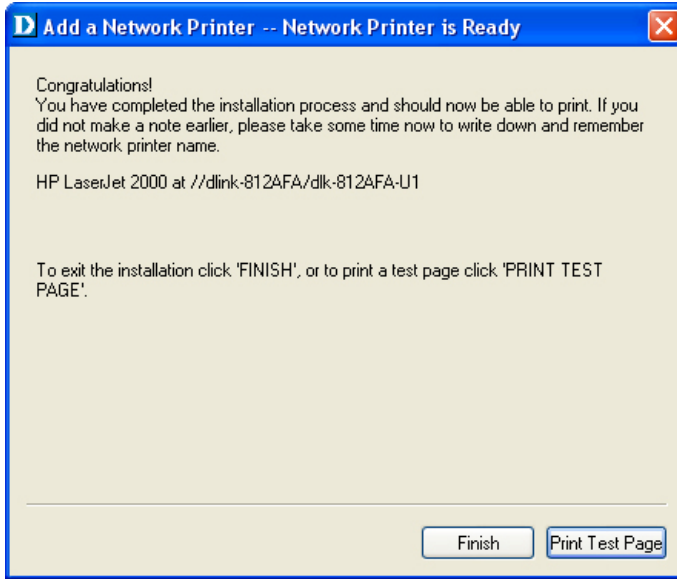
After the selection of the printer driver, the wizard will ask you to confirm your selection again in the following window. You're allowed to edit the name of the printer in the "**Network Printer Name**" field and enable this printer as the default printer by checking the box "**Use this printer as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

Using the PS Software

After you have completed the verification and configuration, click the **Next >** button to continue. The printer (in this case the HP Laser Jet 2000) will be automatically created in the Windows' **Printers and Faxes** screen.



When the following screen displays, you can perform a print test by clicking the **Print Test Page** button. If everything is operating normally, then click the **Finish** button to exit.



Using the Web Configurator

Home

To begin managing the DPR-1020, launch your browser and go to the following URL address:

dlink-xxxxxx

xxxxxx being the last six digits of the DPR-1020's MAC address. The MAC address can be found on the bottom of the DPR-1020.

You can also access the web configurator by typing the IP address of the device.

The default IP address is **192.168.0.10** but this may have changed if you have a DHCP server on your network.

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



Using the Web Configurator

This is the main screen of the MFP Server's web configurator. In addition to product information, there are five links on the top of the main screen: **Setup**, **Advanced**, **Maintenance**, **Status**, and **Help**. Clicking a link from the bar will display its submenu, selecting an option from the submenu will display the content in the center column.

The screenshot displays the web configurator interface for the D-Link DPR-1020. At the top, it shows 'Product: DPR-1020' and 'Firmware Version: 1.00'. The D-Link logo is prominently displayed. Below the logo is a navigation bar with tabs for 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Setup' tab is active, showing a submenu with 'Print Server Setup', 'LAN Setup', and 'Printer Setup'. The 'Printer Setup' option is selected, leading to the 'NETWORK PRINTER WIZARD' screen. This screen contains instructions for installing printer drivers, a 'Next' button, and a note about clicking 'RUN' when prompted. A 'Reboot' button is also visible in the left sidebar. On the right, there are 'Helpful Hints..' for adding a network printer.

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance Status Help

Print Server Setup
LAN Setup
Printer Setup

Printer Off line
Reboot

NETWORK PRINTER WIZARD

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.

Next

Helpful Hints..
Add A Network Printer Wizard:
Clicking **Next** to download and run a windows wizard program which will install a network printer onto your computer.

PRINT SERVER

SETUP > Print Server Setup

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

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance Status Help

Print Server Setup
LAN Setup
Printer Setup

Printer
Off line
Reboot

PRINT SERVER SETUP

The Print Server Name and Port Name can be changed below. D-Link does not recommend changing these settings unless asked to do so by your network administrator.

PRINT SERVER NAME

Server Name :

Location : (optional)

PORT SETTINGS

USB : Port Name :

Description : (optional)

PJL Printer :

Apply Settings Cancel

PRINT SERVER

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 **Port Name** for the print server, and the description for the Printer port. It also allows you to select the P.J.L Printer setting (Yes or No).

Print Server Name

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

Port Settings

In this section you can assign the Port Name for the print server and the description for the Printer port. It also allows you to select the PJP Printer setting (**Yes** or **No**).

NOTE: PJP (Printer Job Language) has certain job requirements that must be met to work correctly. For more information, please refer to your printer's manual.

Click the **Apply Settings** button to save any changes or click **Cancel** to exit.

SETUP > LAN Setup

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

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance Status Help

Print Server Setup
LAN Setup
Printer Setup

Printer Off line
Reboot

LAN SETUP

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

TCP/IP

IP Address : Automatically Assign
 Manually Assign

IP Address :
Subnet Mask :
Default Gateway :

Apply Settings Cancel

Helpful Hints...

TCP/IP:
This section allows you to configure the TCP/IP setting: **IP Address**.

PRINT SERVER

TCP/IP

These fields allow you to assign an IP address automatically or manually. When clicking **Manually Assign**, you should enter the following information in the boxes:

IP Address, **Subnet Mask**, and **Default Gateway**.

If you have made changes click **Apply Settings** to save them or click **Cancel** to exit.

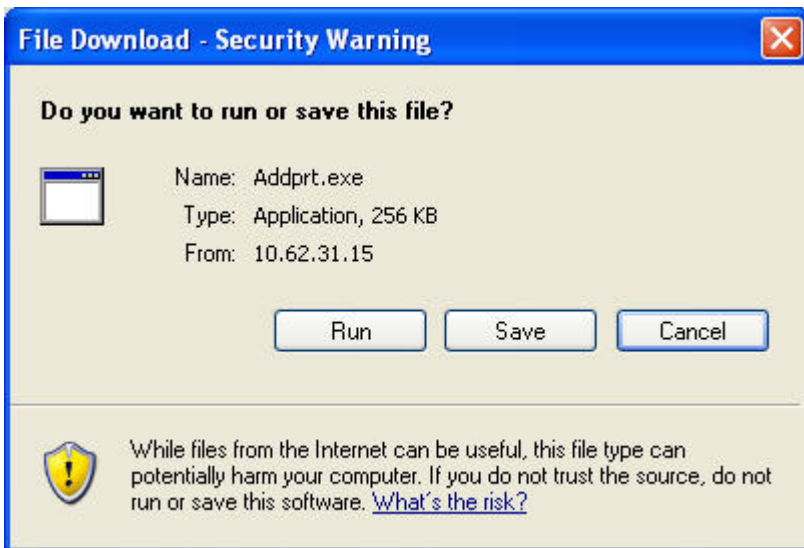
SETUP > Printer Setup

The Printer Setup screen allows you to install the printer drivers for the printer currently connected to your print server.

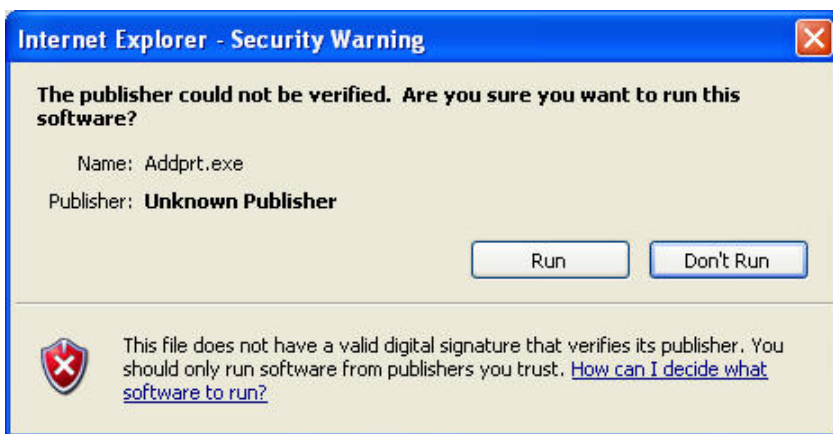
The screenshot shows the D-Link Web Configurator interface for a DPR-1020 device. At the top, it displays 'Product: DPR-1020' and 'Firmware Version: 1.00'. The main header is orange with the 'D-Link' logo. Below this is a navigation bar with tabs for 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Setup' tab is active, and a sub-menu on the left shows 'Printer Setup' selected. The main content area is titled 'NETWORK PRINTER WIZARD' and contains the following text: '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.' Below this is a red note: '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.' A 'Next' button is visible at the bottom of the wizard box. On the left sidebar, there is a printer icon with a red 'X' and the text 'Printer Off line', and a 'Reboot' button. On the right sidebar, there is a 'Helpful Hints...' section with the text: 'Add A Network Printer Wizard: Clicking **Next** to download and run a windows wizard program which will install a network printer onto your computer.'

Network Printer Wizard

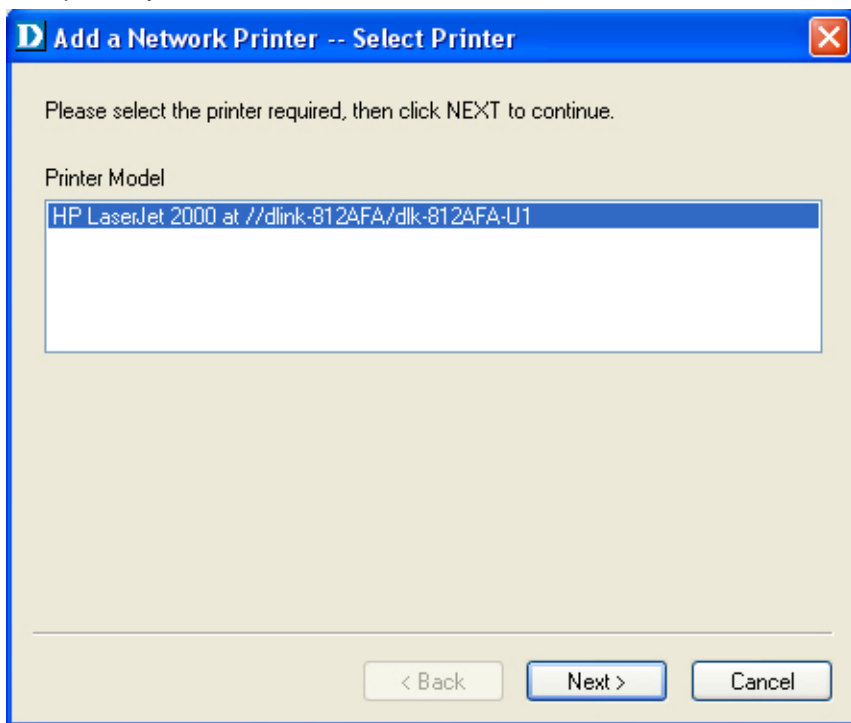
Click **Next** to download a windows wizard program which will install a network printer onto your computer.



Click **RUN** to download and run the wizard. If a security warning appears click **RUN** again.



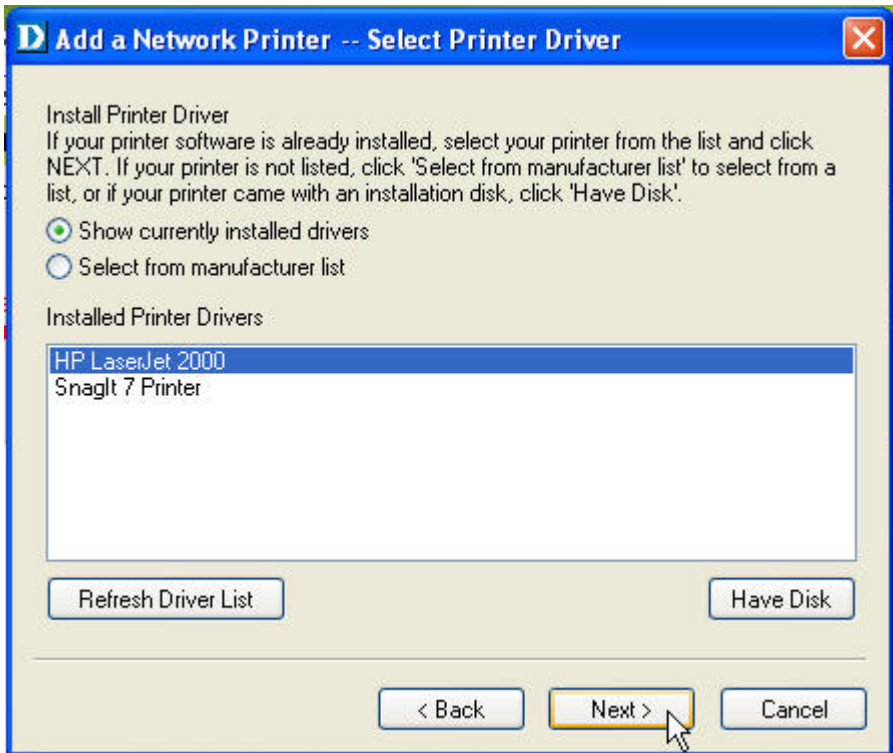
Select the printer you wish to add then click **Next >** to continue.



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

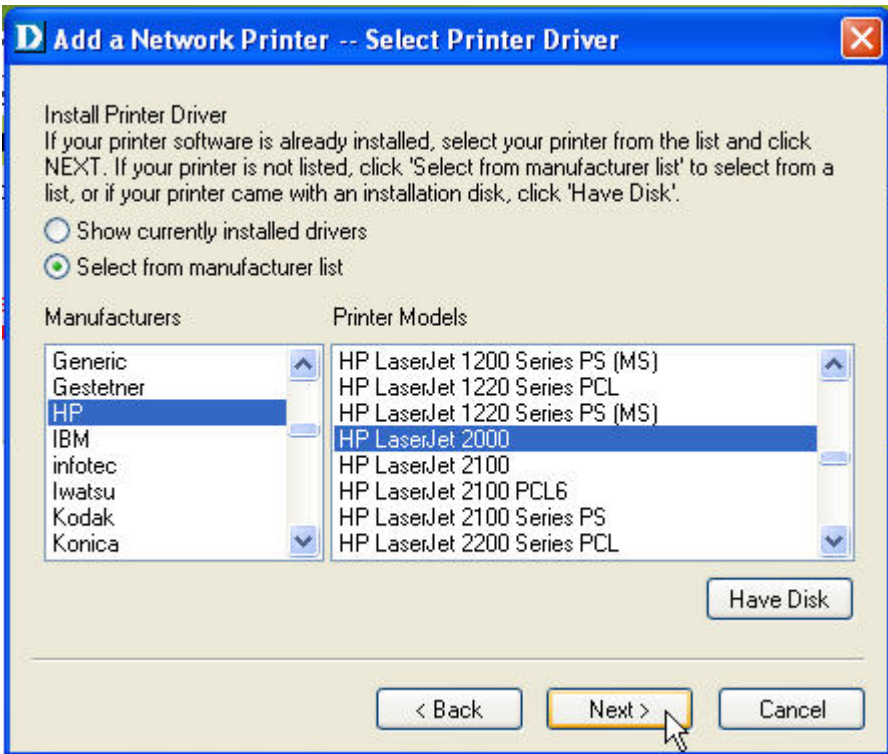
1. Show currently installed drivers:

Select this option to see if your printer software is already installed. If not, you may try the next method. After selecting a printer driver, click the **Next>** button to continue.



2. Select from manufacturer list:

Select this option, “Select from manufacturer list”, to manually select your printer by brand and model. Click the **Next >** button to continue when you have selected the desired driver.



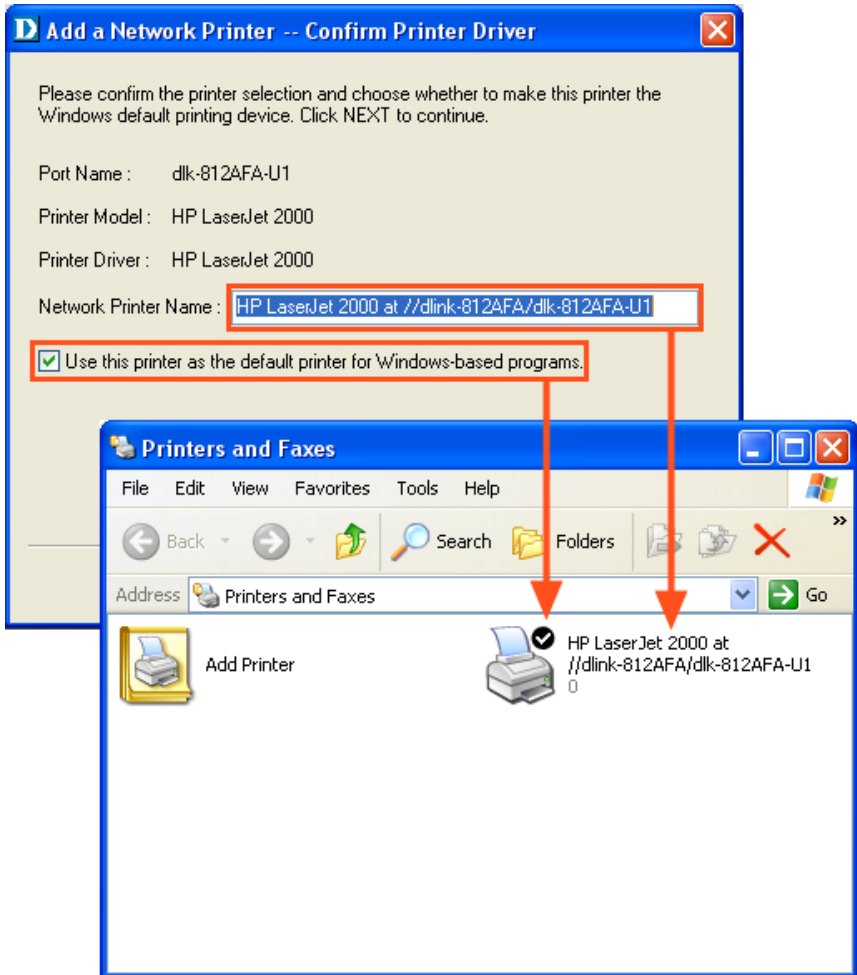
3. Have Disk:

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

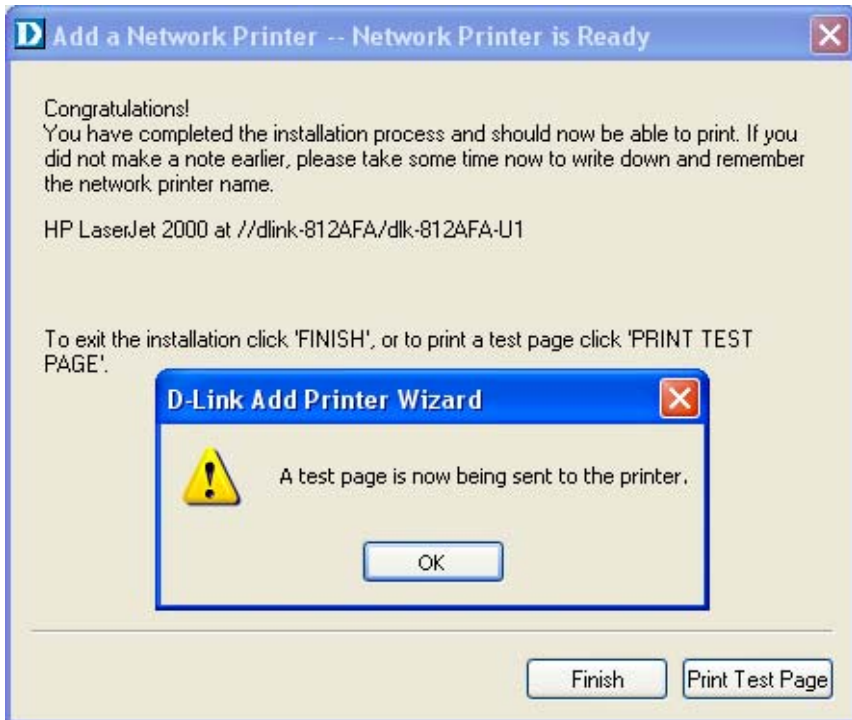


After the selection of the printer driver, the wizard will ask you to confirm your selection again in the following window. You're allowed to edit the name of the printer in the "**Network Printer Name**" field and enable this printer as the default printer by checking the box "**Use this printer as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

After you have completed the verification and configuration, click the **Next >** button to continue. The printer (in this case the HP Laser Jet 2000) will be automatically created in the Windows' **Printers and Faxes** screen.




When the following screen displays, you can perform a print test by clicking the **Print Test Page** button. If everything is operating normally, click the **OK** button then click the **Finish** button to exit.



ADVANCED > Advanced LAN

The Advanced LAN screen allows you to change more advanced network settings for the MFP server. It's recommended not to change these settings unless instructed to do so by your network administrator. The Advanced LAN screen contains three sections: TCP/IP, Microsoft Network, and AppleTalk.

Product: DPR-1020		Firmware Version: 1.00			
D-Link					
DPR-1020	Setup	Advanced	Maintenance	Status	Help
Advanced LAN	NETWORK SETTING Please do not change any of the following settings unless instructed to do so by your network administrator.				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. UPnP 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.
User Access					
E-Mail Notification					
SNMP					
 Printer On line <input type="button" value="Reboot"/>	TCP/IP DNS Server Address : 1. <input type="text" value="0.0.0.0"/> 2. <input type="text" value="0.0.0.0"/> UPnP : <input checked="" type="radio"/> Enable <input type="radio"/> Disable Mac Bonjour/Rendezvous : <input checked="" type="radio"/> Enable <input type="radio"/> Disable Second HTTP Port : <input type="radio"/> Enable <input checked="" type="radio"/> Disable Port Number : <input type="text" value="0"/> (For Remote Web Configuration and IPP Printing)				
	MICROSOFT NETWORK Workgroup : <input type="text" value="WORKGROUP"/>				
	APPLETALK AppleTalk Zone : <input type="text" value="*"/> USB : Chooser Name : dlk-812AFA-U1 Printer Type : <input type="text" value="LaserWriter"/> PostScript Level : <input type="text" value="Level 2"/> Font Group : <input type="text" value="Standard 35"/>				
	<input type="button" value="Apply Settings"/> <input type="button" value="Cancel"/>				
PRINT SERVER					

TCP/IP

This section contains four configuration options: **DNS Server Address**, **UPnP**, **Mac Bonjour/Rendezvous**, and **Second HTTP Port**.

- **UPnP**: This option allows you to enable or disable UPnP.
- **Mac Bonjour/Rendezvous**: This option allows you to enable or disable Mac Bonjour/Rendezvous.
- **Second HTTP Port**: This option allows you to enable or disable a 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.

AppleTalk

AppleTalk Zone: Enter the AppleTalk Zone name into this field .

Chooser Name: This field displays the print server's port name.

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

PostScript Level: Select the PostScript Level from the drop-down list box (Level 1 or Level 2).

Font Group: Select the Font Group from the drop-down list box.

Once you have changed the settings in each option, click **Apply Settings** to store the settings, or **Cancel** to exit without saving.

ADVANCED > User Access

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

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup **Advanced** Maintenance Status Help

Advanced LAN
User Access
E-Mail Notification
SNMP
Printer Off line
Reboot

USER ACCESS
This section allows you to build and maintain an authorised list of users that are allowed access to the print server.
Enable Authorised User List : Yes No
Apply Settings Cancel

AUTHORIZED USERS
Add User : PC Description : (optional)
MAC Address : (Example : 00 80 C8 A1 B2 C3)
Add

	PC Description	MAC Address	Delete
1		00 80 C8 A1 B2 C3	<input type="checkbox"/>
2		00 C3 80 B2 C3 A1	<input checked="" type="checkbox"/>

Delete

PRINT SERVER

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(s) 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.

User Access

By enabling the **Enable Authorised User List** option (**Yes**), the users in the User List below will be permitted to access the print server. Any user who is not added to this list will not be allowed to access the print server. Once you have changed the settings, click the **Apply Settings** button to store the settings or click **Cancel** to exit.

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 currently defined users and their related information.

ADVANCED > E-Mail Notification

The E-Mail Notification screen allows you to assign an E-mail address to the MFP Server so that you will receive mail when the status of the printer changes. This screen also allows you to print mail sent to the print server e-mail address.

Product: DPR-1020		Firmware Version: 1.00			
D-Link					
DPR-1020	Setup	Advanced	Maintenance	Status	Help
Advanced LAN	E-MAIL				Helpful Hints..
User Access	This menu allows you to choose where to send an email when the printer status changes, whether you want to print a hard copy of this email, and also the email account settings which the print server will use to send the email.				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 box.
E-Mail Notification	ENABLE E-MAIL NOTIFICATION				E-mail Account Details: You can assign an E-mail address to the print server, so that you can send an alert message when the printer status changes through SMTP server.
SNMP	<p>Enable e-mail notification : <input type="radio"/> Yes <input checked="" type="radio"/> NO</p> <p>Destination e-mail Address : <input type="text"/></p> <p>(Use ';' to separate multiple e-mail address)</p> <p><input type="button" value="Apply Settings"/> <input type="button" value="Cancel"/></p> <p>E-mail test will send an e-mail to Destination address. Do you want to test an e-mail account? <input type="button" value="Test"/></p>				E-mail Printing: E-mail Printing (ASCII Text Only): Select Enable to enable the E-mail printing function.
Printer Offline	E-MAIL ACCOUNT DETAILS				
Reboot	<p>Print Server E-mail Address : <input type="text"/></p> <p>Incoming E-mail (POP3) Server Address : <input type="text"/></p> <p>Outgoing E-mail (SMTP) Server Address : <input type="text"/></p> <p>E-mail Account (POP3) Name : <input type="text"/></p> <p>E-mail Account (POP3) Password : <input type="text"/></p> <p><input type="button" value="Apply Settings"/> <input type="button" value="Cancel"/></p>				
	E-MAIL PRINTING				
	<p>E-mail Printing (ASCII Text Only) : <input type="radio"/> Enable <input checked="" type="radio"/> Disable</p> <p>Check E-mail Interval : <input type="text" value="15"/> (minutes)</p> <p><input type="button" value="Apply Settings"/> <input type="button" value="Cancel"/></p>				
PRINT SERVER					

Enable E-mail Notification

You can set the print server to send an alert message to your email address when the printer status changes. To enable this function select **Yes** next to **Enable e-mail notification**. In the field below input the **Destination e-mail Address**.

E-mail Account Details

You can assign an E-mail address to the print server so that the mail of the account will be printed out directly through the printer (ASCII text only). To enable this feature, first enter the E-mail address in the **Print Server E-mail Address** field.

Then enter the Incoming POP3 server address in the **Incoming E-mail (POP3) Server Address** field. Next enter the SMTP server address in the **Outgoing E-mail (SMTP) Server Address** field.

If your mail server needs to verify the user, enter the e-mail account user name and password in the **Account (POP3) Name** and **E-mail Account (POP3) Password** fields.

E-mail Printing

This section is for you to configure E-Mail printing::

E-mail Printing (ASCII Text Only): Allows you to enable or disable E-mail printing.

Check E-mail Interval: Allows you to set up a time interval in minutes to check/receive E-mail periodically.

After completing the configuration, click the **Apply Settings** button to save the new configuration, or click **Cancel** to exit without saving.

ADVANCED > SNMP

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

SNMP Management

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

The screenshot displays the web configurator interface for a D-Link DPR-1020 device. At the top, it shows 'Product: DPR-1020' and 'Firmware Version: 1.00'. The main navigation bar includes 'DPR-1020', 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Advanced' tab is selected, and the 'SNMP' option is highlighted in the left sidebar. The main content area is titled 'SNMP SETTING' and contains the text: 'This menu allows you to set the SNMP access property.' Below this is the 'SNMP MANAGEMENT' section with three community settings:

- Community 1 Name : public
- Access Right : Read/Write
- Community 2 Name :
- Access Right : Read Only
- Community 3 Name :
- Access Right : Read Only

At the bottom of the settings area are 'Apply Settings' and 'Cancel' buttons. A 'Helpful Hints...' sidebar on the right explains that SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks. The bottom of the page is labeled 'PRINT SERVER'.

MAINTENANCE > Password

The Password screen allows you to change the password of the MFP server by entering the current password in the **Current Password** field and your new password in the **New Password** and **Confirm Password** fields. Click the **Apply Settings** button to save the new password, or click **Cancel** to exit without saving.

NOTE: The default password for the MFP server is blank.

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance Status Help

Password

Save/Restore Settings

Firmware Upgrade

Diagnostics

Printer Off line

Reboot

SET PASSWORD (OPTIONAL)

To change the print server password, please type in the current password, then the new password twice.

User Name : Admin

Current Password :

New Password :

Confirm Password :

Apply Settings Cancel

Helpful Hints..

Set Password: Click **Apply Settings** to set new password .

PRINT SERVER

MAINTENANCE > Save/Restore Settings

The Save/Restore Settings screen allows you to save the current device configuration in a computer for later backup. It also allows you to reload a previous configuration.

To save the current device configuration click the **[Save]** button. To reload a previous configuration click **[Browse]** and select the backup file, then click **[Update Settings]** to reload it. You can also return the device to factory default settings by clicking **[Restore Device]**.

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance Status Help

Password

Save/Restore Settings

Firmware Upgrade

Diagnostics

Printer Off line

Reboot

SAVE/RESTORE SETTINGS

This menu allows you to backup the whole configuration and restore it back when necessary.

SAVE/RESTORE CONFIGURATION

Save Settings to Local Hard Drive :

Load Settings From Local Hard Drive :

Restore To Factory Default Settings :

Helpful Hints..

Save/Restore Settings:
Click **Save** to backup your current configuration of the print server to file and then save in the computer.

You can reload a configuration that you saved before. Click **Browse** to point to the backup file, and then click **Update Settings**.

PRINT SERVER

MAINTENANCE > Firmware Upgrade

The Firmware Upgrade screen displays the current firmware information of the MFP server. It also allows you to upgrade the firmware of the MFP server when a new version of firmware is available.

Click **Browse** to point to the firmware file on your computer, and then click **Upgrade**.

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance Status Help

Password

Save/Restore Settings

Firmware Upgrade

Diagnostics

Printer Off line

Reboot

FIRMWARE UPGRADE

Note: Please do not upgrade the firmware on this print server unless instructed to do so by D-Link technical support.

FIRMWARE INFORMATION

Firmware Version : 1.00
Release Date : 2008-09-03

FIRMWARE UPGRADE

Note: Some firmware upgrades reset the configuration options to factory defaults. Before performing an upgrade, be sure to save the current configuration from the [Maintenance->Save/Restore Settings](#) screen.

To Upgrade the firmware, enter the name of the firmware upgrade file, and click the Upgrade button.

Upgrade :

Helpful Hints..

Firmware Upgrade: When a new version of firmware is available (e.g. downloading 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 SERVER

MAINTENANCE > Diagnostics

The Diagnostics screen allows you to test the printing for each printer connected via USB to the device. After making the port selection, click the **Print Test Page** button to print a test page.

The screenshot shows the web configurator interface for a D-Link DPR-1020 printer. At the top, it displays 'Product: DPR-1020' and 'Firmware Version: 1.00'. The D-Link logo is prominently featured in the header. Below the logo is a navigation menu with tabs for 'DPR-1020', 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Maintenance' tab is selected, leading to the 'DIAGNOSTICS' section. This section contains a description: 'This menu allows you to test the printing for every port.' Below this is the 'PRINT TEST' section, which includes a 'Port Selection' area. Under 'Port Selection', there is a radio button selected for 'USB' with the text '(No Printer Detected)' next to it. A 'Print Test Page' button is located below the selection. On the left side of the interface, there is a sidebar with options: 'Password', 'Save/Restore Settings', 'Firmware Upgrade', 'Diagnostics', and a 'Reboot' button. A printer icon is shown with a red 'X' and the text 'Printer Off line'. On the right side, there is a 'Helpful Hints..' section with a 'Print Test:' instruction: 'Click **Print Test Page** to print a test page.' The footer of the interface reads 'PRINT SERVER'.

STATUS > Device Info

The Device Info screen displays the status of your MFP Server, printer, and network for your reference.

Product: DPR-1020
Firmware Version: 1.00

D-Link

DPR-1020

Setup

Advanced

Maintenance

Status

Help

Device Info

Network

Print Log

Printer
Off line

DEVICE INFO

The following shows the general system information.

PRINT SERVER STATUS

Server Name : dlink-812AFA

Model : DPR-1020

Firmware Version : 1.00 (2008-09-03)

MAC Address : 00 FF 74 81 2A FA

IP Address : 192.168.0.10

Up Time : 0 days, 00:13:42

PRINTER STATUS

USB : Printer Name : dlk-812AFA-U1

Printer Speed : Off line

Printer Status : Off line

Total Print Jobs : 0

Total Print Size : 0 KBytes

Printing Status : Idle

Name :

MAC :

IP :

Protocol :

Spooling Size : 0 Bytes

Printing Size : 0 Bytes

LAN STATUS

Link : Yes

Speed : 100 Mbps

Full Duplex : Yes

Tx Packets : 1100

Tx Errors : 0

Rx Packets : 833

Rx Errors : 0

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 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.

PRINT SERVER

Print Server Status

These fields display the firmware version of the device, MAC/IP address, and up time.

Printer Status

The items in this section display the information regarding the printer, such as the printer's name, speed, printer status, and printing tasks.

LAN Status

You can monitor the network status in this field, including network connection link status, speed, and packet statistics.

STATUS > Network

The Network screen displays the general network status of your MFP 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 section are configured in

Advanced → Advanced LAN → TCP/IP.

TCP/IP Printing

In this section you can monitor the status of printing tasks through TCP/IP.

Microsoft Network Printing

In this section you can monitor the status of printing tasks through Microsoft Network.

Mac AppleTalk Printing

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



DPR-1020	Setup	Advanced	Maintenance	Status	Help
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Device Info

Network

Print Log

Printer
 Off line

Reboot

NETWORK STATUS

The following shows the general networking status.

AUTO IP

DHCP/BOOTP : Enable (IP : 0.0.0.0)
UPnP : Enable (IP : 192.168.0.10)
Mac Bonjour/Rendezvous : Enable (IP : 169.254.42.250)

TCP/IP PRINTING

LPR Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

Port (9100) Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

IPP Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

FTP Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

MICROSOFT NETWORK PRINTING

SMB (Over NetBEUI) Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

SMB (Over NBT) Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

MAC APPLE TALK PRINTING

AppleTalk Printing : Status : Running
 Total Print Jobs : 0
 Total Print Size : 0 KBytes

Refresh

Helpful Hints..

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 -> Advanced LAN -> 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.

PRINT SERVER

STATUS >Print Log

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

Printing Log


The fields below display the user(s) information, which include the user(s) MAC address, IP address, name, status of printing tasks and size of printing tasks.

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup Advanced Maintenance **Status** Help

Device Info
Network
Print Log

 Printer
Off line

Reboot

USER PRINT LOG

The following shows the printing record of the authorised users.

PRINTING LOG

MAC	IP	Name	Jobs	Size(KBytes)
-----	----	------	------	--------------

Refresh

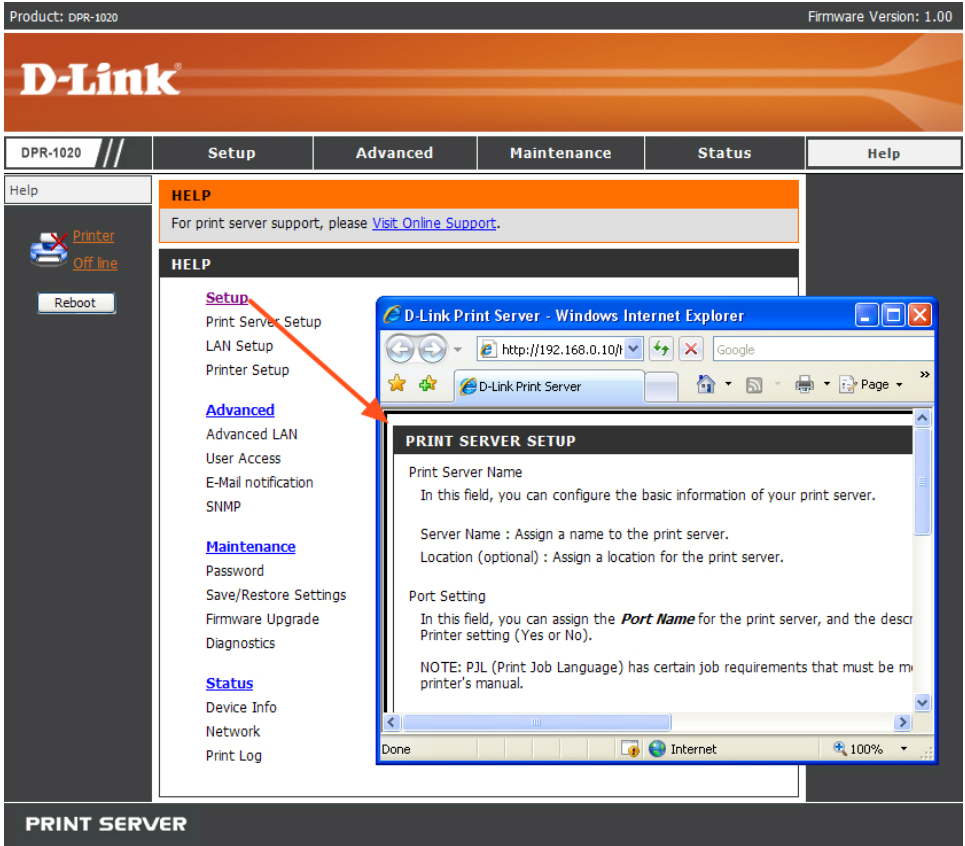
Helpful Hints..

Printing 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.

PRINT SERVER

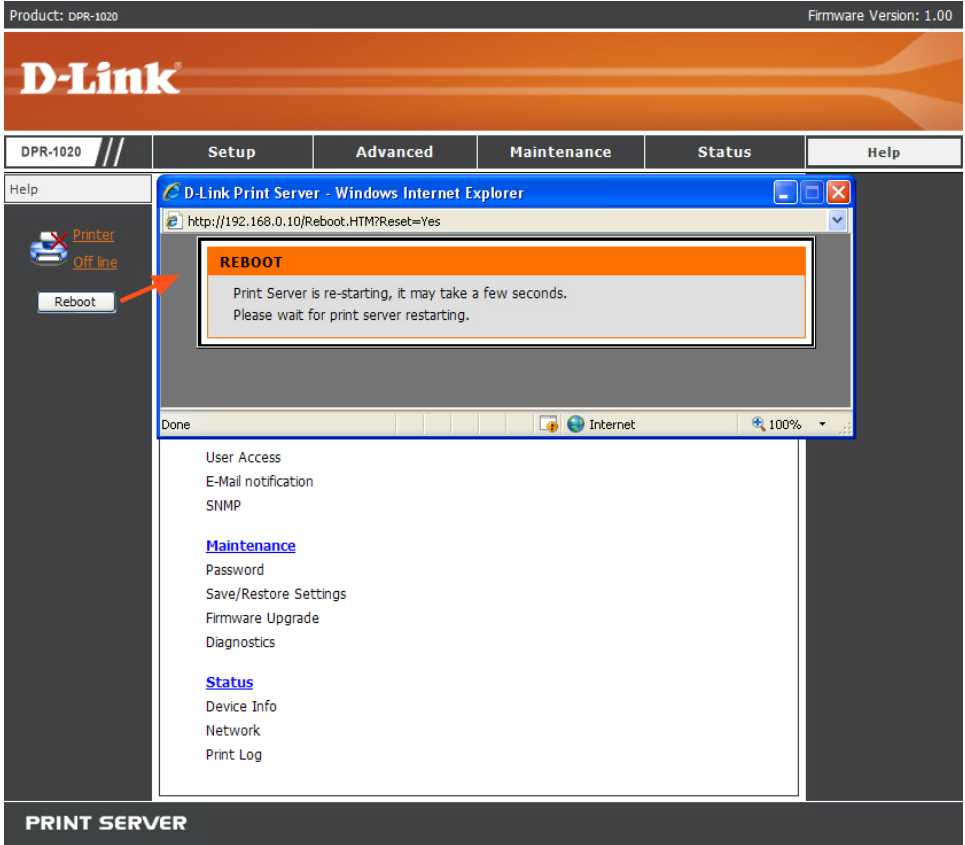
HELP

The Help screen provides you with additional help regarding the print server.



Reboot

If you want to reset the print server, you can just click the **[Reboot]** to restart. It will take a few seconds to restart.



Refresh Printer Status

Click the printer in the left column to refresh the status of the printer.

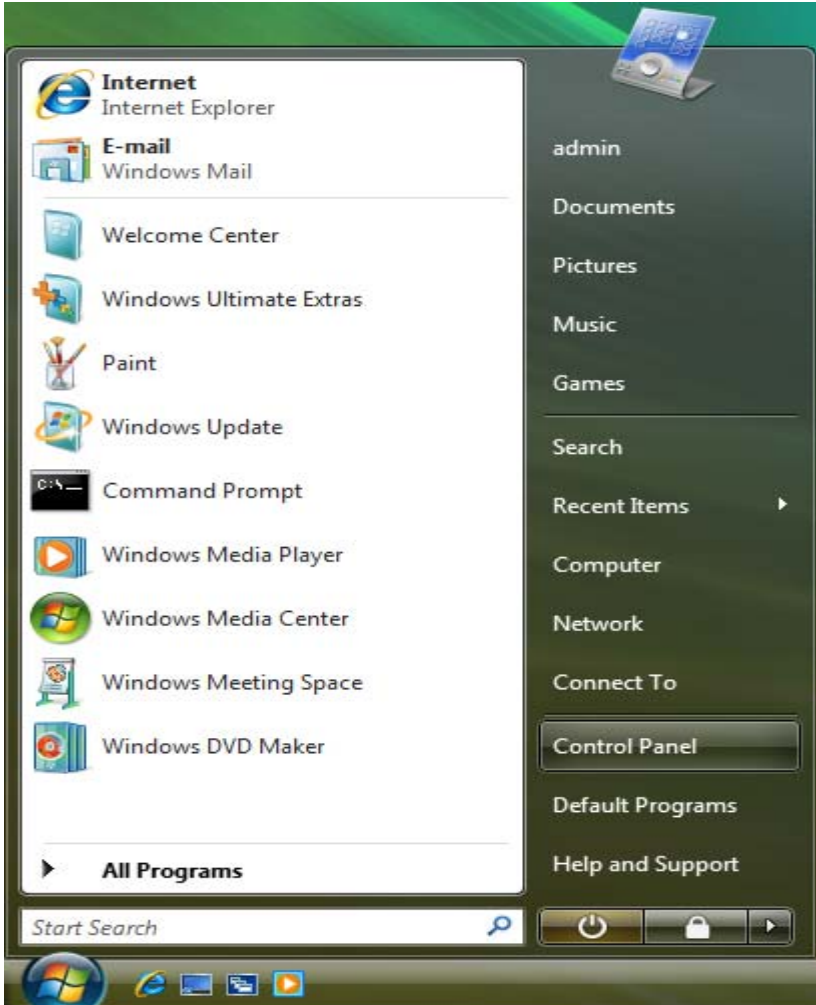
Product: DPR-1020 Firmware Version: 1.00

The screenshot shows the D-Link DPR-1020 Web Configurator interface. At the top, the product name 'D-Link' is displayed in a large, stylized font. Below the header, there is a navigation menu with tabs for 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Setup' tab is currently selected. On the left side, there is a sidebar with a tree view containing 'Print Server Setup', 'LAN Setup', and 'Printer Setup'. Under 'Printer Setup', there is a printer icon with a red 'X' over it, labeled 'Printer Offline', and a 'Reboot' button. The main content area displays the 'NETWORK PRINTER WIZARD' with the following text: '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.' Below this text is a 'Next' button. A red note states: '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.' On the right side, there is a 'Helpful Hints...' section titled 'Add A Network Printer Wizard:' which explains that clicking 'Next' will download and run a windows wizard program to install a network printer.

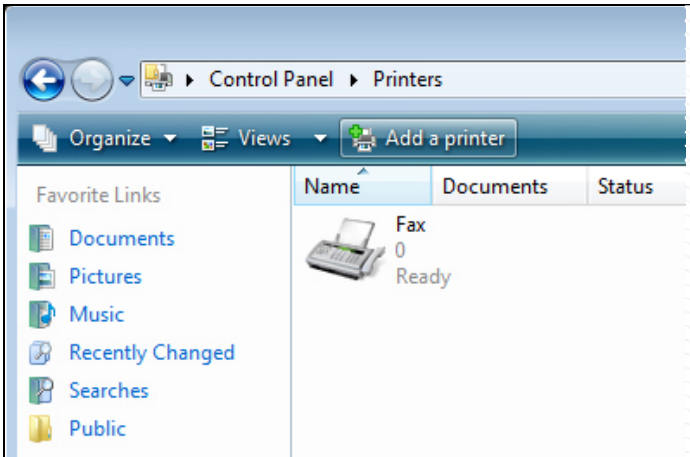
PRINT SERVER

TCP/IP Printing for Windows Vista

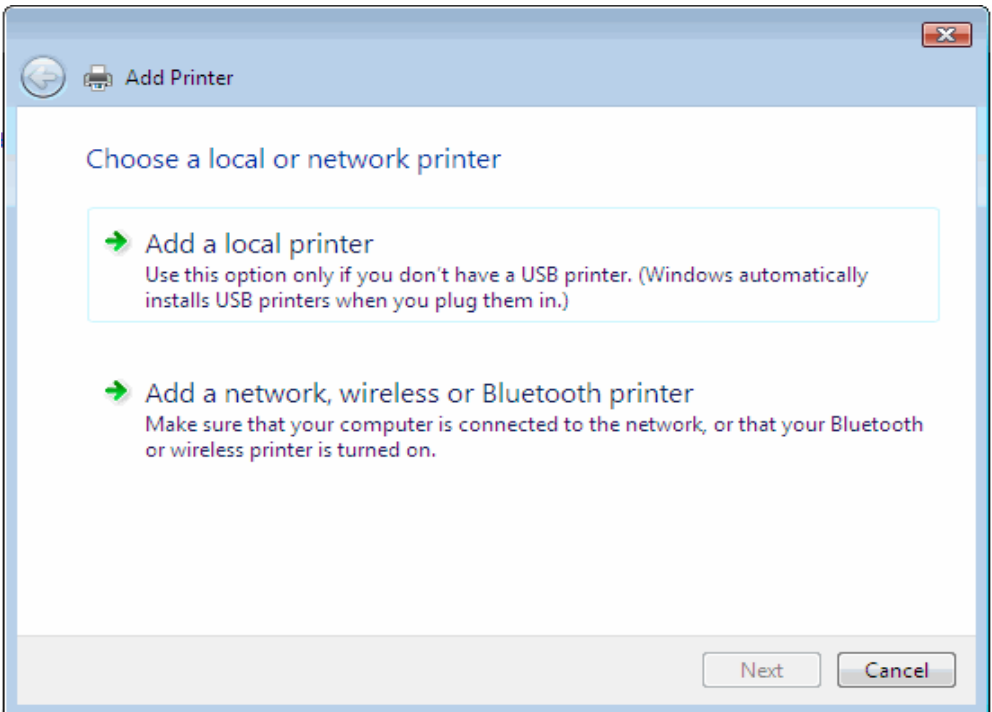
Go to **Start → Control Panel → Printers**.



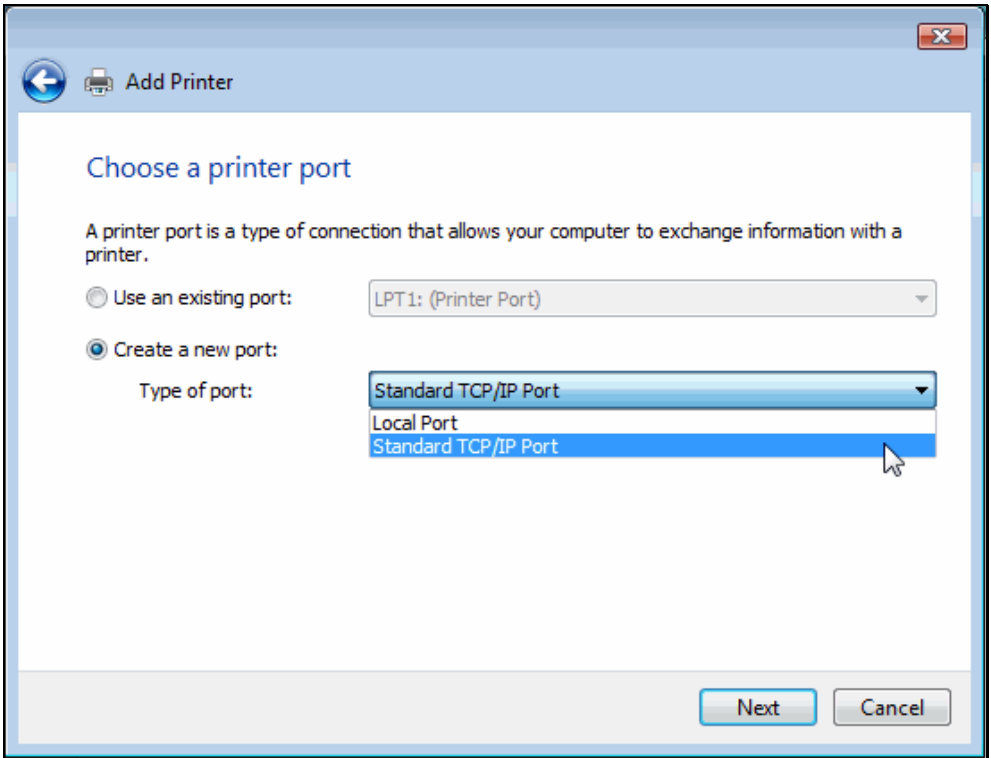
Click **Add a printer**.



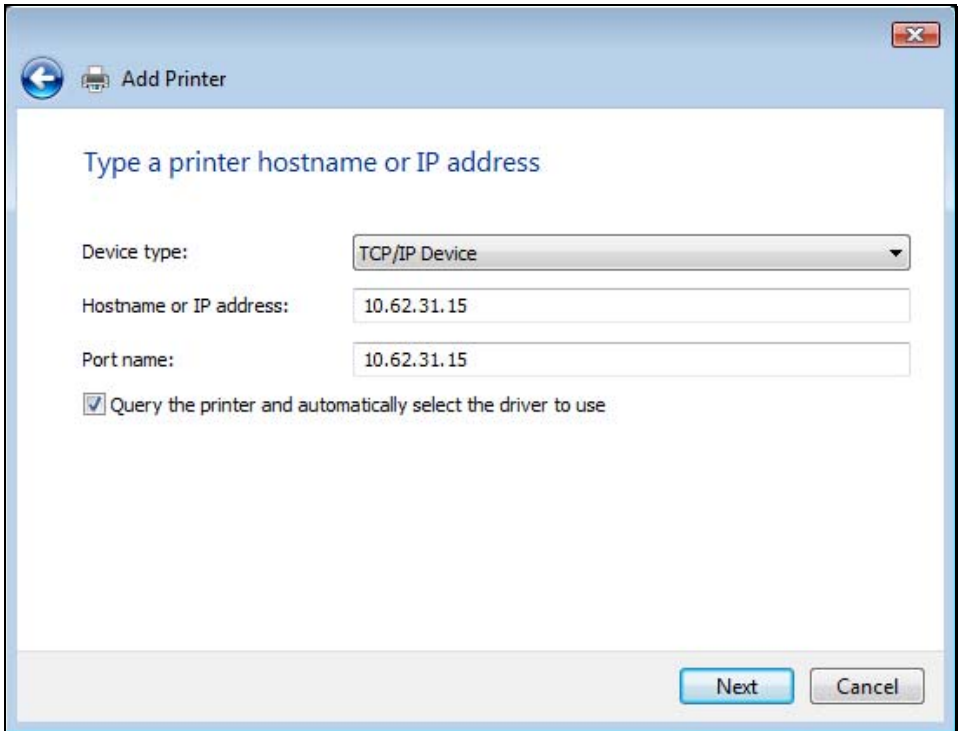
Select the first option, **Add a local printer**, and then click **Next**.




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



In the **Hostname or IP address field**, type the IP address of the MFP server (e.g. 10.62.31.15), this address can be found in the **PRINTER SERVER STATUS** screen of the MFP server's web configurator. The **Port Name** field will automatically fill in. Click **Next**.



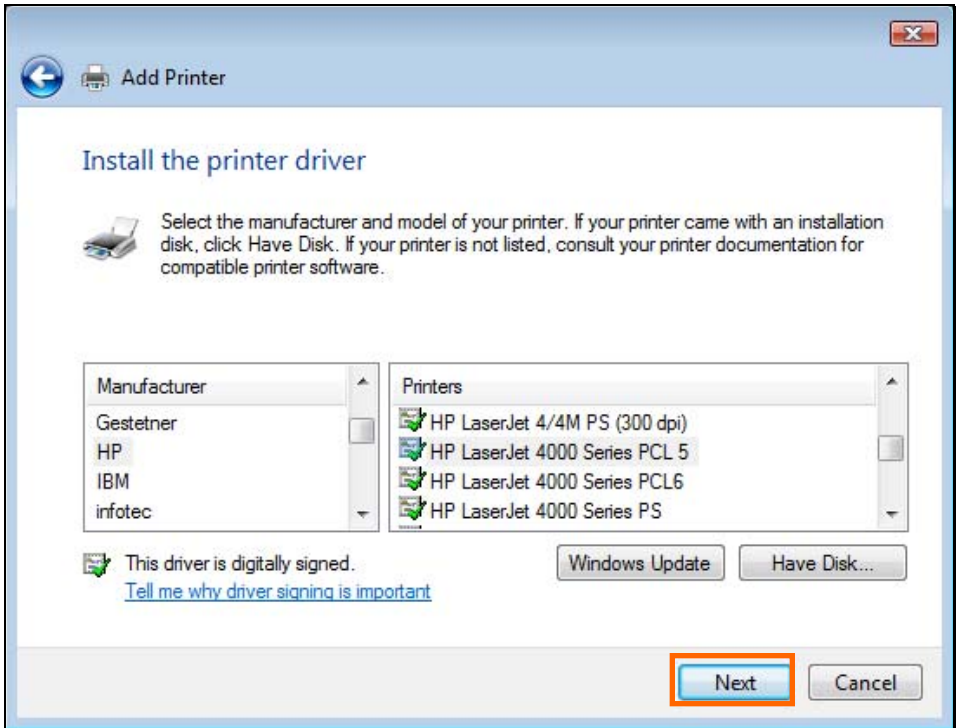
The screenshot shows the 'Add Printer' wizard in Windows Vista. The window title is 'Add Printer'. The main heading is 'Type a printer hostname or IP address'. There are three input fields: 'Device type' with a dropdown menu showing 'TCP/IP Device', 'Hostname or IP address' with the text '10.62.31.15', and 'Port name' with the text '10.62.31.15'. A checkbox labeled 'Query the printer and automatically select the driver to use' is checked. At the bottom right, there are 'Next' and 'Cancel' buttons.

Product: DPR-1020		Firmware Version: 1.00			
D-Link					
DPR-1020	Setup	Advanced	Maintenance	Status	Help
Device Info	DEVICE INFO The following shows the general system information.				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 status of your printing tasks, etc.
Network					
Print Log	PRINT SERVER STATUS Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17				
 Printer Off line <input type="button" value="Reboot"/>					

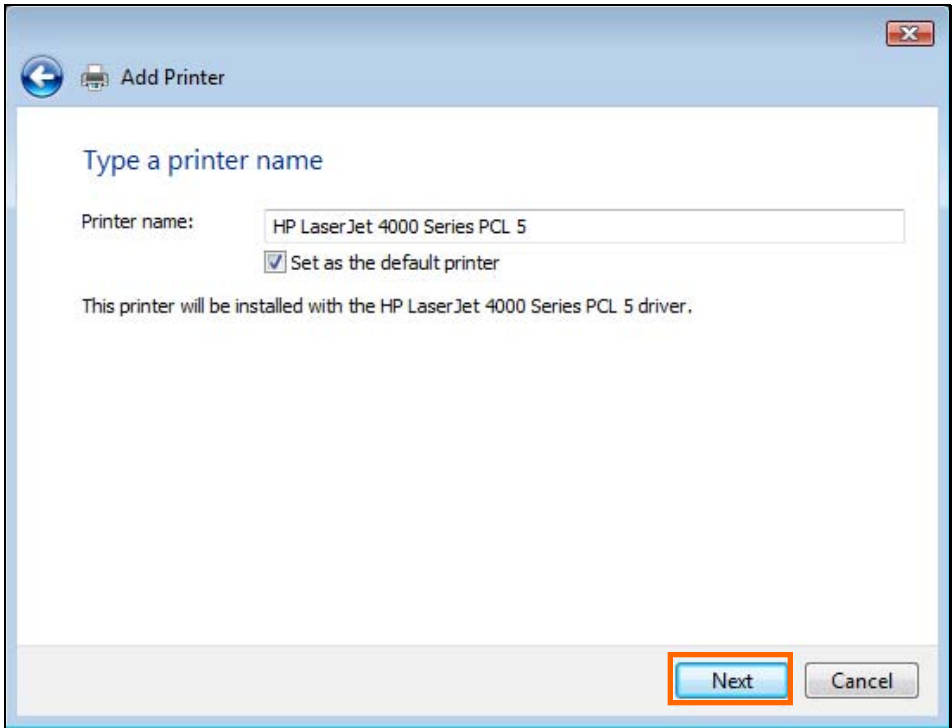
TCP/IP Printing for Windows Vista

In the next screen highlight the printer you wish to add. If the 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.

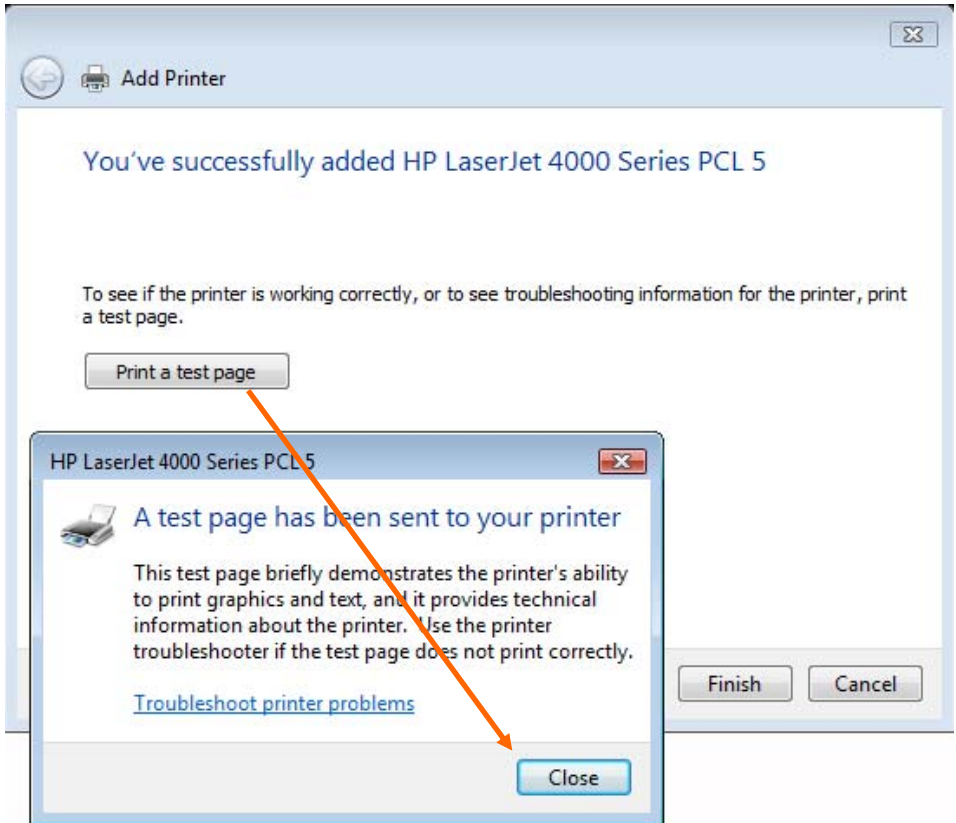
Click **Next**



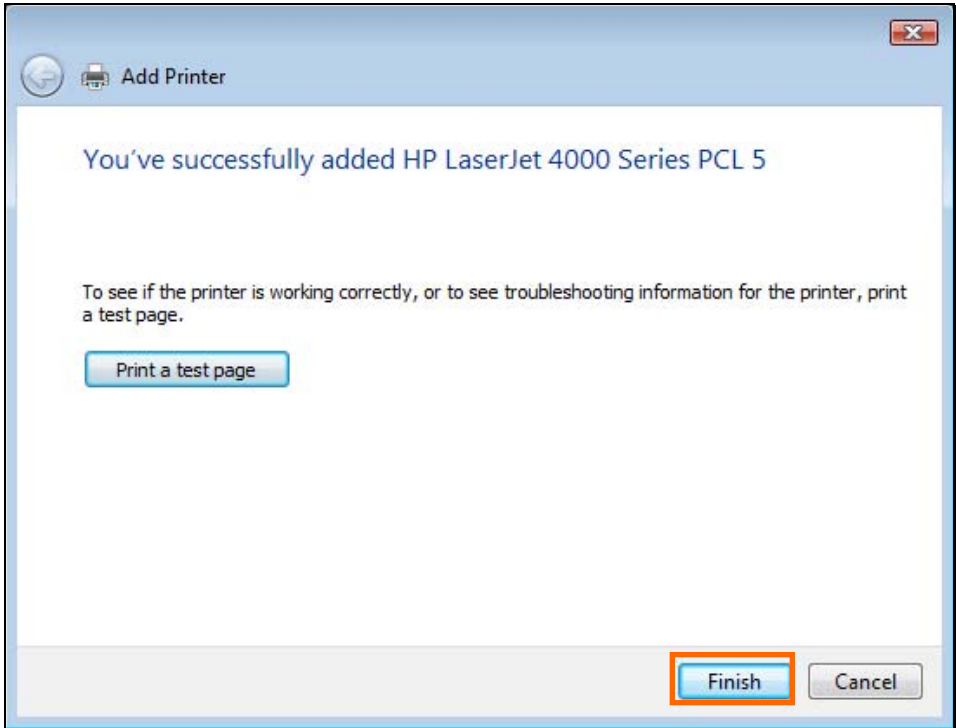
Click **Next** to start installing the printer.



After clicking **Print a test page**, a small dialogue box will display as below. Click **Close**.

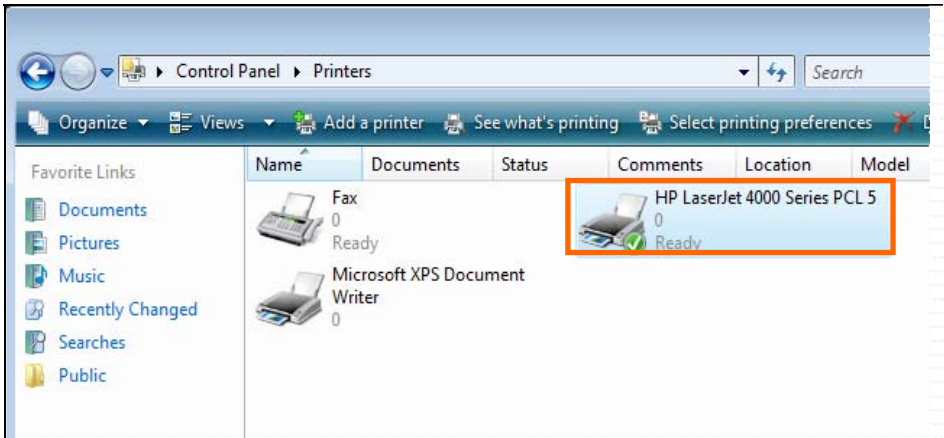


Click **Finish**.



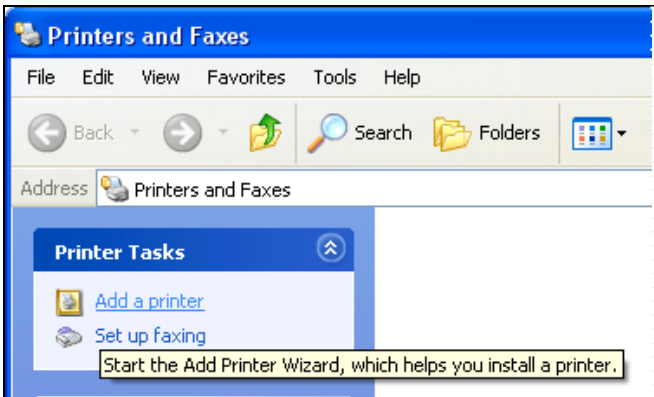
TCP/IP Printing for Windows Vista

The printer is now ready to use.

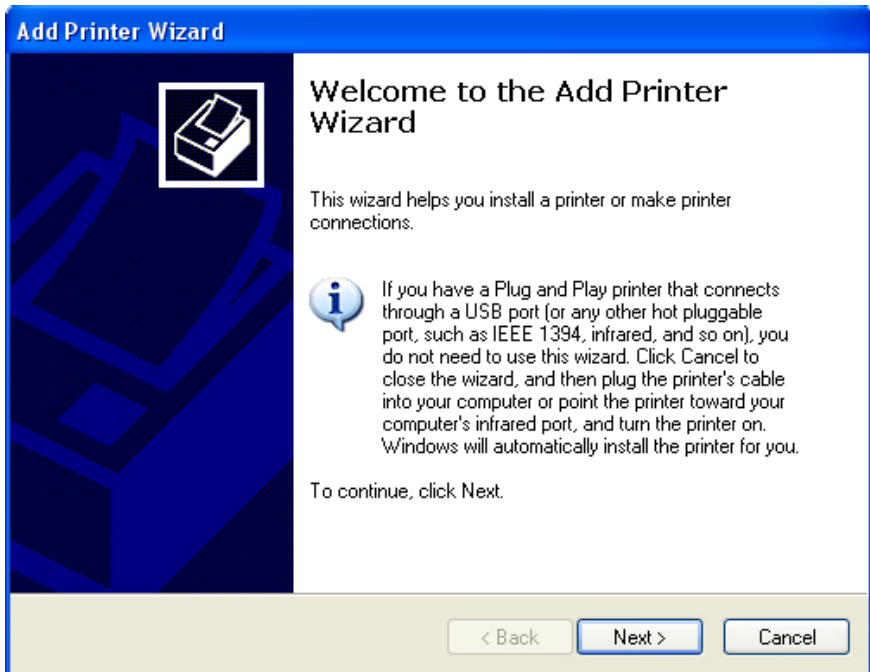


TCP/IP Printing for Windows XP

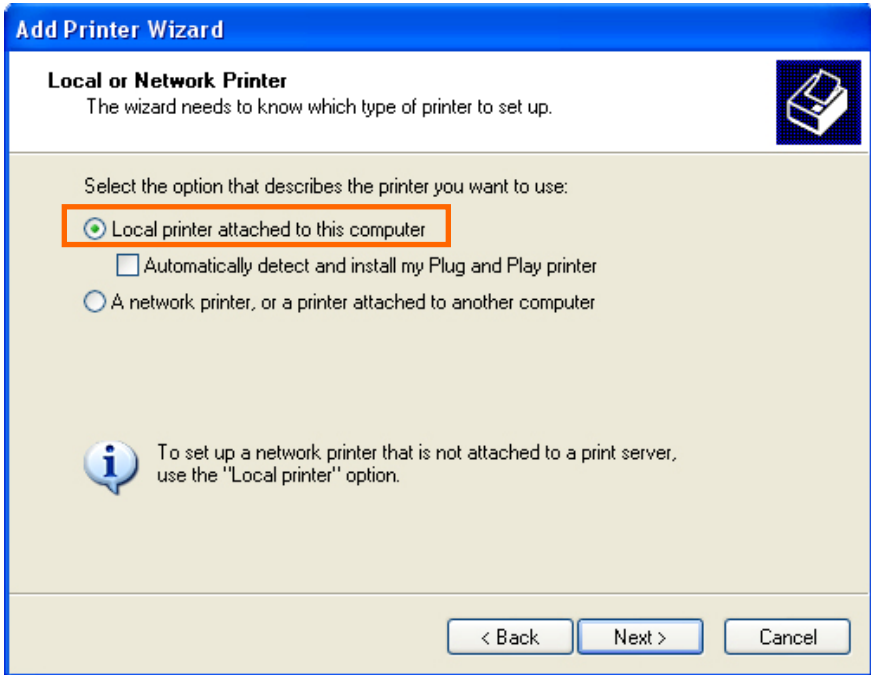
Go to **Start** → **Printers and Faxes** → **Add a Printer**.



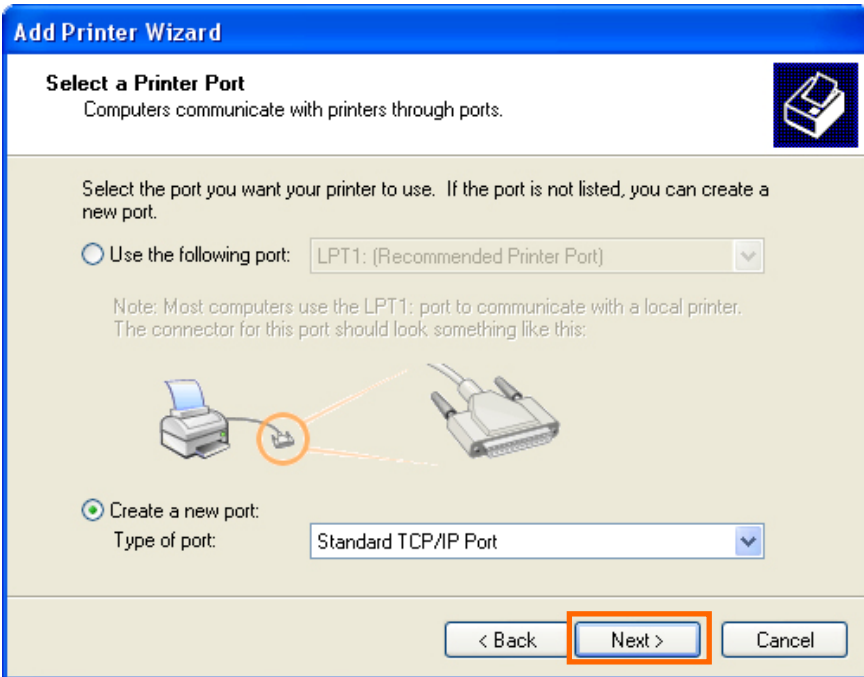
When the following screen displays, click **Next**.



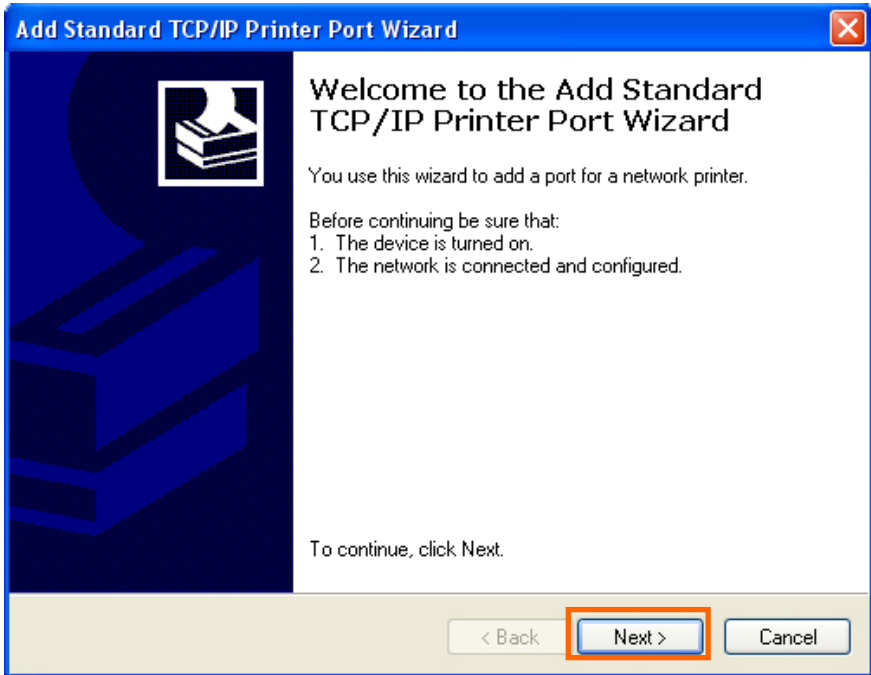
Select the first option, **Local printer attached to this computer**, and click **Next**.



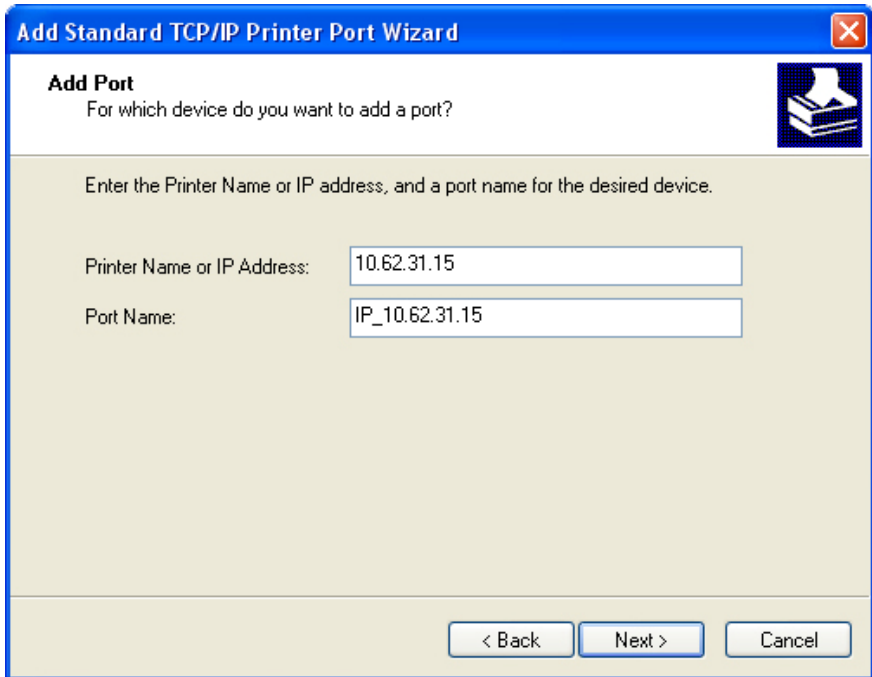
Click the second option, **Create a new port**, and select **Standard TCP/IP Port** from the drop-down list box. Click **Next**.



Click **Next**.



In the **Hostname or IP address field**, type the IP address of the MFP server (e.g. 10.62.31.15), this address can be found in the **PRINTER SERVER STATUS** screen of the MFP server's web configurator. The **Port Name** field will automatically fill in. Click **Next**.



Add Standard TCP/IP Printer Port Wizard

Add Port
For which device do you want to add a port?

Enter the Printer Name or IP address, and a port name for the desired device.

Printer Name or IP Address: 10.62.31.15

Port Name: IP_10.62.31.15


< Back Next > Cancel

Product: DPR-1020

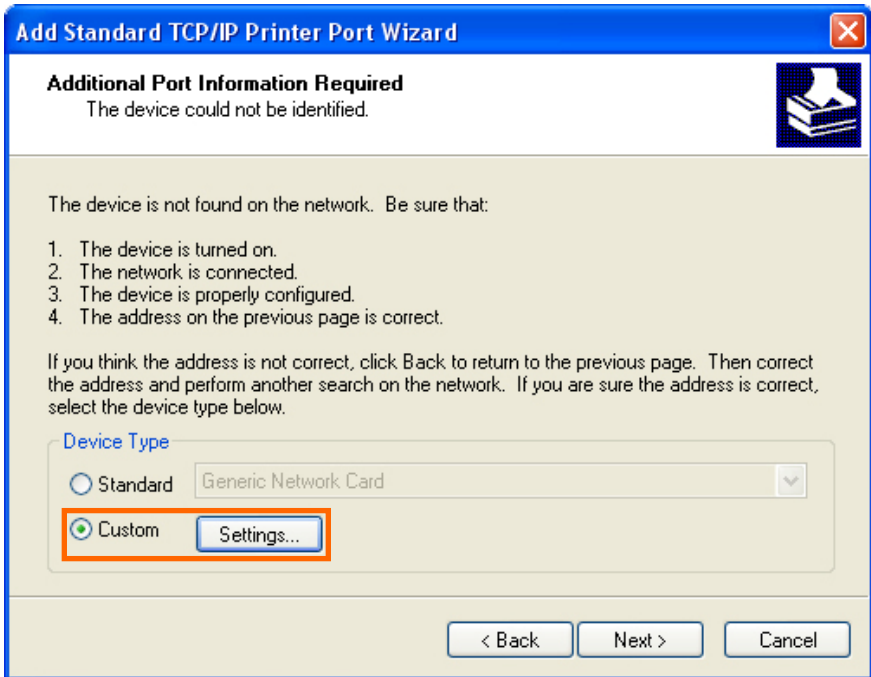
Firmware Version: 1.00



DPR-1020	Setup	Advanced	Maintenance	Status	Help
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Device Info Network Print Log  Printer Off line <input type="button" value="Reboot"/>	<p>DEVICE INFO</p> <p>The following shows the general system information.</p> <hr/> <p>PRINT SERVER STATUS</p> <p>Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17</p>	<p>Helpful Hints..</p> <p>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.</p> <p>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.</p>
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Select **Custom** and click **Settings**.



The following screen will display, select **LPR** from the **Protocol** field.

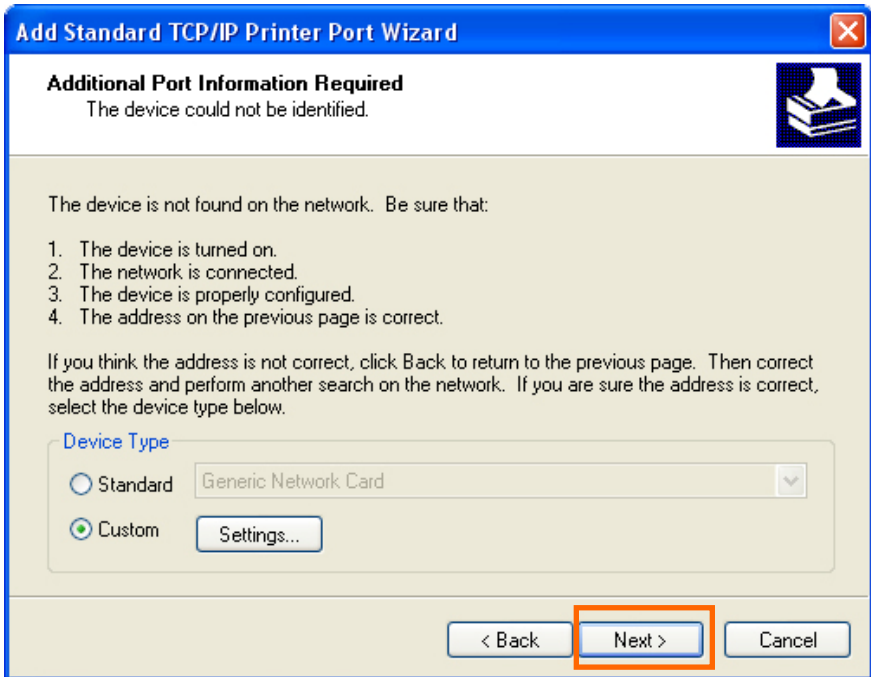
Enter the **Queue Name**, which can be found in the **PRINTER STATUS** screen of the MFP server's web configurator. Click **OK**.

The image shows a Windows XP dialog box titled "Configure Standard TCP/IP Port Monitor". The dialog has a blue title bar with a question mark icon and a close button. The main area is divided into several sections:

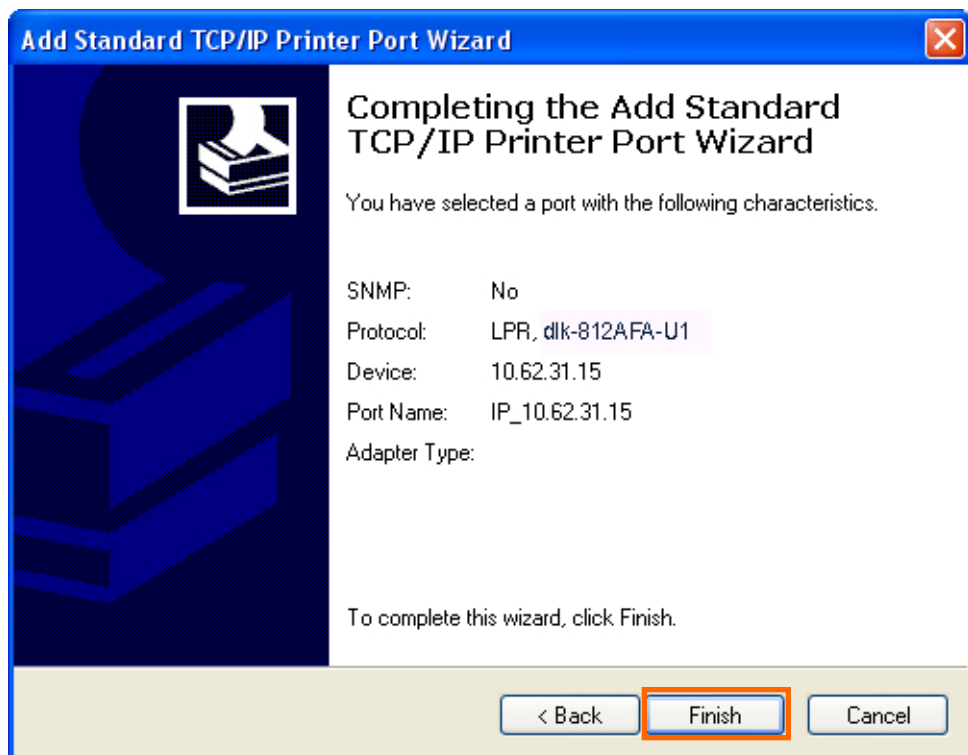
- Port Settings:** Contains two text input fields: "Port Name:" with the value "IP_10.62.31.15" and "Printer Name or IP Address:" with the value "10.62.31.15".
- Protocol:** A section with two radio buttons: "Raw" (unselected) and "LPR" (selected). This section is highlighted with an orange border.
- Raw Settings:** Contains a text input field for "Port Number:" with the value "515".
- LPR Settings:** Contains a text input field for "Queue Name:" with the value "dlk-812AFA-U1". This section is also highlighted with an orange border.
- Below the LPR Settings, there are two checkboxes: "LPR Byte Counting Enabled" (unchecked) and "SNMP Status Enabled" (unchecked).
- Below the checkboxes, there are two more text input fields: "Community Name:" with the value "public" and "SNMP Device Index:" with the value "1".
- At the bottom right, there are two buttons: "OK" (highlighted with an orange border) and "Cancel".

Product: DPR-1020		Firmware Version: 1.00			
D-Link					
DPR-1020 //	Setup	Advanced	Maintenance	Status	Help
Device Info	DEVICE INFO				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 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.
Network	The following shows the general system information.				
Print Log	PRINT SERVER STATUS				
 Printer Off line <input type="button" value="Reboot"/>	Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17				
	PRINTER STATUS				
	USB : Printer Name : dk-812AFA-U1 Printer Speed : Off line Printer Status : Off line Total Print Jobs : 0 Total Print Size : 0 KBytes				

Click **Next**.

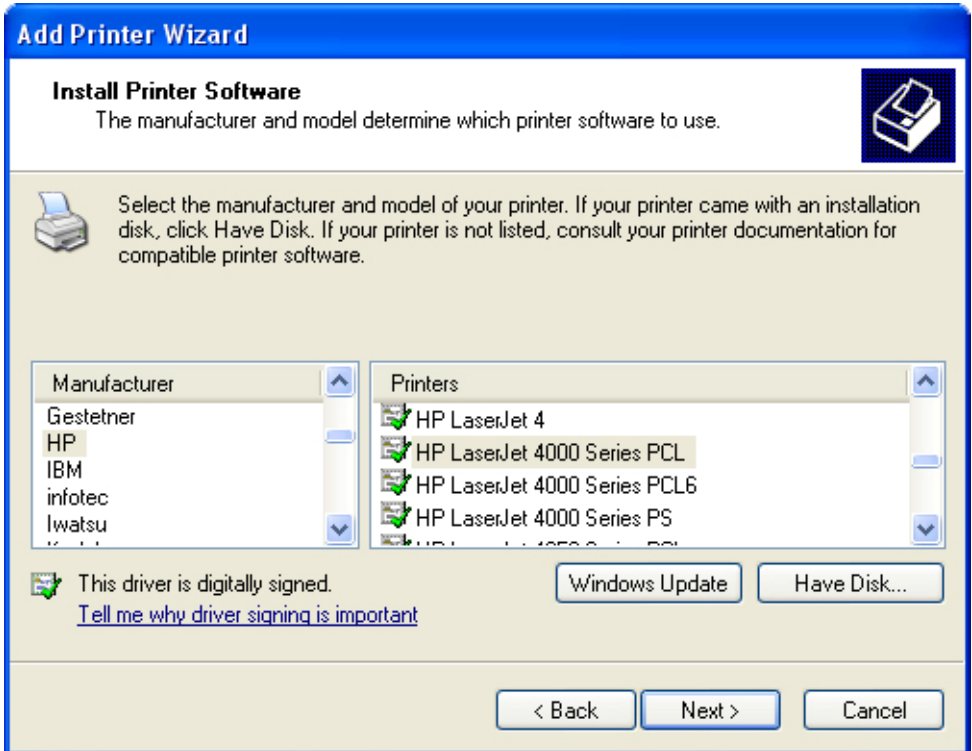


Click **Finish**.

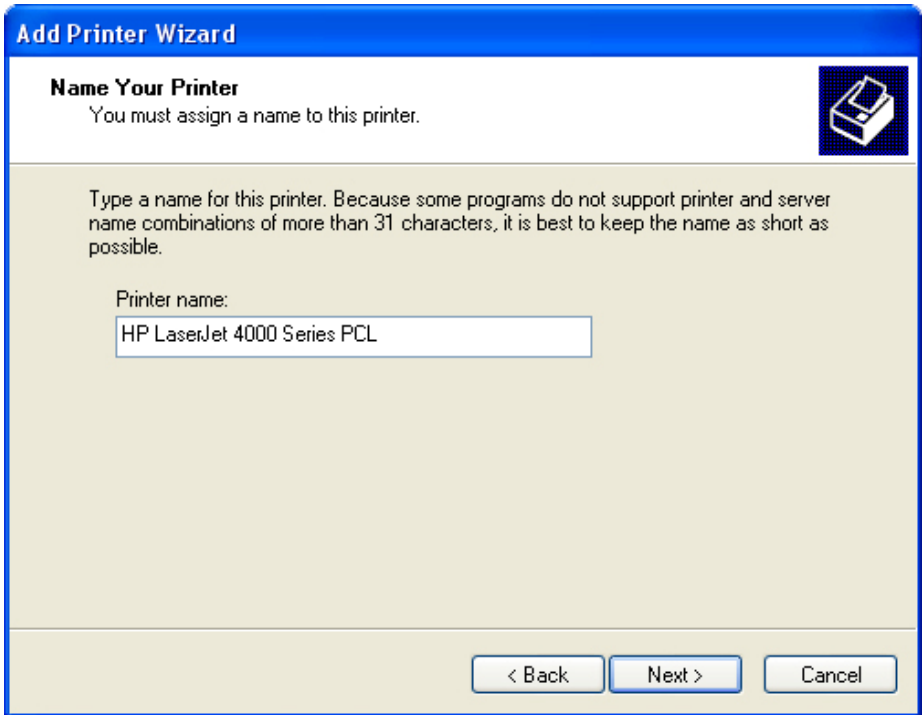


In the next screen highlight the printer you wish to add. If the printer is not on the list, click **[Have Disk]** and insert the printer driver disk that came with your printer to install the printer drivers.

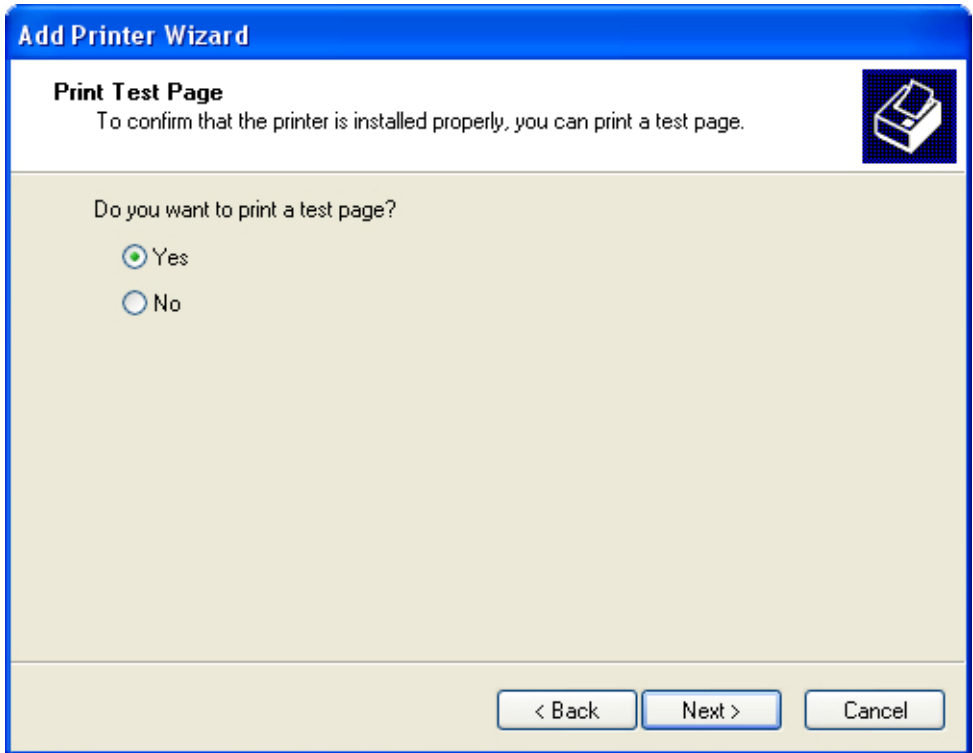
Click **Next**



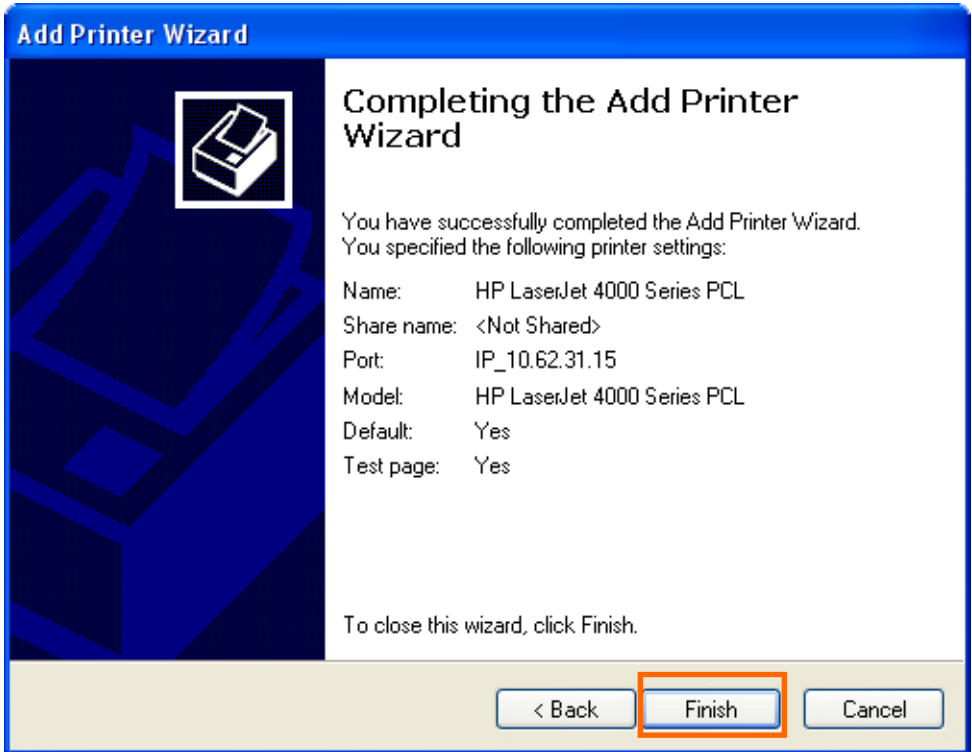
At this screen, you can input a name for the printer, and then click **Next**.



Select **Yes** to print a test page, click **Next**.



Click **Finish**. The printer is now ready for use.

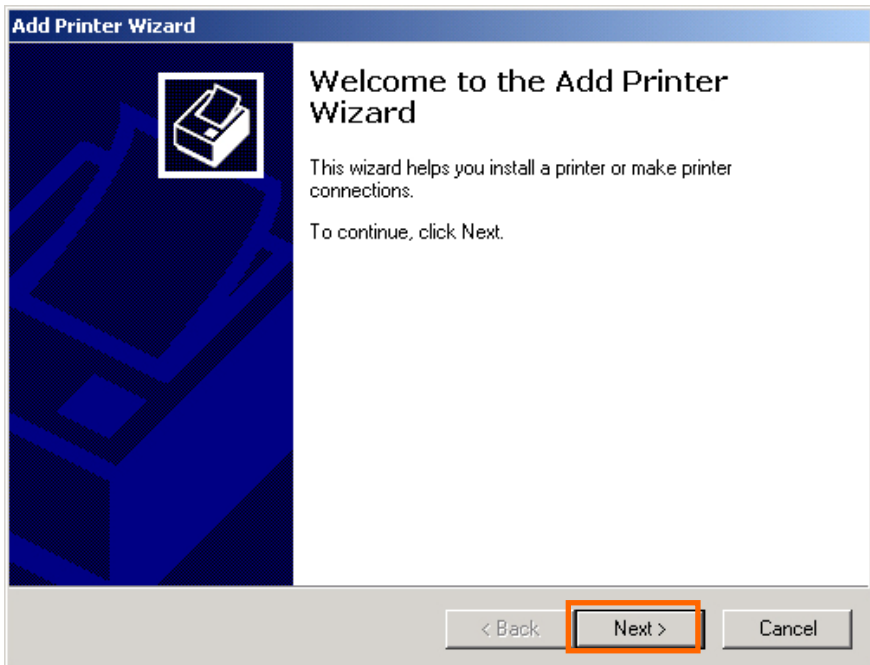


TCP/IP Printing for Windows 2000

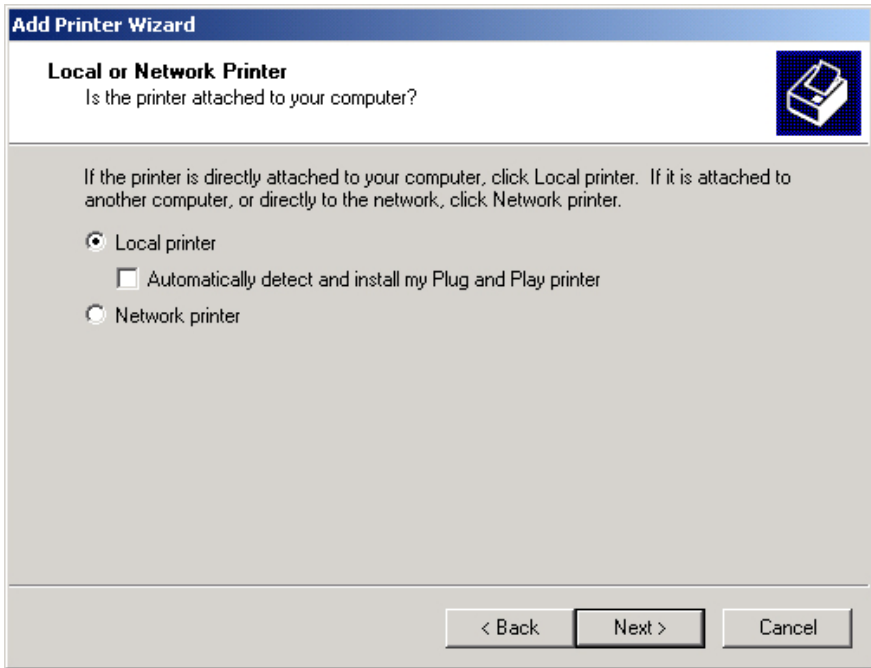
Go to **Start** → **Settings** → **Printers and Faxes** → **Add a Printer**.



When the following screen shows up, click **Next**.

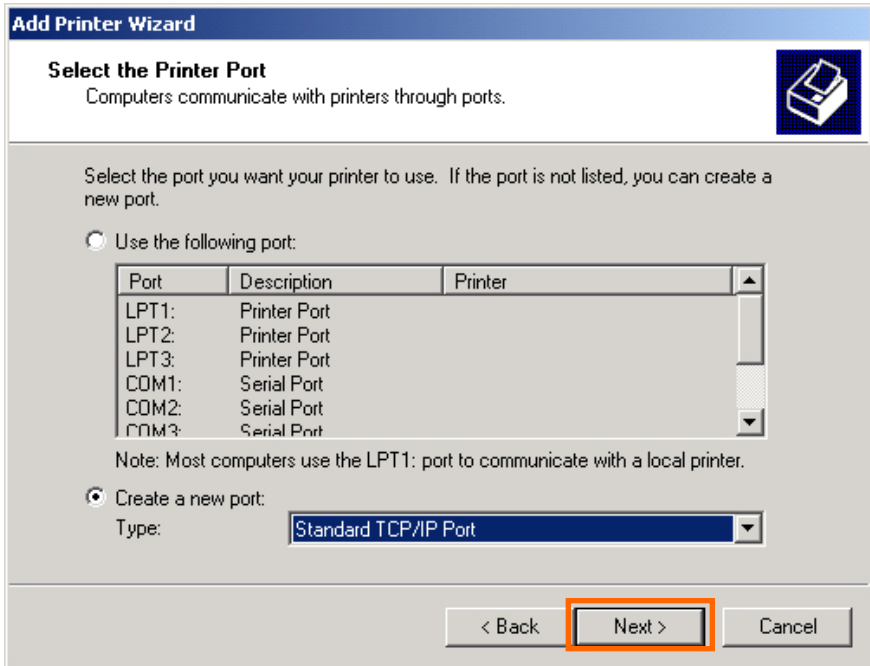


Select the first option, **Local printer**, and click **Next**.

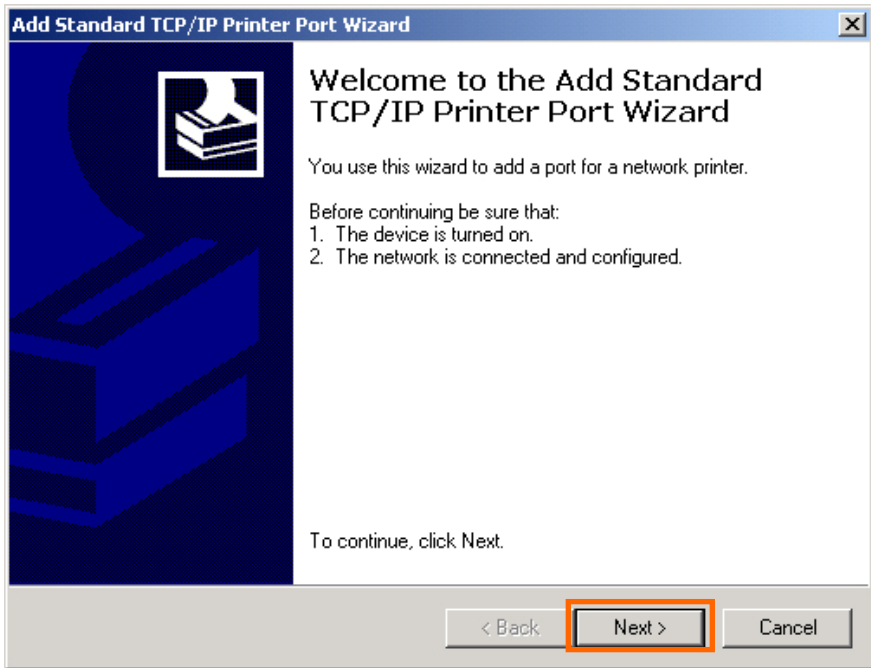


Click **Next** if the New Printer Detection screen pops up.

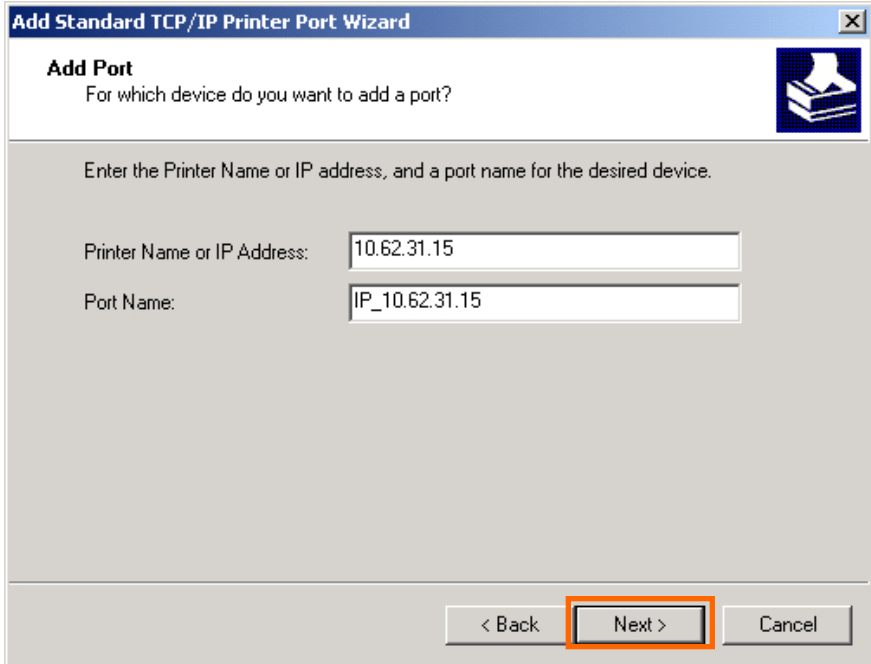
On the next screen, select the second option **Create a new port** and highlight **Standard TCP/IP Port** from the drop-down list. Click **Next**.



Click **Next**.



In the **Hostname or IP address field**, type the IP address of the MFP server (e.g. 10.62.31.15), this address can be found in the **PRINTER SERVER STATUS** screen of the MFP server's web configurator. The **Port Name** field will automatically fill in. Click **Next**.

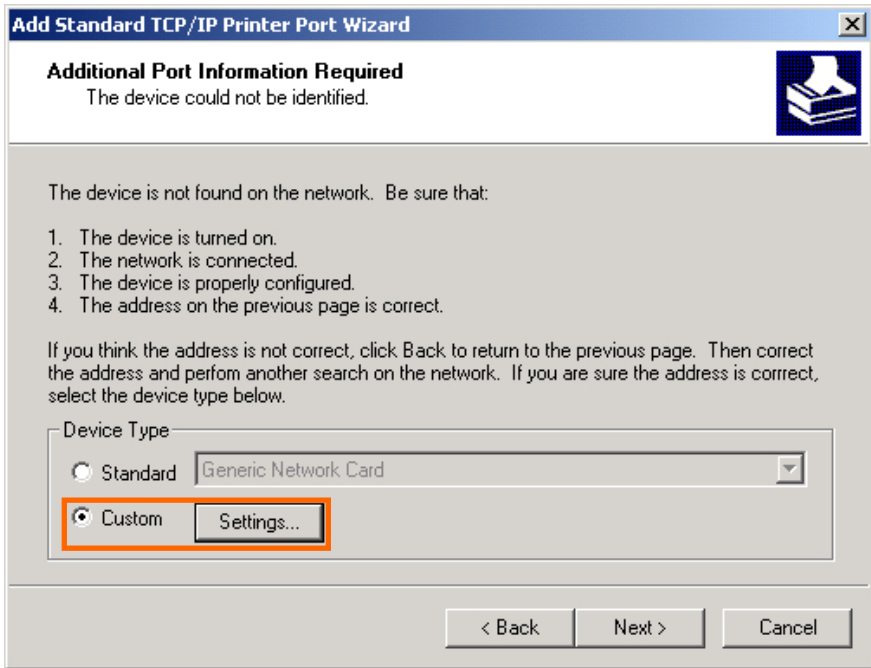


Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020	Setup	Advanced	Maintenance	Status	Help
Device Info	DEVICE INFO The following shows the general system information.				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 status of your printing tasks, etc.
Network	PRINT SERVER STATUS				
Print Log	Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17				
Printer Off line Reboot					

Select **Custom** and click **Settings**.




The following screen will display, select **LPR** from the **Protocol** field.

Enter the **Queue Name**, which can be found in the **PRINTER STATUS** screen of the MFP server's web configurator. Click **OK**.

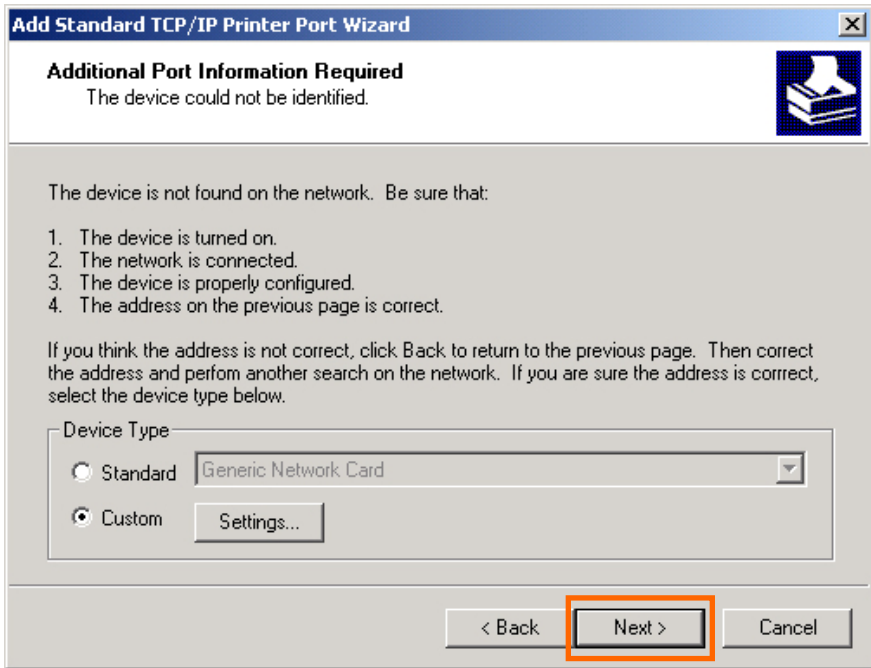
The image shows a Windows dialog box titled "Configure Standard TCP/IP Port Monitor". The dialog has several sections:

- Port Settings:** "Port Name:" is "IP_10.62.31.15" and "Printer Name or IP Address:" is "10.62.31.15".
- Protocol:** Two radio buttons are present: "Raw" (unselected) and "LPR" (selected).
- Raw Settings:** "Port Number:" is "9100".
- LPR Settings:** "Queue Name:" is "dlk-812AFA-U1".
- Options:** "LPR Byte Counting Enabled" and "SNMP Status Enabled" are both unchecked.
- SNMP Settings:** "Community Name:" is "public" and "SNMP Device Index:" is "1".
- Buttons:** "OK" and "Cancel" buttons are at the bottom right.

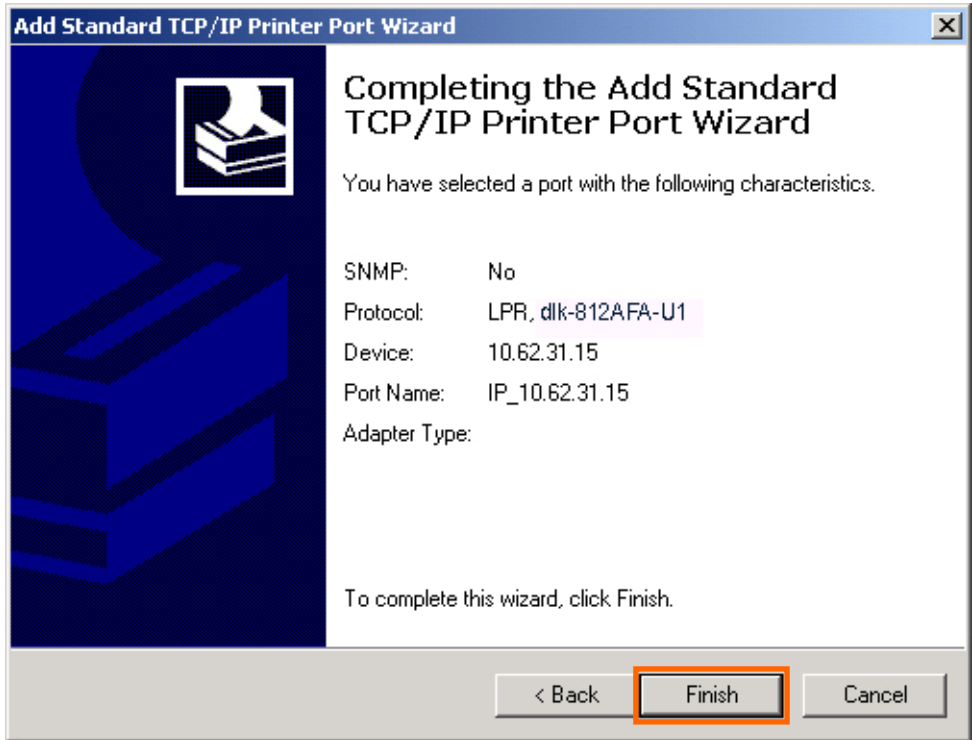
Orange boxes highlight the "Protocol" section, the "LPR Settings" section, and the "OK" button.

Product: DPR-1020		Firmware Version: 1.00				
D-Link						
DPR-1020 //		Setup	Advanced	Maintenance	Status	Help
Device Info	DEVICE INFO				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 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.	
Network	The following shows the general system information.					
Print Log	PRINT SERVER STATUS					
 Printer Off line <input type="button" value="Reboot"/>	Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17					
	PRINTER STATUS					
	USB : Printer Name : dk-812AFA-U1 Printer Speed : Off line Printer Status : Off line Total Print Jobs : 0 Total Print Size : 0 KBytes					

Click **Next**.

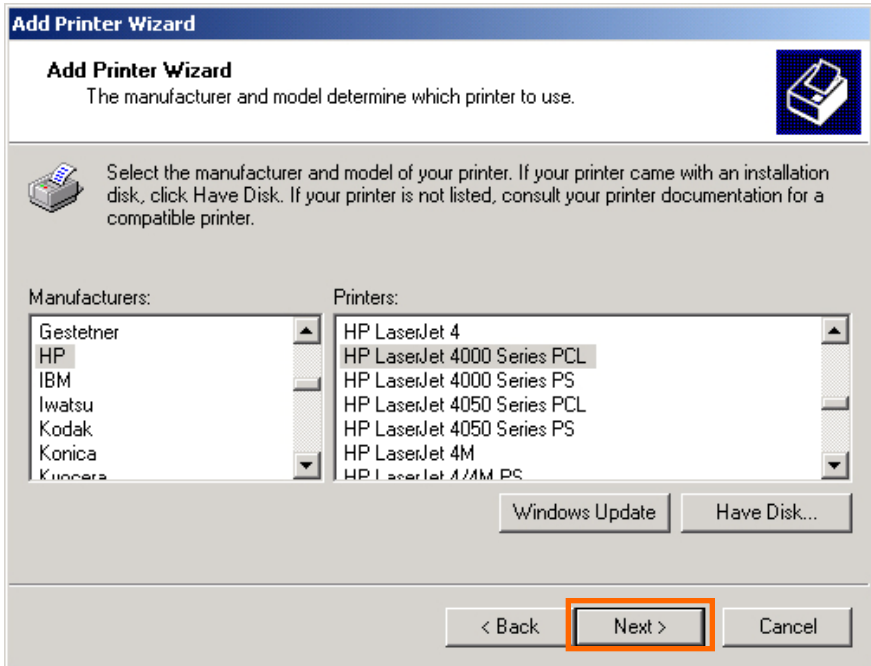


Click **Finish**.

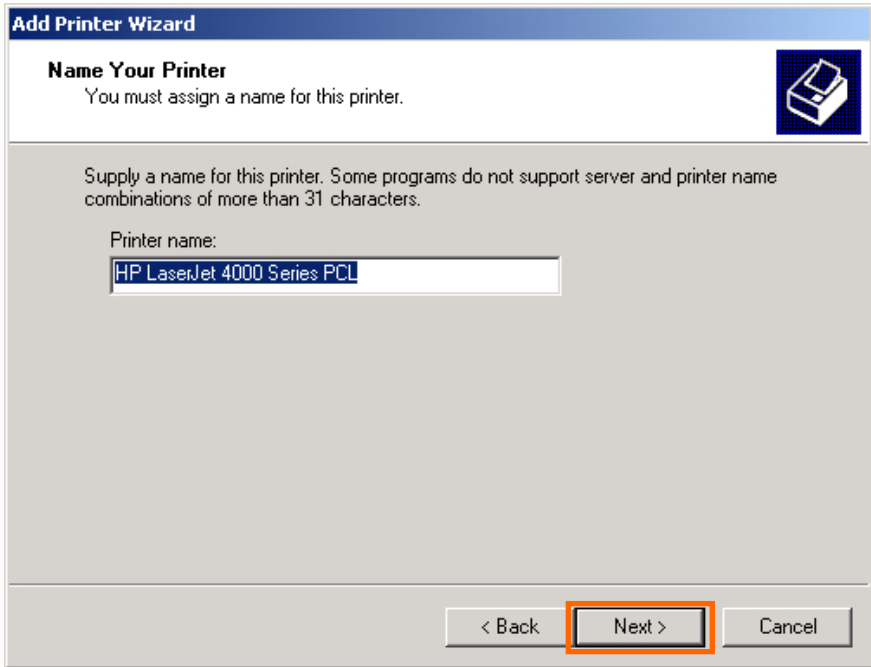


In the next screen highlight the printer you wish to add. If the printer is not on the list, click **[Have Disk]** and insert the printer driver disk that came with your printer to install the printer drivers.

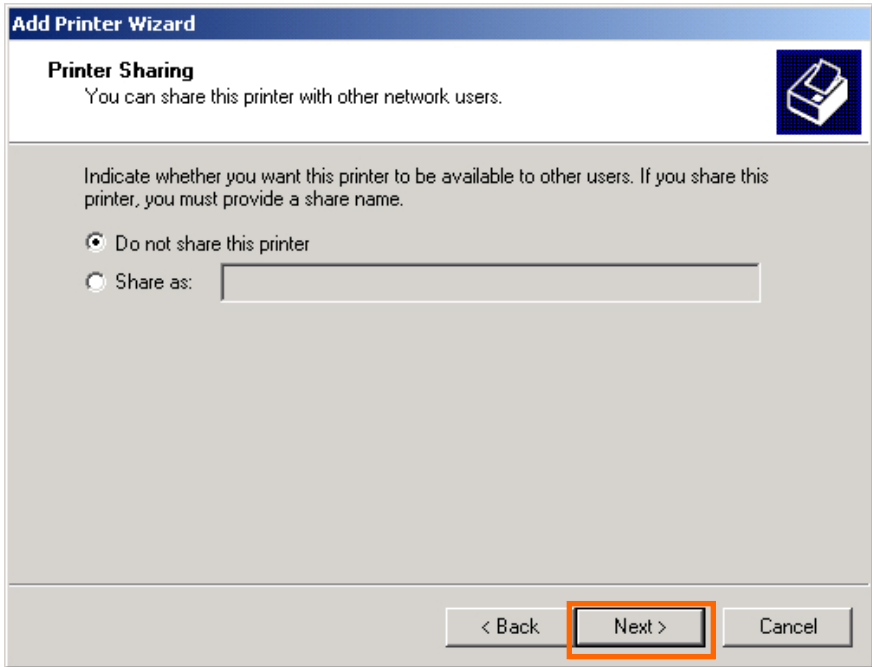
Click **Next**



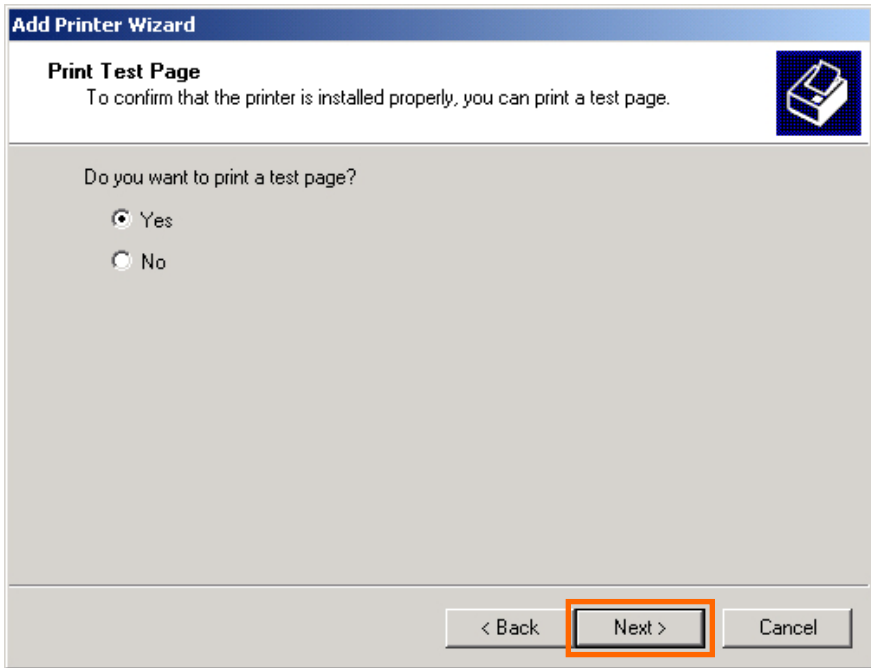
At this screen, input a name for the printer, and then click **Next >**.



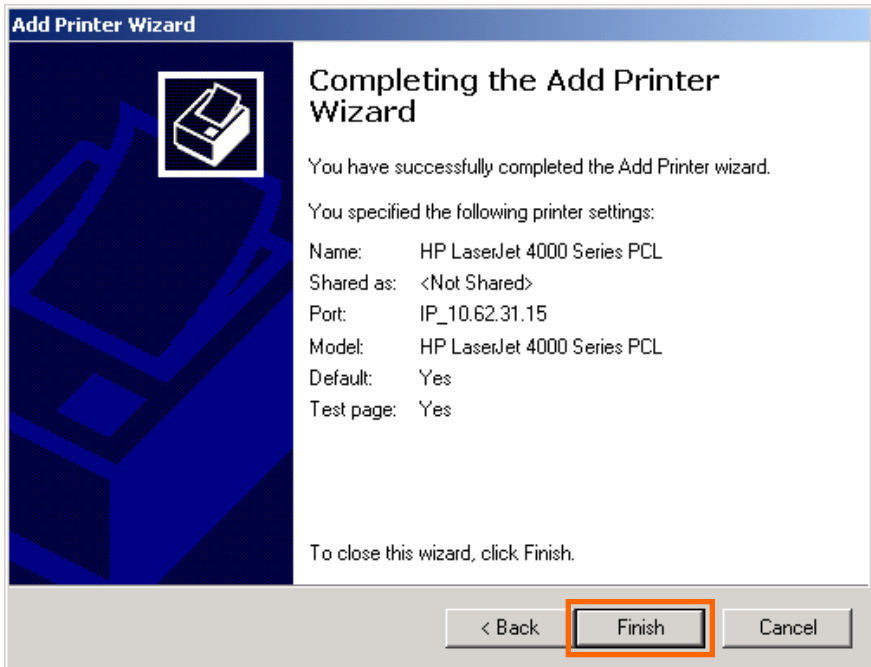
Select the first option, [**Do not share this printer**], and click **Next**.



Select **Yes** to print a test page, click **Next**.

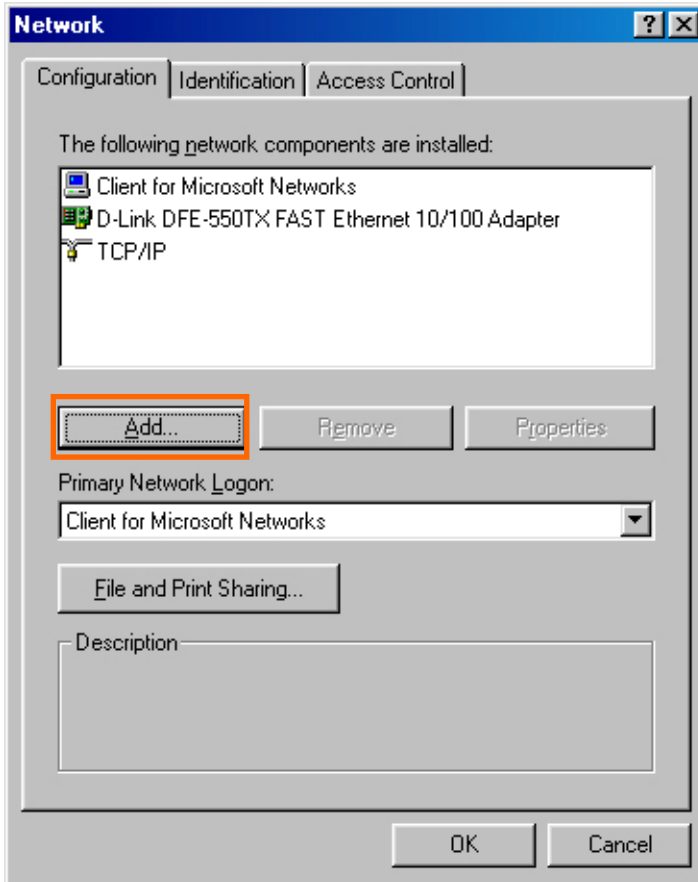


Click **Finish**. The printer is now ready for printing with Windows 2000 on your network.

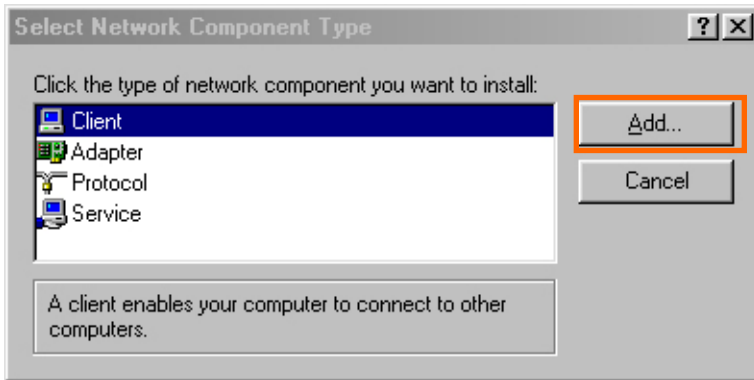


TCP/IP Printing for Windows 98SE/ME

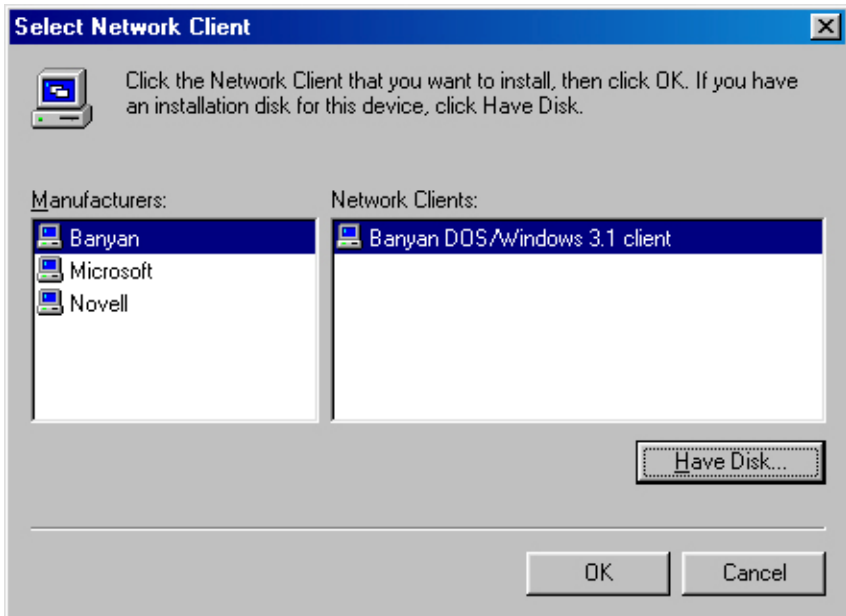
Go to **Start** → **Settings** → **Control Panel**. Double click on **Network**, and then click **Add**.



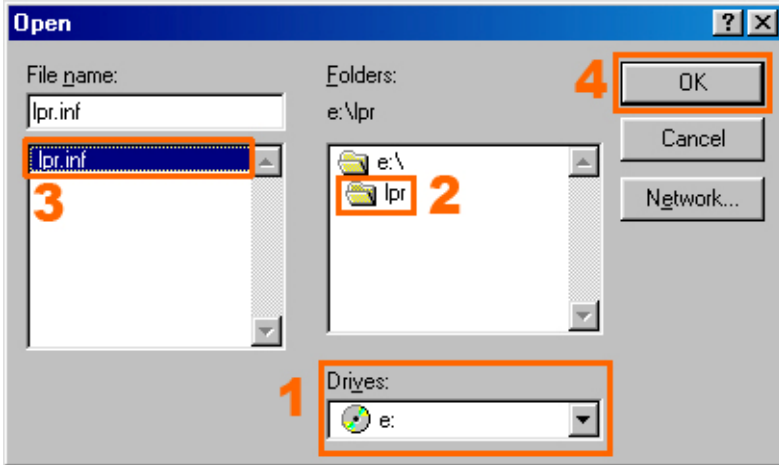
Highlight **Client** and click **Add**.



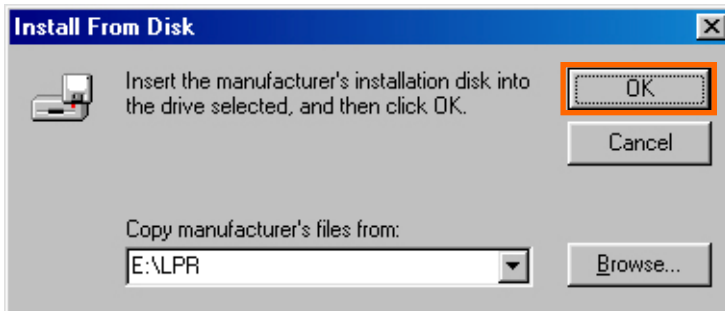
At this screen, click **Have Disk**.



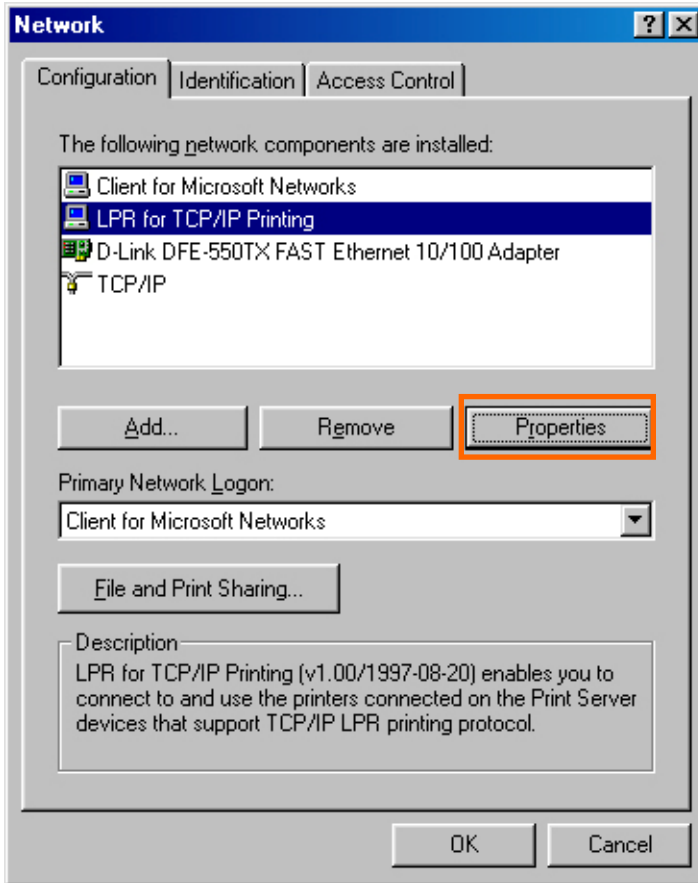
1. Insert the DPR-1020 CD into your CD-ROM drive. Select the CD's drive letter from the drop-down box.
2. Double-click on the folder **lpr**.
3. Select **lpr.inf** to highlight it.
4. Click **OK**.



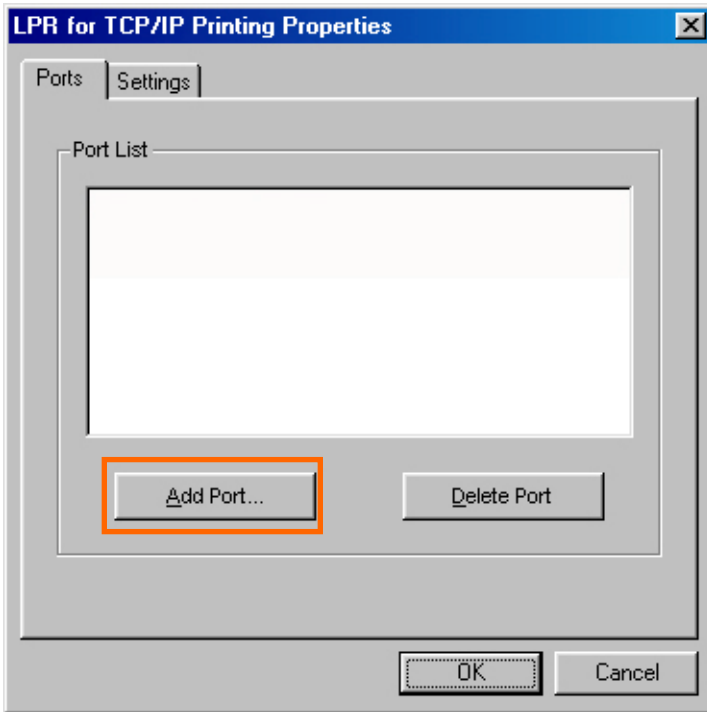
Click **OK** to confirm the location of the file.



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

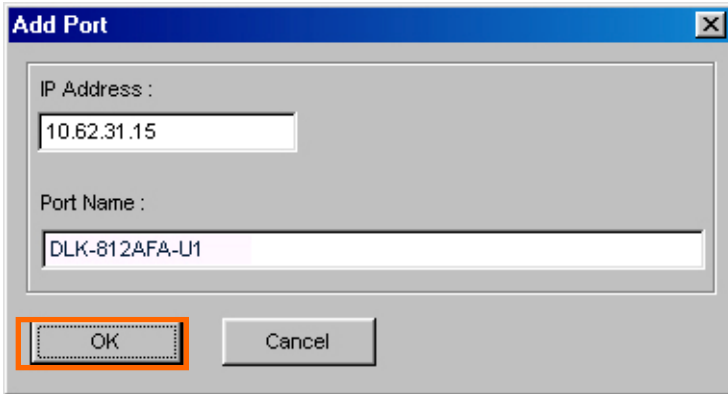


Click **Add Port**.



Type in the IP address and Port Name of the MFP server, this information can be found in the **PRINTER SERVER STATUS** and **PRINTER STATUS** screens of the MFP server's Web configurator. Click **OK**.

NOTE: The IP Address and Port Name here are just examples only.



Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020	Setup	Advanced	Maintenance	Status	Help
Device Info	DEVICE INFO				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 status of your printing tasks, etc.
Network	The following shows the general system information.				
Print Log	PRINT SERVER STATUS				
Printer Off line <input type="button" value="Reboot"/>	Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17				

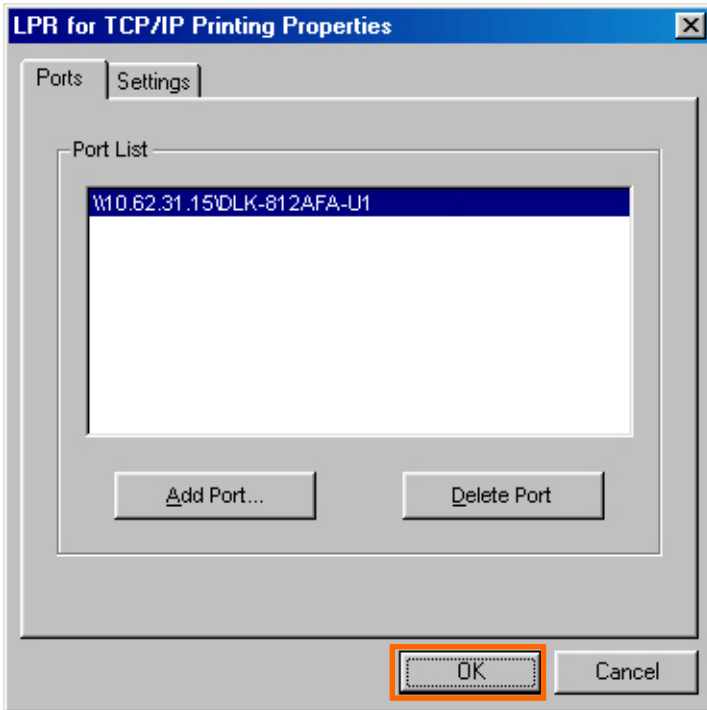
Product: DPR-1020

Firmware Version: 1.00

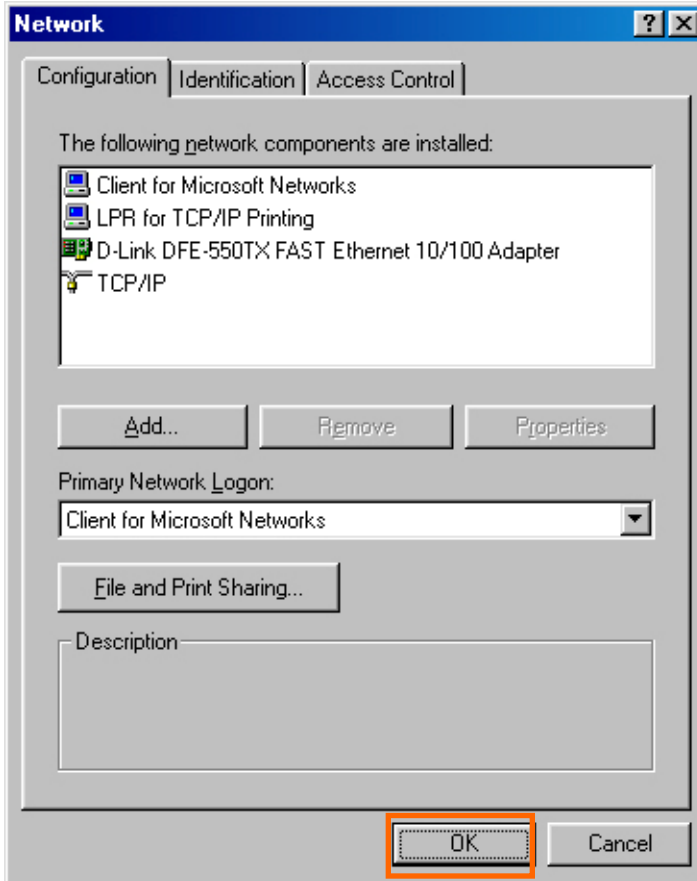


DPR-1020	Setup	Advanced	Maintenance	Status	Help
<p>Device Info</p> <p>Network</p> <p>Print Log</p> <p> Printer Off line</p> <p>Reboot</p>	<p>DEVICE INFO</p> <p>The following shows the general system information.</p> <hr/> <p>PRINT SERVER STATUS</p> <p>Server Name : dlink-812AFA Model : DPR-1020 Firmware Version : 1.00 (2008-09-03) MAC Address : 00 FF 74 81 2A FA IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:00:17</p> <hr/> <p>PRINTER STATUS</p> <p>USB : Printer Name : dlk-812AFA-U1 Printer Speed : Off line Printer Status : Off line</p> <p>Total Print Jobs : 0 Total Print Size : 0 KBytes</p>				<p>Helpful Hints..</p> <p>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.</p> <p>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.</p> <p>LAN Status: You can monitor the networking status in this field, including the network connection, speed, and the packets status.</p>

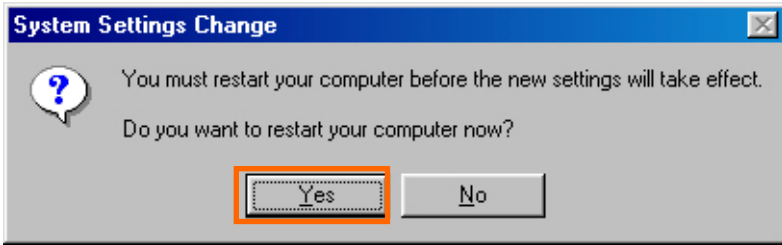
The IP Address and Port Name will be displayed in the following screen (The IP address and port name in the screen below is for example only). Click **OK**.



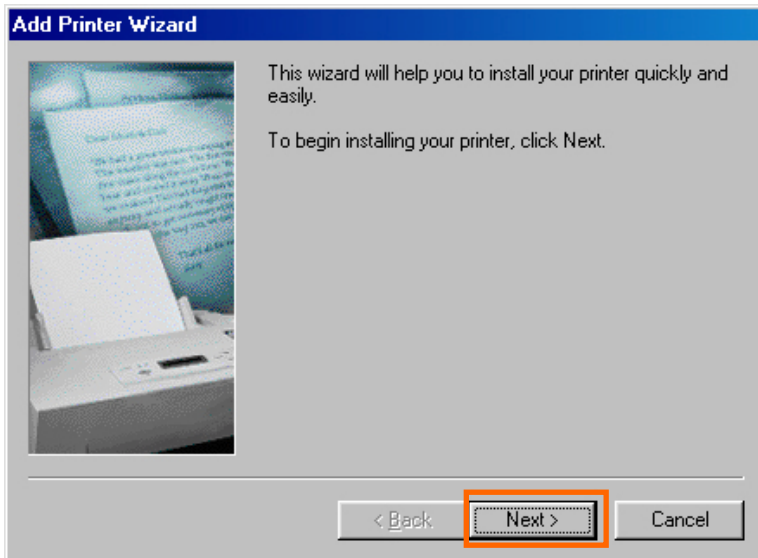
Click **OK**.



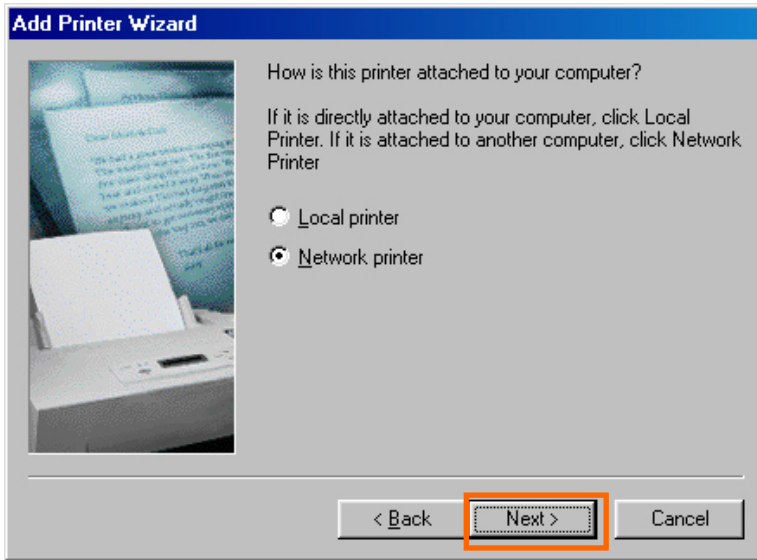
Windows will ask to restart. Click **Yes**.



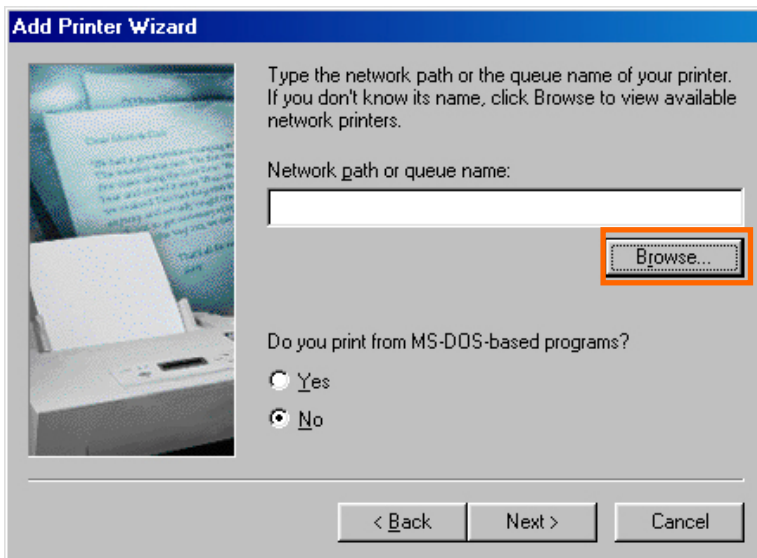
Once your computer has rebooted, click on **Start → Settings → Printers → Add Printer**. When the Add Printer Wizard screen appears, click **Next**.



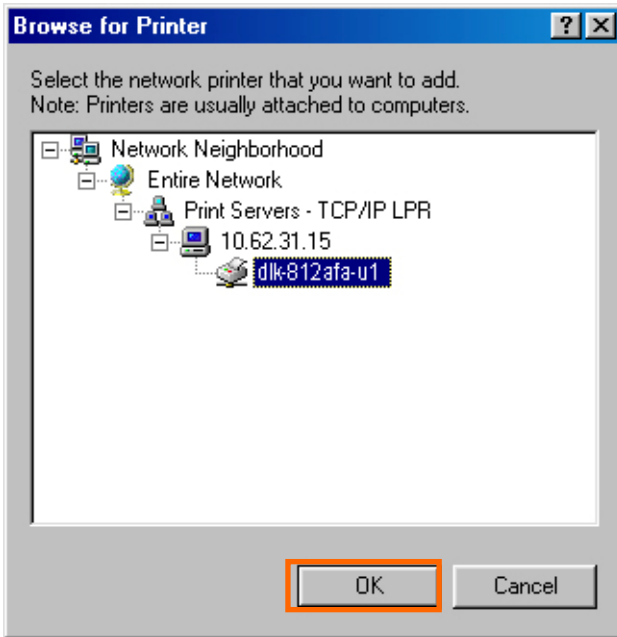
Select **Network Printer** and click **Next**.



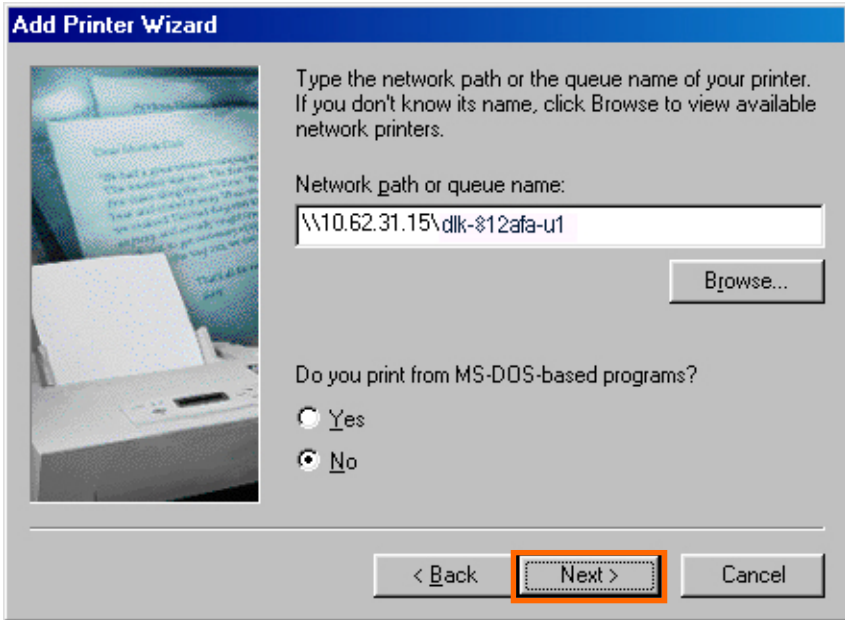
Type in the path if you know it; otherwise, click **Browse**.



At the following screen, browse for the printer port and highlight the port (e.g. dlink-1D6FA3 in this manual). Click **OK**.

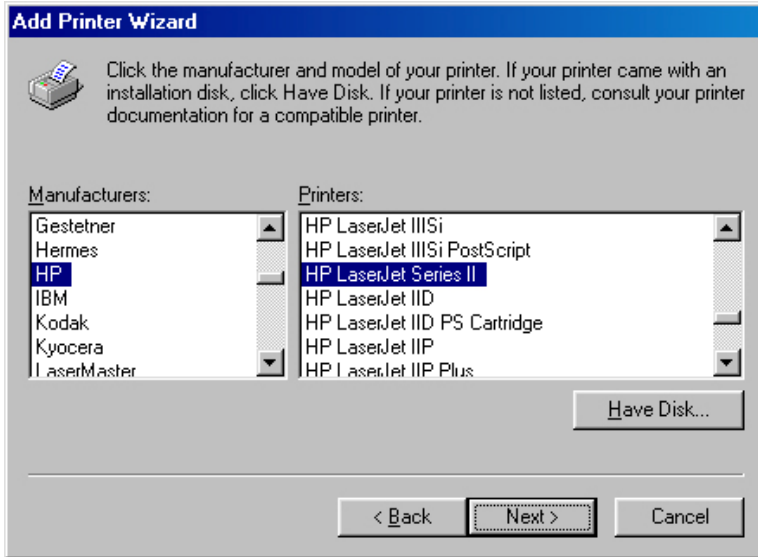


If the network path is not specified, type in the **IP Address** and **Port Name** of the MFP server (like in the example below). Select **Yes** or **No** to enable or disable printing from MS-DOS based programs. Click **Next**.

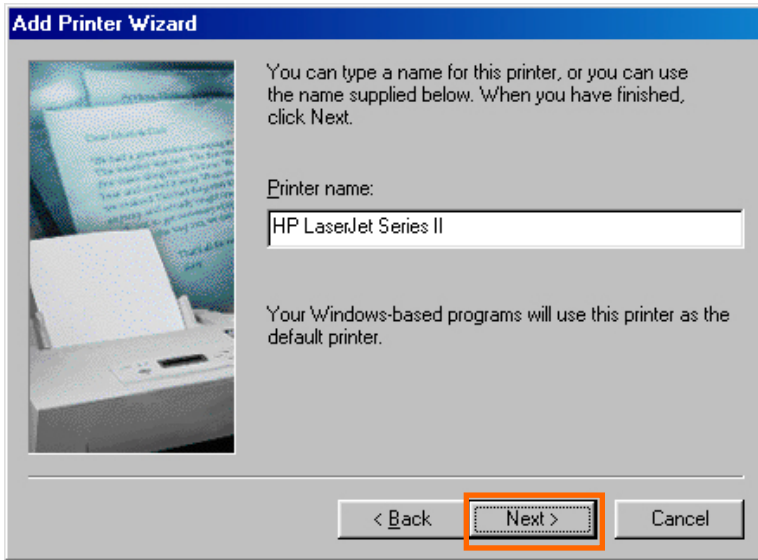


In the next screen highlight the printer you wish to add. If the printer is not on the list, click **[Have Disk]** and insert the printer driver disk that came with your printer to install the printer drivers.

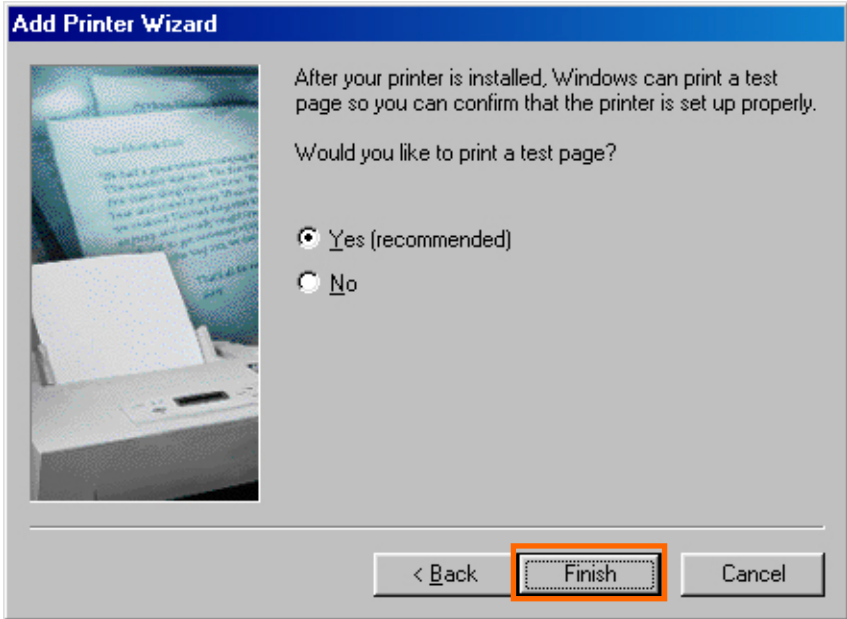
Click **Next**



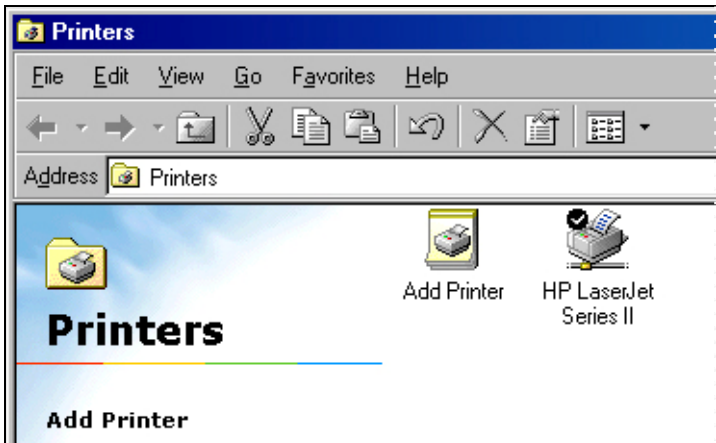
Click **Next**.



Select **Yes** to print a test page. Click **Finish**.



To check whether the printer is installed, go to **Start → Settings → Printers**.



Unix/Linux Printing

Printing Text Files from 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 from 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 hp51
```

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

- ◆ `lp=` The `lp` entry is used to specify a local printer device. Since the printer is a remote printer, this entry should be blank.

- ◆ **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 delete 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 **lp** 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 Manager** 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 `lp` command to print files to the printer. Consult your Solaris documentation for details.

Printing from Red Hat Linux

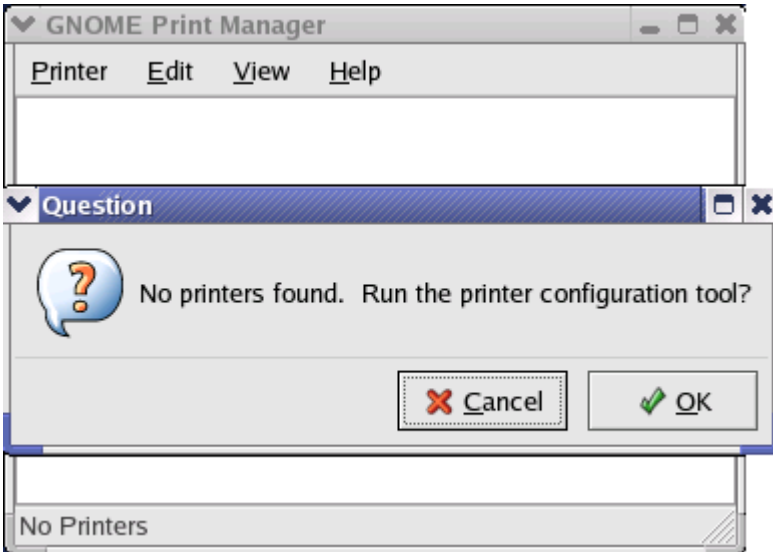
Adding a Printer



1. Click the printer icon at the bottom of the desktop.



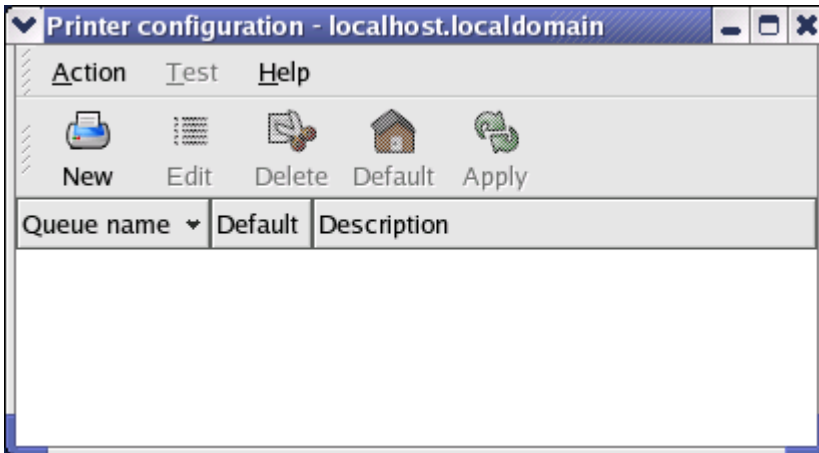
2. Since no printer is set up so far, a prompt appears asking to run the printer configuration tool.



3. Click the **OK** button in the pop-up dialogue box to open the main **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”.

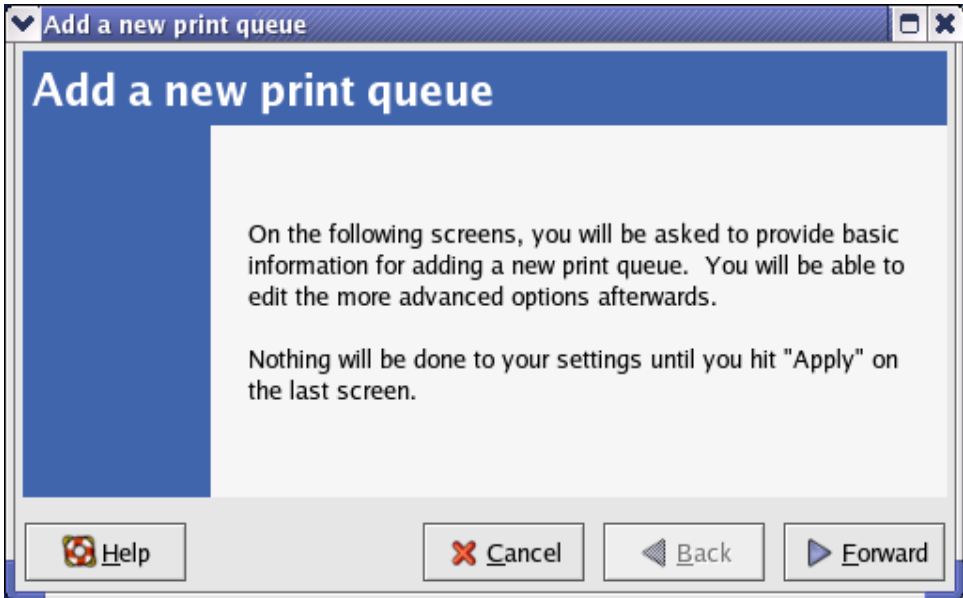


4. Click the **New** button **New** in the **Printer configuration tool** menu.

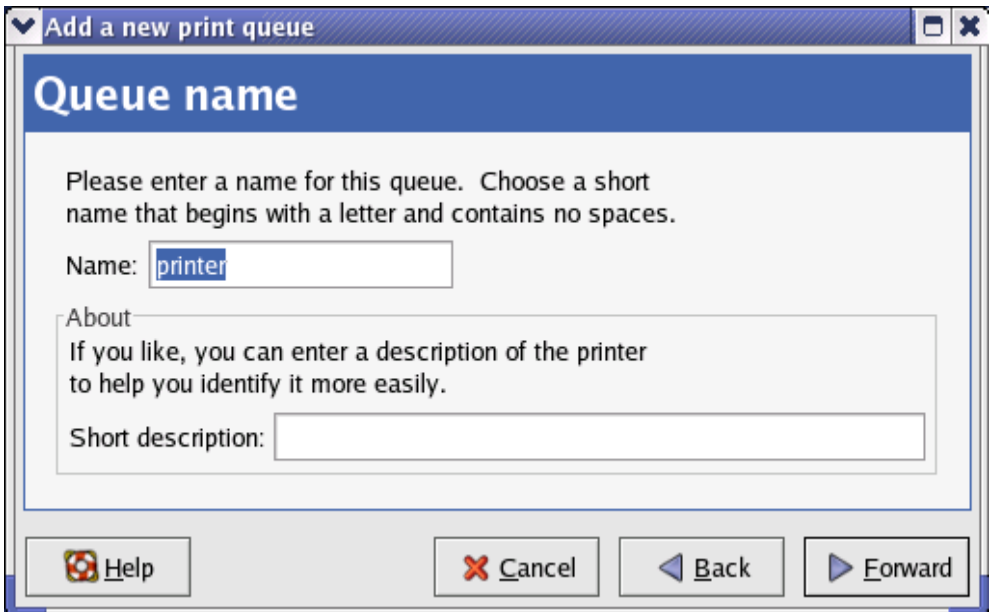


Printer Configuration Tool menu

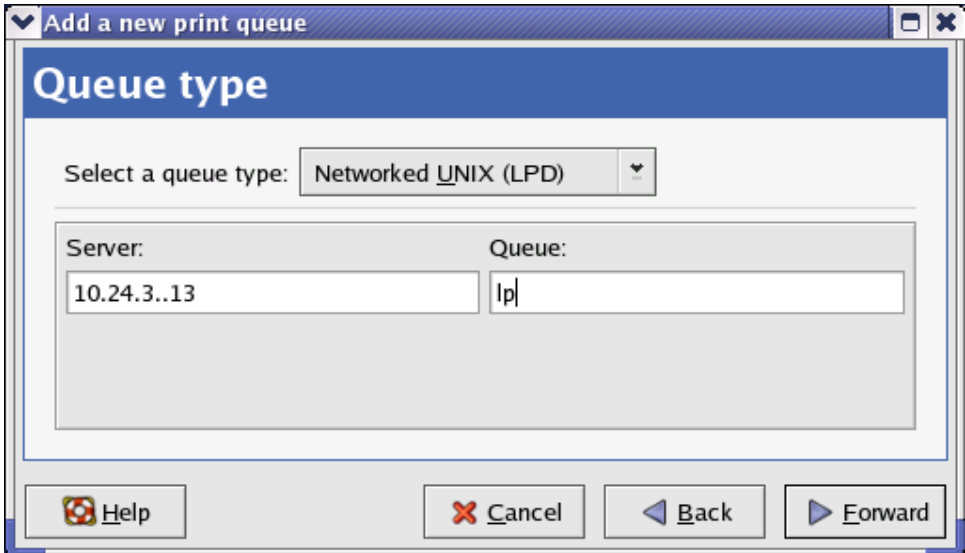
5. The **Add a new print queue** menu appears, click **Forward** to continue.



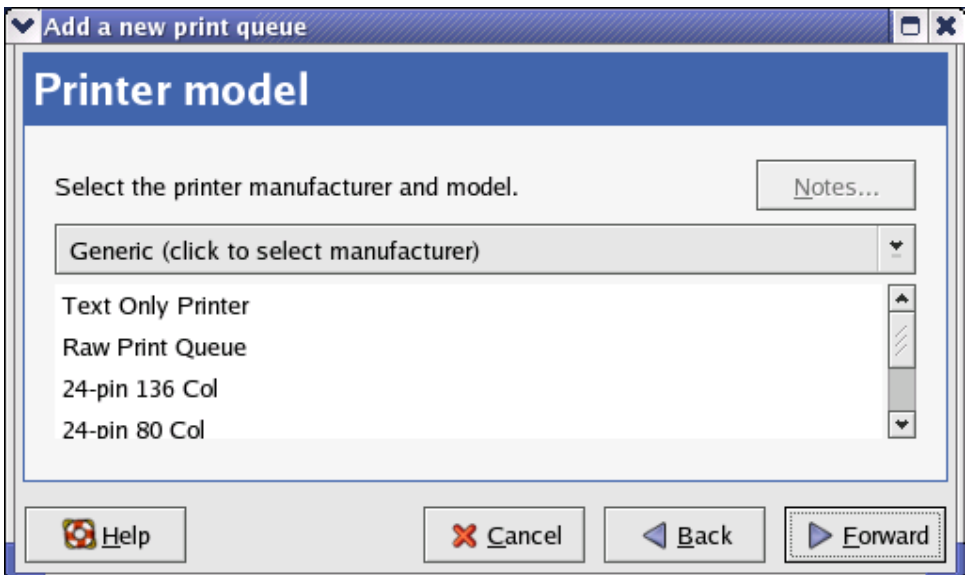
6. Enter a unique name for the printer in the **Name** text field. The printer name cannot contain spaces and must begin with a letter. The printer name may contain letters, numbers, dashes (-), and underscores (_). Optionally, enter a short description for the printer, which can contain spaces. Then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



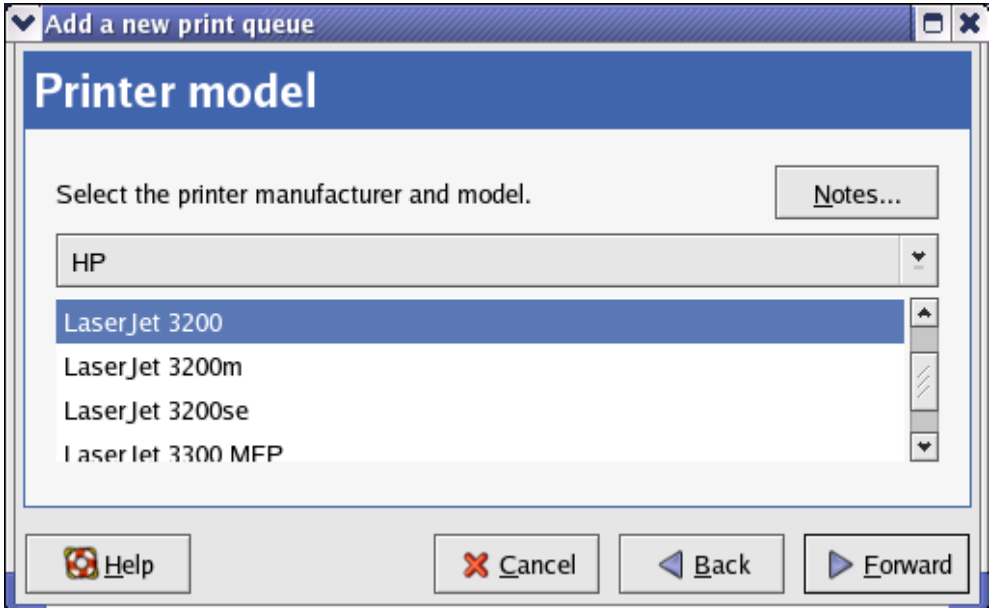
7. Select Networked UNIX (LPD) in the **Select a queue type** drop-down list, enter the IP address of the print server to which the printer is attached in the **Server** field, and type the port name in **Queue** field. Click **Forward** to select the type of printer.



8. Select the printer model.

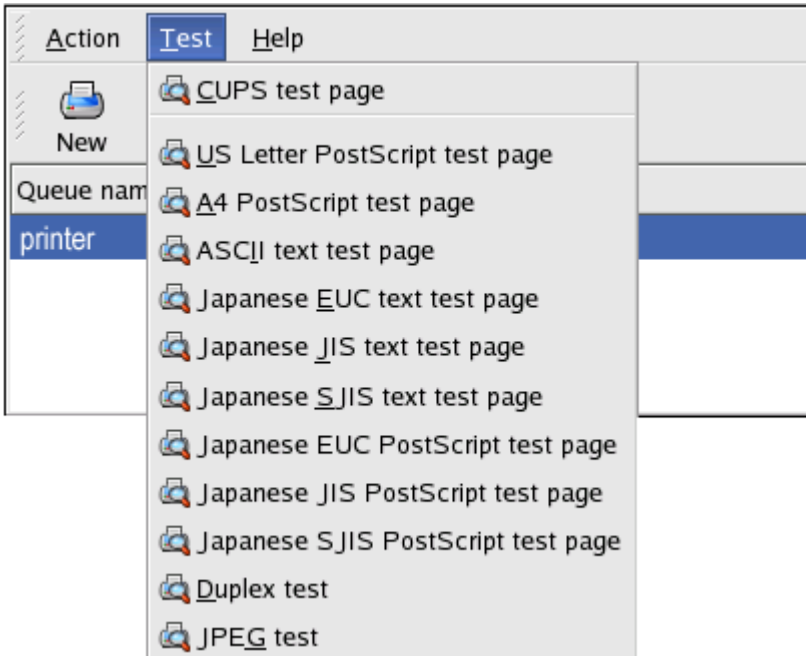


If a printer has not been detected automatically, select the model from the list. You can manually select the name of the printer manufacturer from the **Generic (click to select manufacturer)** drop-down menu, and then the printer model from the sub-list. Click **Forward** to continue.



9. The last step is to confirm your printer configuration. Click the **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** menu.



Setting up Printing in Mac OS X Tiger (10.4.9)

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.



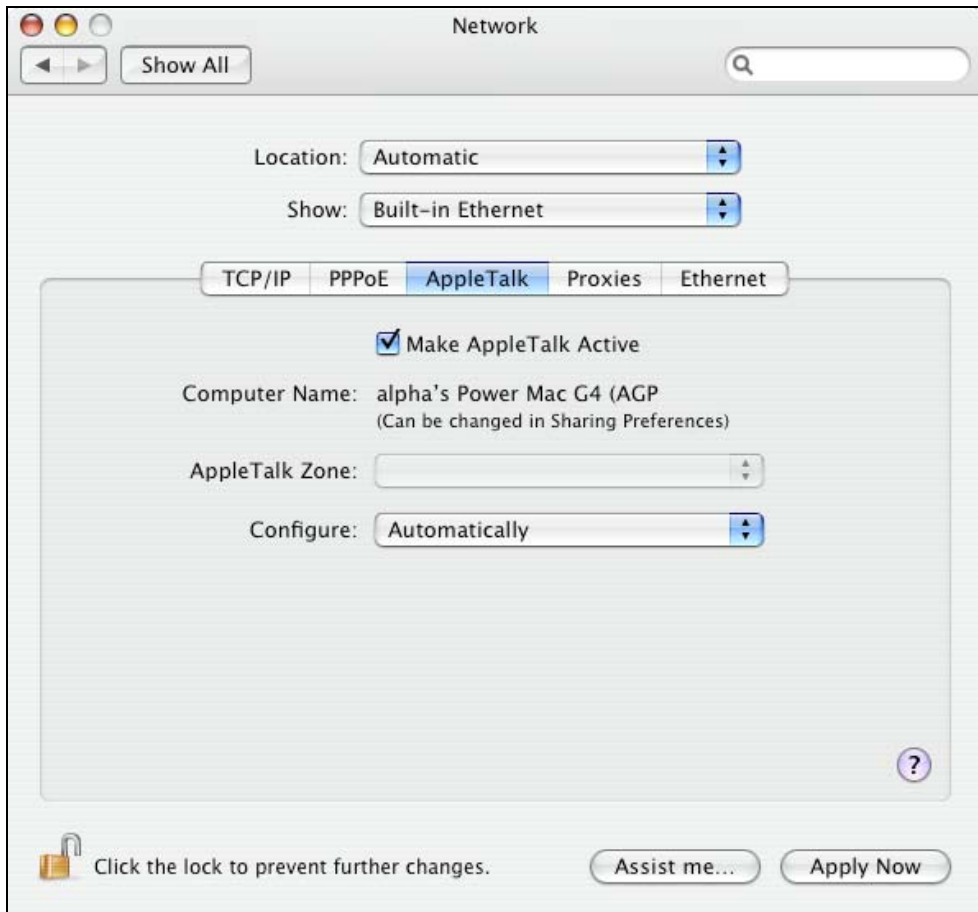
Click on this icon in your Dock to open your **System Preferences** screen as below.



Click on the **Network** icon to view the menu below.

Setting up Printing in Mac OS X Tiger (10.4.9)

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



Adding a Printer

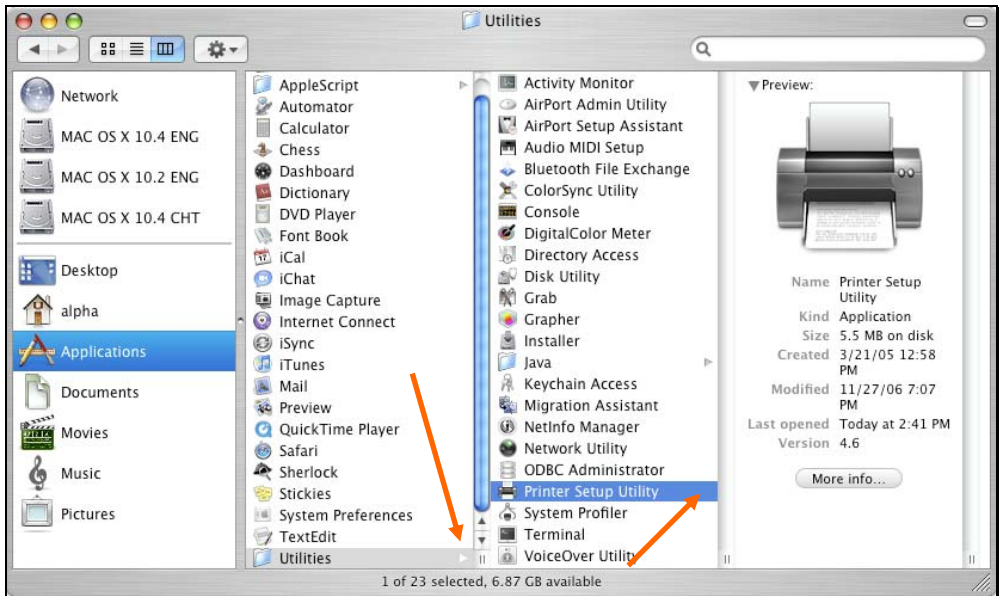
Use the **Go** menu at the top tool bar and open the **Utilities** folder.

Setting up Printing in Mac OS X Tiger (10.4.9)

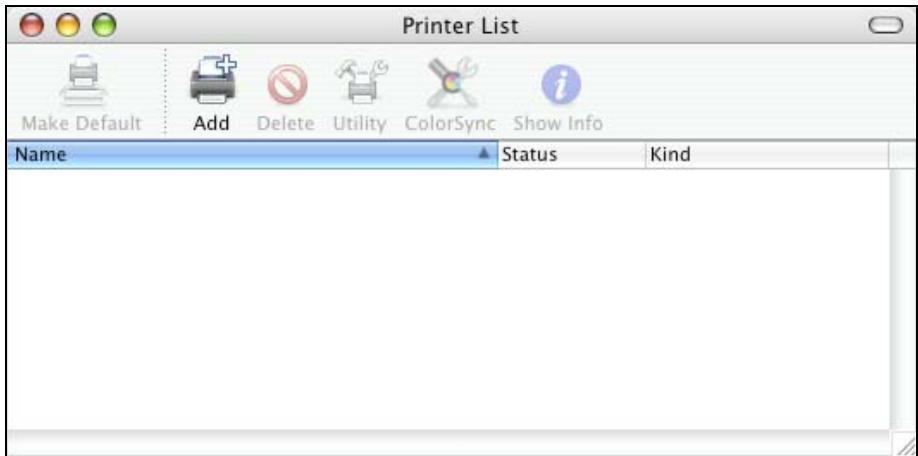


In the **Utilities** folder, find and select  **Printer Setup Utility** to see the **Printer List** dialog window.

Setting up Printing in Mac OS X Tiger (10.4.9)



Click **Add** button to open the **Printer Browser** screen.



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

1. AppleTalk

Setting up Printing in Mac OS X Tiger (10.4.9)

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

To add an Internet Printing Protocol, Line Printer Daemon or HP Jet Direct – Socket



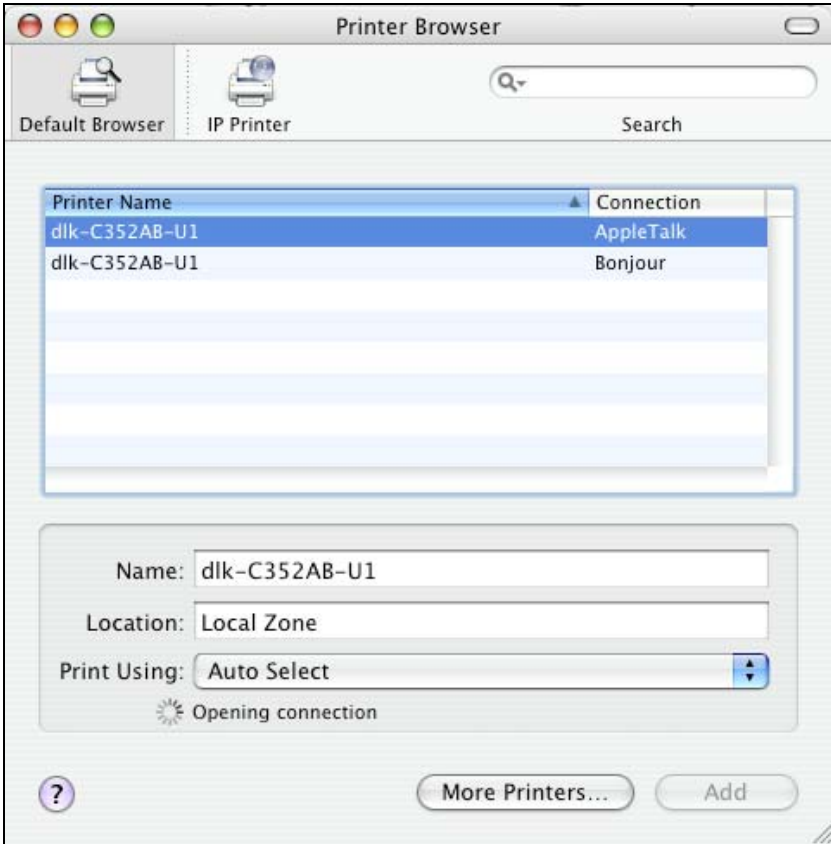
enabled printer, click on the **IP Printer** button and follow the instructions to add an IP Printer in the “Adding an IP printer” section.

AppleTalk-enabled or Bonjour-enabled Printers



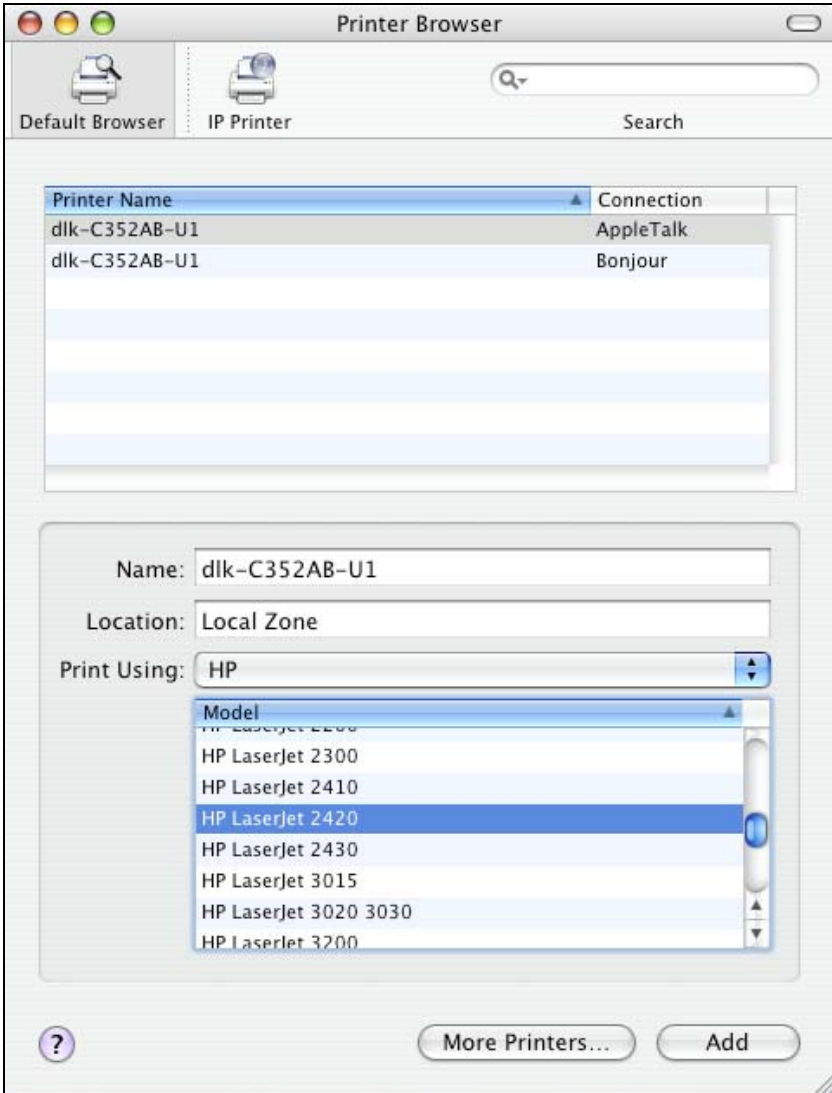
To add an AppleTalk-enabled or Bonjour-enabled printer, click the button in the **Printer Browser** menu.

Setting up Printing in Mac OS X Tiger (10.4.9)



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-C352AB-U1. By default the **Printer Browser** will use **Auto Select** for **Print Using**. This may also be manually selected in the **Print Using** drop-down list box by brand and model. Click the **Add** button to exit the **Printer Browser** window and implement the new setting.

Setting up Printing in Mac OS X Tiger (10.4.9)



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 it is ready for use. Quit the **Printer Setup Utility** and start printing.

Setting up Printing in Mac OS X Tiger (10.4.9)



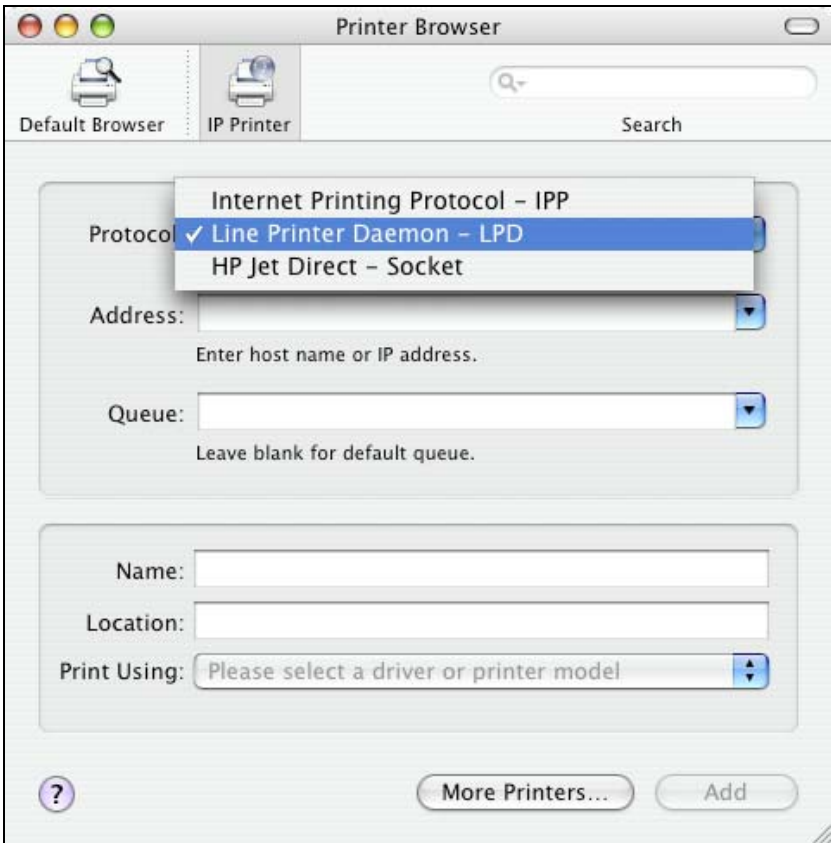
Adding an IP Printer

To add an Internet Printing Protocol, Line Printer Daemon, or HP Jet Direct – Socket



enabled printer, click the **IP Printer** button in the **Printer Browser** screen.

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



Type the IP Address of the printer. The name will appear in the **Name** field when the

Setting up Printing in Mac OS X Tiger (10.4.9)

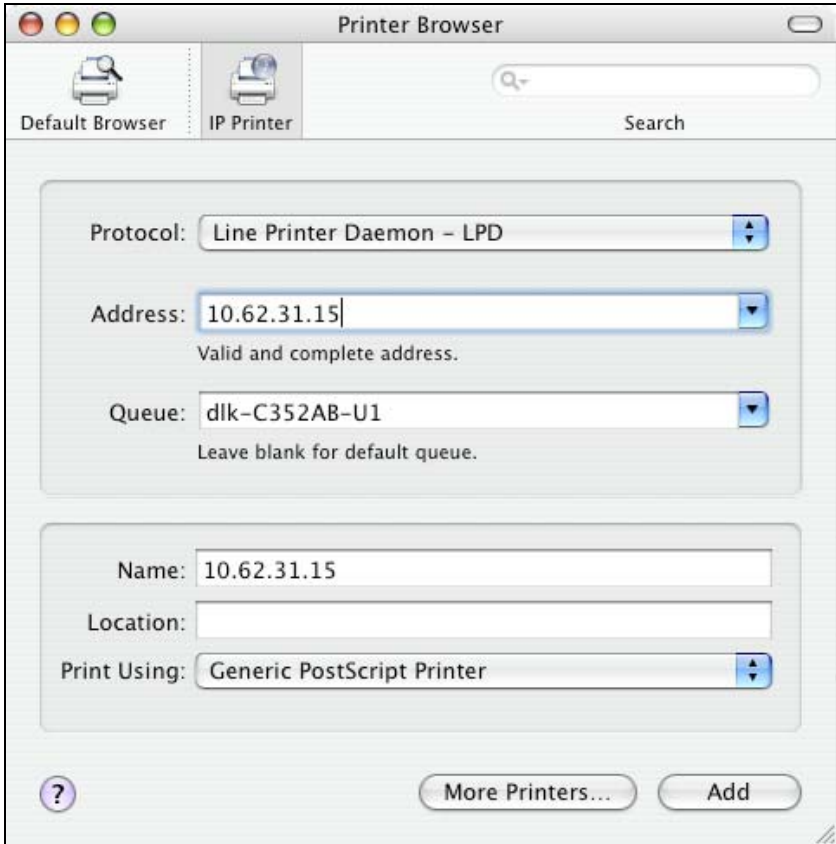
printer is found. The **Printer Browser** will indicate that it is verifying the address. If the printer is found, the **Printer Browser** will state “Valid and complete address” in the **Address** field.

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

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

To set up LPD Printing:

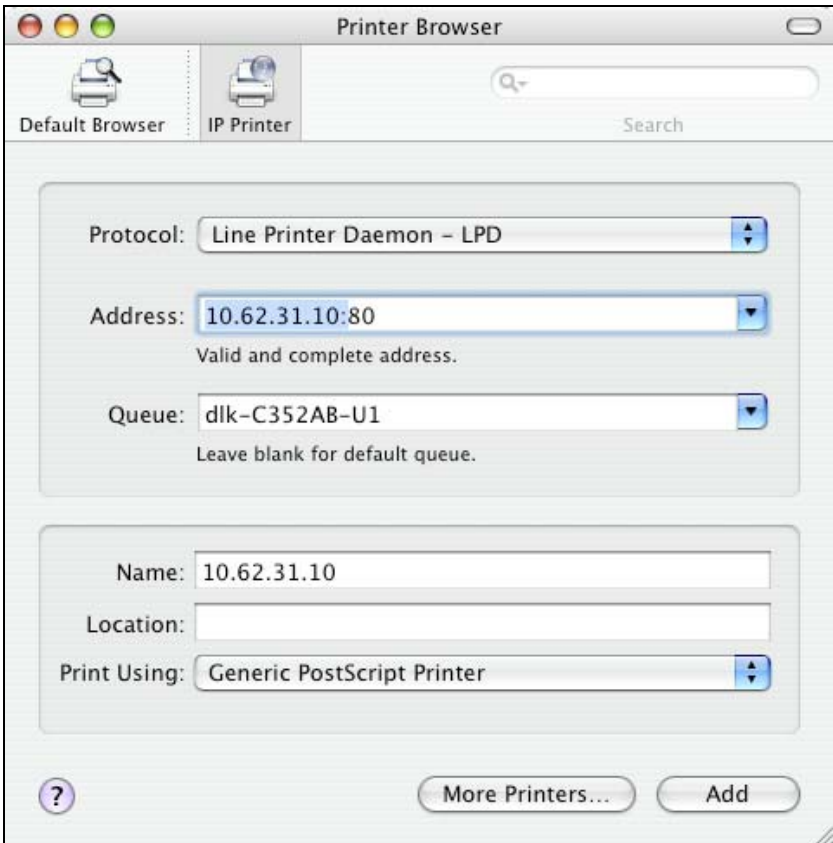
1. Enter the IP address of the print server to which the printer is attached in the **Address** field.
2. Type the port name in the **Queue** field.



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

To set up IPP Printing:

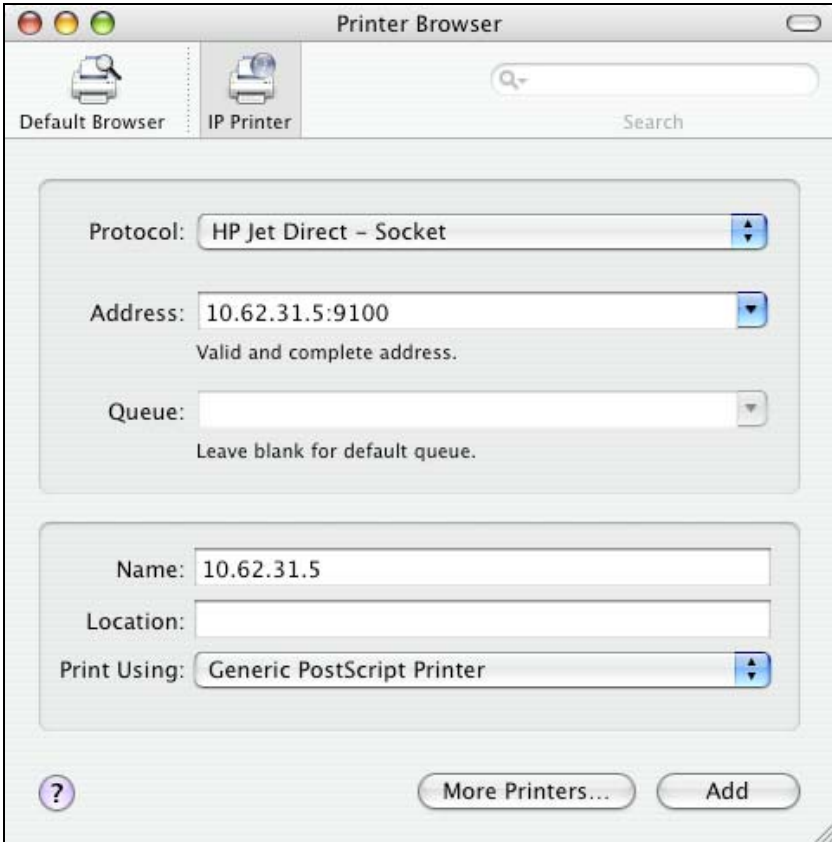
1. Enter the IP address of the print server to which the printer is attached in the **Address** field. After that, type “: 80” or “: **second port**” if the print server’s second port is enabled.
2. Type the port name in the **Queue** field.



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

To set up Socket Printing:

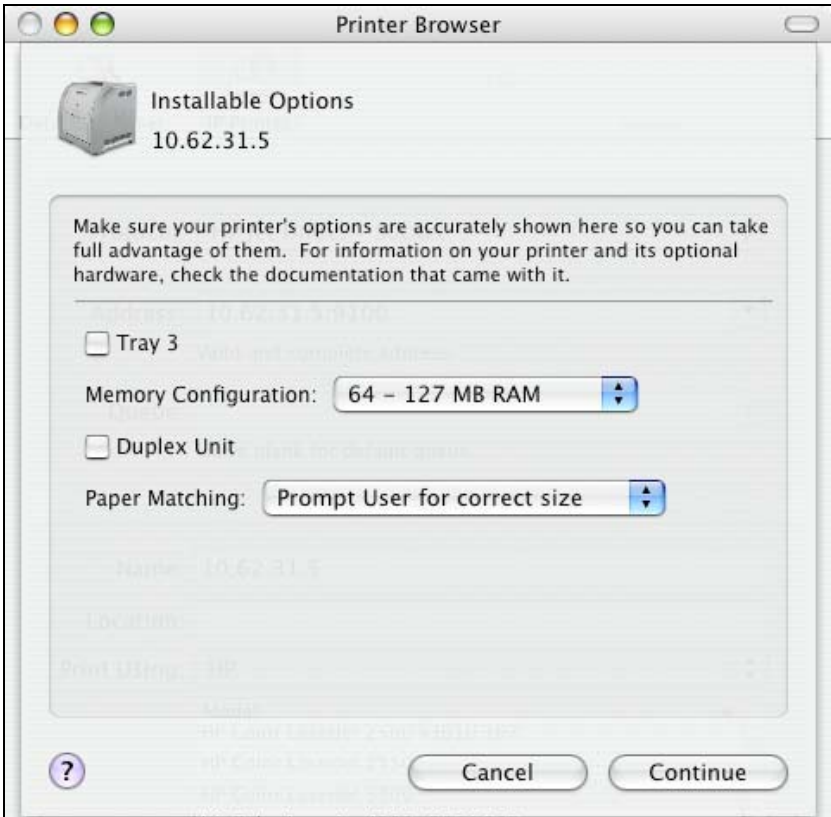
1. Enter the IP address of the print server to which the printer is attached in the **Address** field. After that, type “: 9100” for the USB port.
2. Keep the **Queue** field blank.



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

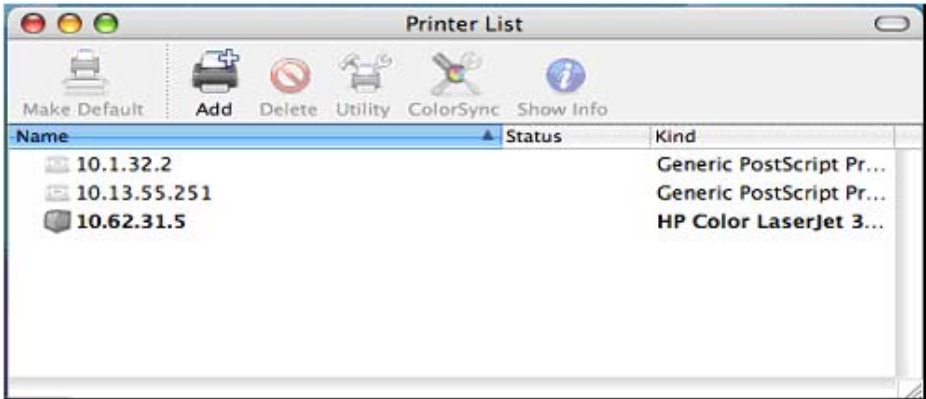
Setting up Printing in Mac OS X Tiger (10.4.9)

When the **Installable Options** pop-up window appears, click the **Continue** button.



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 it is ready for use. Quit the **Printer Setup Utility** and start printing.

Setting up Printing in Mac OS X Tiger (10.4.9)



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.

MFP 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 MFP 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 corresponds with the Print Server's IP Address in the same segment for the two devices to communicate.
- Launch the browser and enter the print server web configurator, select the ADVANCED tab, click the 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

Setting up AppleTalk Printing in Mac OS 9

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.

Setting up AppleTalk Printing in Mac OS 9

Product: DPR-1020 Firmware Version: 1.00

D-Link

DPR-1020 // Setup **Advanced** Maintenance Status Help

Advanced LAN
User Access
E-Mail Notification
SNMP
Printer On line
Reboot

NETWORK SETTING

Please do not change any of the following settings unless instructed to do so by your network administrator.

TCP/IP

DNS Server Address : 1. 0.0.0.0
2. 0.0.0.0

UPnP : Enable Disable

Mac Bonjour/Rendezvous : Enable Disable

Second HTTP Port : Enable Disable
Port Number : 0
(For Remote Web Configuration and IPP Printing)

MICROSOFT NETWORK

Workgroup : WORKGROUP

APPLETALK

AppleTalk Zone : *

USB : Chooser Name : dlk-812AFA-U1
Printer Type : LaserWriter
PostScript Level : Level 2
Font Group : Standard 35

Apply Settings Cancel

PRINT SERVER

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.

UPnP 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.

AppleTalk

Enter the **AppleTalk Zone** name in the box or a "*" if it is not divided into zones.

Chooser Name: This field displays the print server's port name.

Printer Type: Enter the printer type in this field.

PostScript Level: Select either Level 1 or Level 2 from the drop-down menu.

Font Group: Select the Font Group from the drop-down menu.

The exact procedure for selecting a PostScript printer connected to a MFP server

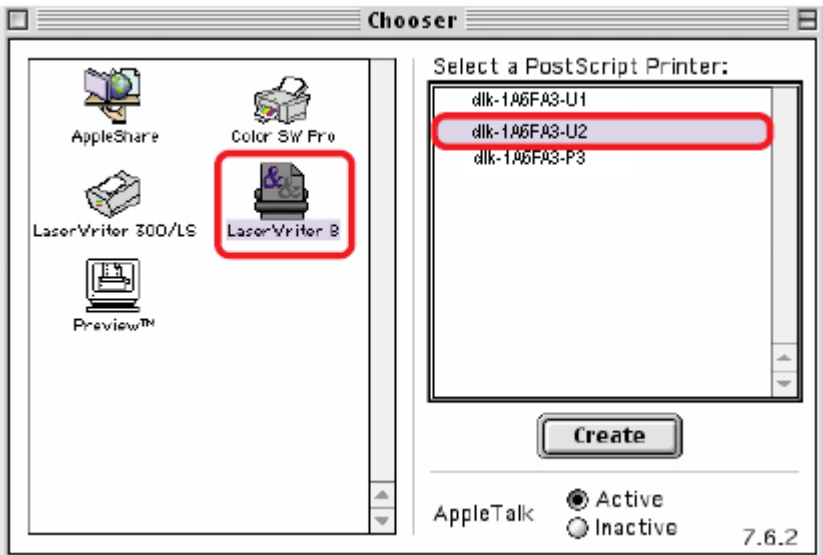
Setting up AppleTalk Printing in Mac OS 9

may vary slightly depending on what printer driver version you are using. The procedure described below assumes you are using LaserWriter 8.

To choose a printer connected to the MFP 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 follows.

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**.

Setting up AppleTalk Printing in Mac OS 9



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 2.0

Bi-directional Communication: Hewlett-Packard PJI (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, Link/Act, USB

Environmental and Physical

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

Dimensions: 67(W) x 25(H) x 106(D)mm

Weight: approx. 10.3 oz. (292g)

Operating Temperature: 32 to 104°F (0 to 40°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

Appendix: DPR-1020 Printer Compatibility List

MFP Supported on Windows 2000 SP4 and Windows XP

Printer	Printer List		Results (*Y=Pass, N=Fail, N/A=Non-available function)		
	Manufacturer	Model	Printing	Scan	Fax
1.	Avision	MF3100L	Y	Y	N/A
2.	Benq	CM3000	Y	Y	N/A
3.	Brother	MFC-210C	Y	Y	Y
4.	Brother	MFC-420CN	Y	Y	Y
5.	Brother	MFC-3240C	Y	Y	Y
6.	Brother	MFC-7220	Y	Y	Y
7.	Canon	PIXMA MP110	Y	Y	N/A
8.	Canon	PIXMA MP150	Y	Y	N/A
9.	Canon	PIXMA MP160	Y	Y	N/A
10.	Canon	PIXMA MP170	Y	Y	N/A
11.	Canon	PIXMA MP180	Y	Y	N/A
12.	Canon	PIXMA MP450	Y	Y	N/A
13.	Canon	PIXMA MP460	Y	Y	N/A
14.	Canon	PIXMA MP500	Y	Y	N/A
15.	Canon	PIXMA MP510	Y	Y	N/A
16.	Canon	PIXMA MP530	Y	Y	Y
17.	Canon	PIXMA MP600	Y	Y	N/A
18.	Canon	PIXMA MP810	Y	Y	N/A
19.	Canon	PIXMA MP830	Y	Y	Y
20.	Canon	PIXMA MP950	Y	Y	N/A
21.	Canon	PIXMA MP960	Y	Y	N/A

Appendix: DPR-1020 Printer Compatibility List

22.	Dell	Photo 926	Y	Y	N/A
23.	Dell	Photo 966	Y	Y	Y
24.	EPSON	PM-A970	Y	Y	N/A
25.	EPSON	PM-A920	Y	Y	N/A
26.	EPSON	PM-A820	Y	Y	N/A
27.	EPSON	PM-A720	Y	Y	N/A
28.	EPSON	PM-A950	Y	Y	N/A
29.	EPSON	PM-A890	Y	Y	N/A
30.	EPSON	PM-A750	Y	Y	N/A
31.	EPSON	PM-A650	Y	Y	N/A
32.	EPSON	STYLUS CX2900	Y	Y	N/A
33.	EPSON	Stylus CX3700	Y	Y	N/A
34.	EPSON	Stylus CX3900	Y	Y	N/A
35.	EPSON	Stylus CX4100	Y	Y	N/A
36.	EPSON	Stylus CX4700	Y	Y	N/A
37.	EPSON	Stylus CX4900	Y	Y	N/A
38.	EPSON	STYLUS CX5700F	Y	Y	N/A
39.	EPSON	STYLUS CX5900	Y	Y	N/A
40.	EPSON	STYLUS CX6900F	Y	Y	N/A
41.	EPSON	Stylus Photo RX530	Y	Y	N/A
42.	EPSON	Stylus Photo RX580	Y	Y	N/A
43.	EPSON	Stylus Photo RX590	Y	Y	N/A
44.	EPSON	Stylus Photo RX630	Y	Y	N/A
45.	EPSON	Stylus Photo RX650	Y	Y	N/A
46.	Fuji Xerox	WorkCentre 3119	Y	Y	N/A
47.	HP	Deskjet F380	Y	Y	N/A

Appendix: DPR-1020 Printer Compatibility List

48.	HP	PSC1315	Y	Y	N/A
49.	HP	Photosmart C1350	Y	Y	N/A
50.	HP	Photosmart C1610	Y	Y	N/A
51.	HP	Photosmart C3180	Y	Y	N/A
52.	HP	Photosmart C4180	Y	Y	N/A
53.	HP	Photosmart C5180	Y	Y	N/A
54.	HP	OfficeJet 4255	Y	Y	Y
55.	HP	OfficeJet 4355	Y	Y	Y
56.	HP	OfficeJet 5510	Y	Y	Y
57.	HP	OfficeJet 5610	Y	Y	Y
58.	HP	OfficeJet 6110	Y	Y	Y
59.	HP	OfficeJet 7210	Y	Y	Y
60.	HP	LaserJet 3050	Y	Y	Y
61.	Lexmark	x3470	Y	Y	N/A
62.	Lexmark	x5470	Y	Y	Y
63.	Samsung	SCX-4100	Y	Y	N/A
64.	Samsung	SCX-4200	Y	Y	N/A

MFP Supported on Windows Vista 32-bit

Printer	Printer List		Results (*Y=Pass, N=Fail, N/A=Non-available function)		
	Manufacturer	Model	Printing	Scan	Fax
1.	Avision	MF3100L	Y	Y	N/A
2.	Benq	CM3000	Driver not available		N/A
3.	Brother	MFC-210C	Y	Y	Y
4.	Brother	MFC-420CN	Y	Y	Y
5.	Brother	MFC-3240C	Y	Y	Y
6.	Brother	MFC-7220	Y	Y	Y
7.	Canon	PIXMA MP110	Y	Y	N/A
8.	Canon	PIXMA MP150	Y	Y	N/A
9.	Canon	PIXMA MP160	Y	Y	N/A
10.	Canon	PIXMA MP170	Y	Y	N/A
11.	Canon	PIXMA MP180	Y	Y	N/A
12.	Canon	PIXMA MP450	Y	Y	N/A
13.	Canon	PIXMA MP460	Y	Y	N/A
14.	Canon	PIXMA MP500	Y	Y	N/A
15.	Canon	PIXMA MP510	Y	Y	N/A
16.	Canon	PIXMA MP530	Y	Y	Y
17.	Canon	PIXMA MP600	Y	Y	N/A
18.	Canon	PIXMA MP810	Y	Y	N/A
19.	Canon	PIXMA MP830	Y	Y	Y
20.	Canon	PIXMA MP950	Y	Y	N/A
21.	Canon	PIXMA MP960	Y	Y	N/A
22.	Dell	Photo 926	Y	Y	N/A
23.	Dell	Photo 966	Y	Y	Y

Appendix: DPR-1020 Printer Compatibility List

24.	EPSON	PM-A970	Y	Y	N/A
25.	EPSON	PM-A920	Y	Y	N/A
26.	EPSON	PM-A820	Y	Y	N/A
27.	EPSON	PM-A720	Y	Y	N/A
28.	EPSON	PM-A950	Y	Y	N/A
29.	EPSON	PM-A890	Y	Y	N/A
30.	EPSON	PM-A750	Y	Y	N/A
31.	EPSON	PM-A650	Y	Y	N/A
32.	EPSON	Stylus CX2900	Y	Y	N/A
33.	EPSON	Stylus CX3700	Y	Y	N/A
34.	EPSON	Stylus CX3900	Y	Y	N/A
35.	EPSON	Stylus CX4100	Y	Y	N/A
36.	EPSON	Stylus CX4700	Y	Y	N/A
37.	EPSON	Stylus CX4900	Y	Y	N/A
38.	EPSON	STYLUS CX5700F	Y	Y	N/A
39.	EPSON	STYLUS CX5900	Y	Y	N/A
40.	EPSON	STYLUS CX6900F	Y	Y	N/A
41.	EPSON	Stylus Photo RX530	Y	Y	N/A
42.	EPSON	Stylus Photo RX580	Y	Y	N/A
43.	EPSON	Stylus Photo RX590	Y	Y	N/A
44.	EPSON	Stylus Photo RX630	Y	Y	N/A
45.	EPSON	Stylus Photo RX650	Driver not available		N/A
46.	Fuji Xerox	WorkCentre 3119	Y	Driver not available	N/A
47.	HP	Deskjet F380	Y	Y	N/A
48.	HP	PSC1315	Y	Y	N/A
49.	HP	Photosmart C1350	Y	Y	N/A

Appendix: DPR-1020 Printer Compatibility List

50.	HP	Photosmart C1610	Y	Y	N/A
51.	HP	Photosmart C3180	Y	Y	N/A
52.	HP	Photosmart C4180	Y	Y	N/A
53.	HP	Photosmart C5180	Y	Y	N/A
54.	HP	LaserJet 3050	Y	Y	Driver not available
55.	Lexmark	x3470	Y	Y	N/A
56.	Lexmark	x5470	Y	Y	Y
57.	Samsung	SCX-4100	Y	Y	N/A
58.	Samsung	SCX-4200	Y	Y	N/A

Other Printers from the brands listed above may also be supported.

For an updated compatibility list please visit: <http://support.dlink.com.tw>

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