

D-Link DP-G310

Wireless G Print Server

Manual

Rev. 01 (February, 2008)

D-Link[®]
Building Networks for People

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Package Contents



Contents of Package:

- D-Link DP-G310 Wireless USB Print Server
- Manual and Warranty on CD
- Printed Quick Installation Guide

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

System Requirements:

- A computer with an installed Ethernet adapter

- Windows Vista/XP/2000/NT4/ME/98SE/95
- Apple Mac OS 9.x to MAC OS X 10.4.x
- Linux, Solaris, SCO Unix, AIX
- Internet Explorer 6.0 or above; Netscape Navigator version 6.0 or above, with JavaScript enabled
- Printer must support required operating system

Introduction

The D-Link DP-G310 Print Server is an 802.11g Wireless USB 2.0 high-speed print server that also can connect to your Ethernet/Fast Ethernet network anywhere you wish to locate printer services. The DP-G310 manages the flow of print files from workstations or file servers to connected printers, delivering print jobs to printers much faster than a file server or a PC acting as a print server can. With one USB 2.0 port, the DP-310 can connect to almost any printer with a USB connector.

The DP-G310 includes easy-to-use software to install on most Windows-based networks. Protocol support for TCP/IP, NetBEUI, and AppleTalk are provided to ensure seamless connection to major networking Operating Systems.

The DP-G310 has a built in Web-Based management feature that allows users to easily configure and manage multiple print queues through TCP/IP. The DP-G310 also supports Telnet as an alternative method to configure the unit.

The DP-G310 improves network printing services in the following ways:

- The DP-G310 picks up the workload of managing print file traffic to its connected printers. This provides workload relief to your file servers, and allows the file servers full capacity to be used for file access or other direct services to network users. On peer-to-peer networks, workstations can print directly to the Print Server without increasing the load of another workstation or server.

- The DP-G310's USB printer port is USB 2.0 port, which can transmit to high-speed laser printer much faster than a PC's USB printer port. High-speed laser printer connected to the Print Server's USB port can be operated at their full

capacity.

■ Because the DP-G310 is very portable and inexpensive compared to a PC-based print server, and Print Server connects to your file servers through the network, printers can be deployed to locations of maximum convenience to users.

The DP-G310 offers extraordinary flexibility, operating with all major network operating systems and protocols:

■ **TCP/IP**

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

■ **NetBEUI**

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

■ **AppleTalk**

MacOS EtherTalk

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

External Features

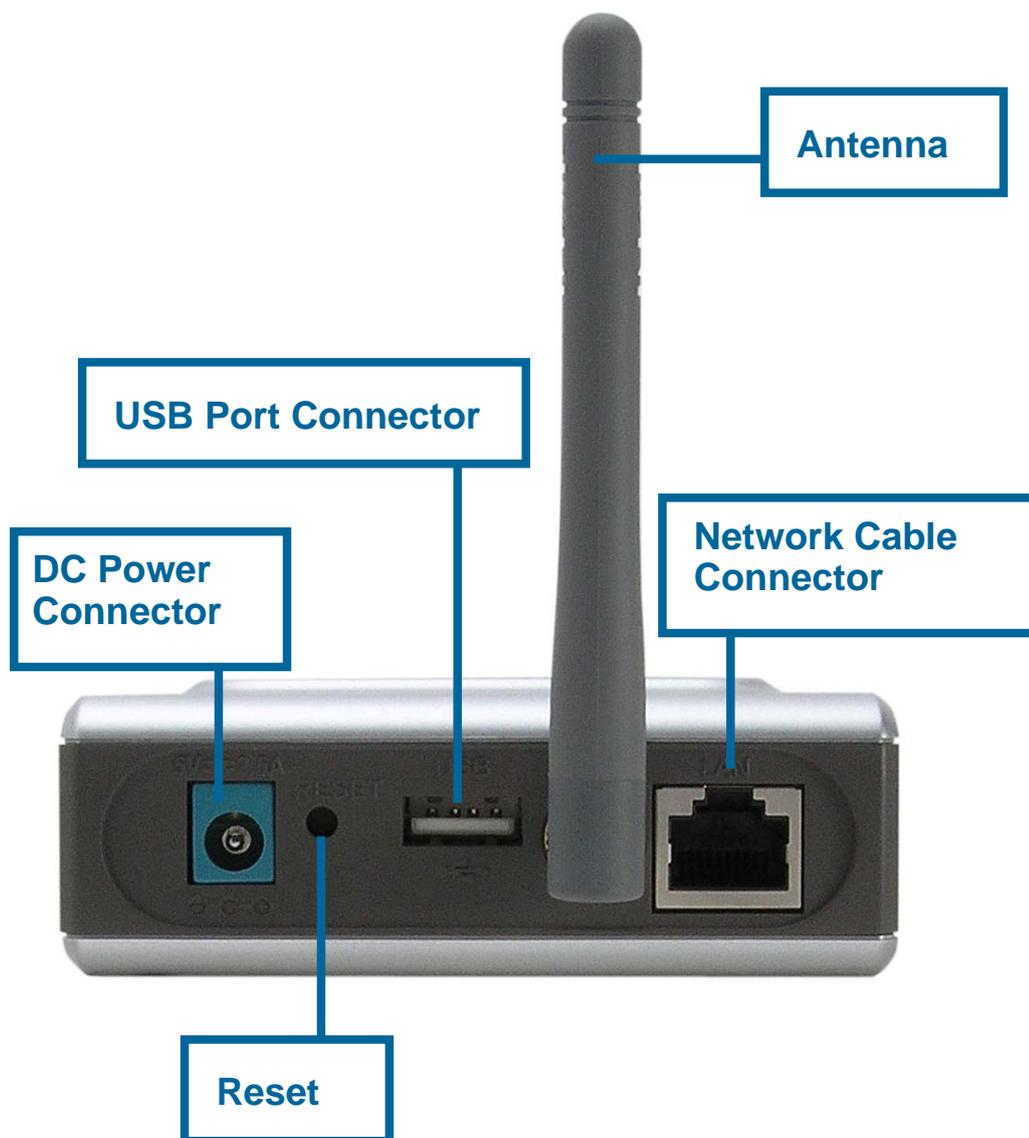
Port Connector

The DP-G310's USB port is located on its rear panel. The port is configurable using the Web Configuration Interface or the print server's Telnet interface. The Print Server's Web configuration permits users to configure settings through the web browser.

Default IP Address of DP-G310 is set as automatically getting from DHCP server or Router which build-in DHCP server.

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

Rear Panel Connectors



Network Cable Connector

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

network.

Antenna Connector

Connect the Wireless LAN antenna to the Antenna Connector to have better signaling of Wireless.

USB Port Connector

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

Reset Button

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

DC Power Connector

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

Front Panel

LED Indicators

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



■ Power

Steady green confirms that the Print Server is powered ON.

■ USB

Lights up to indicate printing activity.

■ LAN

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

■ WLAN

Steady green indicates a proper wireless network connection. The indicator blinks off briefly to indicate that the Print Server is receiving or transmitting from the network.

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

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. D-Link wireless products allow you to access the data you want, when and where you want. You will be able to enjoy the freedom that wireless networking brings.

A wireless LAN (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. WLANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network.

Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

People use wireless LAN technology for many different purposes:

■ **Mobility**

Productivity increases when people have access to data in any location within the operating range of the WLAN. Management decisions based on real-time information can significantly improve worker efficiency.

■ **Low Implementation Costs**

WLANs are easy to set up, manage, change and relocate. Networks that frequently change can benefit from WLANs ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.

■ **Installation and Network Expansion**

Installing a WLAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings. Wireless technology allows the network to go where wires cannot go – even outside the home or office.

■ **Scalability**

WLANs can be configured in a variety of topologies to meet the needs of specific applications and installations. Configurations are easily changed and range from peer-to-peer networks suitable for a small number of users to larger infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.

■ **Inexpensive Solution**

Wireless network devices are as competitively priced as conventional Ethernet network devices.

■ **Standards-Based Technology**

Based on the IEEE **802.11g** standard, the DP-G310 is interoperable with existing compatible 2.4GHz wireless technology with data transfer speeds of up to 54Mbps*

* Maximum wireless signal rate based on IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network

when used with other D-Link devices.

Wireless Installation Considerations

Installing Considerations

The D-Link DP-G310 lets you print through your network, using a wireless connection, from virtually anywhere within its operating range. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Keep the antenna of the DP-G310 in an upright position.
2. Keep the number of walls and ceilings between the DP-G310 and other network devices to a minimum. Each wall or ceiling can reduce your D-Link wireless products range from 3-90 feet (1-30 meters). Position your devices so that the number of walls or ceilings is minimized.
3. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters). Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
4. Building materials can impede the wireless signal. A solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials.
5. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical

overhead lower actual data throughput rate.

devices or appliances that generate extreme RF noise.

Setting up the DP-G310

Installing the Print Server

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

Follow this procedure to avoid complications at the configuration stage.

1. Confirm proper operation of the printers to be connected to the DP-G310.
2. When you have confirmed proper operation of the printer, switch its power **OFF**.
3. Confirm that your network is operating normally.
4. Connect the DP-G310 RJ-45 Connector to the network, using an Ethernet CAT5 cable.
5. While the printer is powered **OFF**, install the DP-G310 USB port connector into the USB port on the network printer using a USB cable.
6. Switch **ON** the connected printer.
7. Plug the AC power adapter's DC output plug into the DC 5V power socket on the rear panel of the Print Server.
8. Plug the power adapter into a power outlet. This will supply power to the Print Server, as it has no external power switch. The green Power LED on the Print Server's front panel should illuminate steadily, and the Print Server's Self-Test will proceed.

Power ON Self-Test

Every DP-G310 has been factory-tested to operate properly.

When the DP-G310 is powered ON, it also automatically performs a Self-Test on each of its major components. The final result of the Self-Test is signaled by the state of the USB LED indicator following the Self-Test. Preliminary to the actual component tests, the four LED indicators are tested to confirm their steady and flashing operation.

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

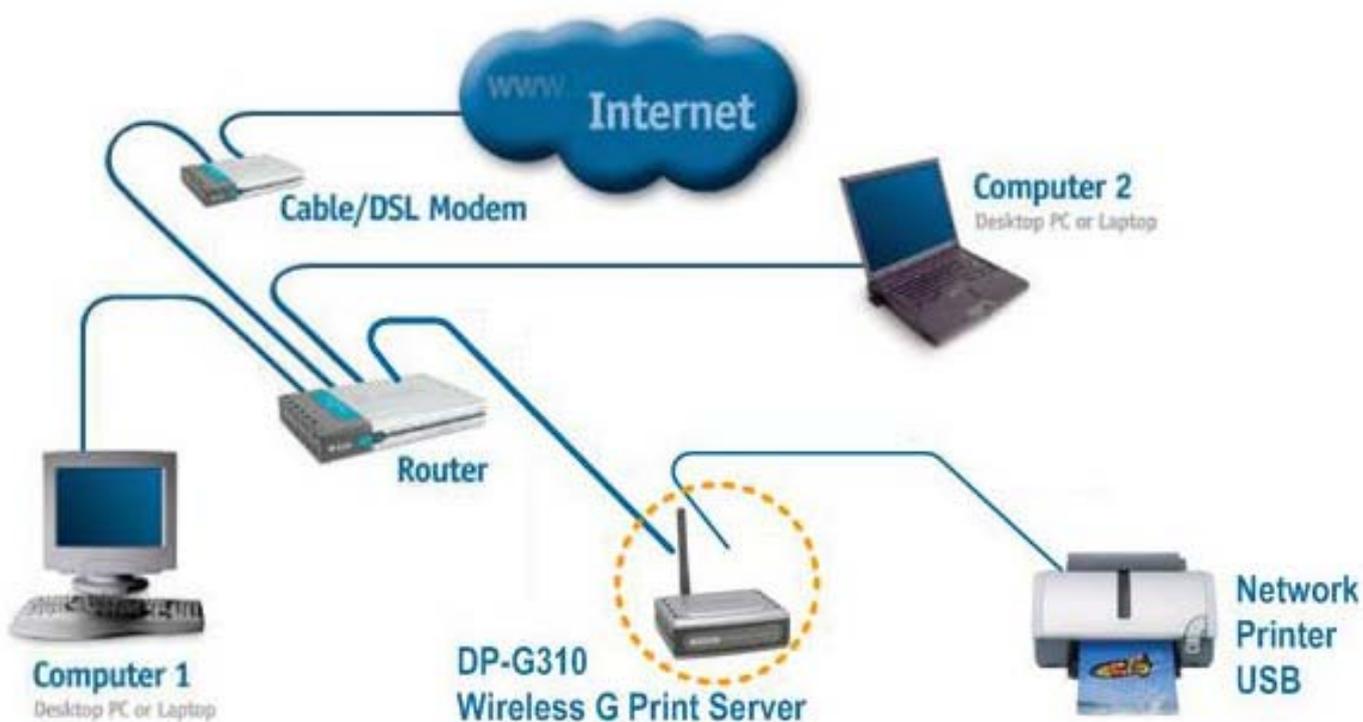
The actual component tests immediately follow the LED tests. A normal (no fault) result is signaled by a simultaneous flashing of the USB LED three times, followed by a quiescent state with the USB LED dark.

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

USB LED	Faulty Component
On	DRAM error
1 long 3 short	Flash Protected
1 long 5 short	Flash Erase/Program error
1 long 6 short	LAN Controller error
1 long 14 short	LAN MII error
1 long 15 short	WLAN Initial error
1 long 16 short	WLAN Access error
1 long 18 short	USB error
1 long 19 short	PCI error

Getting Started

Below is a sample network using the DP-G310. The DP-G310 has a built-in Web-based management feature that allows users to easily configure and manage multiple print queues through TCP/IP.



For a list of printers that are compatible with the DP-G310, please see the Appendix in this manual. The compatibility list is not comprehensive. Even if it is not included in the list, your printer may be compatible with the DP-G310.

Using PS-Wizard

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

Auto-Run Installation

Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program. The content of the Installation CD-ROM includes:

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

PS-Wizard

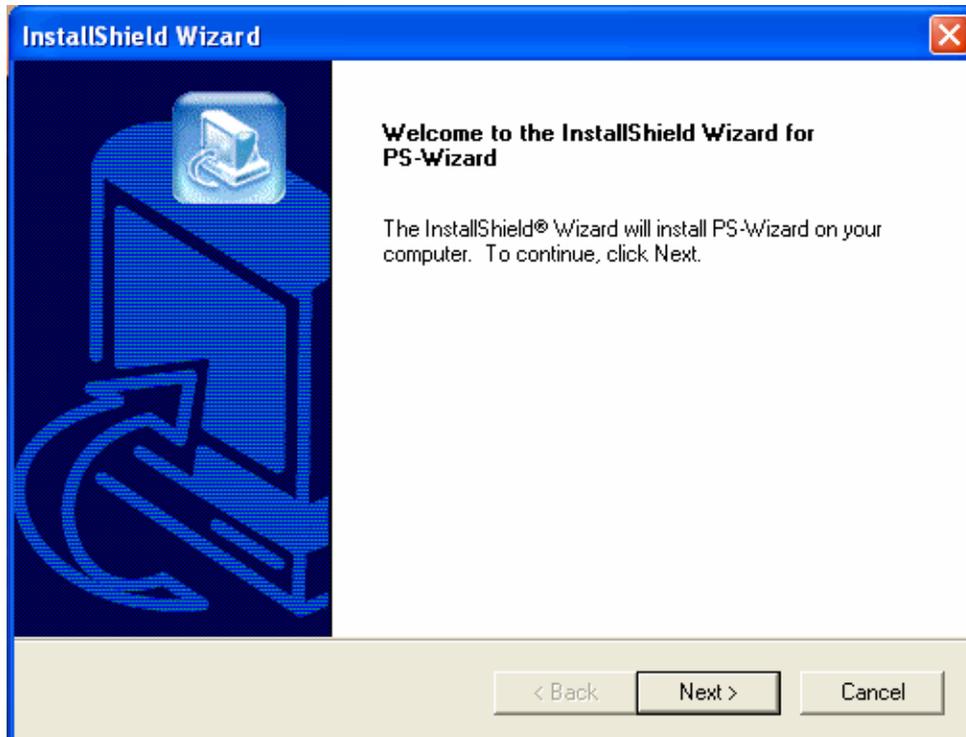
To avoid the conflict in your network, you can use **PS-Wizard** to change the related settings of your print server (such as the IP address) after finishing the installation of **PS-Wizard** on your PC.

Installing PS-Wizard

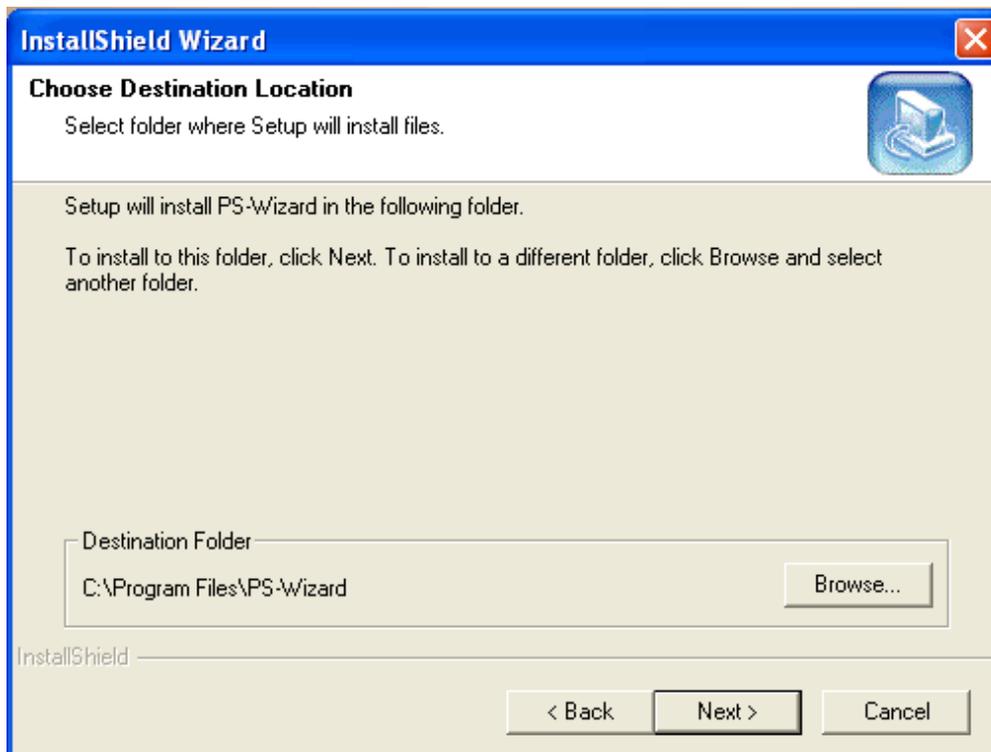
1. Click the **PSWizardSetup** icon of the Installation CD-ROM, and then the system will prompt a window for you to select a desired setup language from its pull-down menu. After done the selection of language, click **OK** button to continue.



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



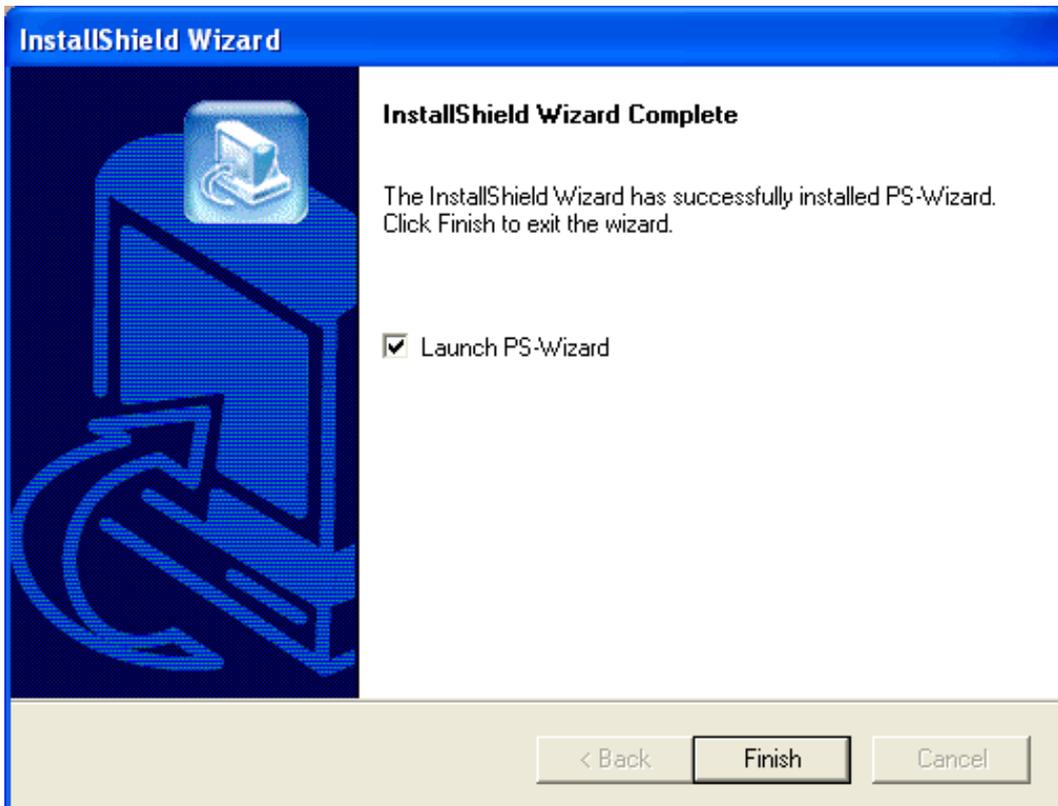
3. Specify the destination location by pressing **Browse...** button. Otherwise, leave the default setting and click **Next>** button to continue.



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



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



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

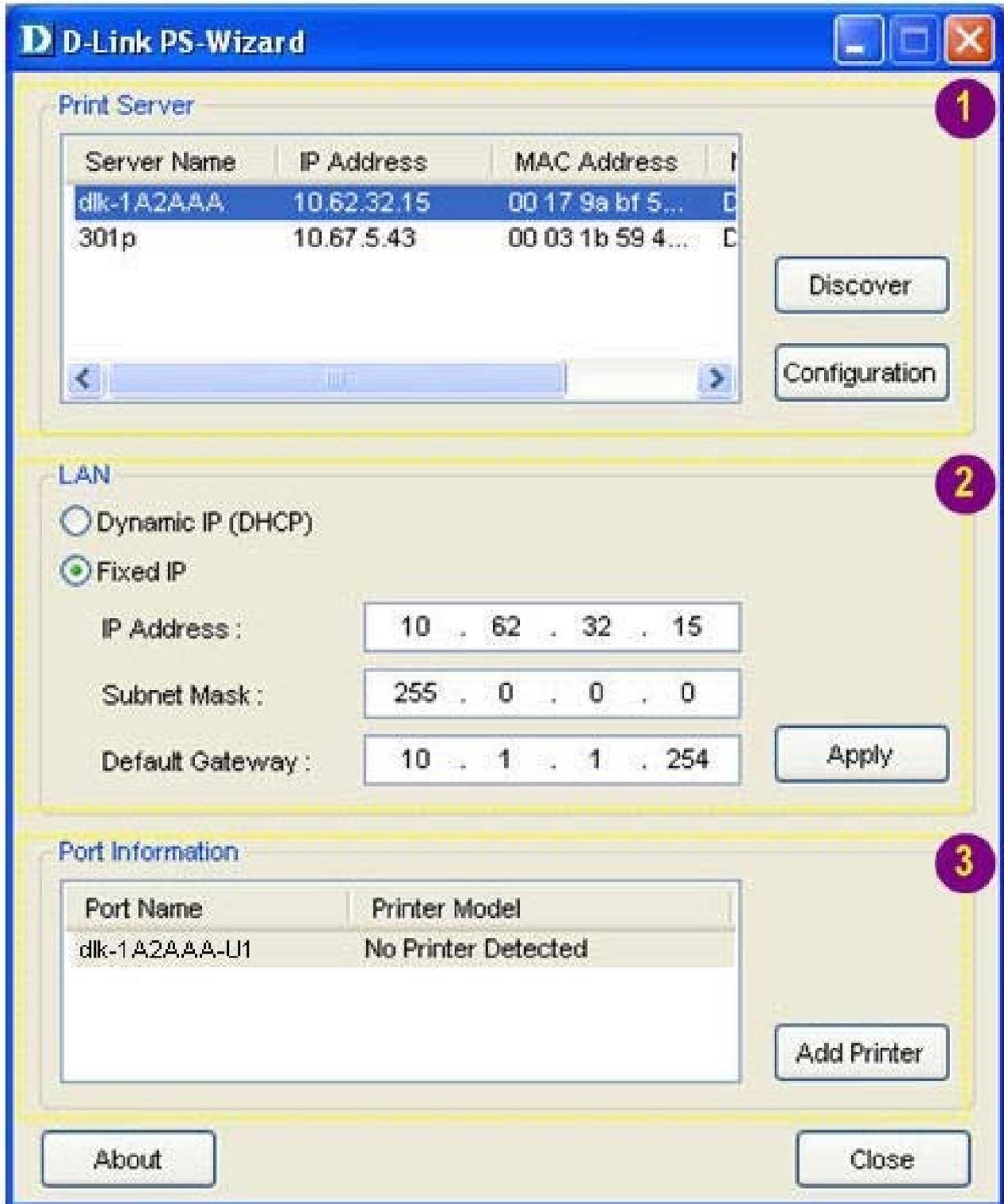
Using PS-Wizard

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

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

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





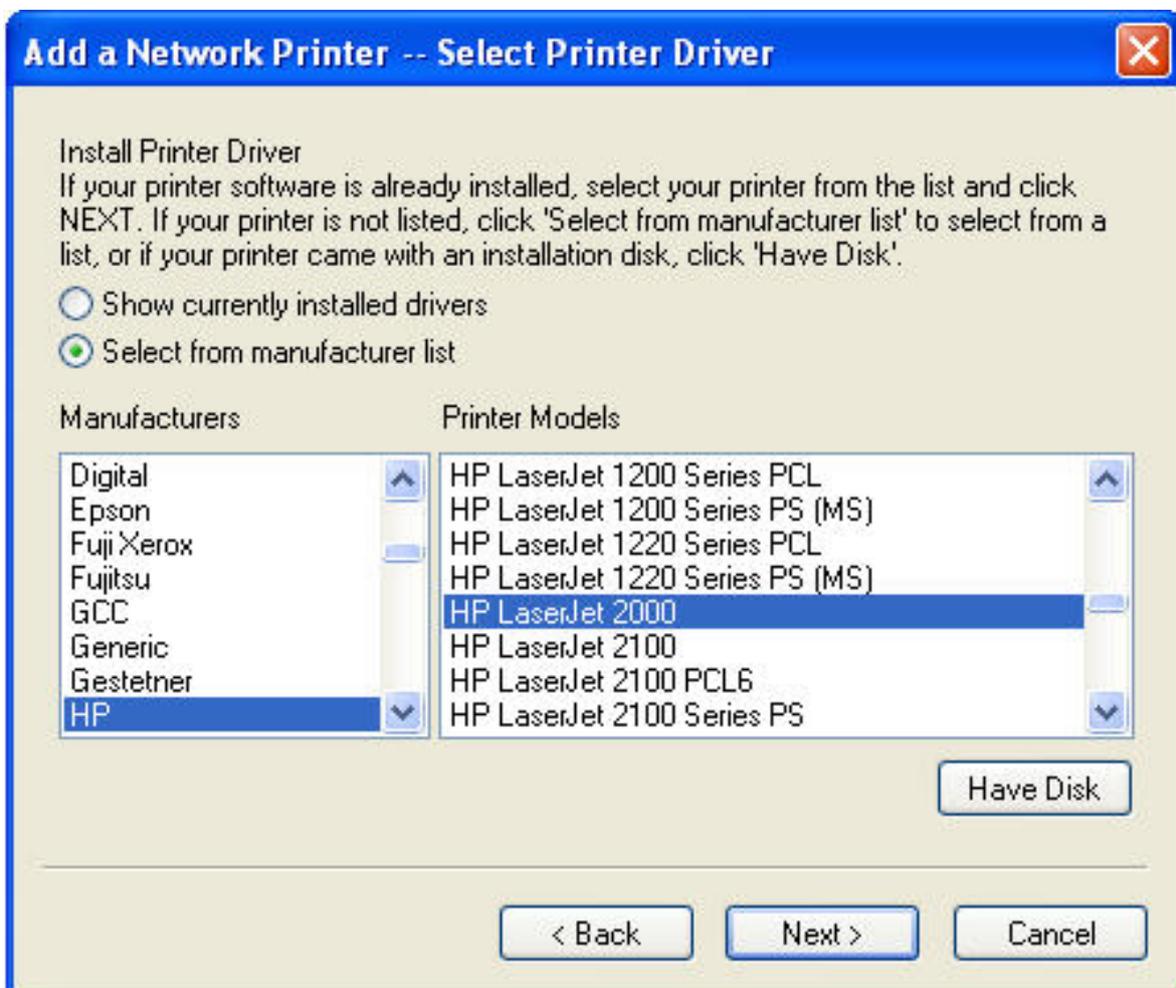
- 1 Print Server:** This field allows you to manually discover the connected print server and to do further configuration of the print server that is selected from the list.

2 **LAN:** You may also to specify dynamic or static IP address for your print server.

Then click **Apply** button to implement the new setting.

3 **Port Information:** This is the main function of the **PS-Wizard** for you to easily add a printer on your computer.

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



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

1. Show current installed drivers:

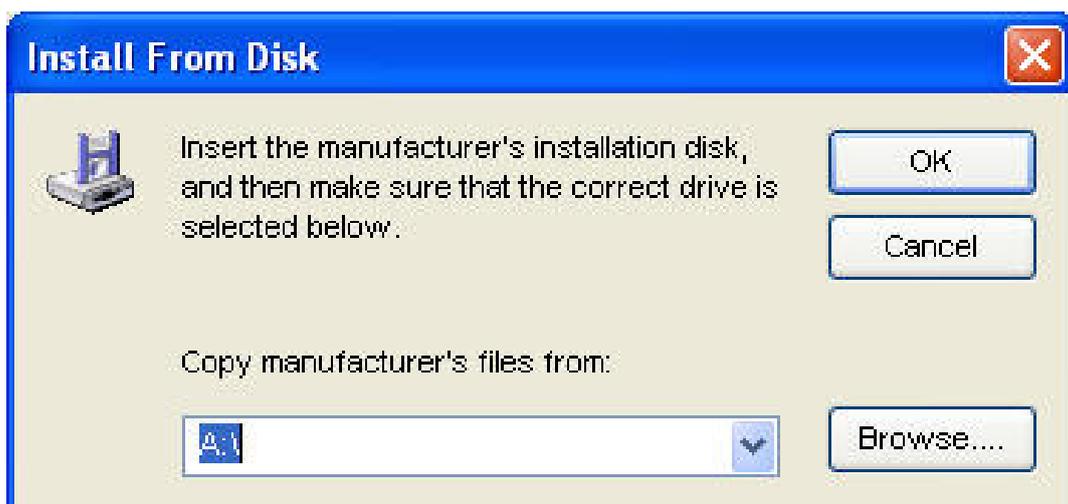
You may select this option, “**Show currently installed drivers**”, to check if the same printer driver already existed for use. If not, you may try the next method. After done the selection of printer driver, click **Next>** button to continue.

2. Select from manufacturer list:

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

3. Have Disk:

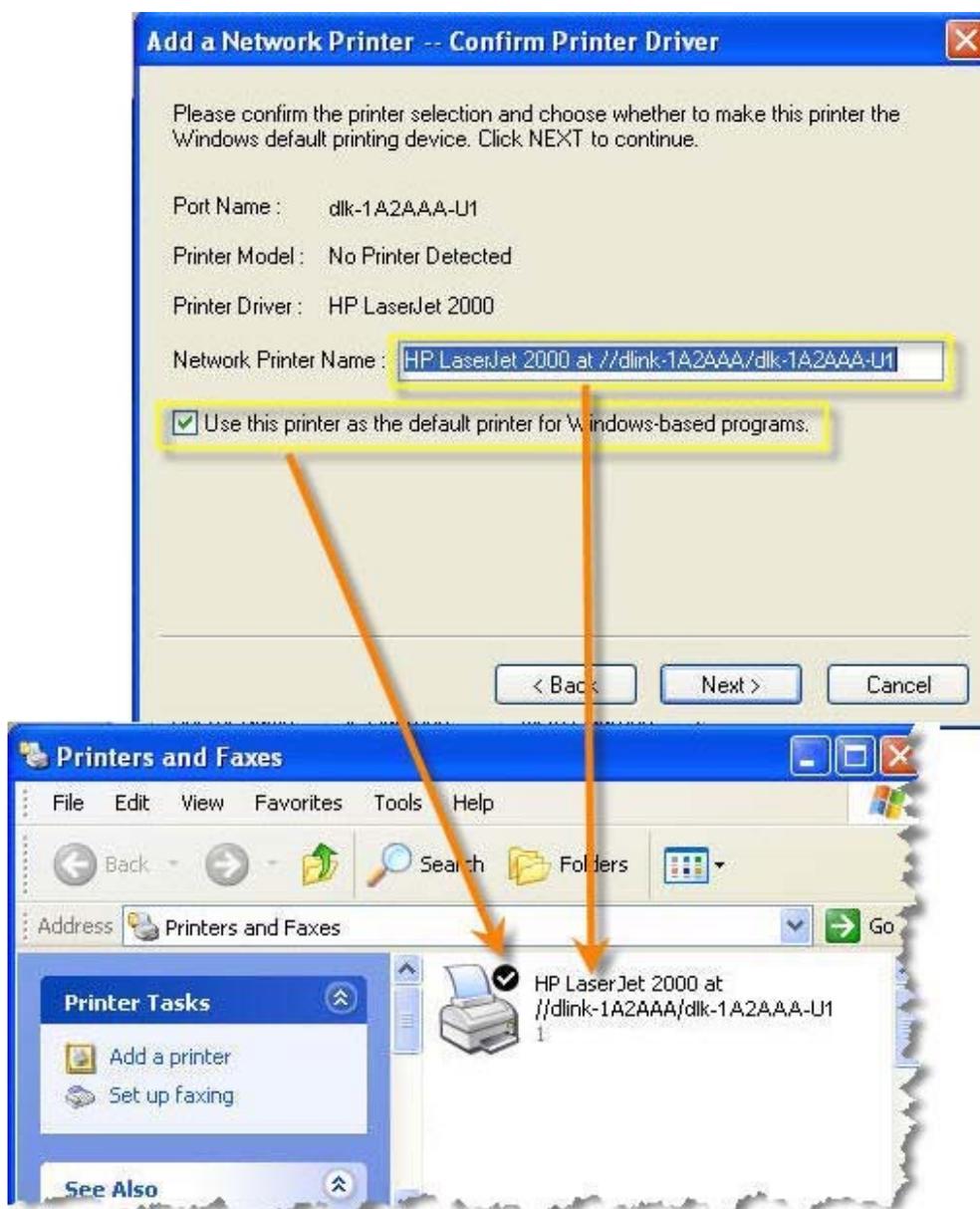
Click **Have Disk** button to bring up the following window. Insert the manufacture’s installation CD-ROM to install the printer driver. After the correct driver is selected, click **OK** button to continue.



After done the selection of printer driver, the wizard will ask you to confirm your

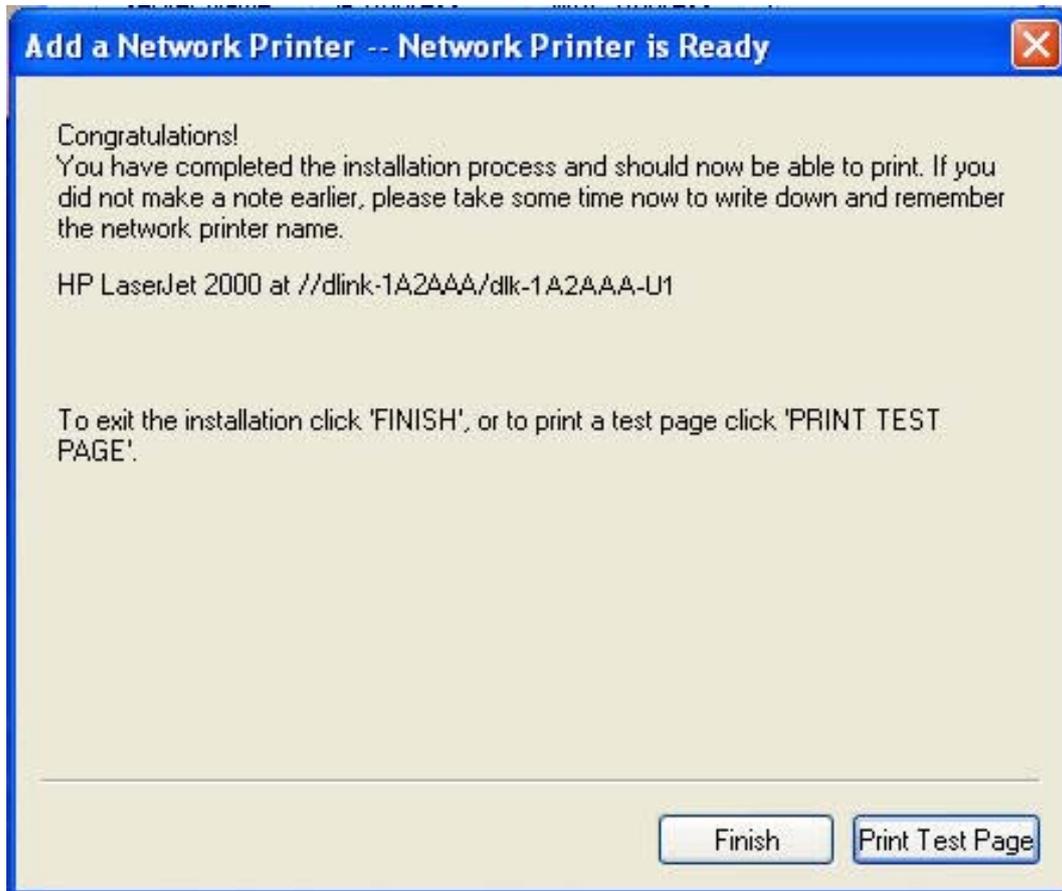
selection again in the following window. Beside, you are allowed to edit the name of the printer in the field “**Network Printer Name**” and enable this printer as the default printer by checking the box “**Use this printer as the default printer for Windows-based programs**”.

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



When the following window shows up, you may do print test by clicking **Print Test**

Page button to check if you can do printing normally. If yes, then click **Finish** button to exit the installation window and now you may start your printing tasks.

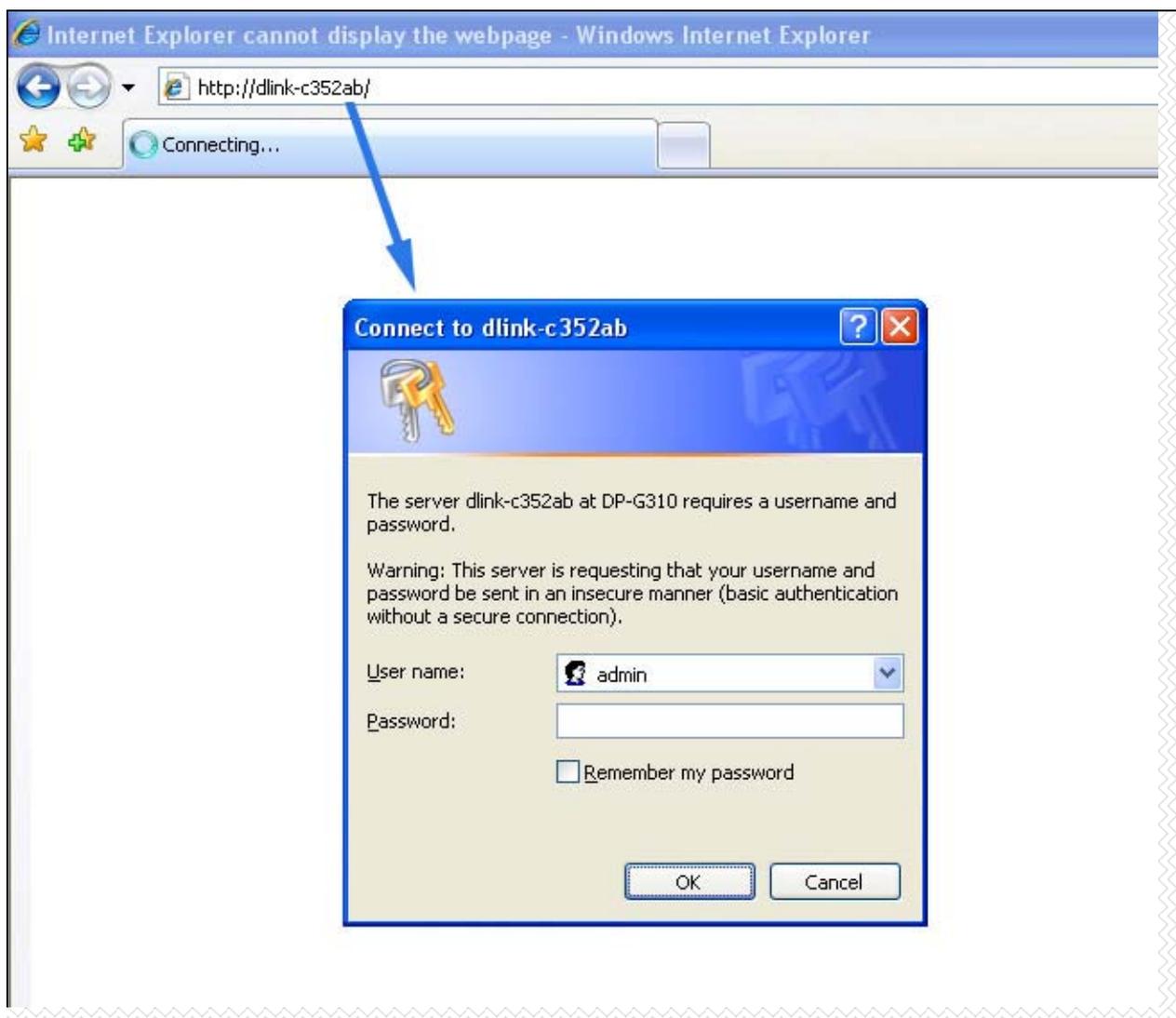


Using the Web Configuration

Home

To begin managing the DP-G310, simply launch the browser (e.g. Internet Explorer 6.0 used in this manual) you have installed on your computer and direct it to the URL address: `dlink-xxxxxx`, where `xxxxxx` are the last six digits of DP-G310's MAC address. The MAC address can be found on the bottom side of the DP-G310 device.

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



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

The screenshot shows the D-Link DP-G310 print server configuration interface. At the top, it displays 'Product: DP-G310' and 'Firmware Version: 2.20'. Below this is the D-Link logo. A navigation bar contains five tabs: 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. The 'Setup' tab is selected, and its submenu is visible on the left, including 'Print Server Setup', 'LAN Setup', 'Wireless Setup', and 'Printer Setup'. The 'Printer Setup' submenu is expanded, showing a printer icon with a red 'X' and the text 'Printer Off line', and a 'Reboot' button. The main content area displays the 'NETWORK PRINTER WIZARD' screen. The wizard text reads: '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 centered at the bottom of the wizard. On the right side, 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.'

SETUP > Print Server Setup

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

Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310 // Setup Advanced Maintenance Status Help

Print Server Setup

LAN Setup

Wireless 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

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

Print Server Name

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

Port Settings

In this field, you can assign the Port Name for the print server, and the description for the Printer port. It also allows you to select the 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.

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

SETUP > LAN Setup

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

Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310 // Setup Advanced Maintenance Status Help

Print Server Setup
LAN Setup
Wireless 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

This field allows you to assign IP address in manual or automatic method. When you choose Manually Assign, you should enter the related information in the following boxes, including IP Address, Subnet Mask, and Default Gateway.

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

SETUP > Wireless Setup

The **Wireless Setup** screen allows you configure the wirelessLAN settings of print server.

Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310	Setup	Advanced	Maintenance	Status	Help
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Print Server Setup

LAN Setup

Wireless Setup

Printer Setup

 Printer
Off line

Reboot

WIRELESS SETUP

From this page you can configure the print server to wirelessly connect to your LAN via an 802.11 (Wi-Fi) access point or router.

WIRELESS INTERFACE

Connection Mode : Infrastructure
 Ad-Hoc

SSID :

Wireless Channel :

Transmission Rate :

ENCRYPTION

Disable

WEP Encryption

Length : 64bits 128bits

Format : ASCII HEX

Key 1 :

Key 2 :

Key 3 :

Key 4 :

Encrypt Data Transmissions Using :

Authentication Type : Open System Shared Key Both

WPA-PSK / WPA2-PSK

Preshared Key : (8-63 ASCII or 64 HEX characters)

Helpful Hints..

Wireless Interface:
Connection Mode : Select one of the two connection modes. **Infrastructure (default)** - Connects to compatibly configured wireless AP or router in a WLAN. **Ad-Hoc** - Connect to compatibly configured wireless clients in the peer-to-peer mode.

SSID : Assign the SSID in this box. You can manually input the name or select one from the pull-down menu. To search the available wireless AP within the network, click the **Site Survey** button.

Encryption:
This field allows you to configure the settings of data encryption. Please remember that the key must be set before the data encryption is enforced.

PRINT SERVER

Wireless Interface

Select one of the two connection modes: **Infrastructure** (default) or **Ad-Hoc**. Assign the SSID in the **SSID** box. You can manually type the name or select one from the drop-down list. To search the available wireless access point within the network, click the **Site Survey** button. Select a channel from the **Wireless Channel** list, and a data transmit rate from the **Transmission Rate** list.

Encryption

In this section, you can select **Disable**, **WEP Encryption** or **WPA-PSK / WPA2-PSK**.

Click the **Disable** radio button to disable the encryption function of wireless network. Click the **WEP Encryption** radio button to select Length and Format of WEP encryption. Click either **64bits** or **128bits** in **Length**, select the WEP key format as **ASCII** (ASCII characters) or **HEX** (hexadecimal) in **Format**, and enter the key(s) for the network in the Key box (1-4). 64bits WEP encryption uses a 10 hexadecimal character key. The WEP encryption key must match the WEP settings on your AP or wireless router to connect properly.

Click **WPA-PSK / WPA2-PSK** to use a WPA-PSK / WPA2-PSK passphrase. Enter a WPA-PSK / WPA2-PSK passphrase or key used on your network.

SETUP > Printer Setup

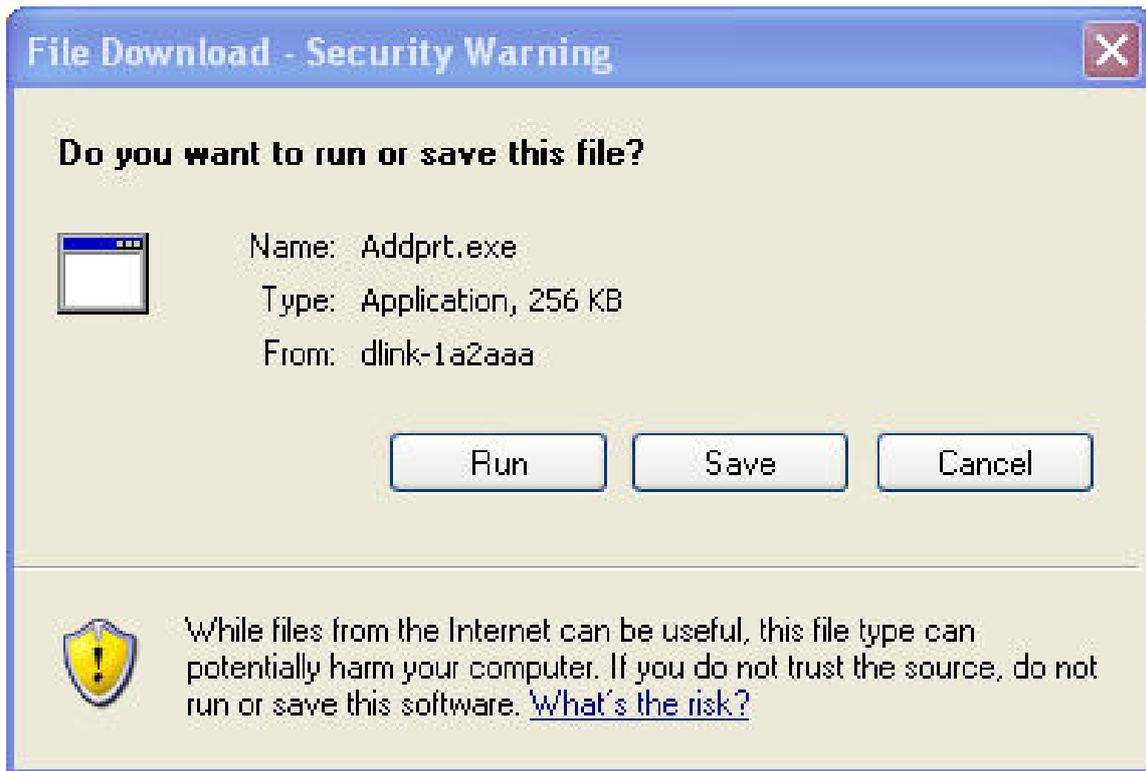
The **Printer Setup** screen allows you install the printer drivers for the printer currently connected to your print server.



DP-G310	Setup	Advanced	Maintenance	Status	Help
Print Server Setup LAN Setup Wireless Setup Printer Setup  Printer Off line <input type="button" value="Reboot"/>	<div style="background-color: #f4a460; padding: 5px;">NETWORK PRINTER WIZARD</div> <p>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.</p> <p>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.</p> <div style="text-align: center;"><input type="button" value="Next"/></div>				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					

Network Printer Wizard

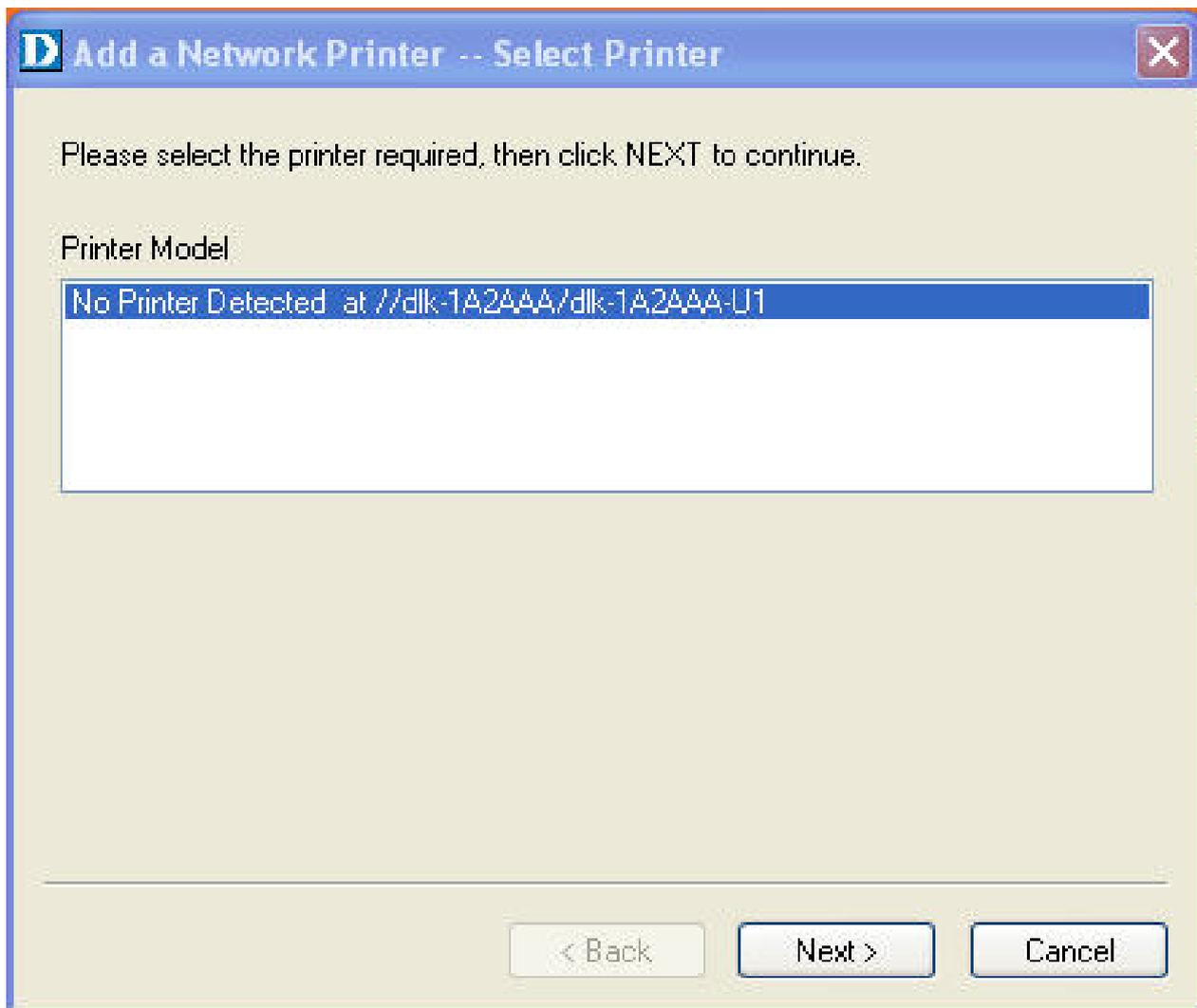
Clicking **Next** to download and run a windows wizard program which will install a network printer onto your computer. When you click **Next** you will be asked to download and run some software.



The above screen is the Network Printer Wizard so please click **RUN**, and if a second window appears as below click **RUN** again.



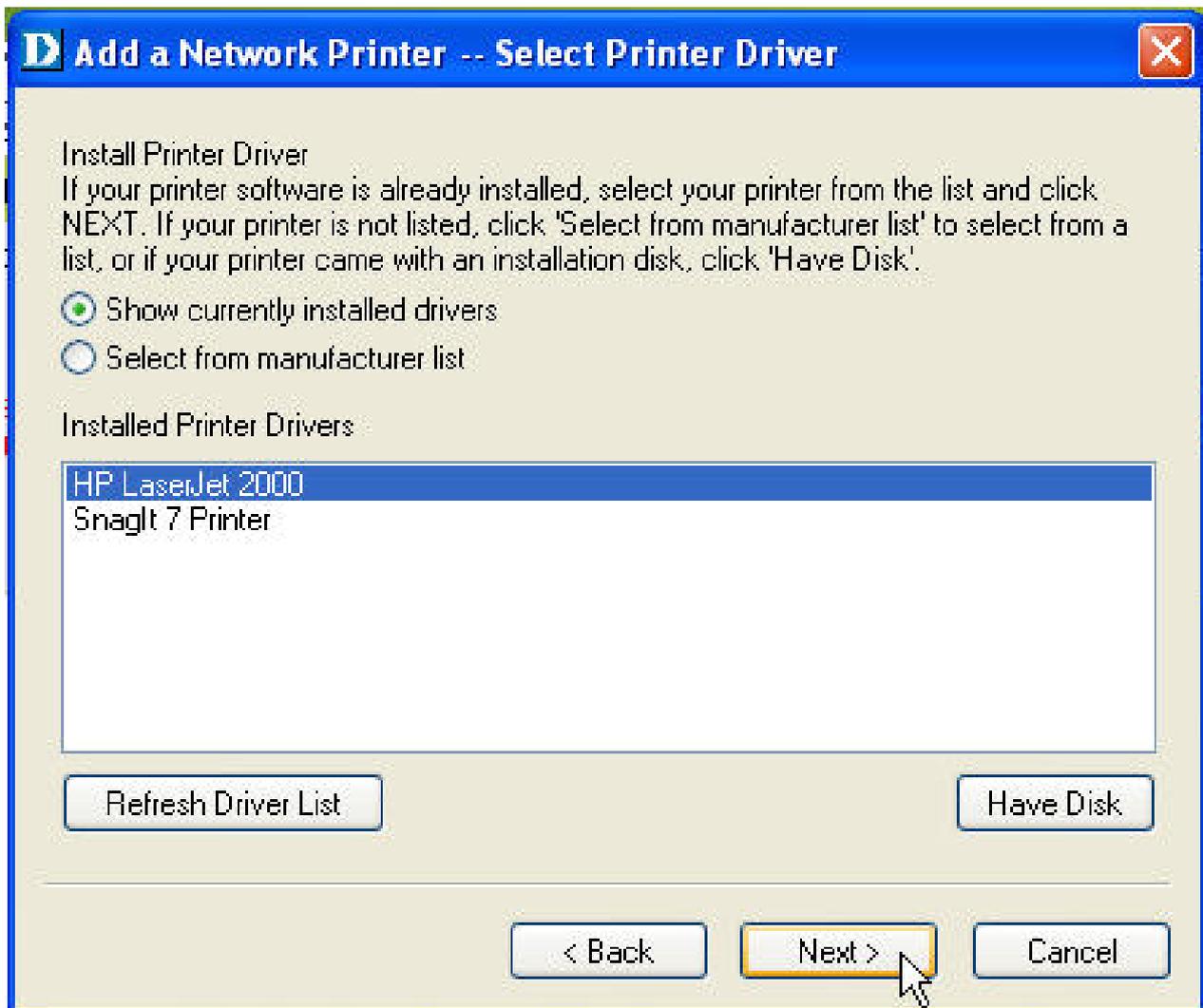
Please select the printer required, then click **NEXT** to continue.



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

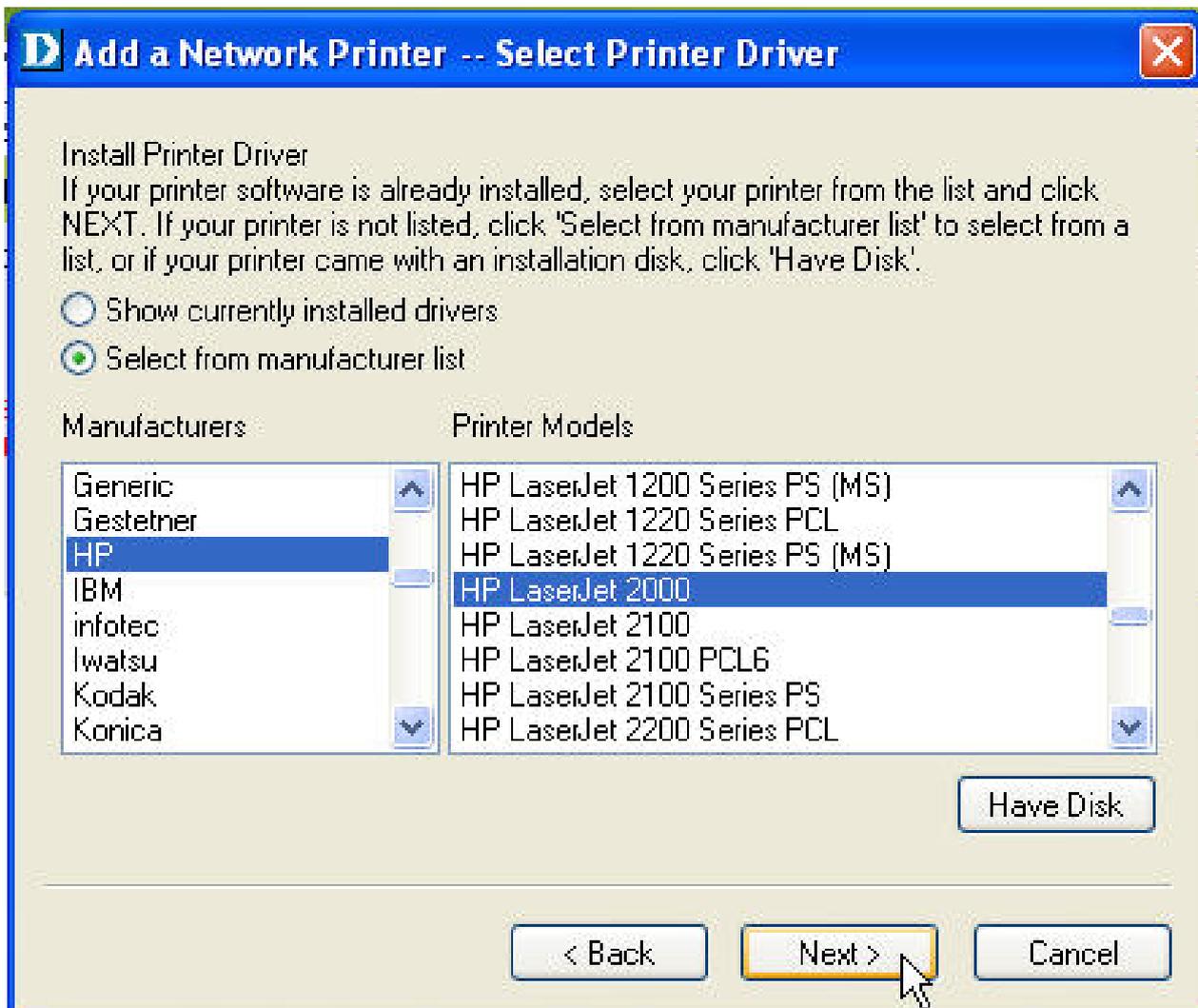
1. Show current installed drivers:

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



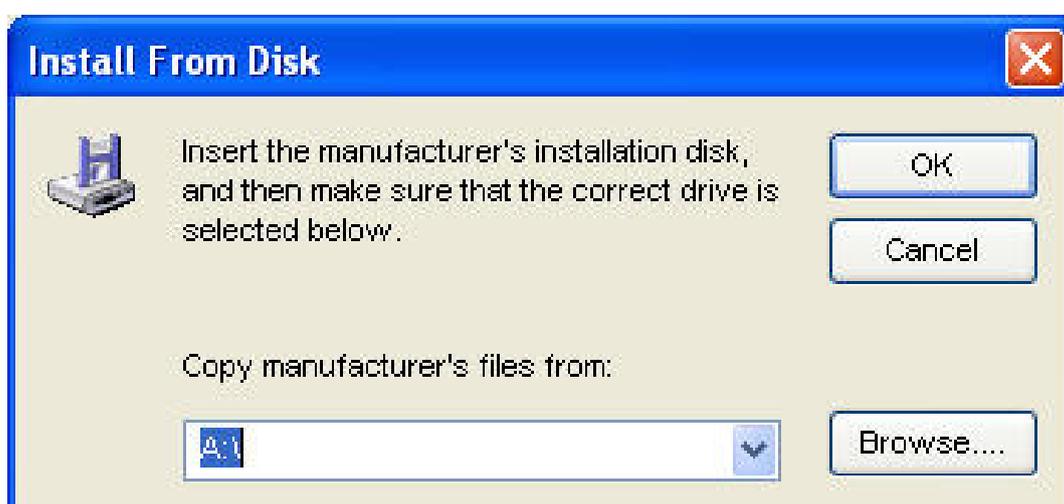
2. Select from manufacturer list:

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



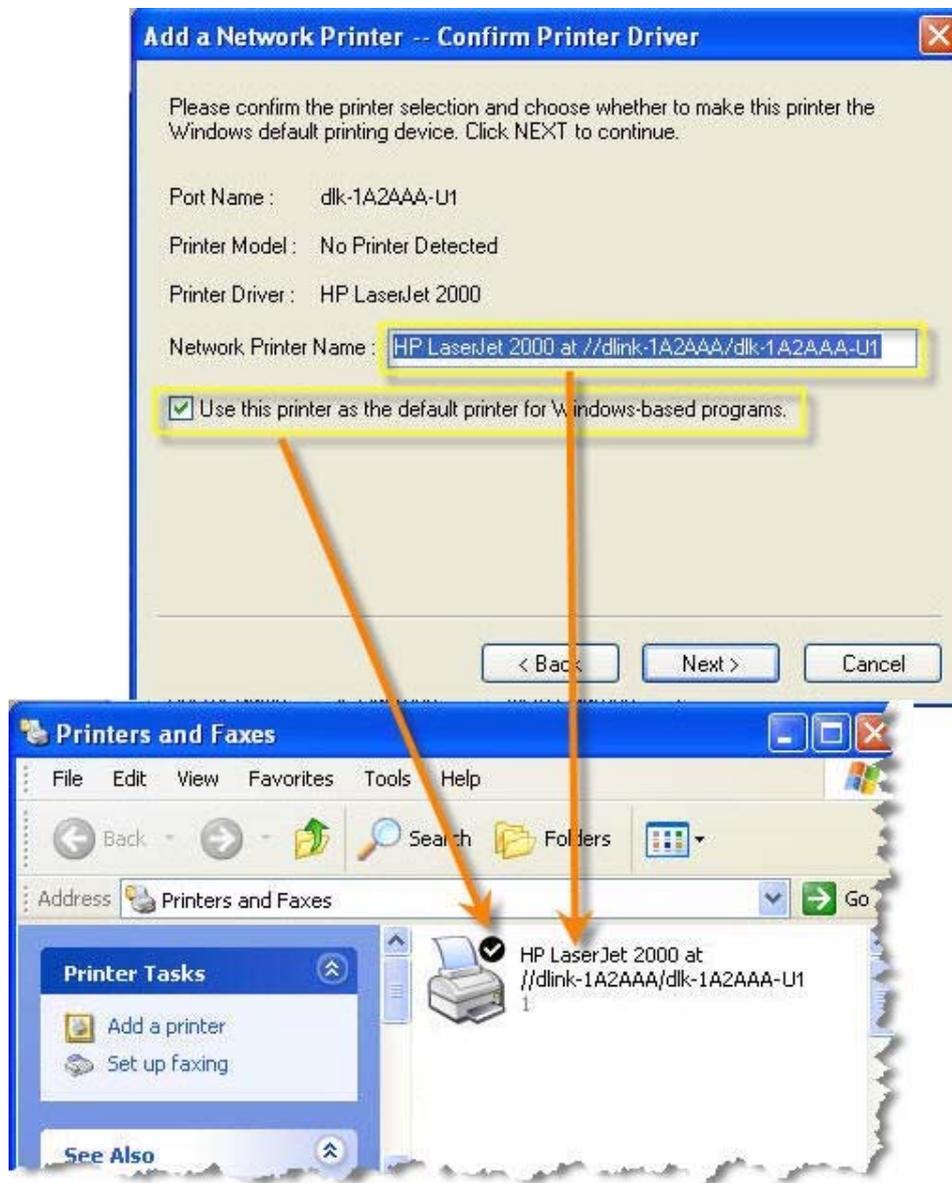
3. Have Disk:

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

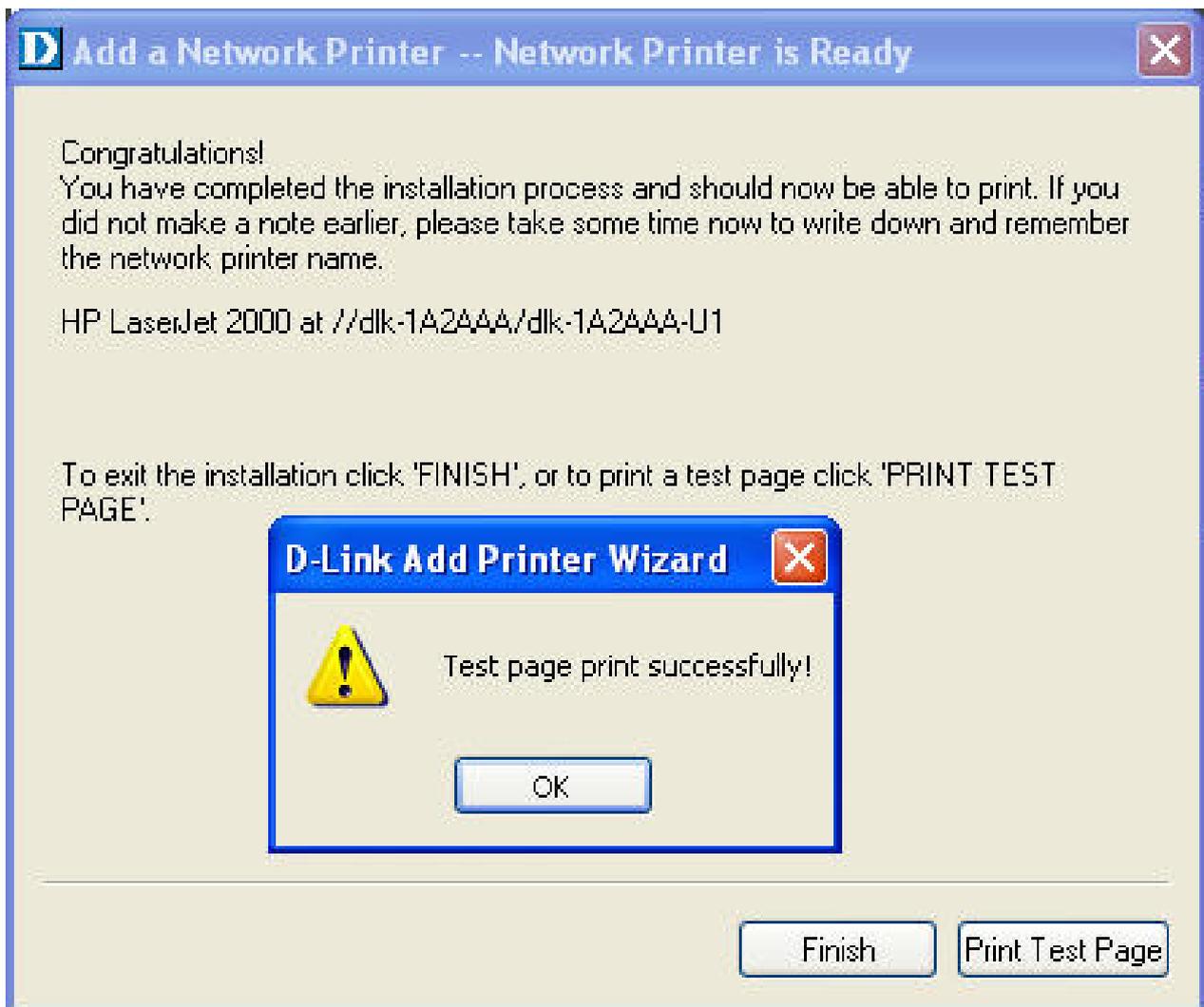


After done the selection of printer driver, the wizard will ask you to confirm your selection again in the following window. Beside, you are allowed to edit the name of the printer in the field “**Network Printer Name**” and enable this printer as the default printer by checking the box “**Use this printer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

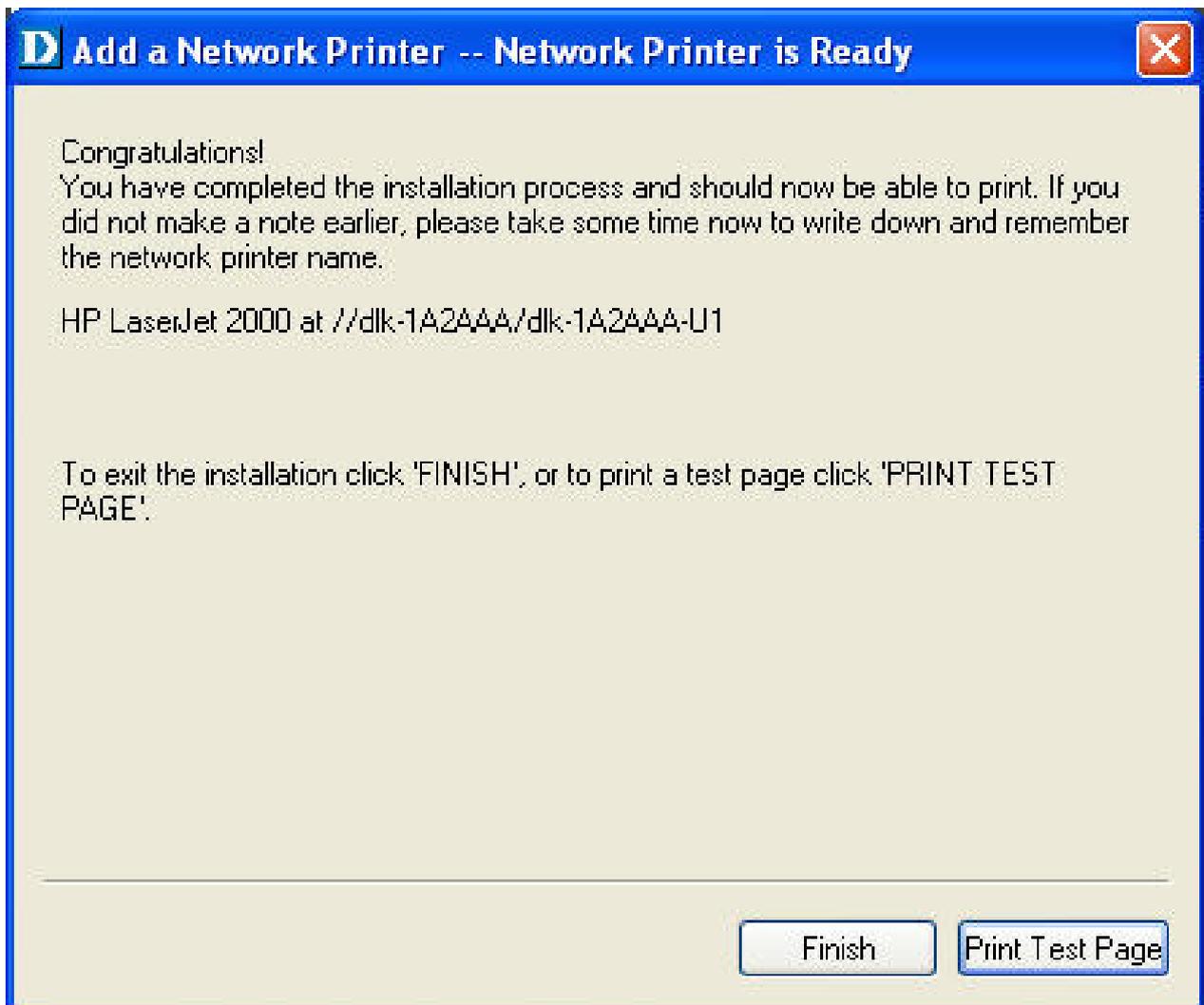
After you done the verification and configuration in the following window, click **Next>** button to continue. Then the printer (e.g. HP Laser 2000 used in this manual) will be auto-created in Windows’ **Printers and Faxes** window as the following illustration.



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



If yes, then click **Finish** button to exit the installation window and now you may start your printing tasks.



ADVANCED > Advanced LAN

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

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D-Link

DP-G310 // Setup **Advanced** Maintenance Status Help

Advanced LAN

Advanced Wireless

User Access

E-Mail Notification

SNMP

Printer Off 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-C352AB-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.

TCP/IP

This field contains four options that allow you to configure the TCP/IP setting: **DNS Server Address**, **UPnP**, **Mac Bonjour/Rendezvous**, and **Second HTTP Port**.

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

Microsoft Network

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

AppleTalk

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

Chooser Name: Display the print server's port name.

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

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

Font Group: Select from the pull-down menu.

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

ADVANCED > Advanced Wireless

The **Advanced Wireless** screen allows you to configure further wireless network setting of print server.

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D-Link

DP-G310 // Setup **Advanced** Maintenance Status Help

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WIRELESS SETTING

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

ADVANCED SETTING

Beacon Interval : (ms)

Preamble : Long Short

Apply Settings Cancel

Helpful Hints..

Advanced Setting:
Beacon Interval : Enter the number of beacon interval time in millisecond.

Preamble : This option allows you to set the length of preamble. Setting options are: **Long** - it is set to 144 bits; **Short** - it is set to 72 bits.

PRINT SERVER

Advanced Setting

Enter a number for the beacon interval in milliseconds in the **Beacon Interval** box. Click the length of the preamble as **Long** (144bits) or **Short** (72bits) in **Preamble**.

ADVANCED > User Access

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

Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310 // Setup **Advanced** Maintenance Status Help

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

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.

Printer
Off line
Reboot

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 03 1B 4D 59 2A	<input checked="" type="checkbox"/>

Delete

PRINT SERVER

User Access

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

abandon.

Authorised Users

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

ADVANCED > E-Mail Notification

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

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E-MAIL

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

Enable e-mail notification : Yes No

Destination e-mail Address :

(Use ';' to separate multiple e-mail address)

E-mail test will send an e-mail to Destination address.
Do you want to test an e-mail account?

E-MAIL ACCOUNT DETAILS

Print Server E-mail Address :

Incoming E-mail (POP3) Server Address :

Outgoing E-mail (SMTP) Server Address :

E-mail Account (POP3) Name :

E-mail Account (POP3) Password :

E-MAIL PRINTING

E-mail Printing (ASCII Text Only) : Enable Disable

Check E-mail Interval : (minutes)

Helpful Hints..

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

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.

E-mail Printing:
E-mail Printing (ASCII Text Only) : Select **Enable** to enable the E-mail printing function.

PRINT SERVER

Enable E-mail Notification

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

E-mail Account Details

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

Then enter the server address, used to receive your E-mail here, in the **Incoming E-mail (POP3) Server Address** field. For **Outgoing E-mail (SMTP) Server Address** field, enter the server address that is used to send your E-mail here.

If your mail server needs to verify the user when sending E-mail, Print Server will apply the **E-mail Account (POP3) Name** and **E-mail Account (POP3) Password** to the mail server.

E-mail Printing

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

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

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

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

ADVANCED > SNMP

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

SNMP Management

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

Product: DP-G310 Firmware Version: 2.20

D-Link

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SNMP SETTING
This menu allows you to set the SNMP access property.

SNMP MANAGEMENT

Community 1 Name :
Access Right : ▾

Community 2 Name :
Access Right : ▾

Community 3 Name :
Access Right : ▾

Helpful Hints..
SNMP Management: SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks.

Printer
Off line

PRINT SERVER

MAINTENANCE > Password

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

The screenshot shows the web interface for a D-Link DP-G310 print server. At the top, it displays 'Product: DP-G310' and 'Firmware Version: 2.20'. The D-Link logo is prominently featured in an orange banner. Below this is a navigation menu with tabs for 'Setup', 'Advanced', 'Maintenance' (which is selected), 'Status', and 'Help'. The main content area is titled 'SET PASSWORD (OPTIONAL)' and contains the following text: 'To change the print server password, please type in the current password, then the new password twice.' Below this text are three input fields: 'User Name : Admin', 'Current Password :', 'New Password :', and 'Confirm Password :'. At the bottom of the main area are two buttons: 'Apply Settings' and 'Cancel'. On the left side, there is a sidebar with a 'Printer' icon and a 'Reboot' button. On the right side, there is a 'Helpful Hints..' section with the text: 'Set Password: Click **Apply Settings** to set new password .'. The bottom of the interface has a dark grey bar with the text 'PRINT SERVER'.

MAINTENANCE > Save/Restore Settings

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

The screenshot shows the web interface for a D-Link DP-G310 print server. At the top, it displays 'Product: DP-G310' and 'Firmware Version: 2.20'. The D-Link logo is prominently featured. Below the logo is a navigation menu with tabs for 'Setup', 'Advanced', 'Maintenance' (which is selected), 'Status', and 'Help'. The main content area is titled 'SAVE/RESTORE SETTINGS' and includes a descriptive text: 'This menu allows you to backup the whole configuration and restore it back when necessary.' Below this, there is a section for 'SAVE/RESTORE CONFIGURATION' with three main options: 'Save Settings to Local Hard Drive' with a 'Save' button; 'Load Settings From Local Hard Drive' with a text input field, a 'Browse...' button, and an 'Update Settings' button; and 'Restore To Factory Default Settings' with a 'Restore Device' button. On the left side, there is a sidebar with links for 'Password', 'Save/Restore Settings', 'Firmware Upgrade', 'Diagnostics', and 'Printer' (which is currently 'Off line'). A 'Reboot' button is also present in the sidebar. On the right side, there is a 'Helpful Hints..' section with instructions on how to use the 'Save' and 'Browse' functions. The bottom of the page features a dark grey bar with the text 'PRINT SERVER'.

MAINTENANCE > Firmware Upgrade

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

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

The screenshot shows the web interface for a D-Link DP-G310 print server. At the top, it displays 'Product: DP-G310' and 'Firmware Version: 2.20'. The D-Link logo is prominently featured. Below the logo is a navigation menu with tabs for 'Setup', 'Advanced', 'Maintenance' (which is selected), 'Status', and 'Help'. On the left side, there is a sidebar with options: 'Password', 'Save/Restore Settings', 'Firmware Upgrade' (highlighted), 'Diagnostics', and a printer status section showing 'Printer Off line' with a 'Reboot' button. The main content area is titled 'FIRMWARE UPGRADE' and contains a note: 'Note: Please do not upgrade the firmware on this print server unless instructed to do so by D-Link technical support.' Below this is a section for 'FIRMWARE INFORMATION' showing 'Firmware Version : 2.20' and 'Release Date : 2007-08-28'. Another 'FIRMWARE UPGRADE' section follows, with a note: '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.' It then instructs the user: 'To Upgrade the firmware, enter the name of the firmware upgrade file, and click the Upgrade button.' There is an input field for the filename, a 'Browse...' button, and an 'Upgrade' button. On the right side, there is a 'Helpful Hints..' section with the text: '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**.' At the bottom of the interface, it says 'PRINT SERVER'.

MAINTENANCE > Diagnostics

The **Diagnostics** screen allows you to test the printing for USB port of the print server. After done the port selection, click Print Test Page to print a test page.

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D-Link

DP-G310 // Setup Advanced Maintenance Status Help

DIAGNOSTICS
This menu allows you to test the printing for every port.

PRINT TEST

Port Selection

USB (No Printer Detected)

Print Test Page

Helpful Hints..
Print Test:
Click *Print Test Page* to print a test page.

Printer Off line
Reboot

PRINT SERVER

STATUS > Device Info

The **Device Info** screen displays the status of your print server, printer, and network for your reference.

Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310 // **Setup** **Advanced** **Maintenance** **Status** **Help**

<p>Device Info</p> <p>Network</p> <p>Wireless</p> <p>Print Log</p> <p> Printer Off line</p> <p><input type="button" value="Reboot"/></p>	DEVICE INFO	<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>
	<p>The following shows the general system information.</p>	
	PRINT SERVER STATUS	
	<p>Server Name : dlink-C352AB Model : DP-G310 Firmware Version : 2.20 (2007-08-28) MAC Address : 00 17 9A C3 52 AB IP Address : 192.168.0.10 Up Time : 0 days, 00:21:40</p>	
	PRINTER STATUS	
	<p>USB : Printer Name : dlk-C352AB-U1 Printer Speed : Off line Printer Status : Off line</p> <p>Total Print Jobs : 0 Total Print Size : 0 KBytes</p> <p>Printing Status : Idle Name : MAC : IP : Protocol : Spooling Size : 0 Bytes Printing Size : 0 Bytes</p>	
	LAN STATUS	
	<p>Link : Yes Speed : 100 Mbps Full Duplex : Yes</p> <p>Tx Packets : 1155 Tx Errors : 0 Rx Packets : 1449 Rx Errors : 0</p>	
	<input type="button" value="Refresh"/>	

PRINT SERVER

Print Server Status

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

Printer Status

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

LAN Status

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

STATUS > Network

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

Auto IP

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



DP-G310	Setup	Advanced	Maintenance	Status	Help
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- Device Info
- Network
- Wireless
- Print Log



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 : 169.254.82.171)

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.

STATUS >Wireless

The Wireless screen displays the information about the wireless LAN. Click **Refresh** to update the information.

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D-Link

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WIRELESS STATUS

The following shows the wireless status.

WIRELESS STATUS

Connection Mode : Infrastructure
Link : Yes
SSID : default (MAC : 00 1B 11 CC DB 4A)
Channel : 6
Transmission Rate : 54M bps
Encryption : No

Tx Packets : 2789
Tx Errors : 0
Rx Packets : 21
Rx Errors : 0

Refresh

Helpful Hints..
Wireless Status:
In this field, you can monitor the information of the wireless LAN, such as the connection mode (Infrastructure or Ad-Hoc), SSID, channel, data transfer rate, encryption, and the packets status.

PRINT SERVER

Wireless Status

This field displays information about the wireless LAN, such as the Connection Mode (Infrastructure or Ad-Hoc), SSID, Channel, Transmission Rate, Encryption and packets status.

STATUS >Print Log

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

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D-Link

DP-G310 // Setup Advanced Maintenance **Status** Help

Device Info
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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

Print Log

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

HELP

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

The screenshot shows the D-Link DP-G310 web interface. At the top, it displays "Product: DP-G310" and "Firmware Version: 2.20". The D-Link logo is prominently featured. Below the logo is a navigation menu with tabs for "Setup", "Advanced", "Maintenance", "Status", and "Help". The "Help" tab is selected, showing a "HELP" section with the text: "For print server support, please [Visit Online Support](#)." Below this, there are links for "Setup", "Advanced", "Maintenance", and "Status". The "Setup" link is highlighted with an orange arrow. An orange arrow also points to the "PRINT SERVER SETUP" section in the Windows Internet Explorer window. The IE window shows the "PRINT SERVER SETUP" page with the following content:

PRINT SERVER SETUP

Print Server Name
In this field, you can configure the basic information of your print server.

Server Name : Assign a name to the print server.
Location (optional) : Assign a location for the 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).

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

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

LAN SETUP

TCP/IP
This field contains three options that allow you to configure the TCP/IP setting: **IP Address**.

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

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

WIRELESS SETUP

Wireless Interface
Connection Mode : Select one of the two connection modes. **Infrastructure (default)** - Connects to compatibly configured wireless AP or router in a WLAN. **Ad-Hoc** - Connect to compatibly configured wireless clients in the peer-to-peer mode.

Reboot

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

The screenshot displays the D-Link Print Server web interface. At the top, it shows 'Product: DP-G310' and 'Firmware Version: 2.20'. The D-Link logo is prominently displayed. Below the logo is a navigation menu with tabs for 'Setup', 'Advanced', 'Maintenance', 'Status', and 'Help'. On the left side, there is a 'Printer' status indicator showing 'Off line' and a 'Reboot' button. An orange arrow points from the 'Reboot' button to a dialog box in the center of the browser window. The dialog box has an orange header with the word 'REBOOT' and contains the text: 'Print Server is re-starting, it may take a few seconds. Please wait for print server restarting.' Below the dialog box, the browser window shows a list of menu items under the 'Maintenance' and 'Status' sections. The 'Maintenance' section includes 'Password', 'Save/Restore Settings', 'Firmware Upgrade', and 'Diagnostics'. The 'Status' section includes 'Device Info', 'Network', 'Wireless', and 'Print Log'. The browser's address bar shows the URL 'http://192.168.0.10/Reboot.HTM?Reset=Yes'. The browser's status bar at the bottom indicates 'Done' and 'Internet'.

Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310 // Setup Advanced Maintenance Status Help

Help

Printer Off line

Reboot

D-Link Print Server - Windows Internet Explorer

http://192.168.0.10/Reboot.HTM?Reset=Yes

REBOOT

Print Server is re-starting, it may take a few seconds.
Please wait for print server restarting.

Done Internet 100%

Advanced LAN
Advanced Wireless
User Access
E-Mail notification
SNMP

Maintenance

Password
Save/Restore Settings
Firmware Upgrade
Diagnostics

Status

Device Info
Network
Wireless
Print Log

PRINT SERVER

Refresh Printer Status

Click **Printer** to refresh printer status.

Product: DP-G310 Firmware Version: 2.20



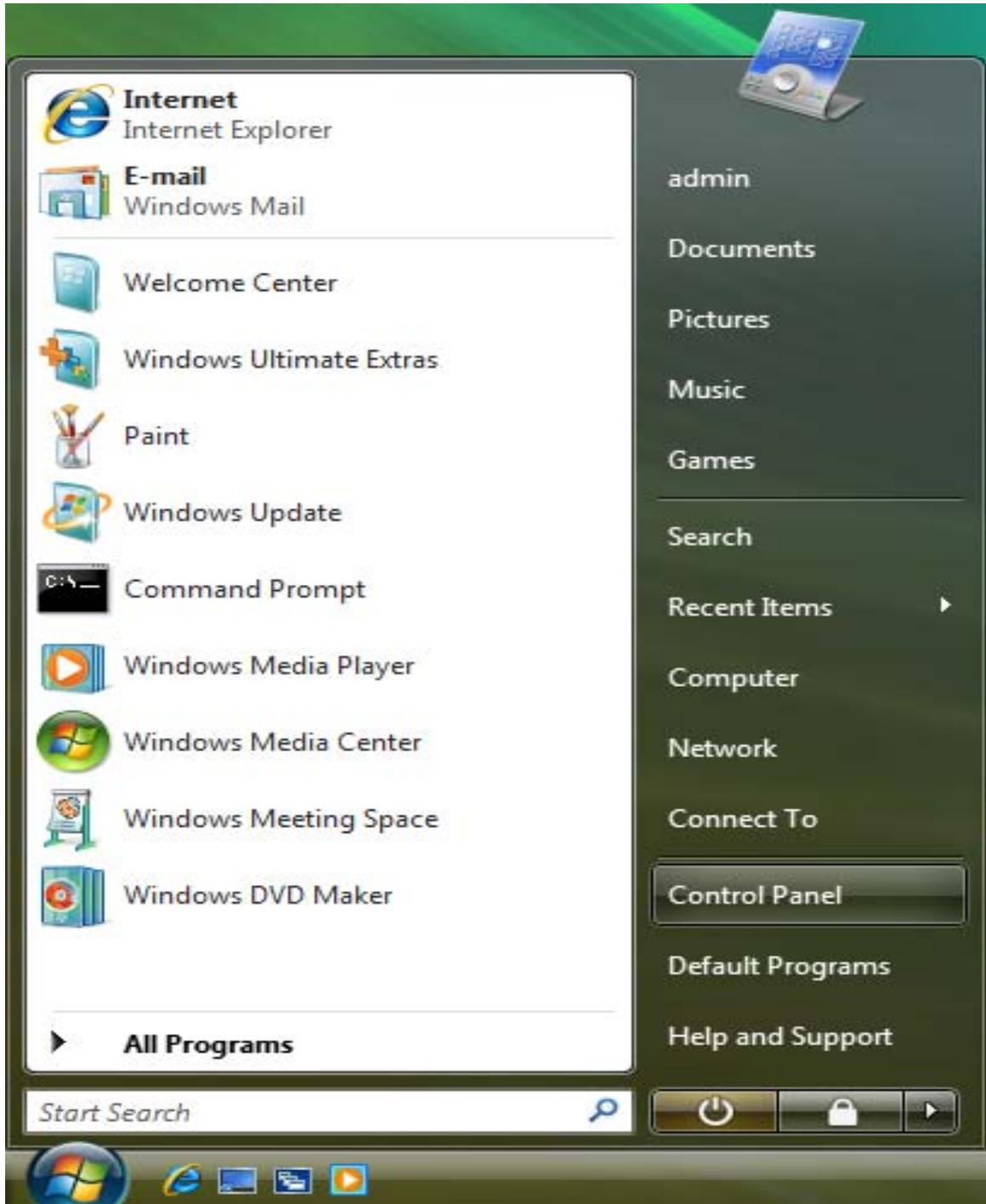
DP-G310	Setup	Advanced	Maintenance	Status	Help
Print Server Setup LAN Setup Wireless Setup Printer Setup	NETWORK PRINTER WIZARD <p>The Network Printer Wizard will allow you to install the printer drivers for the printer currently connected to your print server. Click Next to continue.</p> <p>Note: When 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.</p> <p><input type="button" value="Next"/></p>			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.	

 **Printer**
Offline

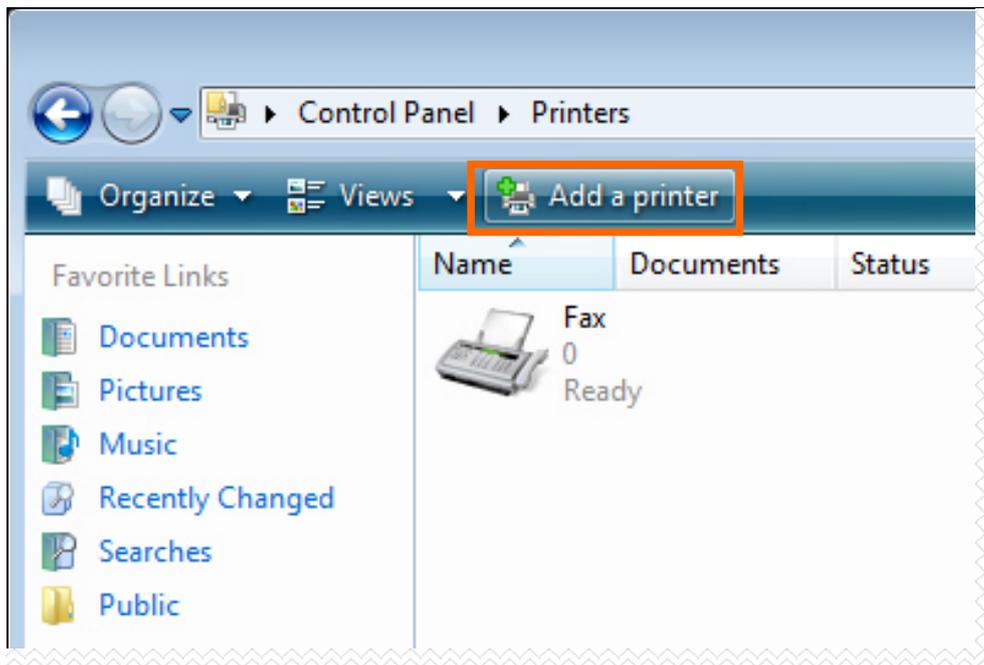
PRINT SERVER

TCP/IP Printing for Windows Vista

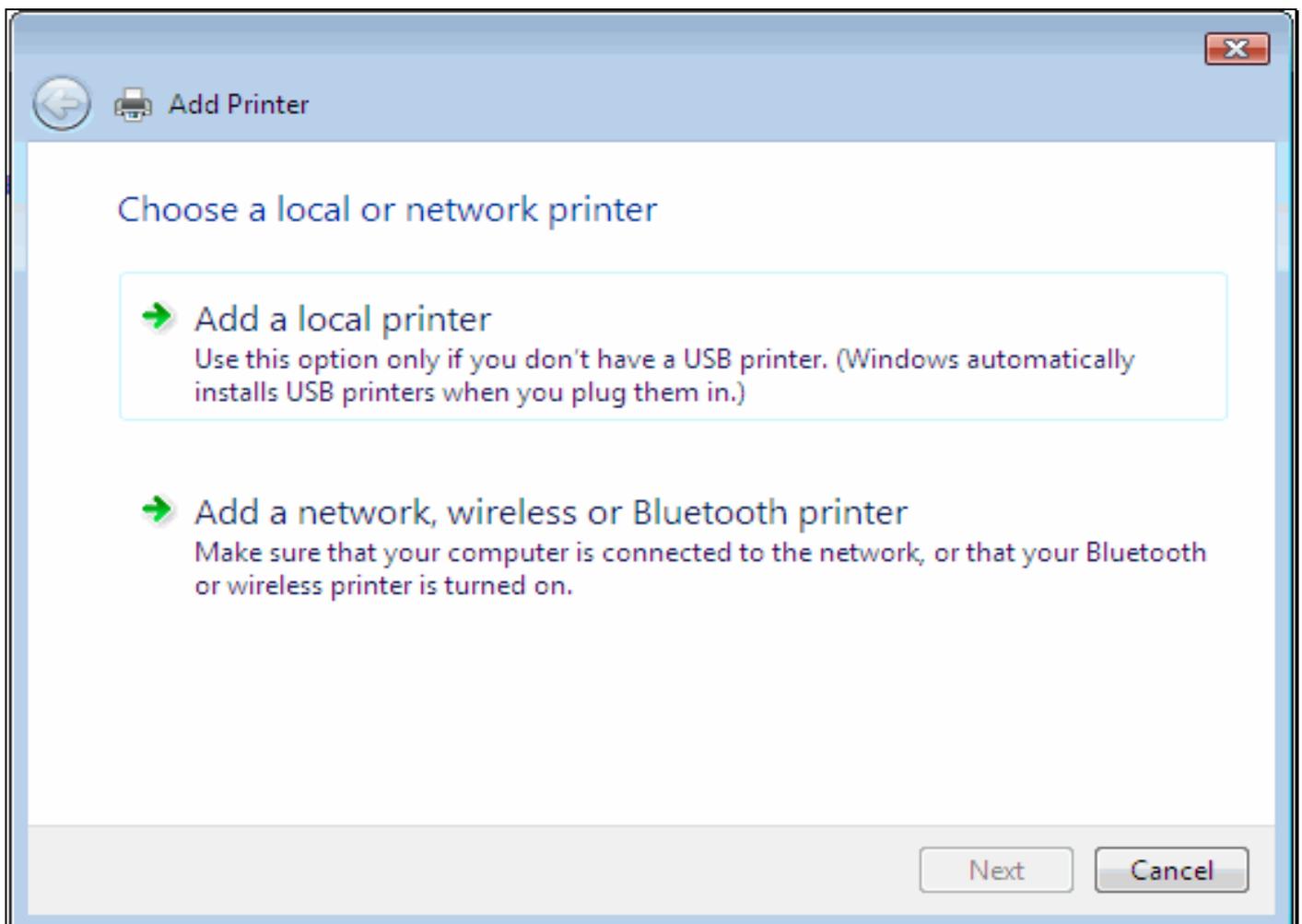
Go to **Start** → **Control Panel** → **Printers**.



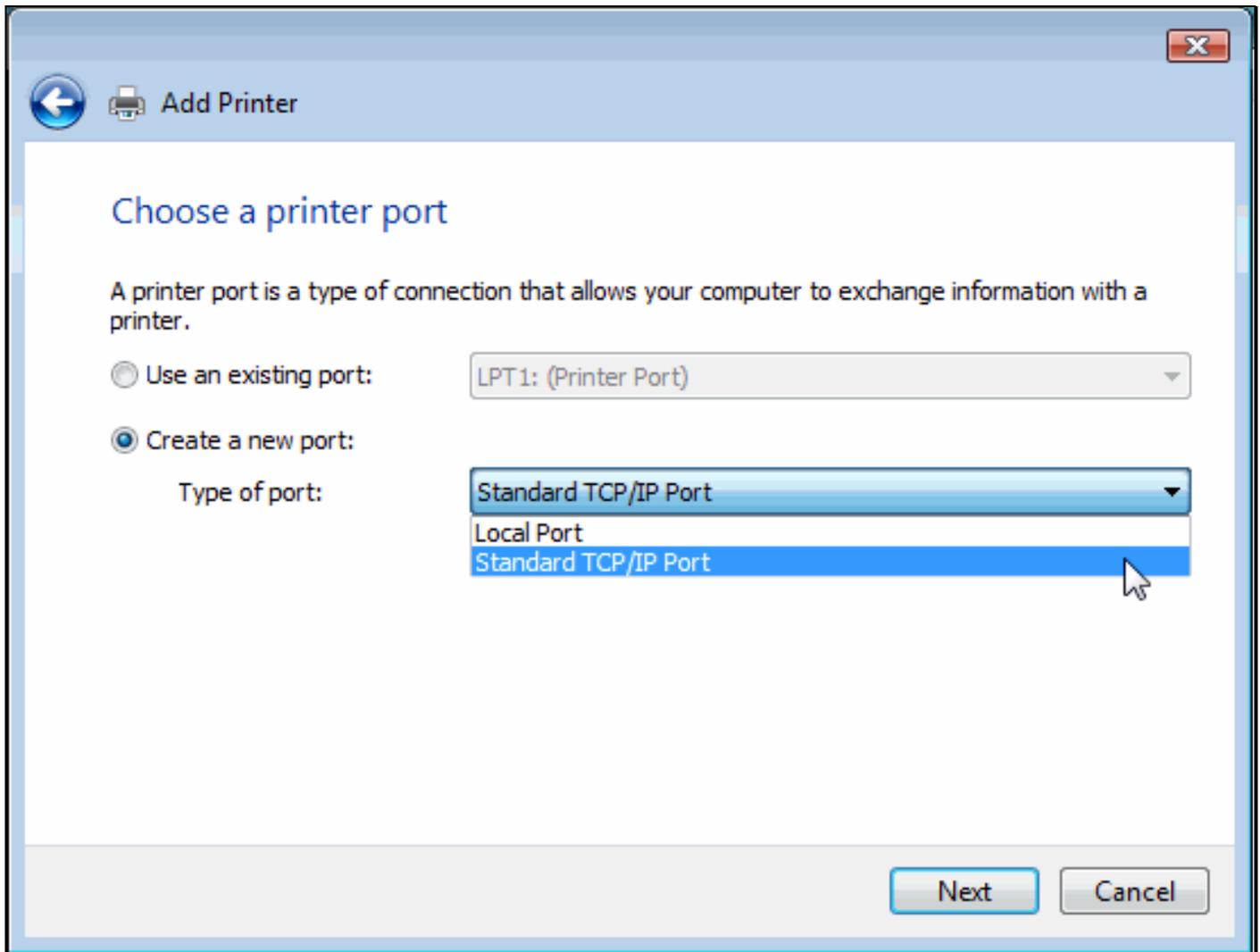
Click **Add a printer**.



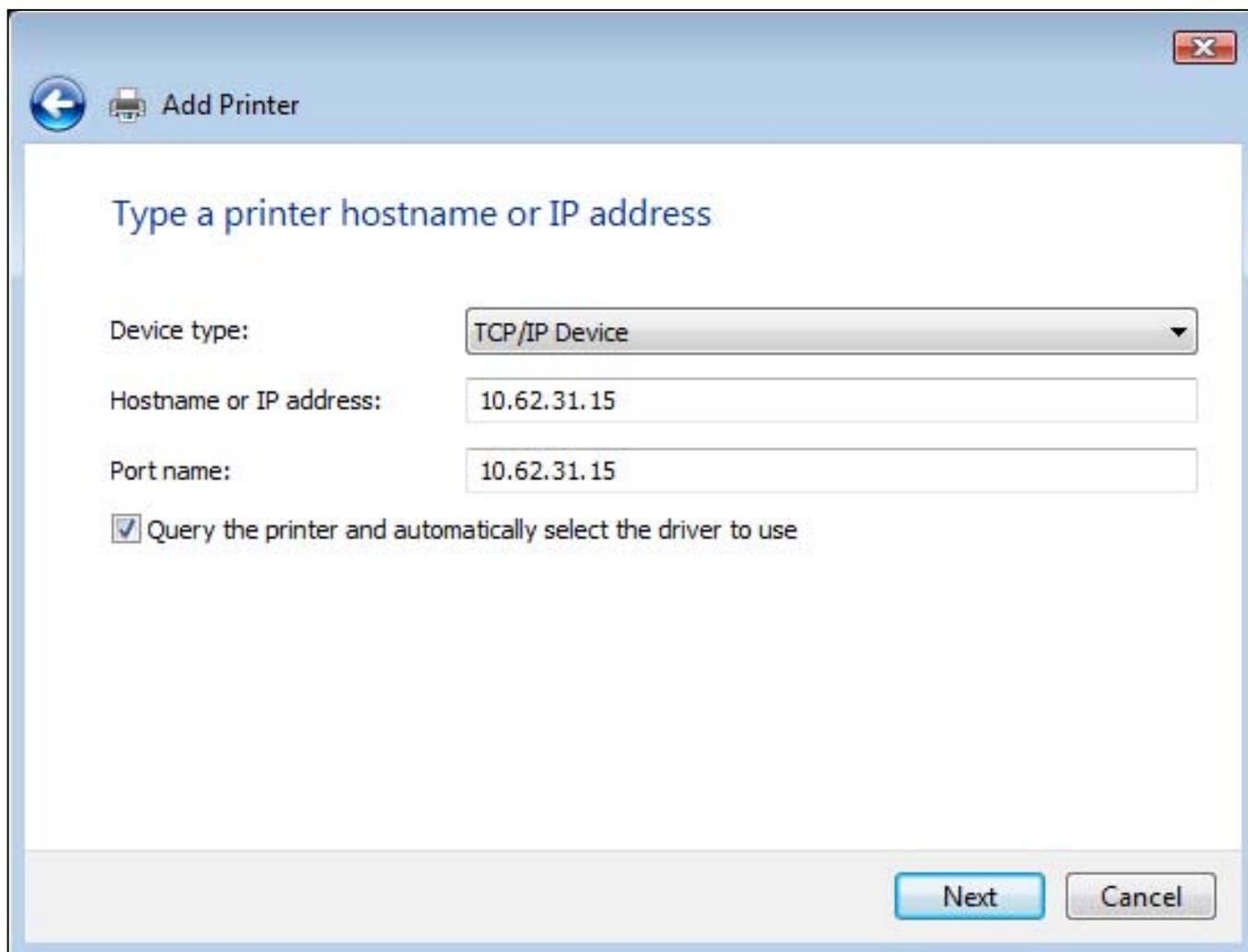
Select the first option, **Add a local printer**, and then click **Next**.



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



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



The screenshot shows the 'Add Printer' wizard in Windows. 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: DP-G310 Firmware Version: 2.20

D-Link

DP-G310	Setup	Advanced	Maintenance	Status		Help
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Device Info

Network

Wireless

Print Log

Printer
Off line

DEVICE INFO

The following shows the general system information.

PRINT SERVER STATUS

Server Name : dlink-C352AB
Model : DP-G310
Firmware Version : 2.20 (2007-08-28)
MAC Address : 00 17 9A C3 52 AB
IP Address : 10.62.31.15 (Manual)
Up Time : 0 days, 00:01:32

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.

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

← Add Printer
X

Additional Port Information Required

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

Device Type

Standard Generic Network Card

Custom

Then the follow screen will shows up, select **LPR** from the **Protocol** field.

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

The image shows a dialog box titled "Configure Standard TCP/IP Port Monitor". It has a close button (X) in the top right corner. The dialog is divided into several sections:

- Port Settings:** Contains two text input fields: "Port Name:" with the value "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 "9100".
- LPR Settings:** Contains a text input field for "Queue Name:" with the value "dlk-C352AB-U1". This section is highlighted with an orange border.
- Options:** Two checkboxes: "LPR Byte Counting Enabled" (unchecked) and "SNMP Status Enabled" (unchecked).
- SNMP Settings:** Contains two text input fields: "Community Name:" with the value "public" and "SNMP Device Index:" with the value "1".

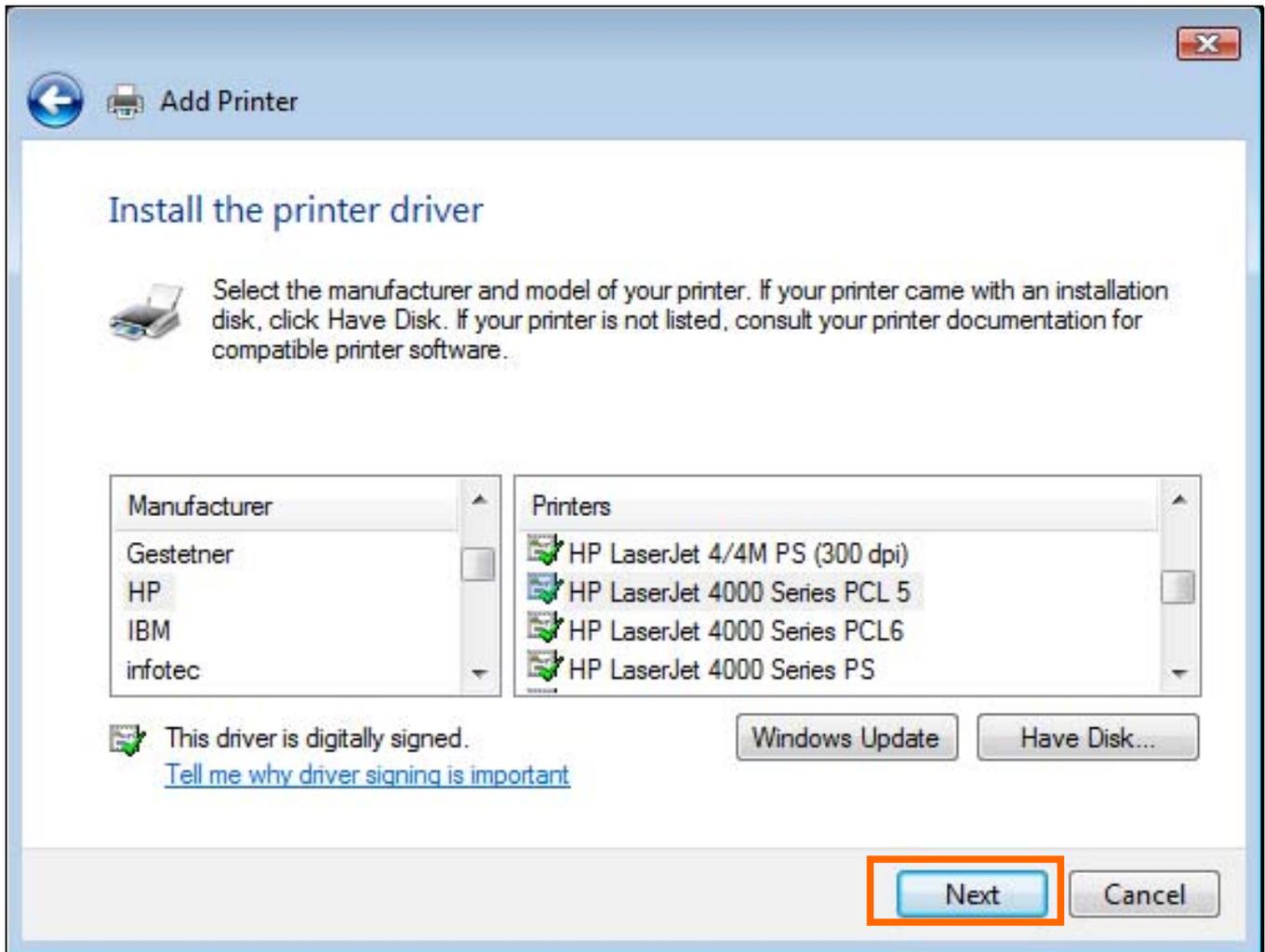
At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

D-Link®

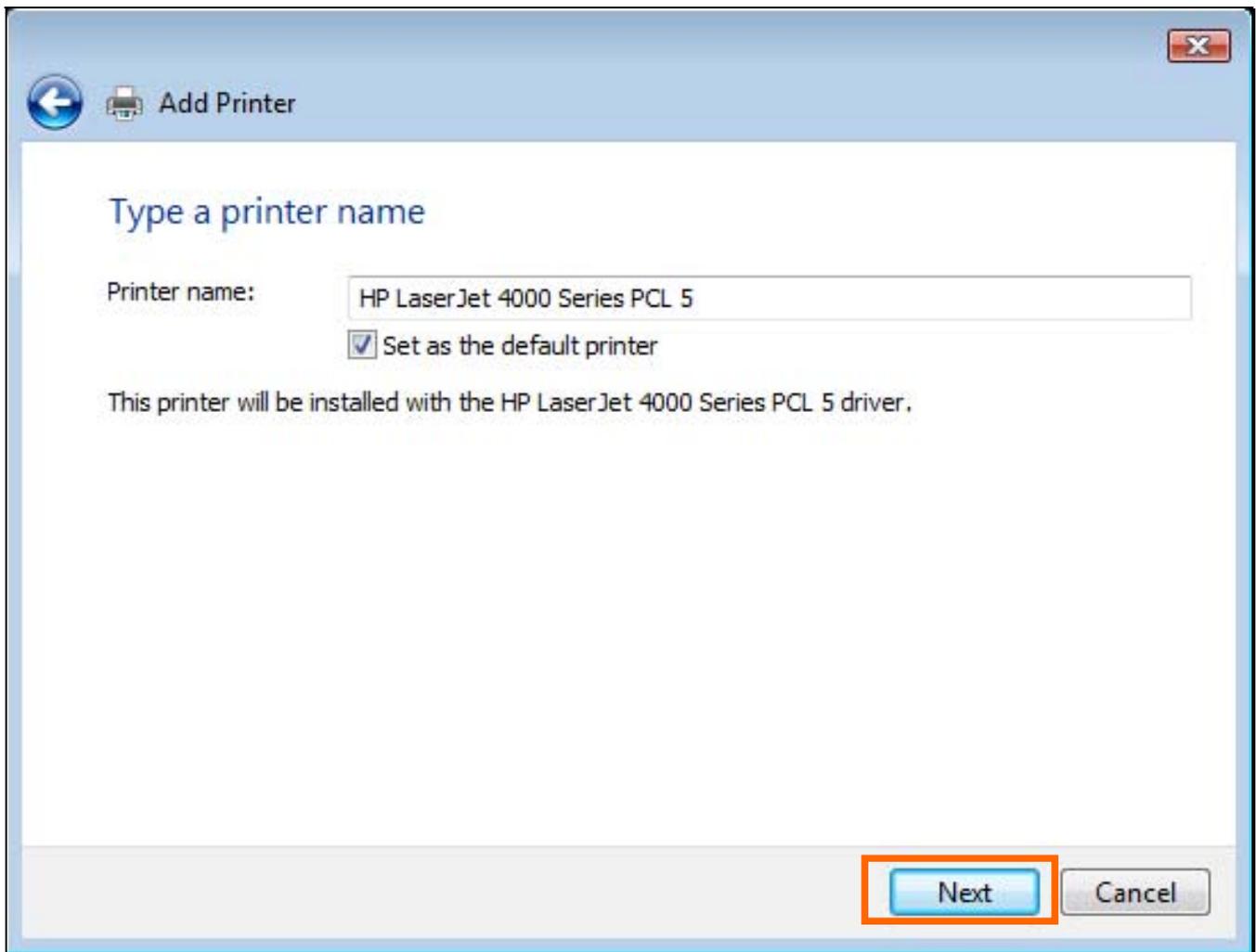
DP-G310	Setup	Advanced	Maintenance	Status	Help
Device Info Network Wireless Print Log  Printer Off line <input type="button" value="Reboot"/>	<p>DEVICE INFO</p> <p>The following shows the general system information.</p> <p>PRINT SERVER STATUS</p> <p> Server Name : dlink-C352AB Model : DP-G310 Firmware Version : 2.20 (2007-08-28) MAC Address : 00 17 9A C3 52 AB IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:01:32 </p> <p>PRINTER STATUS</p> <p> USB : Printer Name : dlk-C352AB-U1 Printer Speed : Off line Printer Status : Off line 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>

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

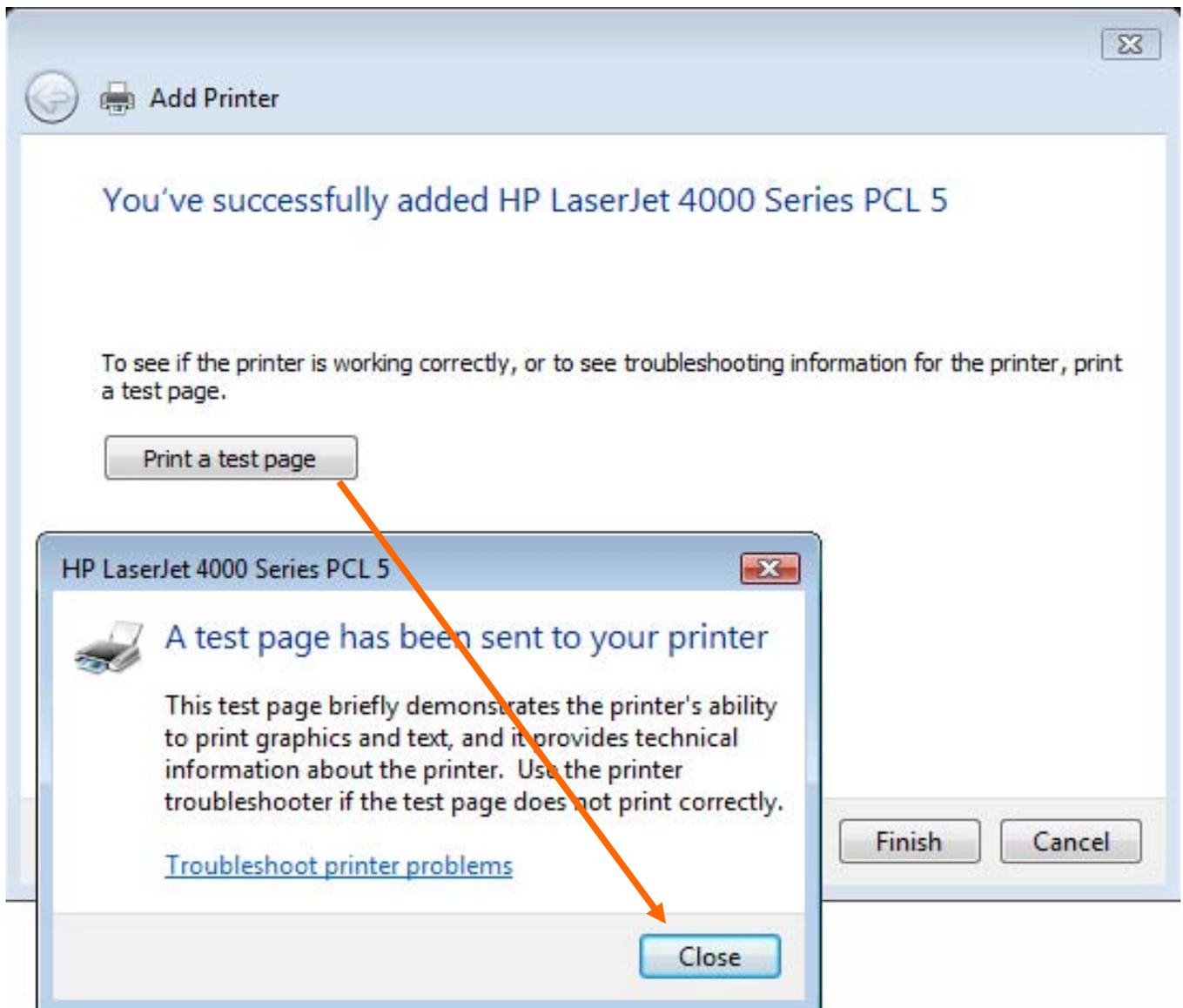
Click **Next**



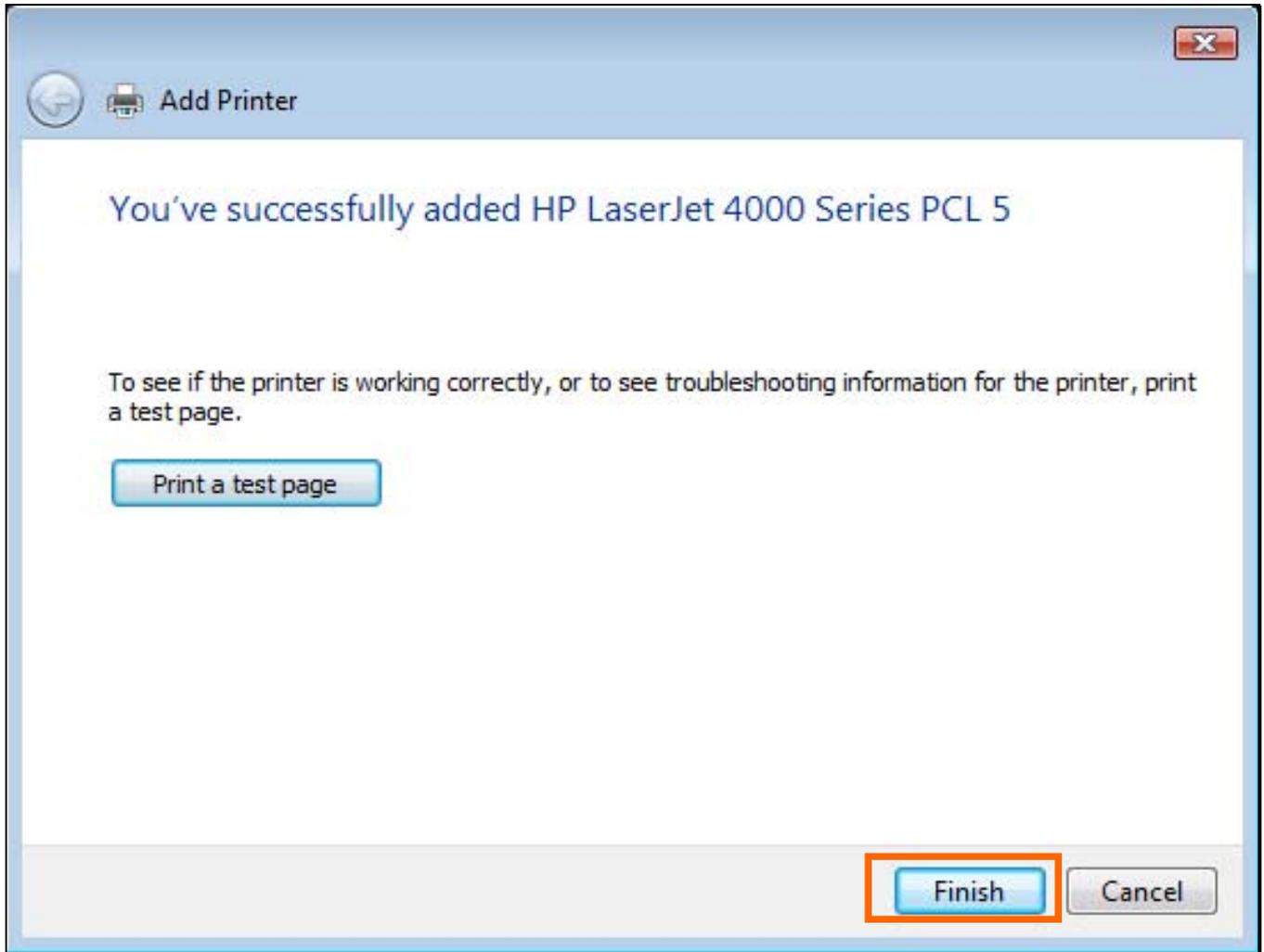
Click **Next** to start installing the printer.



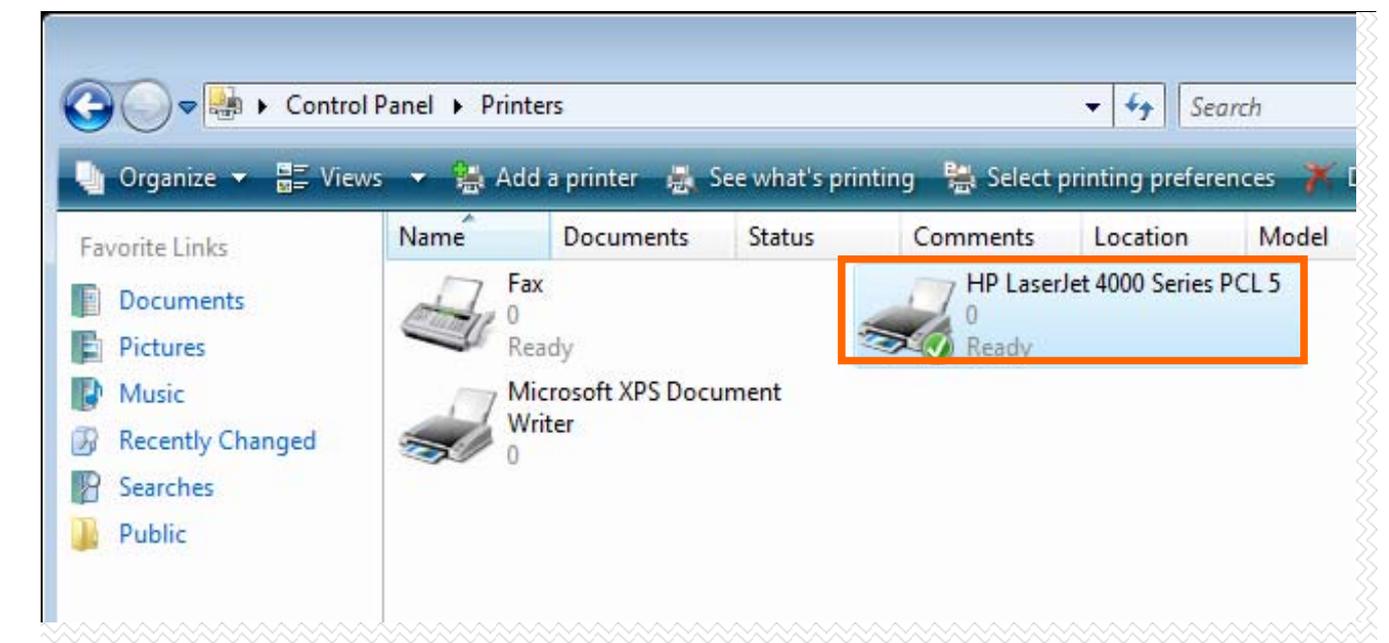
After clicking **Print a test page**, a small dialogue box will show up as below. Click **Close**.



Click **Finish**.

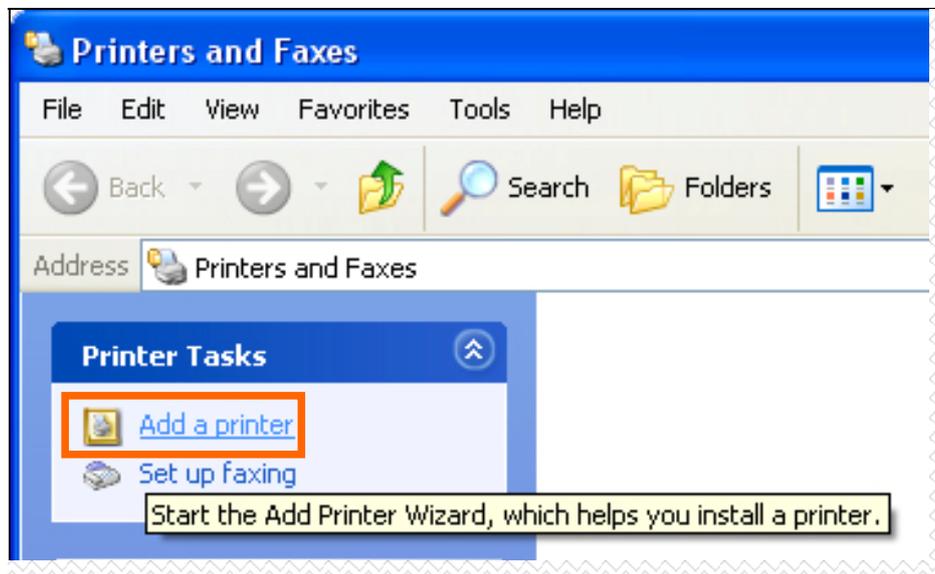


The printer is now ready for printing with Windows Vista on your network.

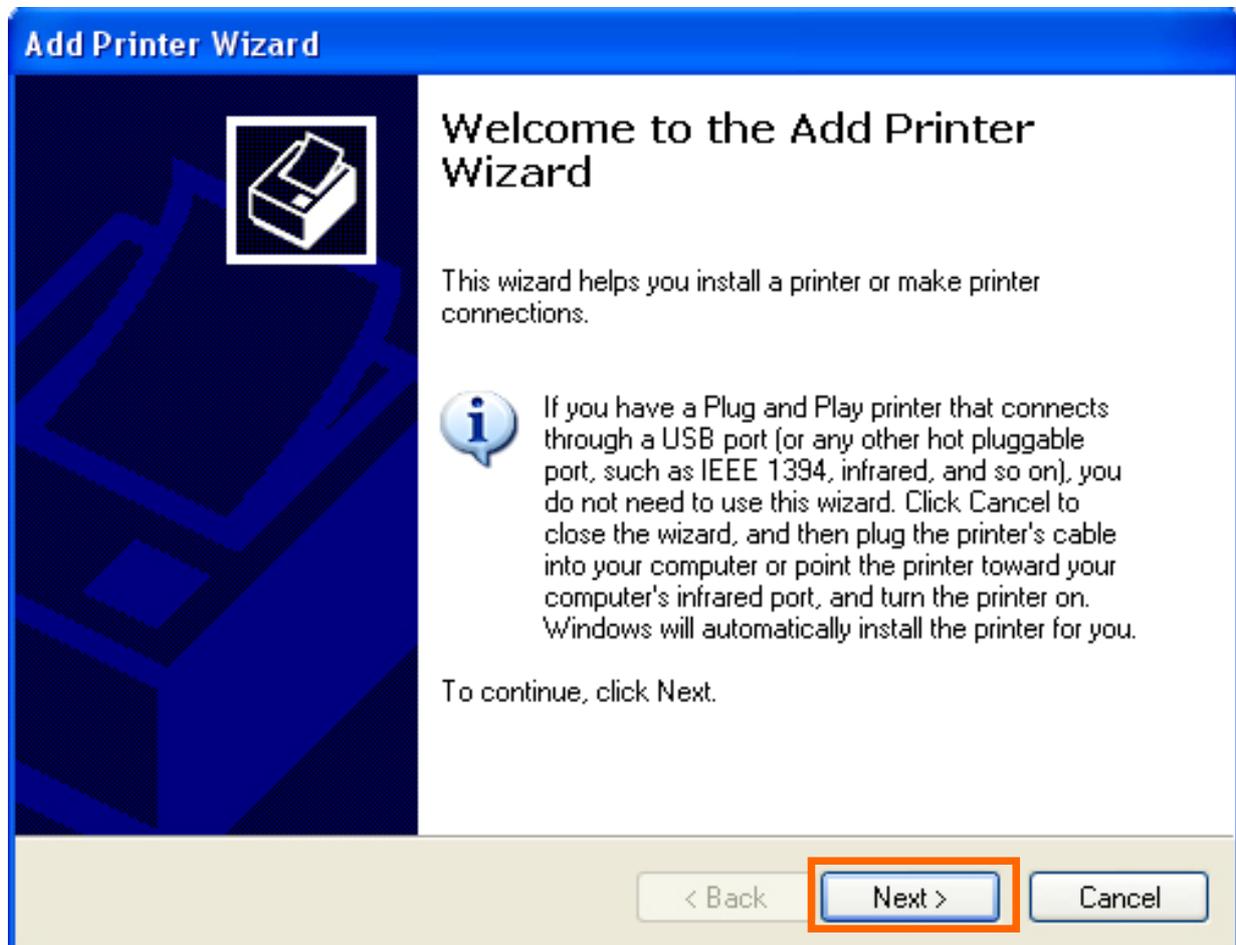


TCP/IP Printing for Windows XP

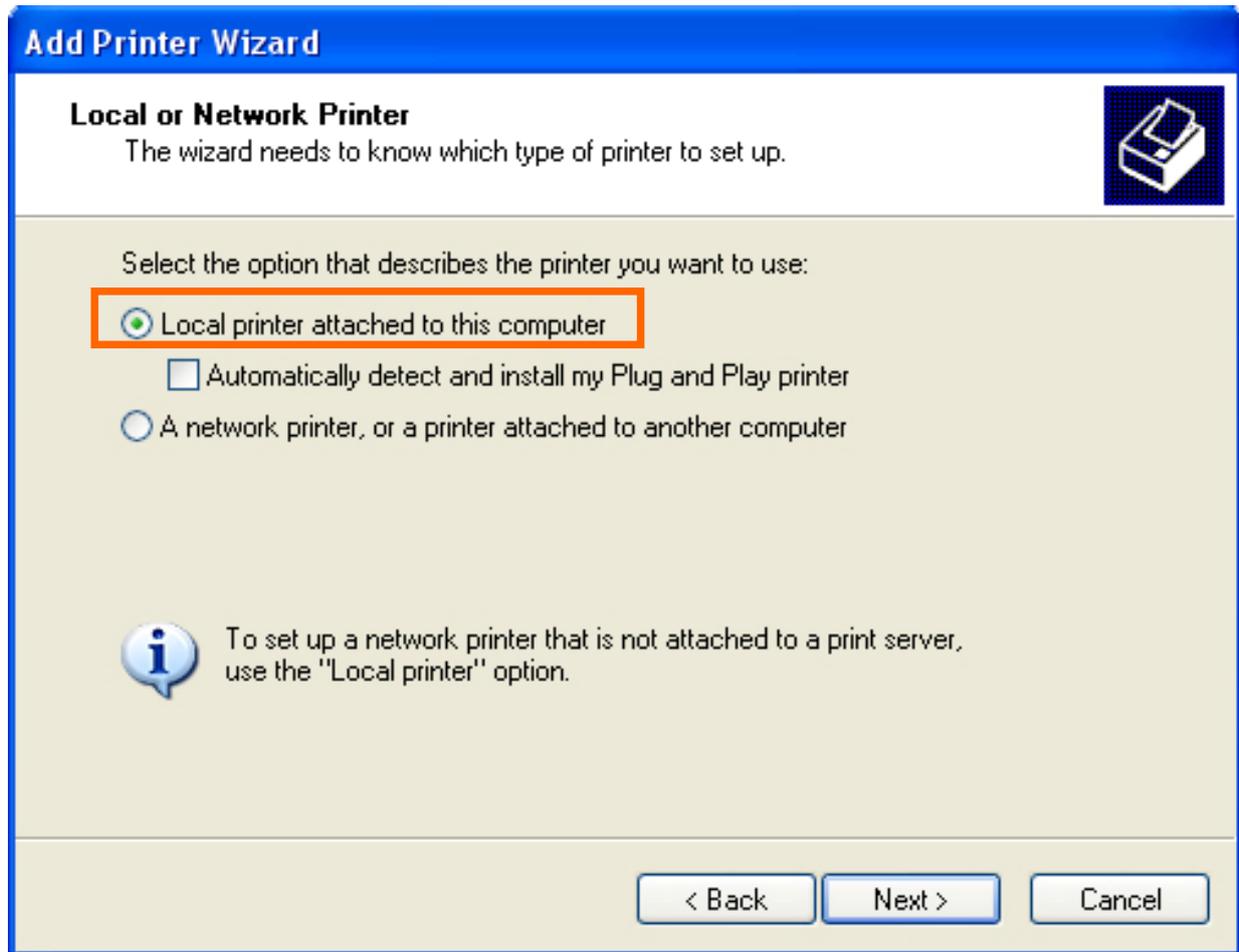
Go to **Start** → **Printers and Faxes** → **Add a Printer**.



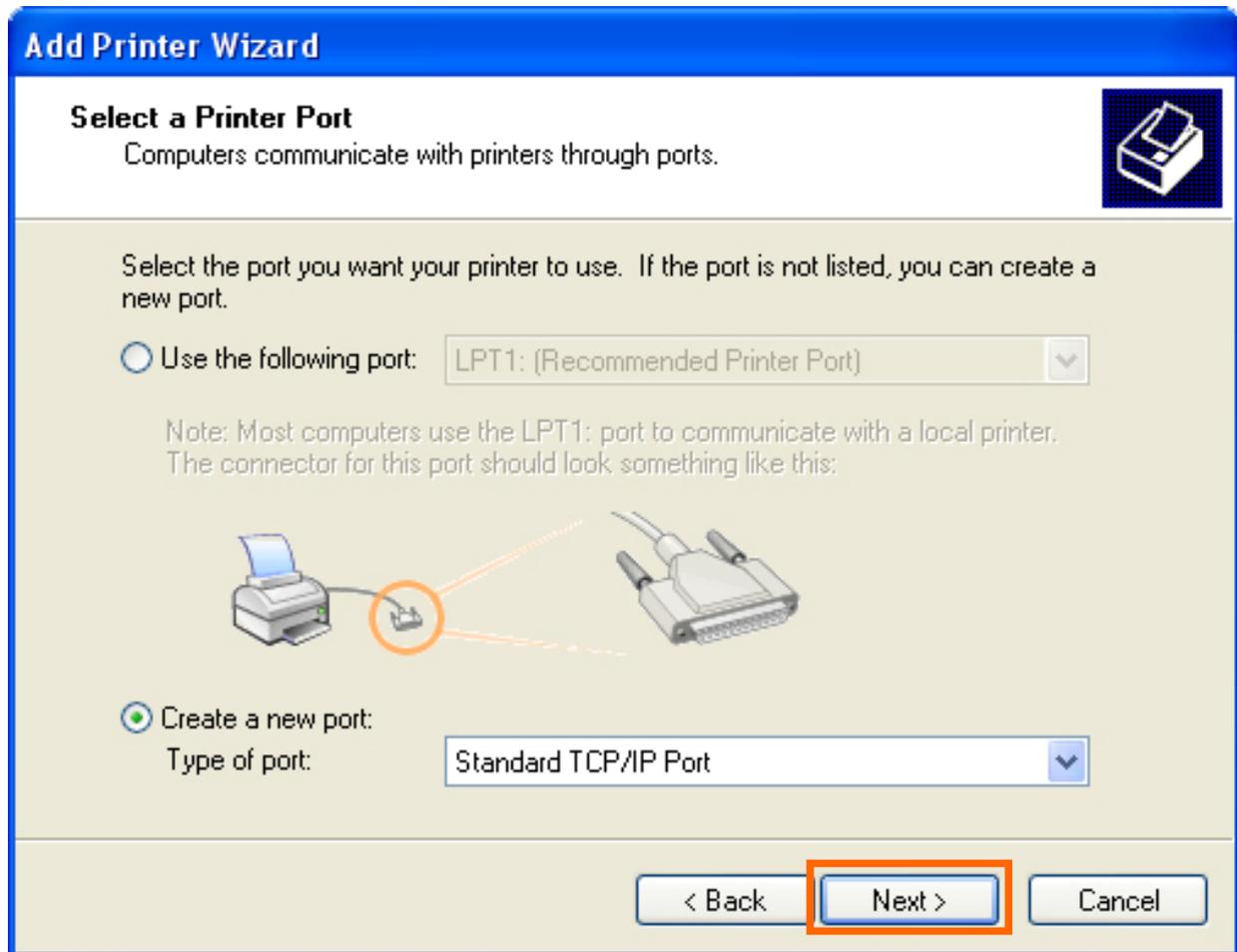
When the following screen shows up, click **Next**.



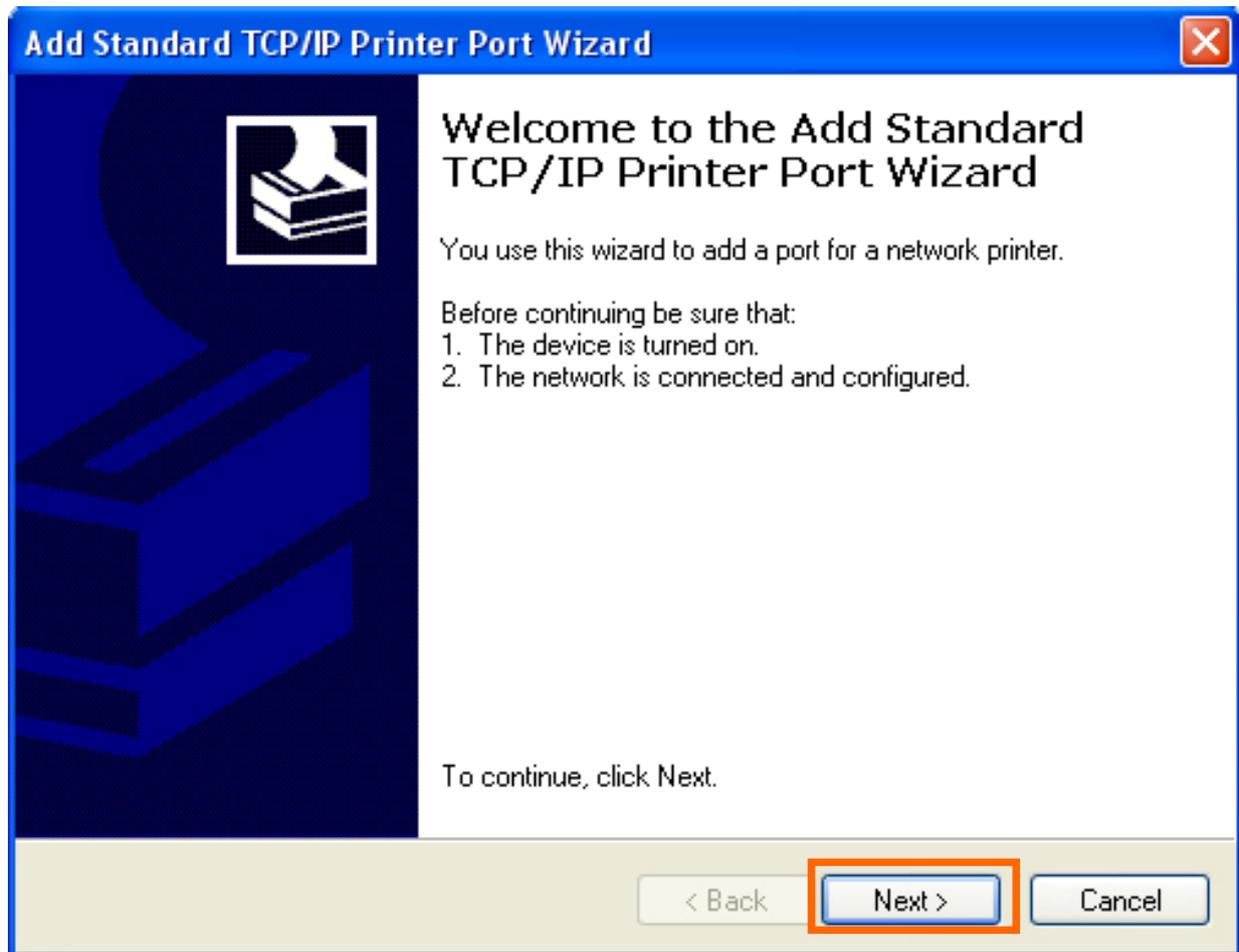
Select the first option, **Local printer attached to this computer**, and click **Next**.



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



Click **Next**.



Type the IP address of the print server (e.g. 10.62.31.15 used in this manual), which can be referred from the **PRINTER SERVER STATUS** of the print server's Web configuration, and then the Port Name will automatically be filled in. Click **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: DP-G310 Firmware Version: 2.20

D-Link

DP-G310	Setup	Advanced	Maintenance	Status		Help
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Device Info

Network

Wireless

Print Log

Printer
Off line

DEVICE INFO

The following shows the general system information.

PRINT SERVER STATUS

Server Name : dlink-C352AB
Model : DP-G310
Firmware Version : 2.20 (2007-08-28)
MAC Address : 00 17 9A C3 52 AB
IP Address : 10.62.31.15 (Manual)
Up Time : 0 days, 00:01:32

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.

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

Add Standard TCP/IP Printer Port Wizard

Additional Port Information Required
The device could not be identified.

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

Device Type

Standard Generic Network Card

Custom Settings...

Then the follow screen will shows up, select **LPR** from the **Protocol** field.

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

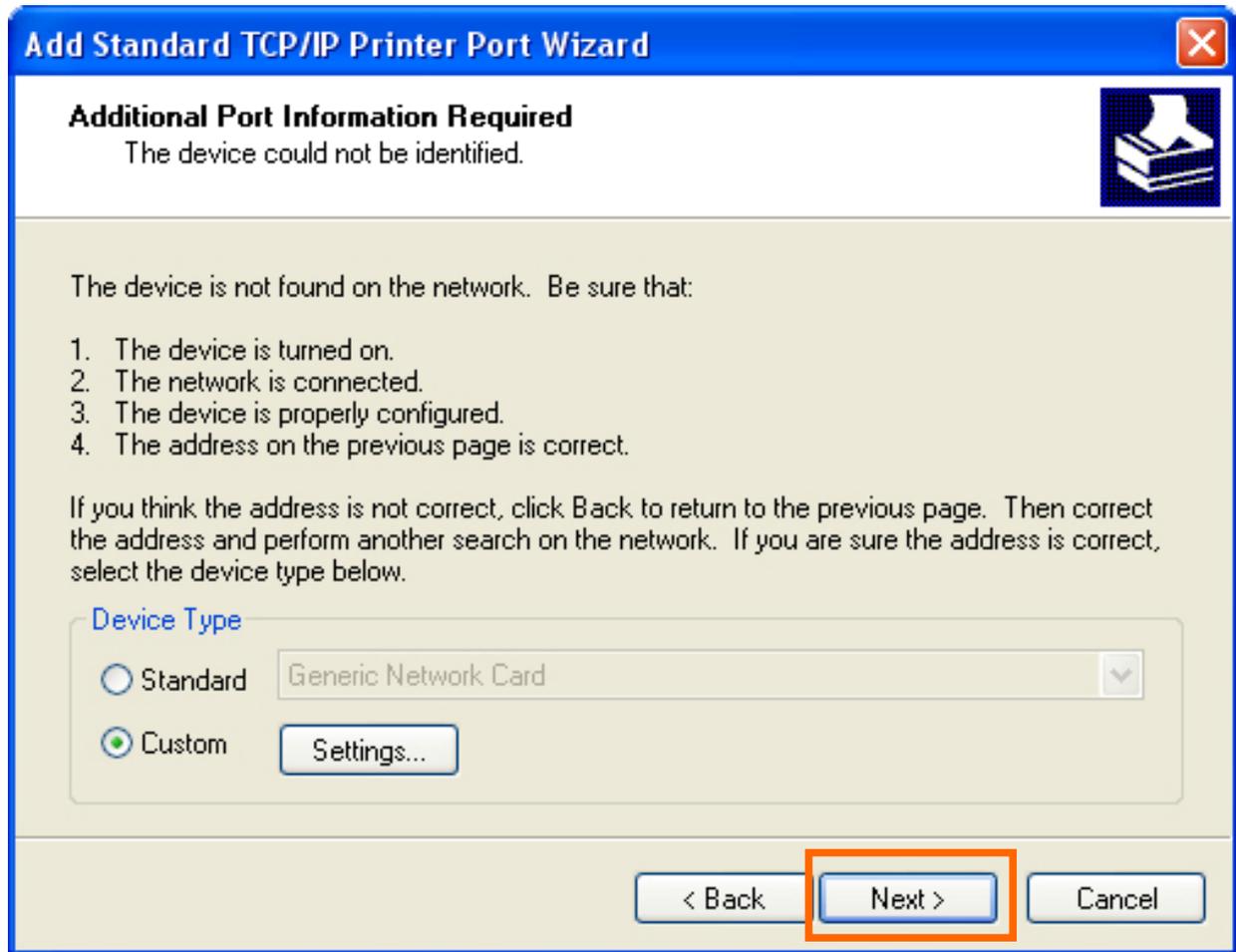
The image shows a Windows-style dialog box titled "Configure Standard TCP/IP Port Monitor". It has a blue title bar with a help icon and a close icon. The dialog is divided into several sections:

- Port Settings:** Contains two text input fields. The first is labeled "Port Name:" and contains the text "IP_10.62.31.15". The second is labeled "Printer Name or IP Address:" and contains the text "10.62.31.15".
- Protocol:** A section with two radio buttons. The "Raw" button is unselected, and the "LPR" button is selected. This section is highlighted with an orange border.
- Raw Settings:** Contains a text input field labeled "Port Number:" with the value "515".
- LPR Settings:** Contains a text input field labeled "Queue Name:" with the value "dlk-C352AB-U1". This section is highlighted with an orange border.
- Below the LPR Settings section, there are two unchecked checkboxes: "LPR Byte Counting Enabled" and "SNMP Status Enabled".
- 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" and "Cancel". The "OK" button is highlighted with an orange border.

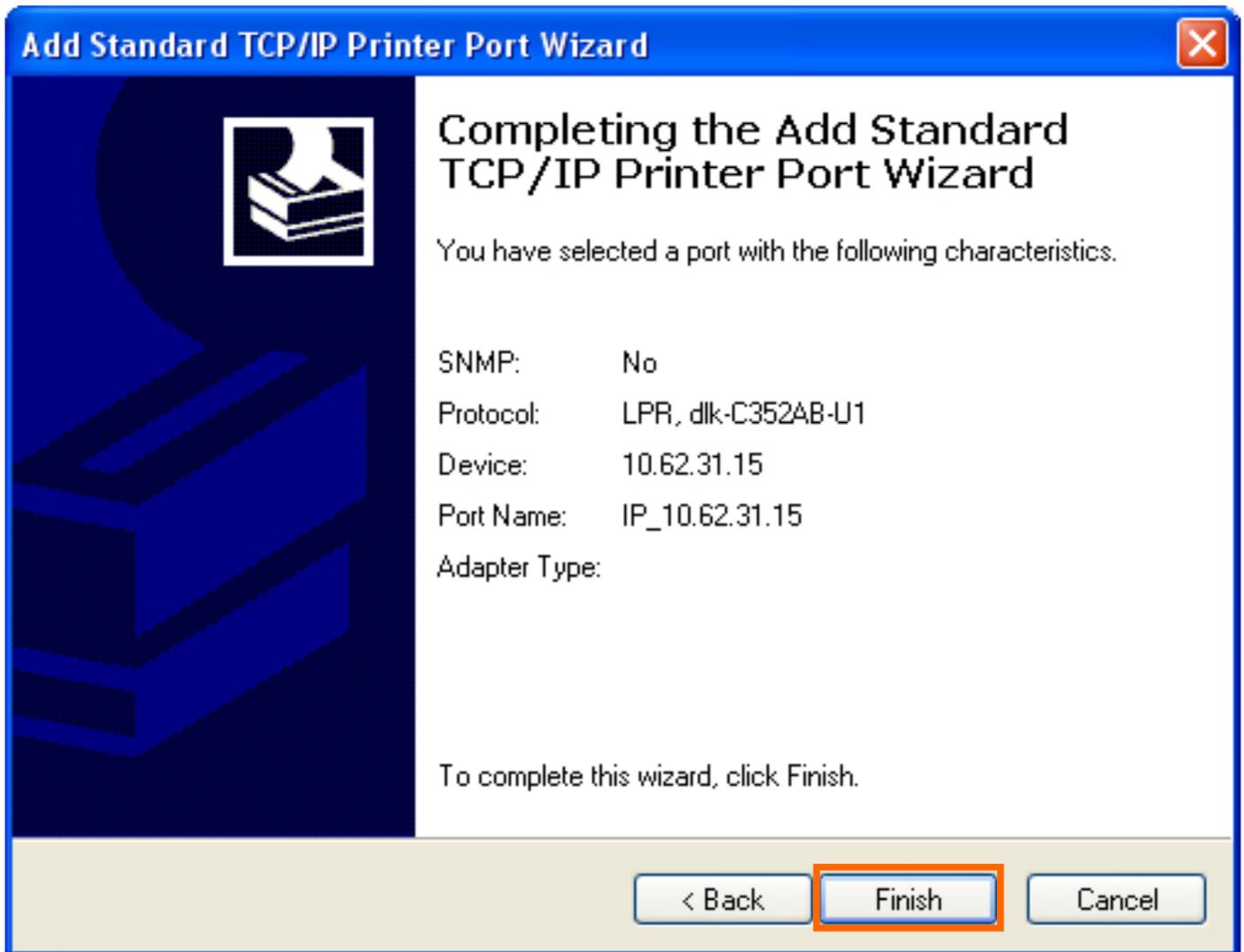
D-Link®

DP-G310	Setup	Advanced	Maintenance	Status	Help
Device Info Network Wireless Print Log  Printer Off line <input type="button" value="Reboot"/>	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. LAN Status: You can monitor the networking status in this field, including the network connection, speed, and the packets status.	
	PRINT SERVER STATUS Server Name : dlink-C352AB Model : DP-G310 Firmware Version : 2.20 (2007-08-28) MAC Address : 00 17 9A C3 52 AB IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:01:32				
	PRINTER STATUS USB : Printer Name : dlk-C352AB-U1 Printer Speed : Off line Printer Status : Off line Total Print Jobs : 0 Total Print Size : 0 KBytes				

Click **Next**.

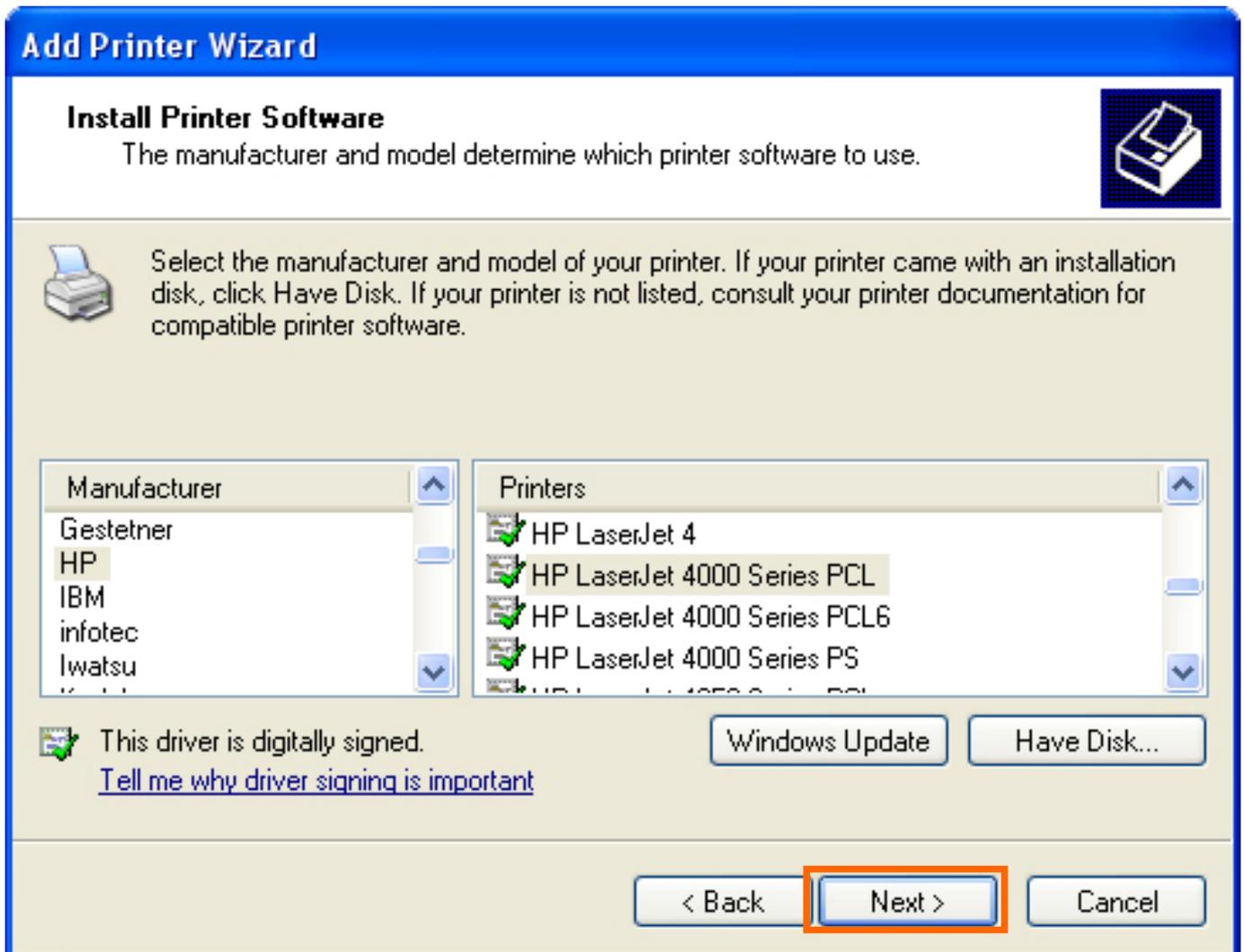


Click **Finish**.

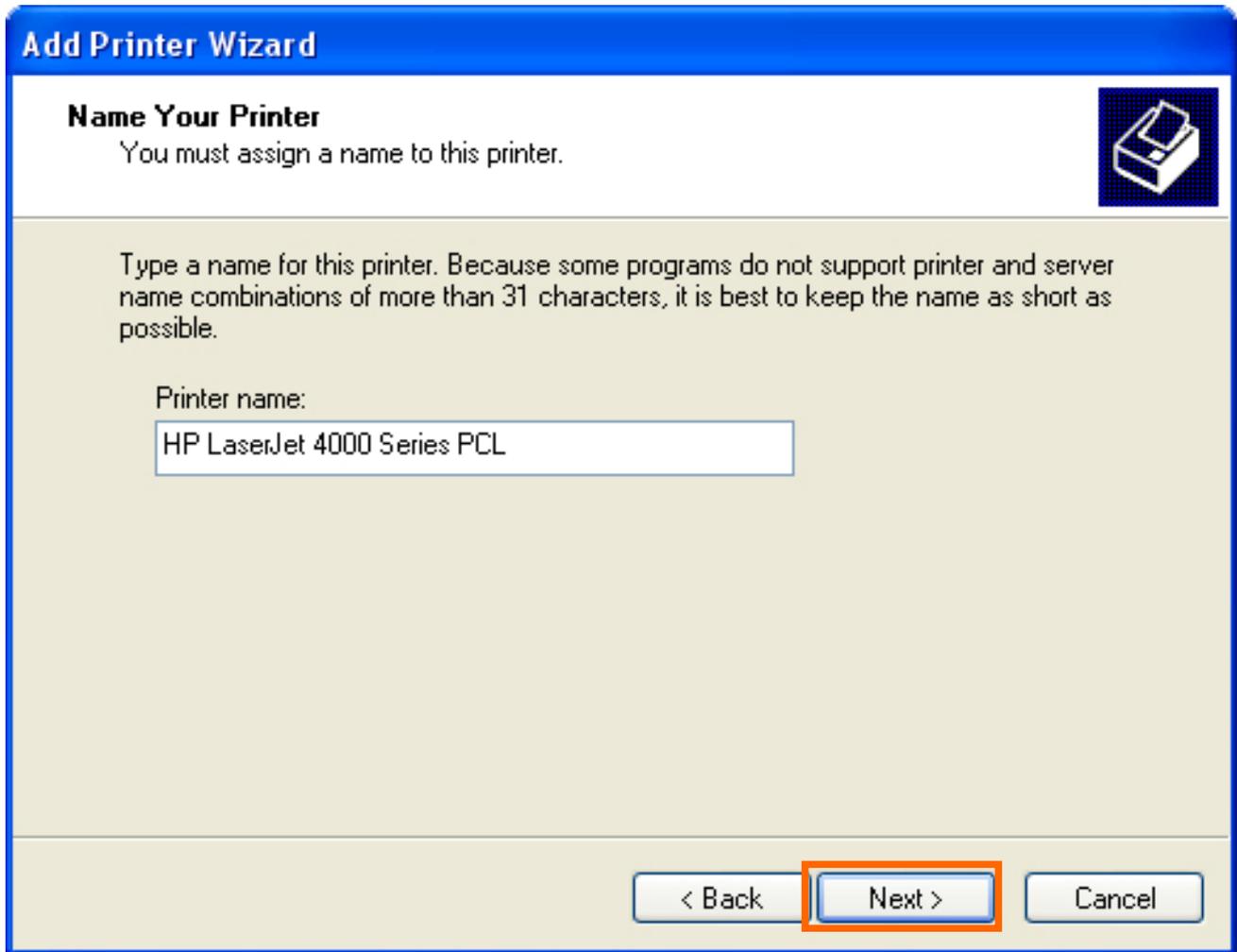


Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.

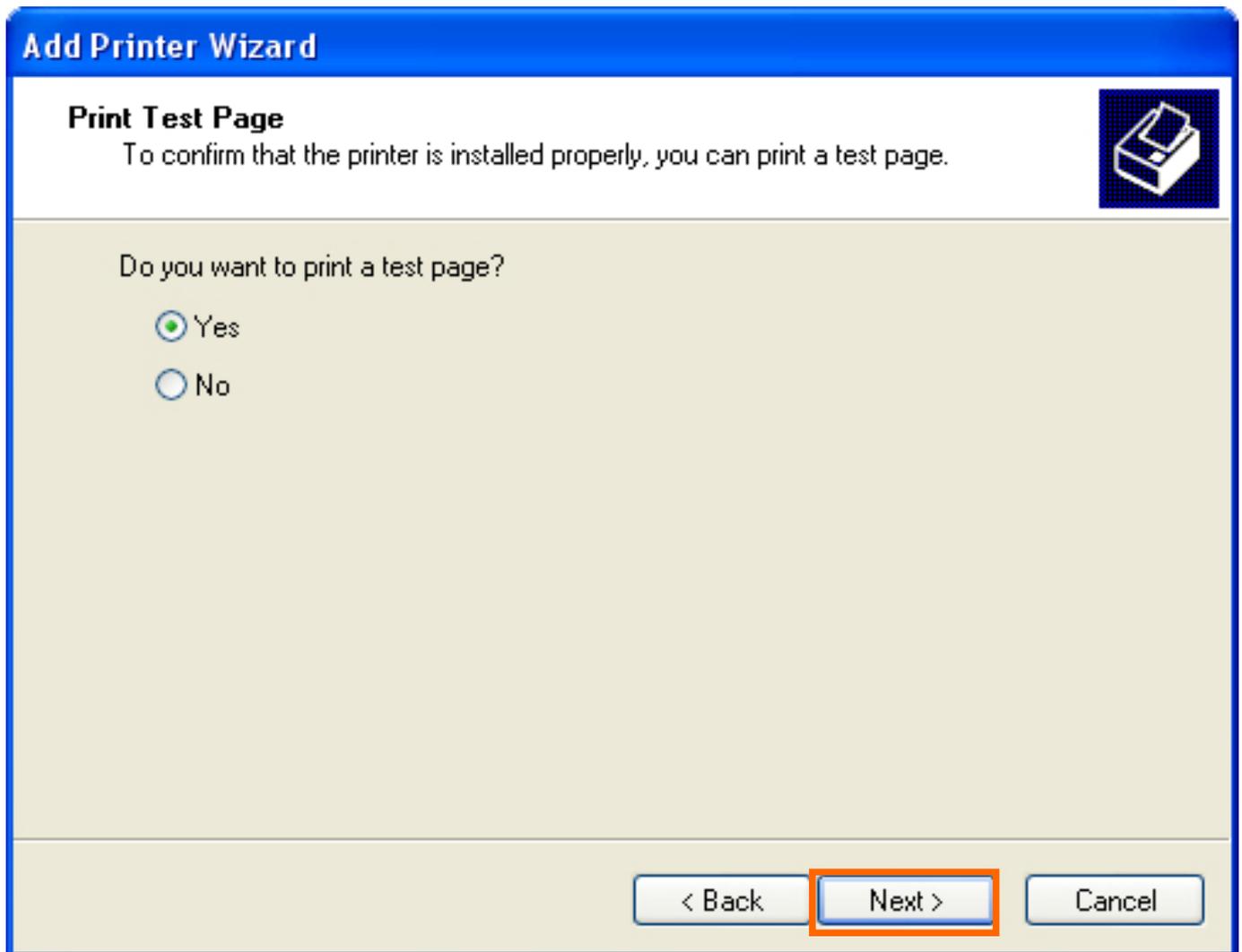
Click **Next**.



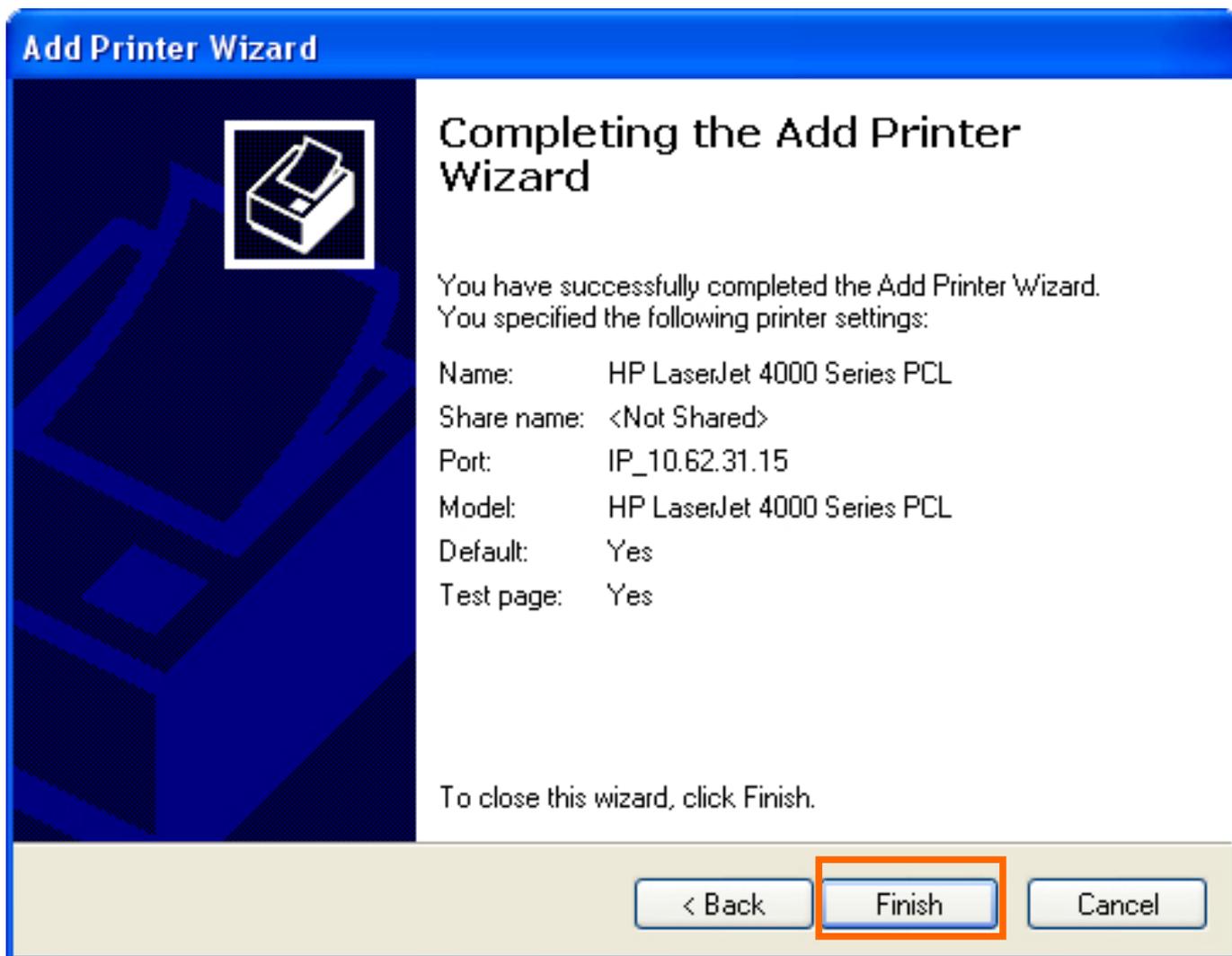
At this screen, you can input a name for the printer, and then click **Next**.



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



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

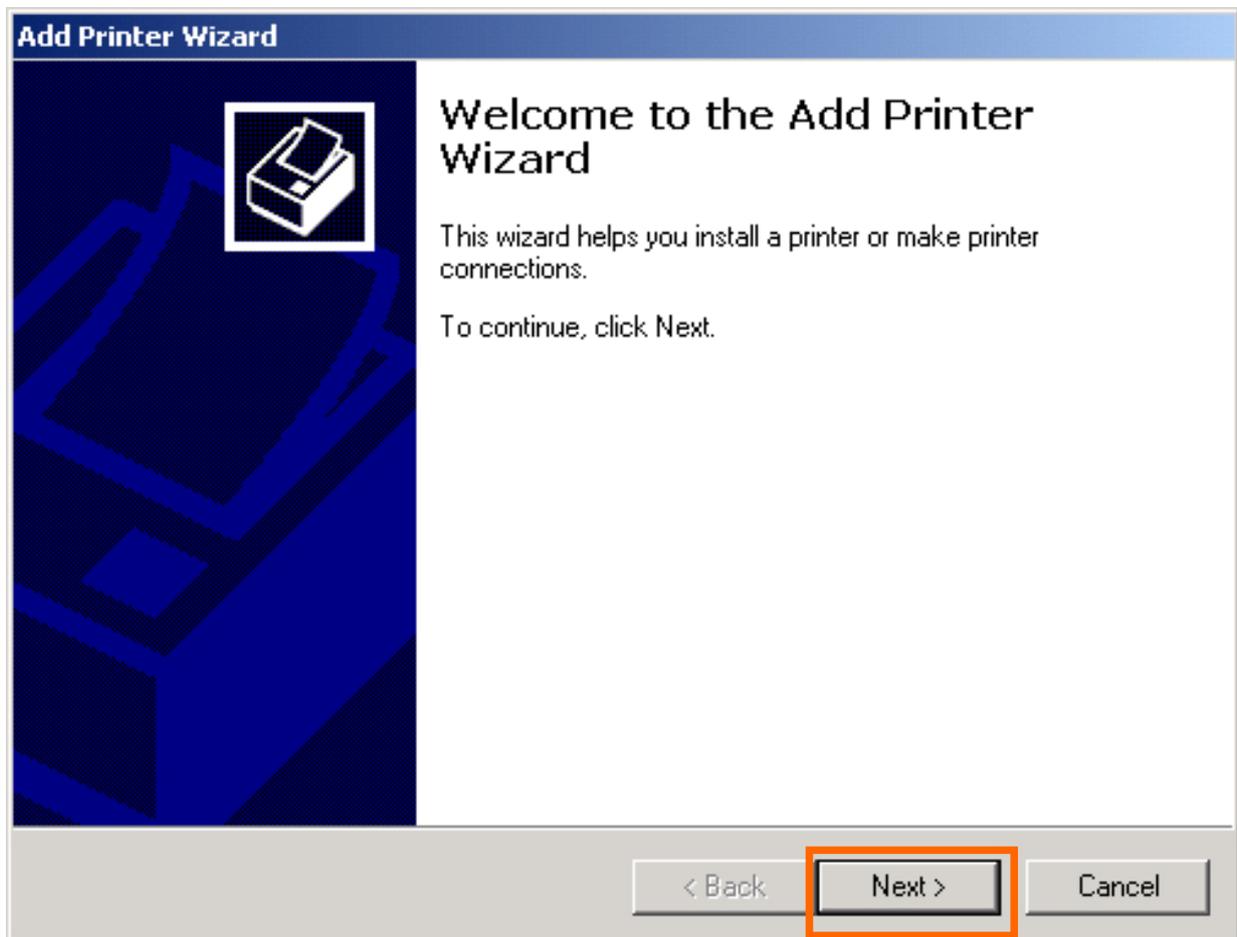


TCP/IP Printing for Windows 2000

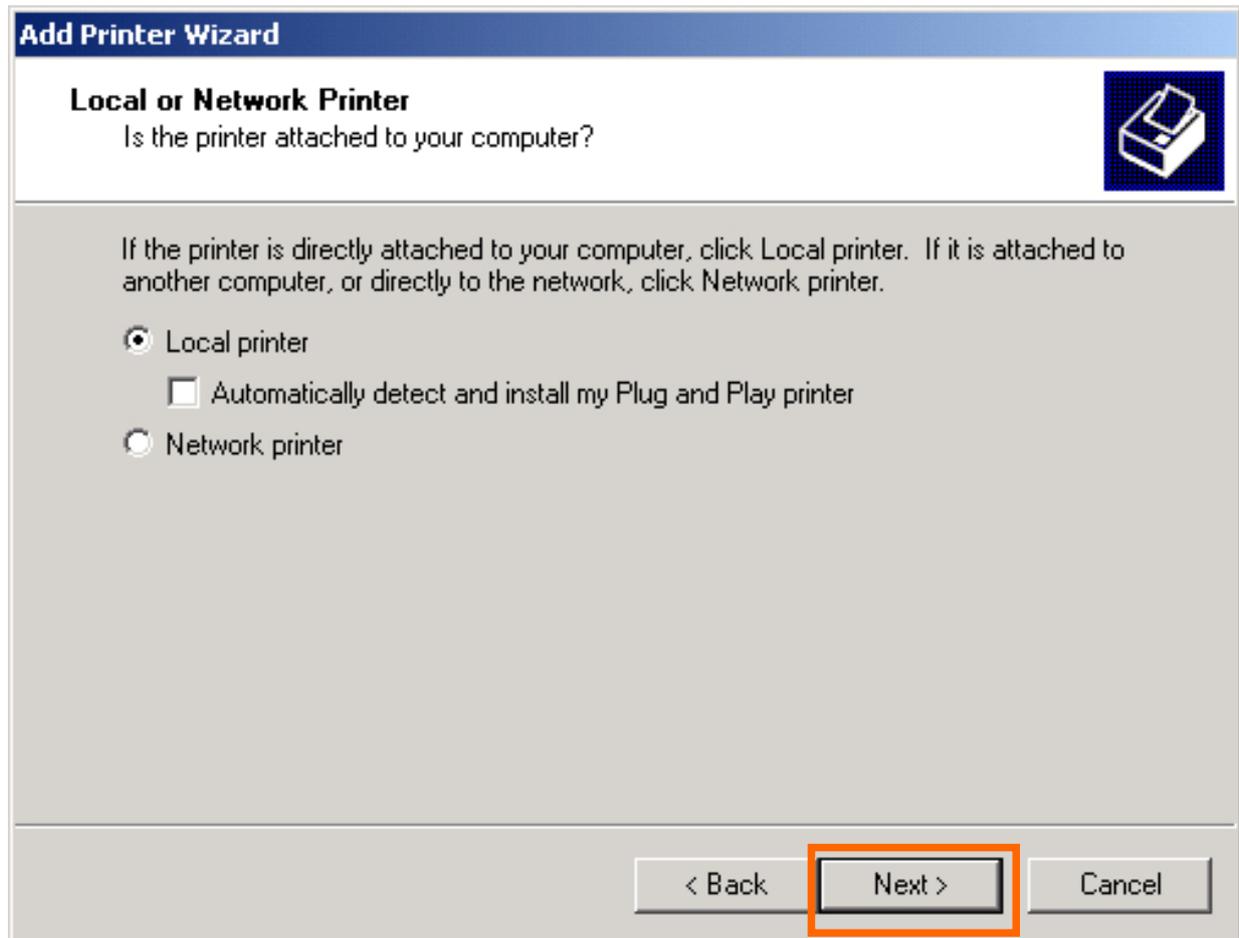
Go to **Start** → **Settings** → **Printers and Faxes** → **Add a Printer**.



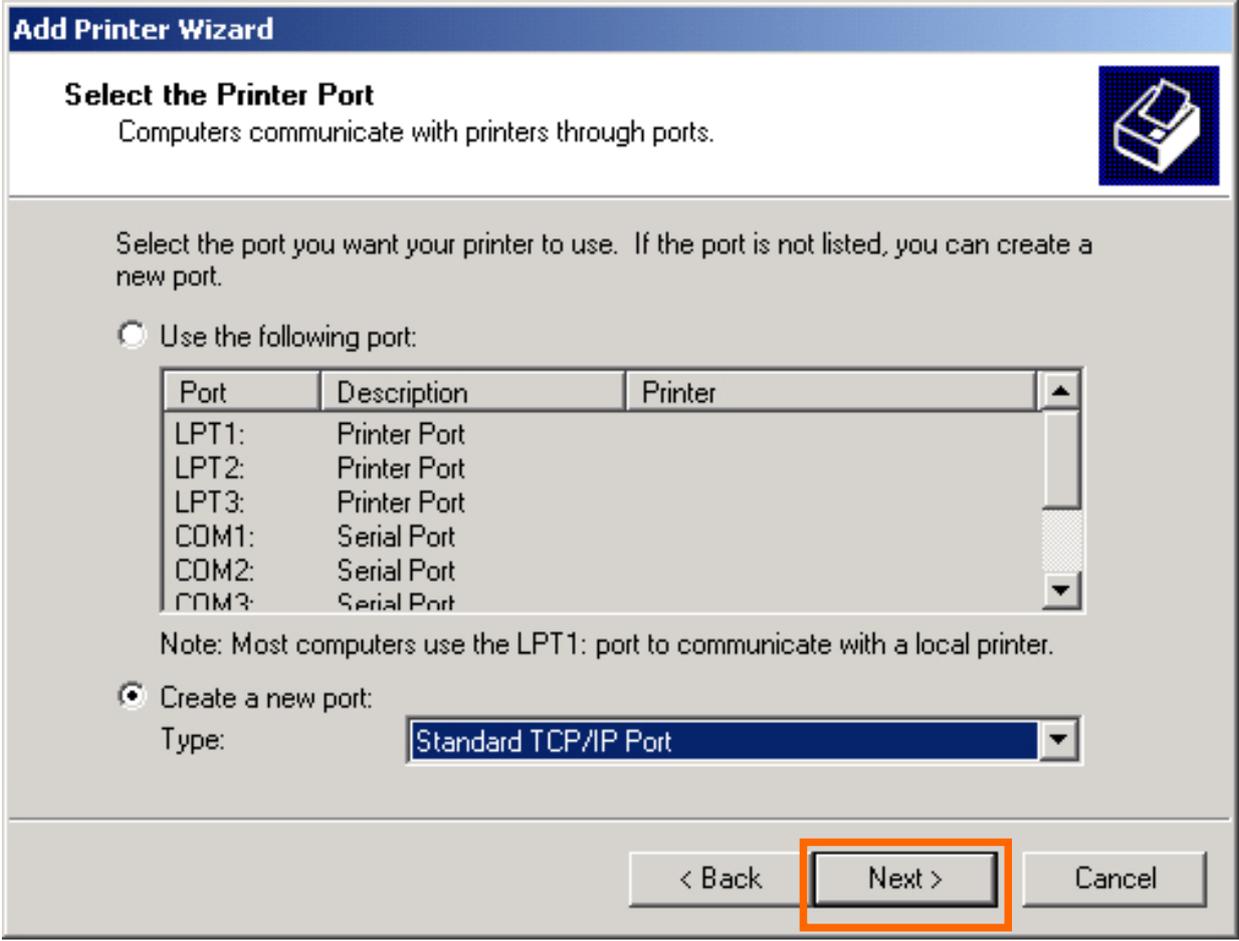
When the following screen shows up, click **Next**.



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



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



Add Printer Wizard

Select the Printer Port
Computers communicate with printers through ports.

Select the port you want your printer to use. If the port is not listed, you can create a new port.

Use the following port:

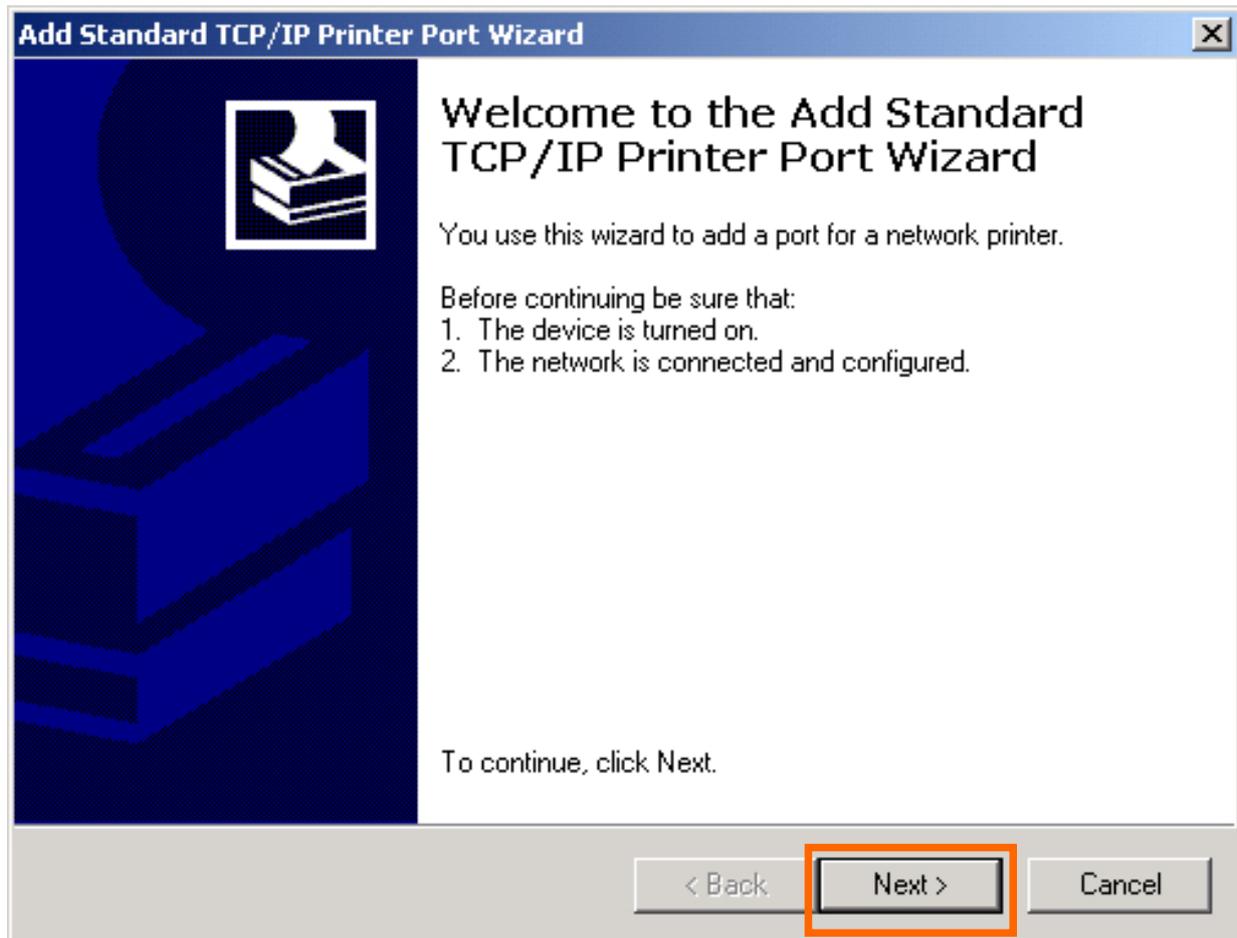
Port	Description	Printer
LPT1:	Printer Port	
LPT2:	Printer Port	
LPT3:	Printer Port	
COM1:	Serial Port	
COM2:	Serial Port	
COM3:	Serial Port	

Note: Most computers use the LPT1: port to communicate with a local printer.

Create a new port:
Type: **Standard TCP/IP Port**

< Back **Next >** Cancel

Click **Next**.



Type the IP address of the print server (e.g. 10.62.31.15 used in this manual), which can be checked from the **PRINTER SERVER STATUS** of the print server's Web configuration, and then the Port Name will automatically be filled in. Click **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: DP-G310 Firmware Version: 2.20

D-Link

DP-G310	Setup	Advanced	Maintenance	Status	Help
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Device Info

Network

Wireless

Print Log

Printer
Off line

DEVICE INFO

The following shows the general system information.

PRINT SERVER STATUS

Server Name : dlink-C352AB
 Model : DP-G310
 Firmware Version : 2.20 (2007-08-28)
 MAC Address : 00 17 9A C3 52 AB
IP Address : 10.62.31.15 (Manual)
 Up Time : 0 days, 00:01:32

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.

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

Add Standard TCP/IP Printer Port Wizard

Additional Port Information Required
The device could not be identified.

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click **Back** to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

Device Type

Standard Generic Network Card

Custom Settings...

Then the follow screen will shows up, select **LPR** from the **Protocol** field.

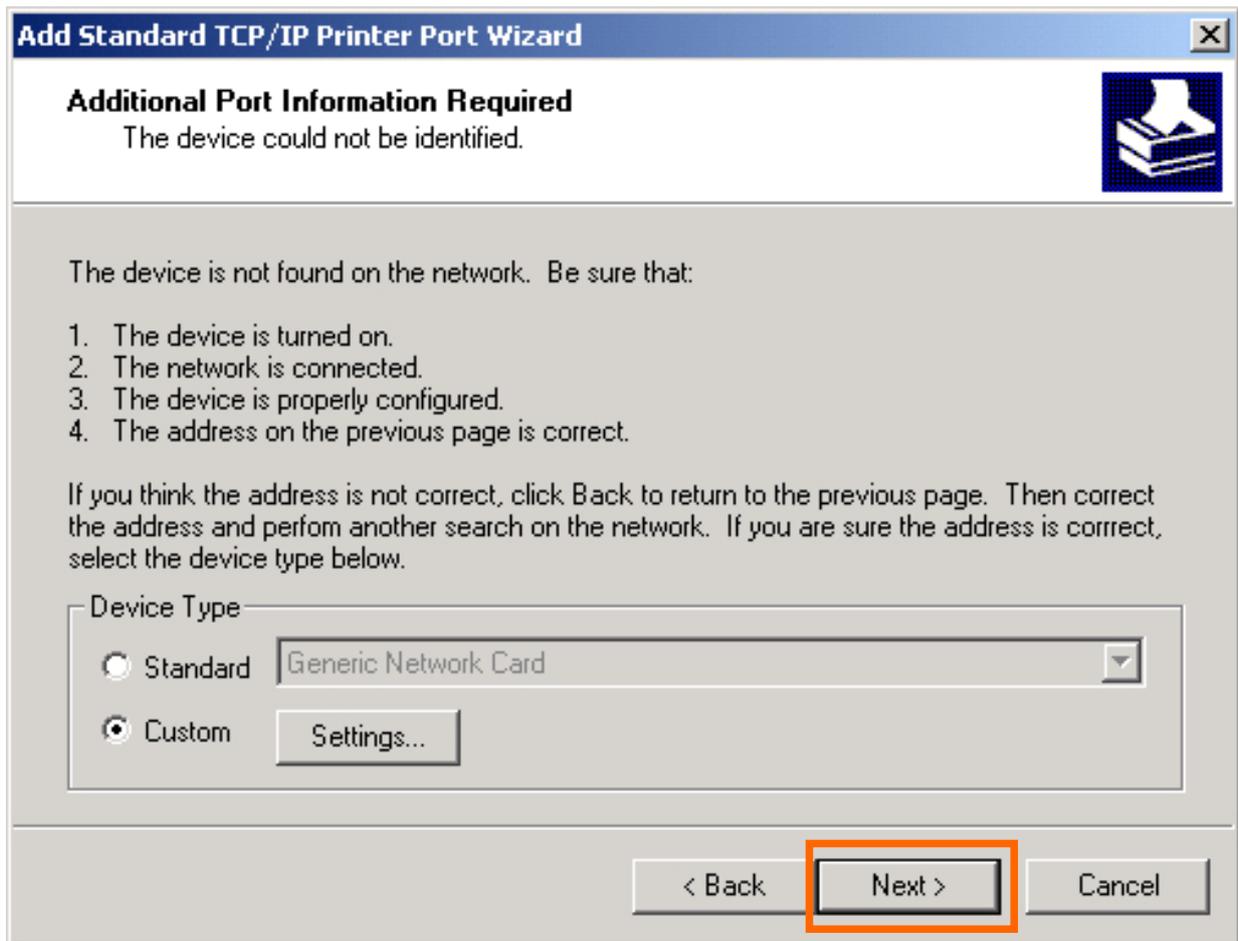
Then enter the **Queue Name**, which can be referred from **PRINTER STATUS** of the print server's Web configuration, in the **LPR Settings** field. Click **OK**.

The image shows a dialog box titled "Configure Standard TCP/IP Port Monitor". It has a "Port Settings" tab. The "Port Name" field contains "IP_10.62.31.15" and the "Printer Name or IP Address" field contains "10.62.31.15". The "Protocol" section has two radio buttons: "Raw" (unselected) and "LPR" (selected). Below this is the "Raw Settings" section with a "Port Number" field containing "9100". The "LPR Settings" section has a "Queue Name" field containing "dlk-C352AB-U1". There are two checkboxes: "LPR Byte Counting Enabled" (unchecked) and "SNMP Status Enabled" (unchecked). The "SNMP Status Enabled" section has a "Community Name" field containing "public" and an "SNMP Device Index" field containing "1". At the bottom right, there are "OK" and "Cancel" buttons. The "OK" button is highlighted with an orange box.

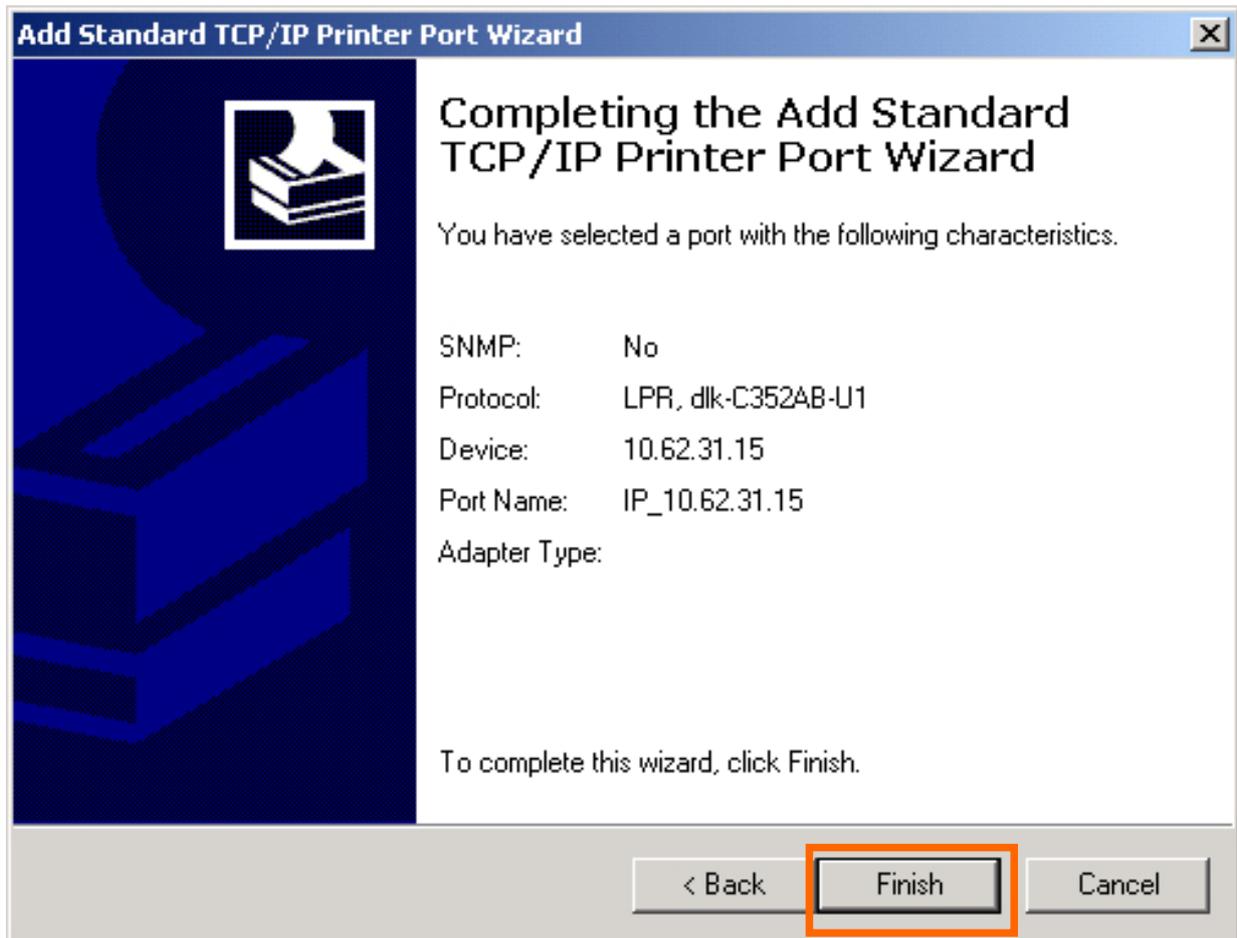


DP-G310	Setup	Advanced	Maintenance	Status	Help
Device Info Network Wireless Print Log  Printer Off line <input type="button" value="Reboot"/>	DEVICE INFO The following shows the general system information.			Helpful Hints.. Print Server Status: The information about the print server, including the firmware 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. LAN Status: You can monitor the networking status in this field, including the network connection, speed, and the packets status.	
	PRINT SERVER STATUS Server Name : dlink-C352AB Model : DP-G310 Firmware Version : 2.20 (2007-08-28) MAC Address : 00 17 9A C3 52 AB IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:01:32				
	PRINTER STATUS USB : Printer Name : dlk-C352AB-U1 Printer Speed : Off line Printer Status : Off line Total Print Jobs : 0 Total Print Size : 0 KBytes				

Click **Next**.

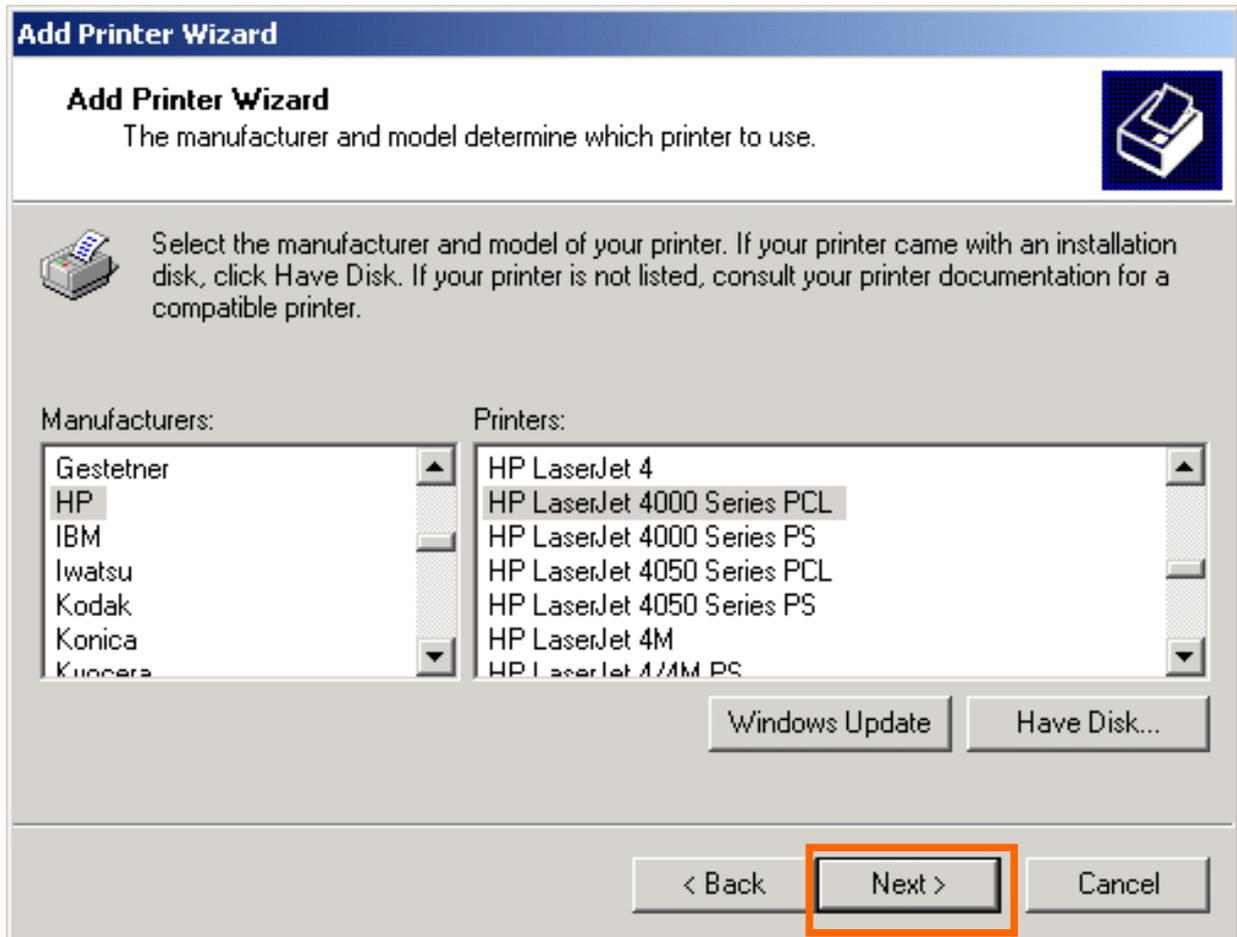


Click **Finish**.

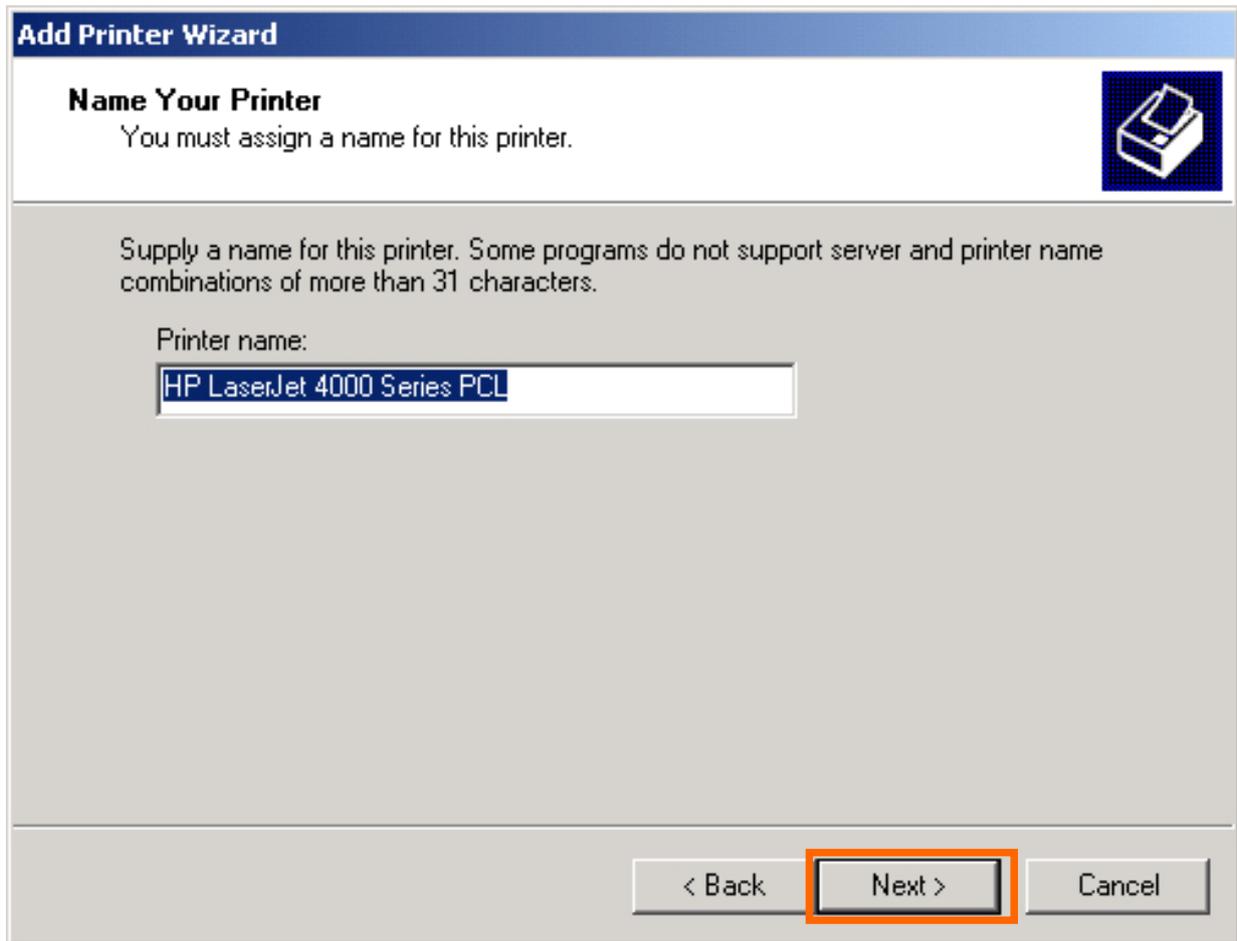


Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.

Click **Next**.



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



The screenshot shows a Windows-style dialog box titled "Add Printer Wizard". The main heading is "Name Your Printer" with a sub-instruction: "You must assign a name for this printer." To the right of this text is a printer icon. Below the instruction, a paragraph reads: "Supply a name for this printer. Some programs do not support server and printer name combinations of more than 31 characters." A text input field is labeled "Printer name:" and contains the text "HP LaserJet 4000 Series PCL". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with an orange rectangular border.

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

Add Printer Wizard

Printer Sharing
You can share this printer with other network users.



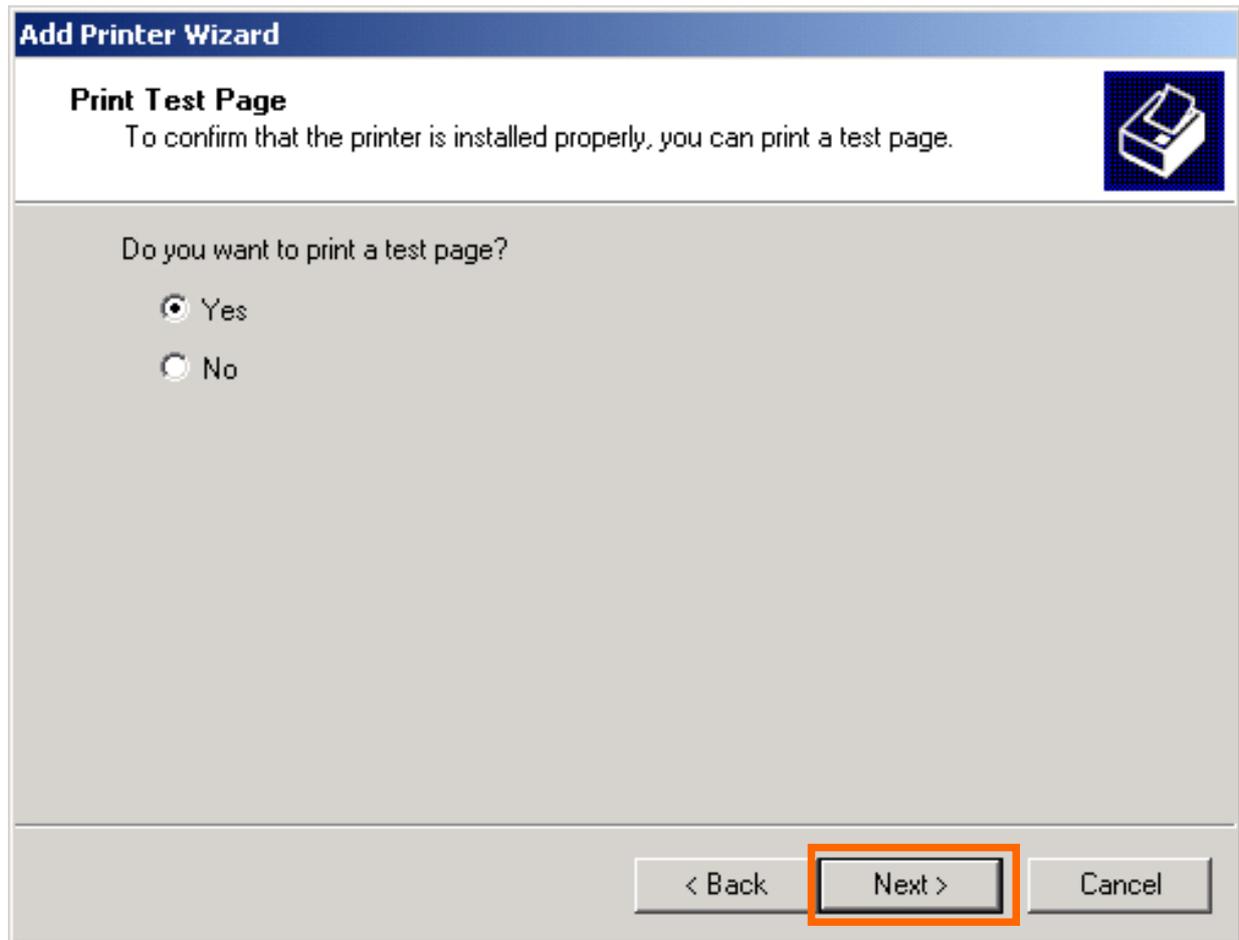
Indicate whether you want this printer to be available to other users. If you share this printer, you must provide a share name.

Do not share this printer

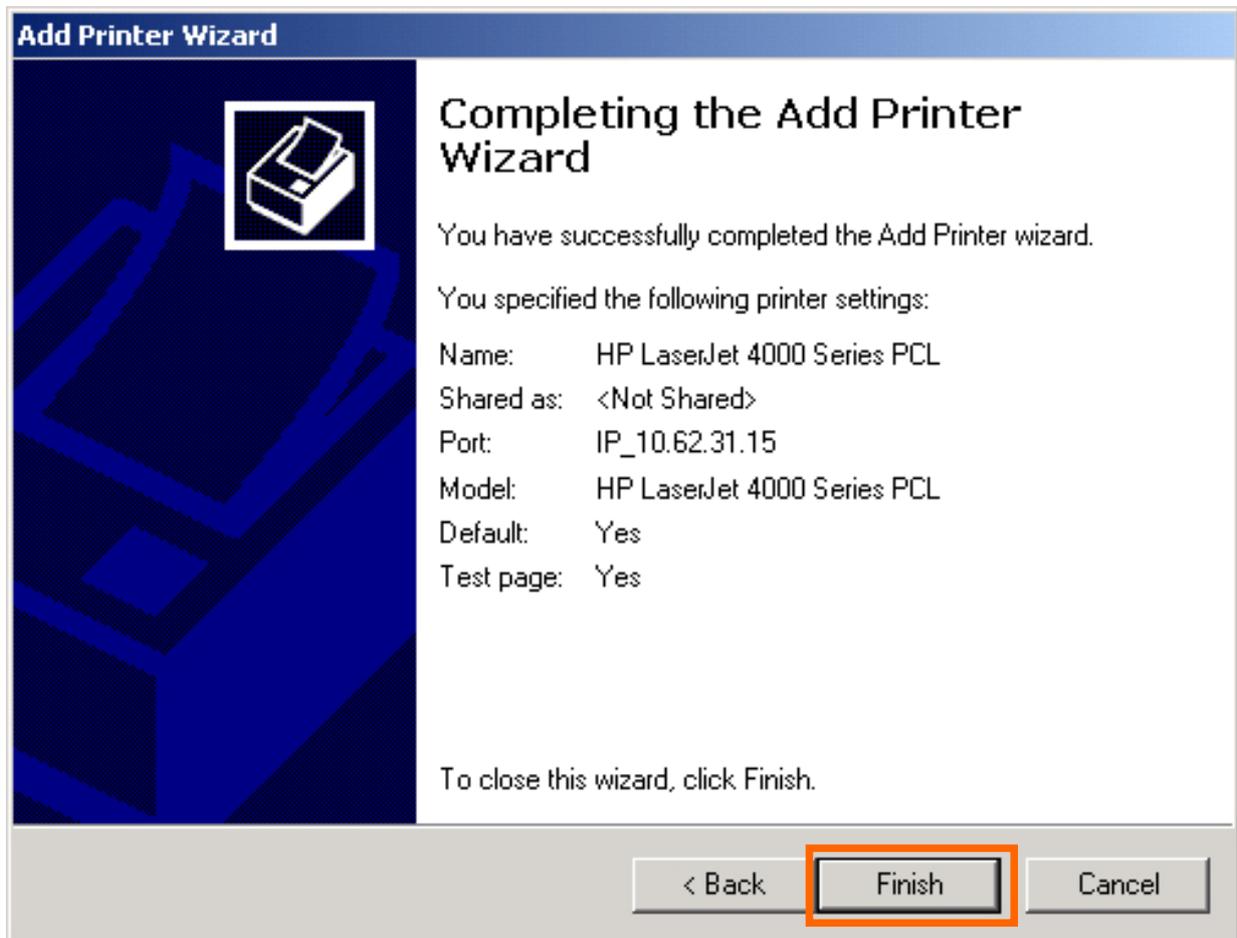
Share as:

< Back **Next >** Cancel

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

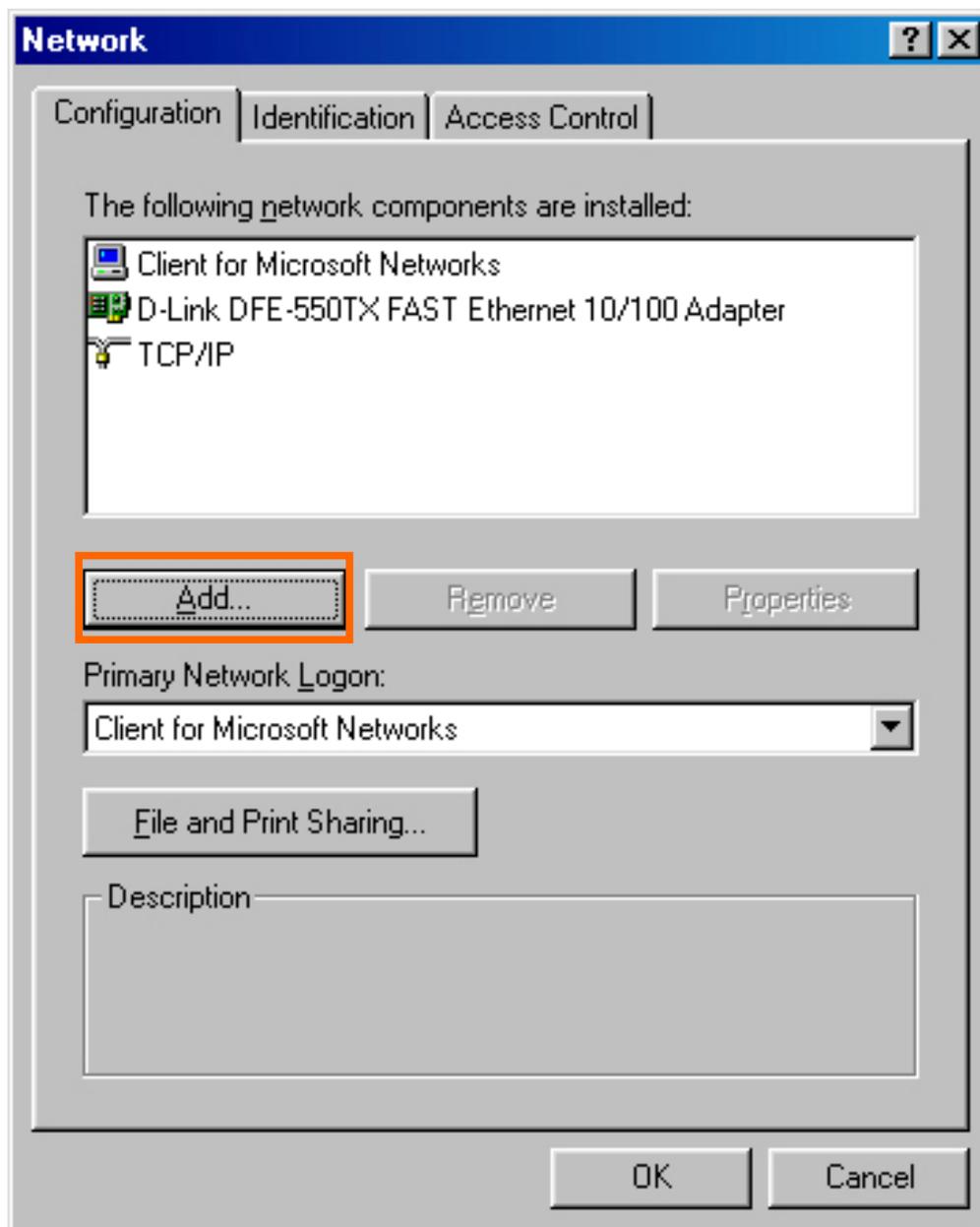


Click **Finish**. The printer is now ready for printing with Windows 2000 on your network.

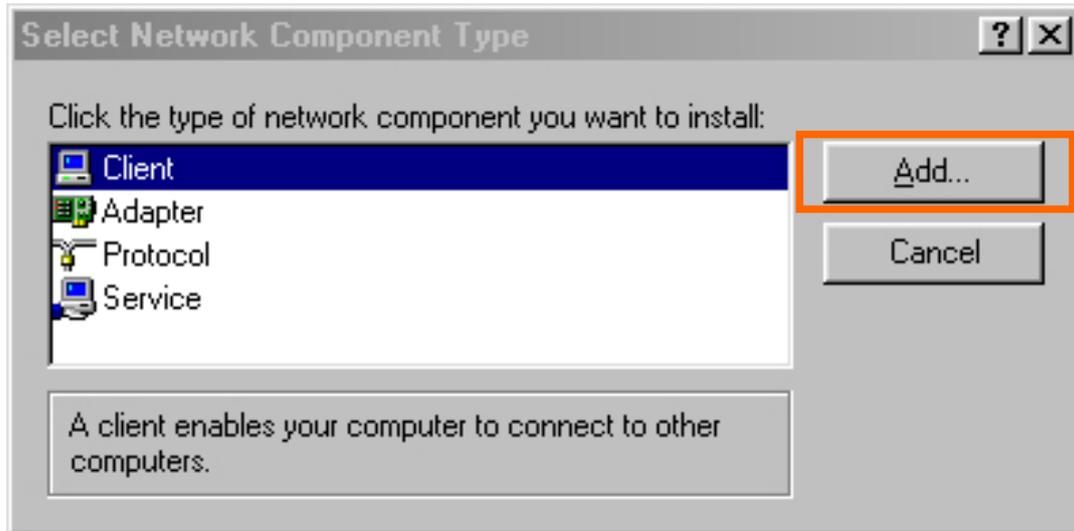


TCP/IP Printing for Windows 98SE/ME

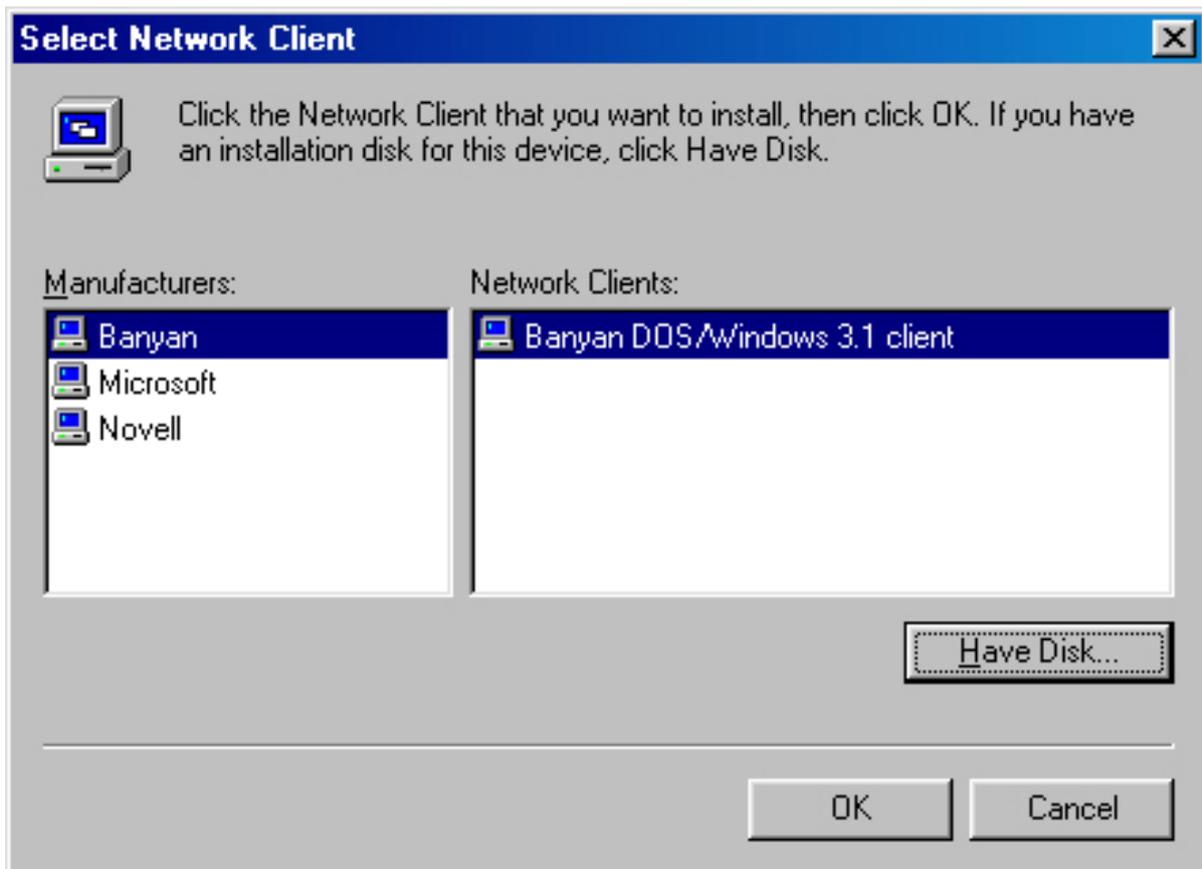
Go to **Start** → **Settings** → **Control Panel**. Double click on **Network**, and then click **Add**.



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

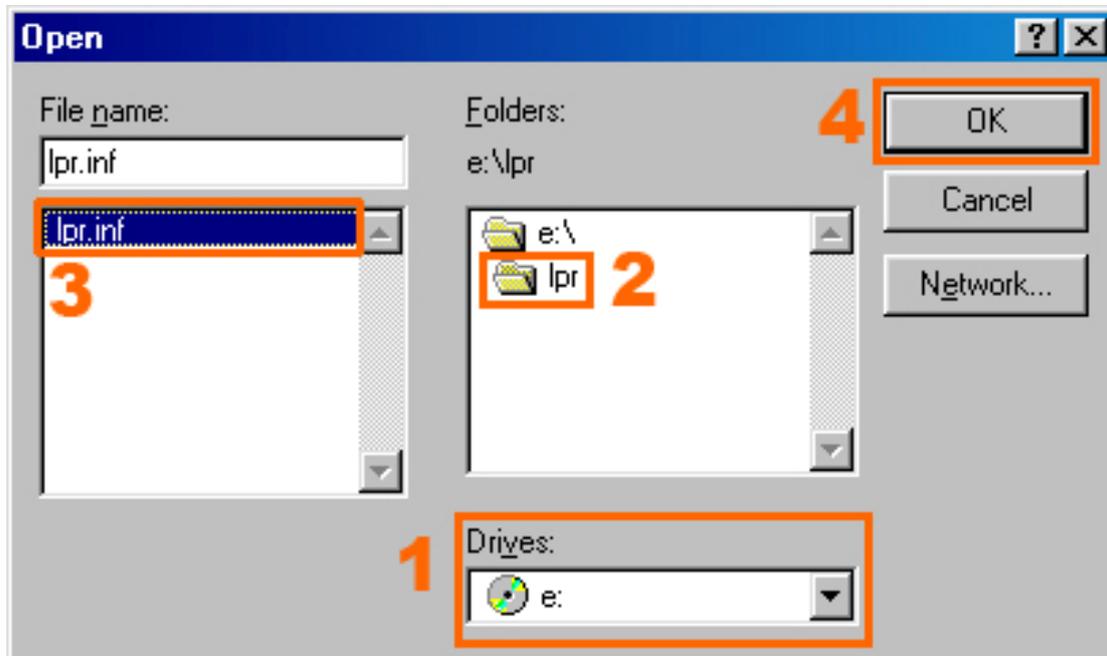


At this window, click **Have Disk**.

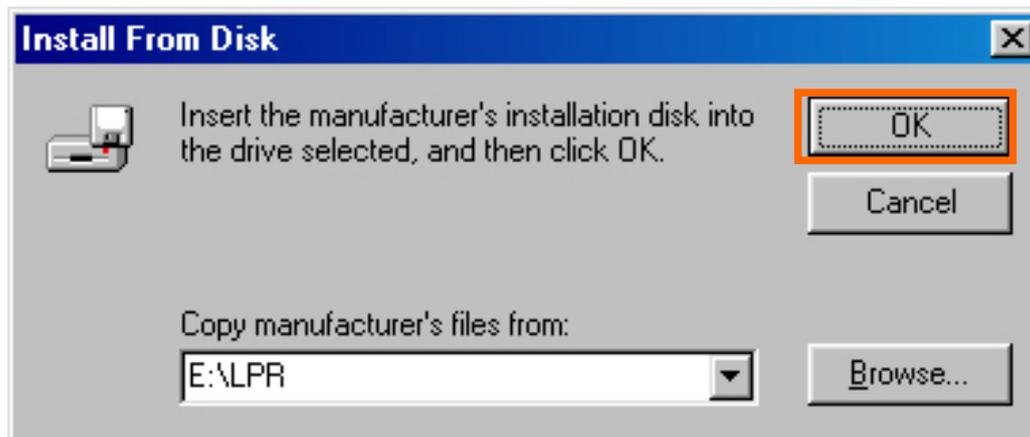


1. Insert the DP-G310 CD-ROM into your CD-ROM drive. Select the letter representing the CD-ROM drive on your computer from the pull-down menu.

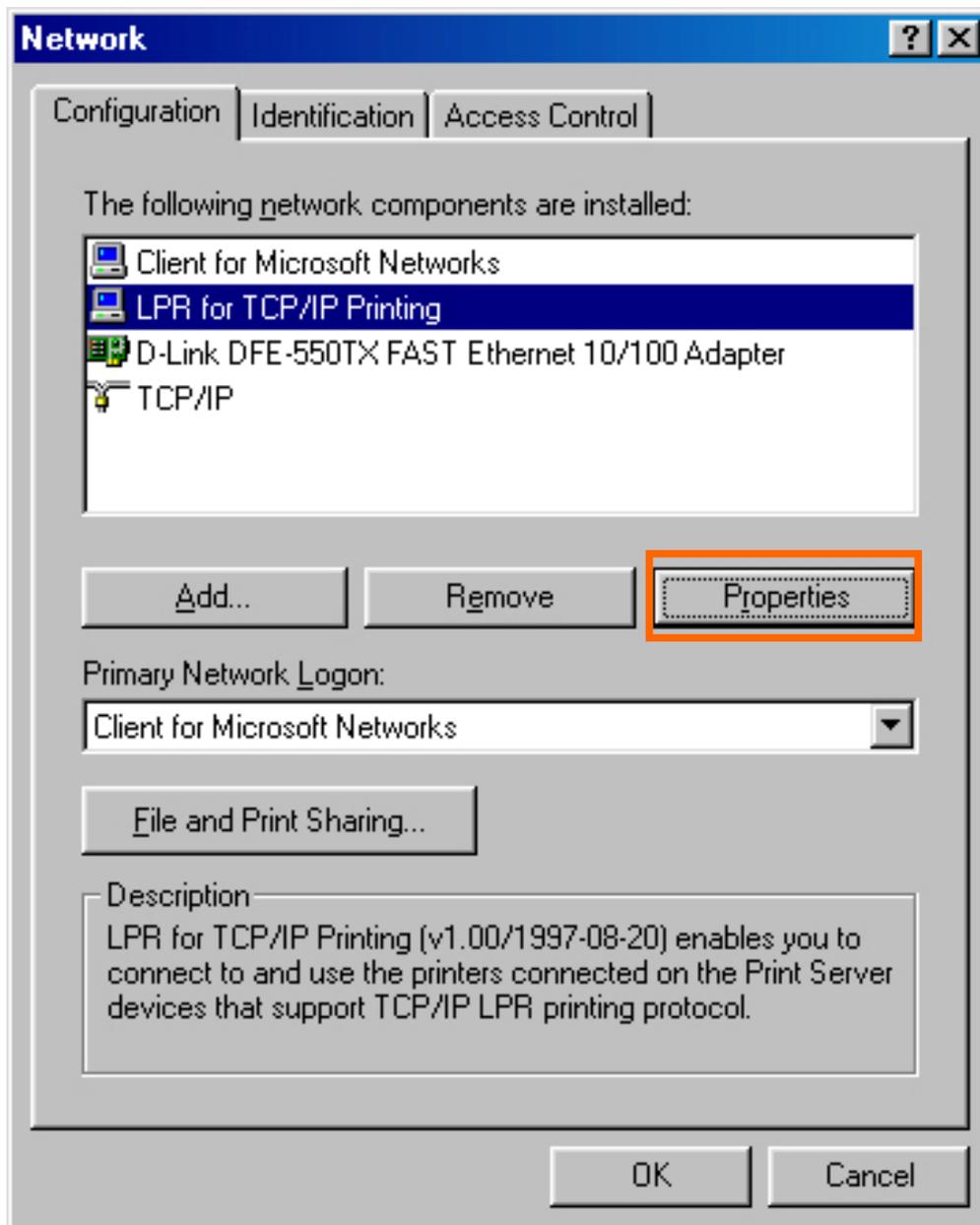
2. Double-click on the folder **lpr**.
3. Highlight **lpr.inf**
4. Click **OK**.



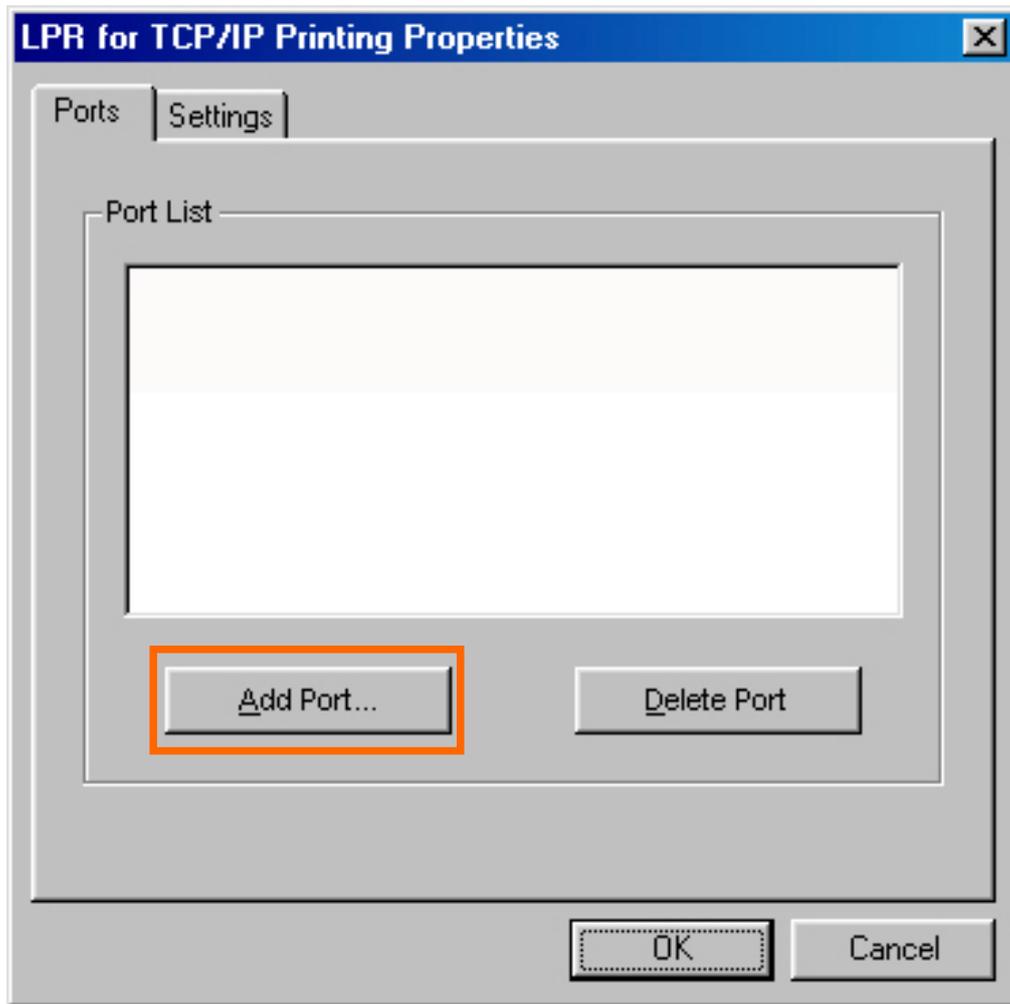
Click **OK** to accept the location of the file.



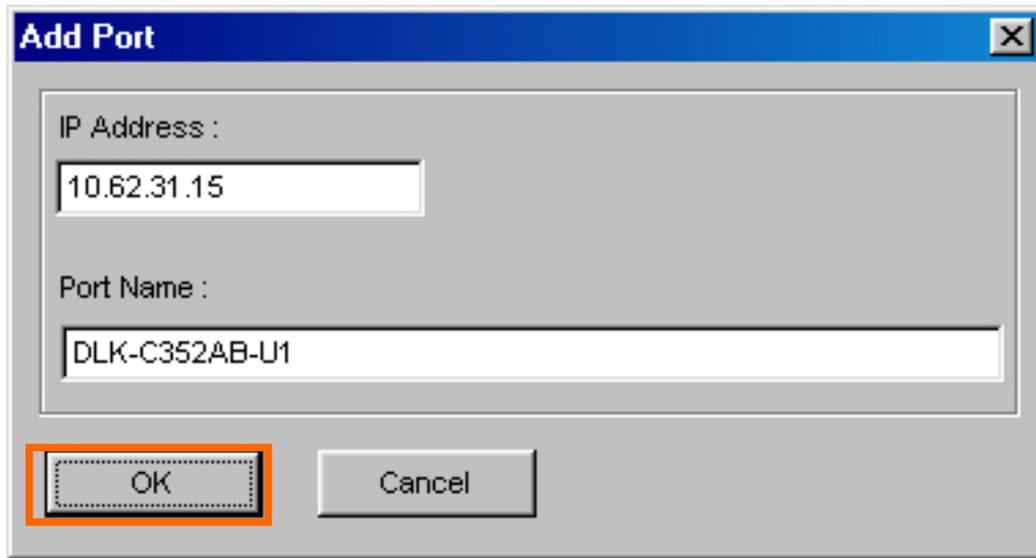
You should now be back to the Network Properties Page. Highlight **LPR for TCP/IP Printing** and click **Properties**.



Click **Add Port**.



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



Add Port

IP Address :
10.62.31.15

Port Name :
DLK-C352AB-U1

OK Cancel



Product: DP-G310 Firmware Version: 2.20

D-Link

DP-G310 // Setup Advanced Maintenance **Status** Help

Device Info

DEVICE INFO

The following shows the general system information.

PRINT SERVER STATUS

Server Name : dlink-C352AB
Model : DP-G310
Firmware Version : 2.20 (2007-08-28)
MAC Address : 00 17 9A C3 52 AB
IP Address : 10.62.31.15 (Manual)
Up Time : 0 days, 00:01:32

Printer Off line

Reboot

Helpful Hints..

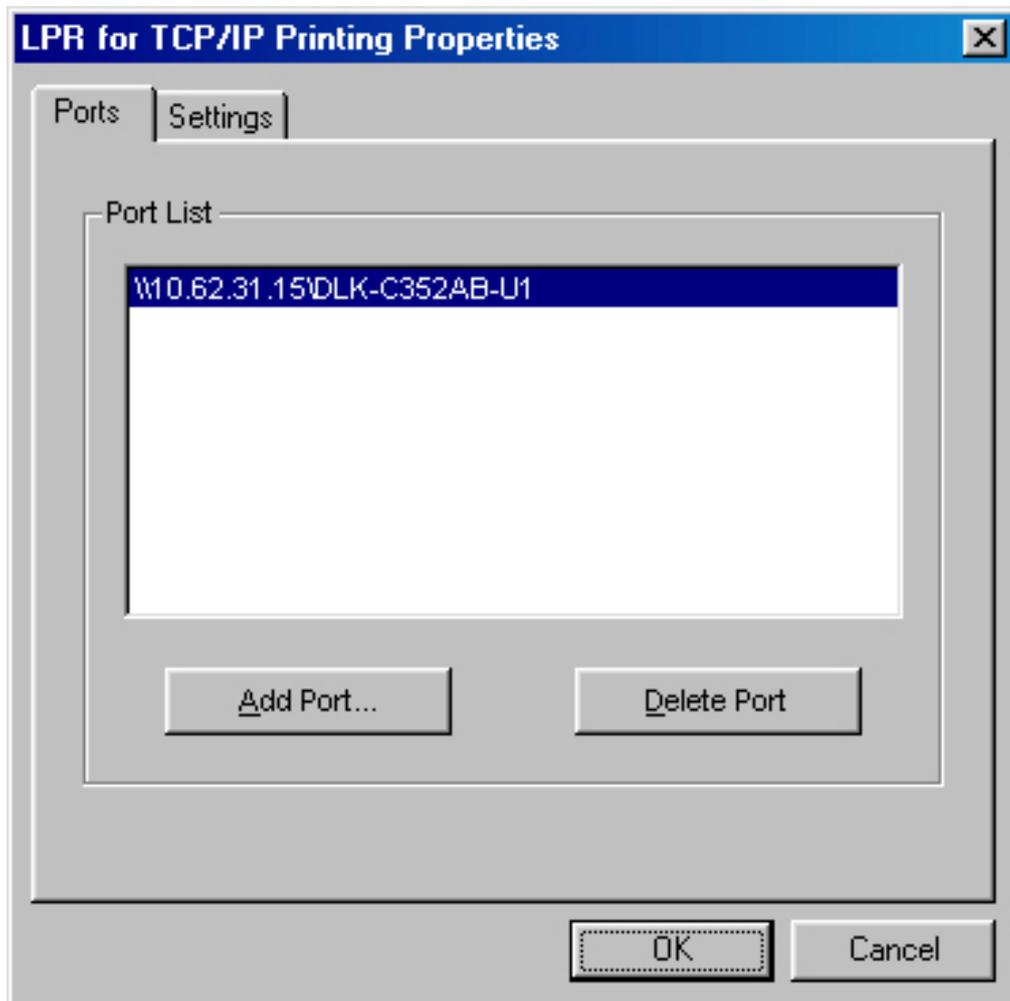
Print Server Status:
The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.

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.

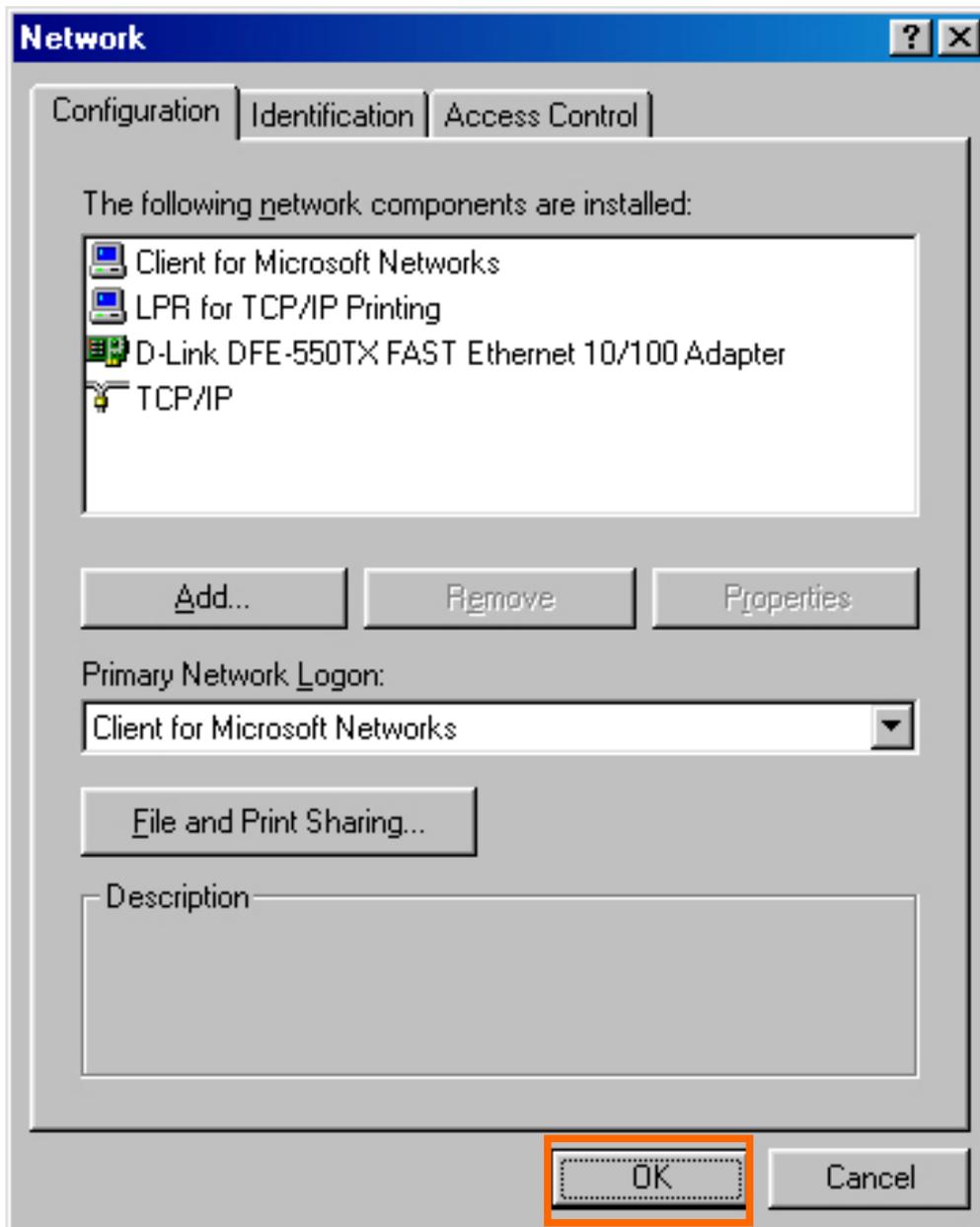


DP-G310	Setup	Advanced	Maintenance	Status	Help
Device Info Network Wireless Print Log  Printer Off line <input type="button" value="Reboot"/>	<p>DEVICE INFO</p> <p>The following shows the general system information.</p> <p>PRINT SERVER STATUS</p> <p> Server Name : dlink-C352AB Model : DP-G310 Firmware Version : 2.20 (2007-08-28) MAC Address : 00 17 9A C3 52 AB IP Address : 10.62.31.15 (Manual) Up Time : 0 days, 00:01:32 </p> <p>PRINTER STATUS</p> <p> USB : Printer Name : dlk-C352AB-U1 Printer Speed : Off line Printer Status : Off line 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>

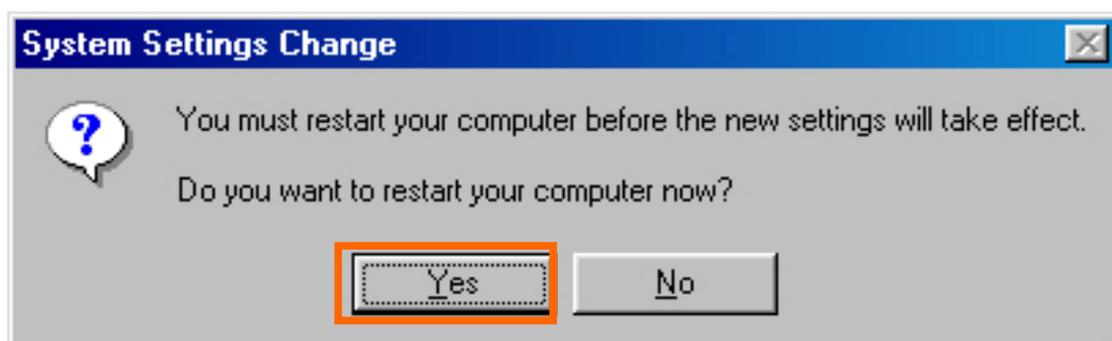
The IP Address and Port Name will be displayed in the following screen. (The IP Address and Port Name here are just for example only.) Click **OK**.



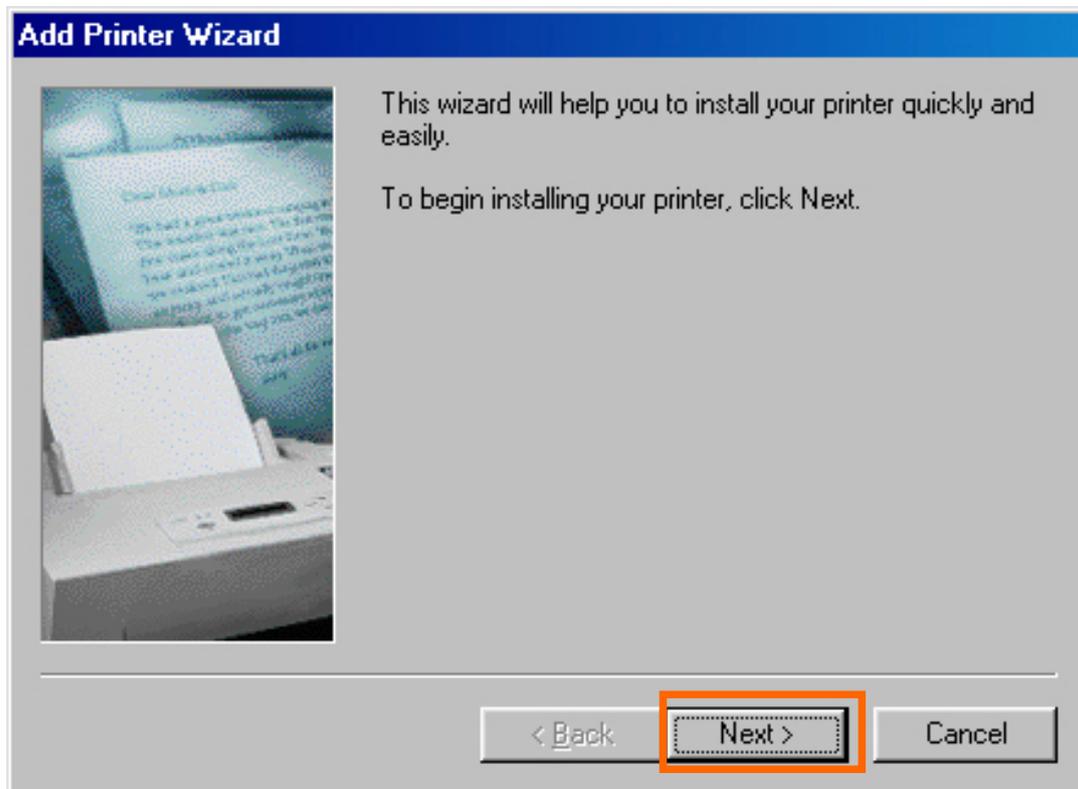
Click **OK**.



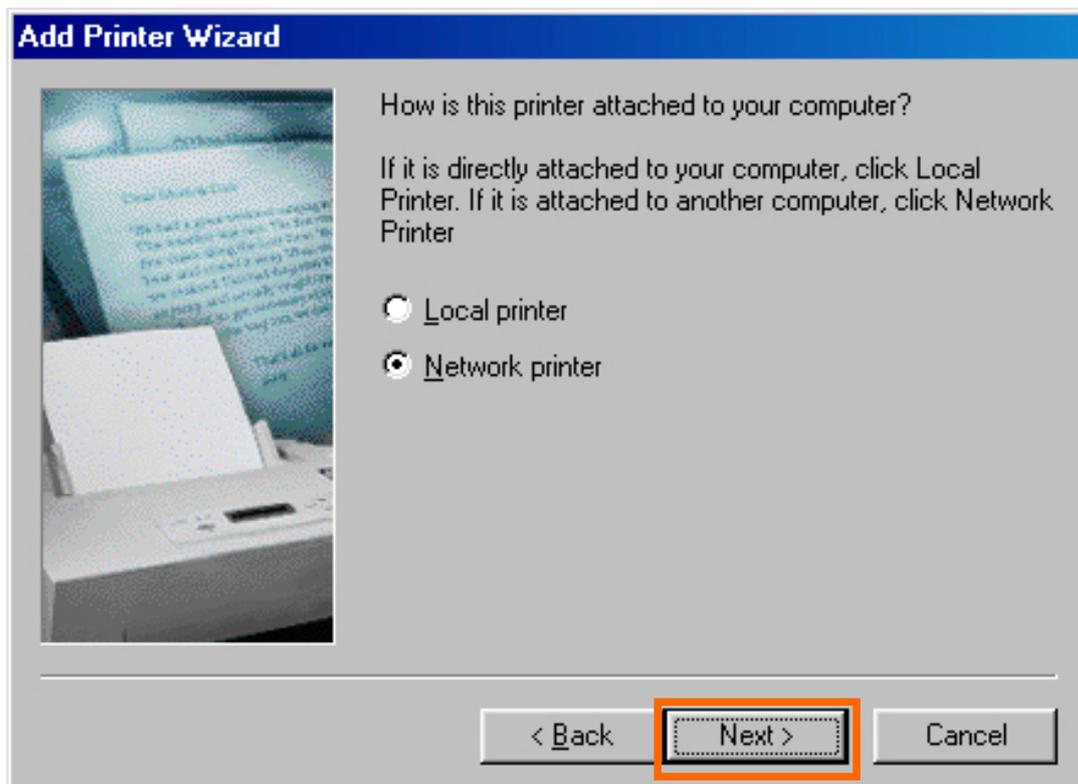
Windows will ask for a restart. Click **Yes**.



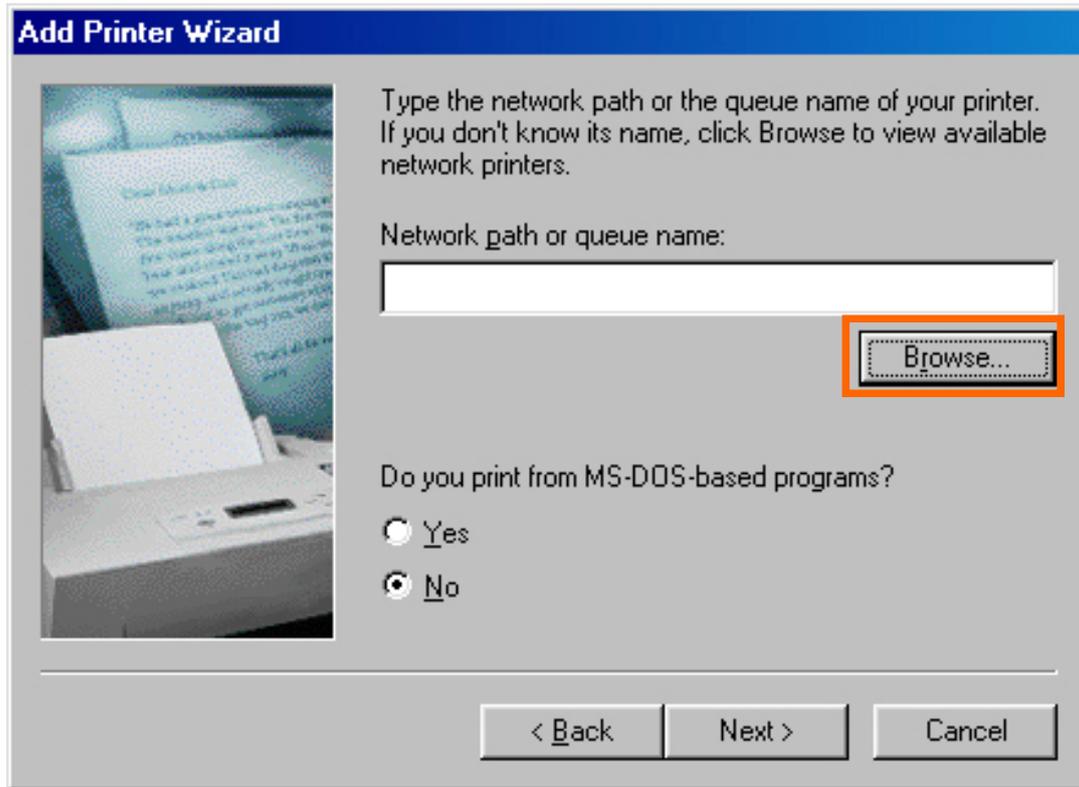
Once your computer has rebooted, click on **Start → Settings → Printers → Add Printer**. When the Add Printer Wizard screen appears, click **Next**.



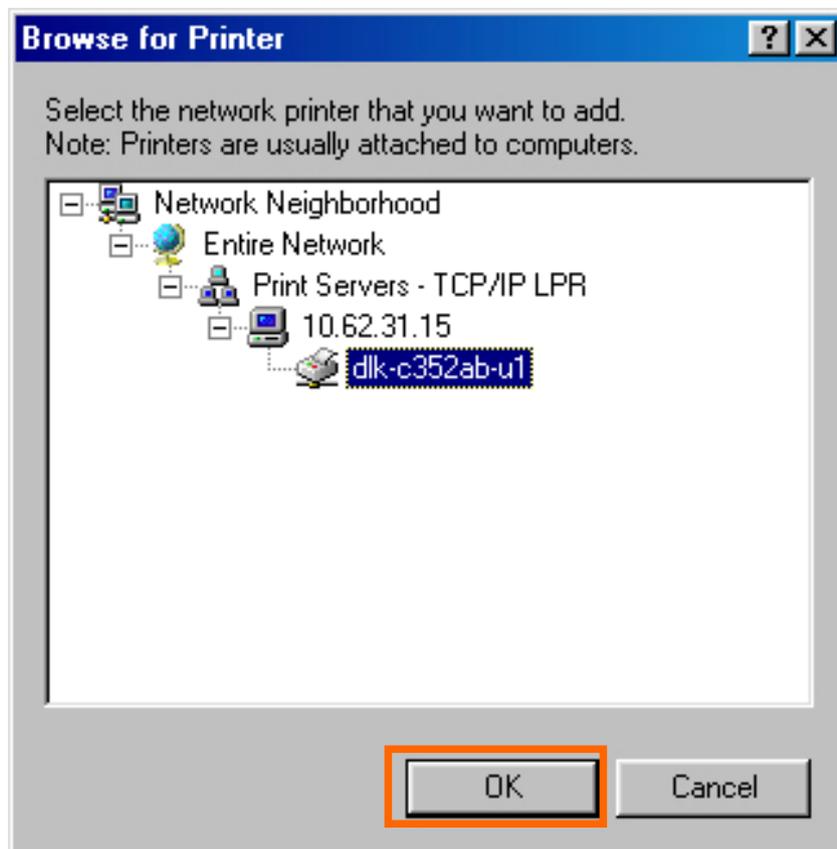
Select **Network Printer** and click **Next**.



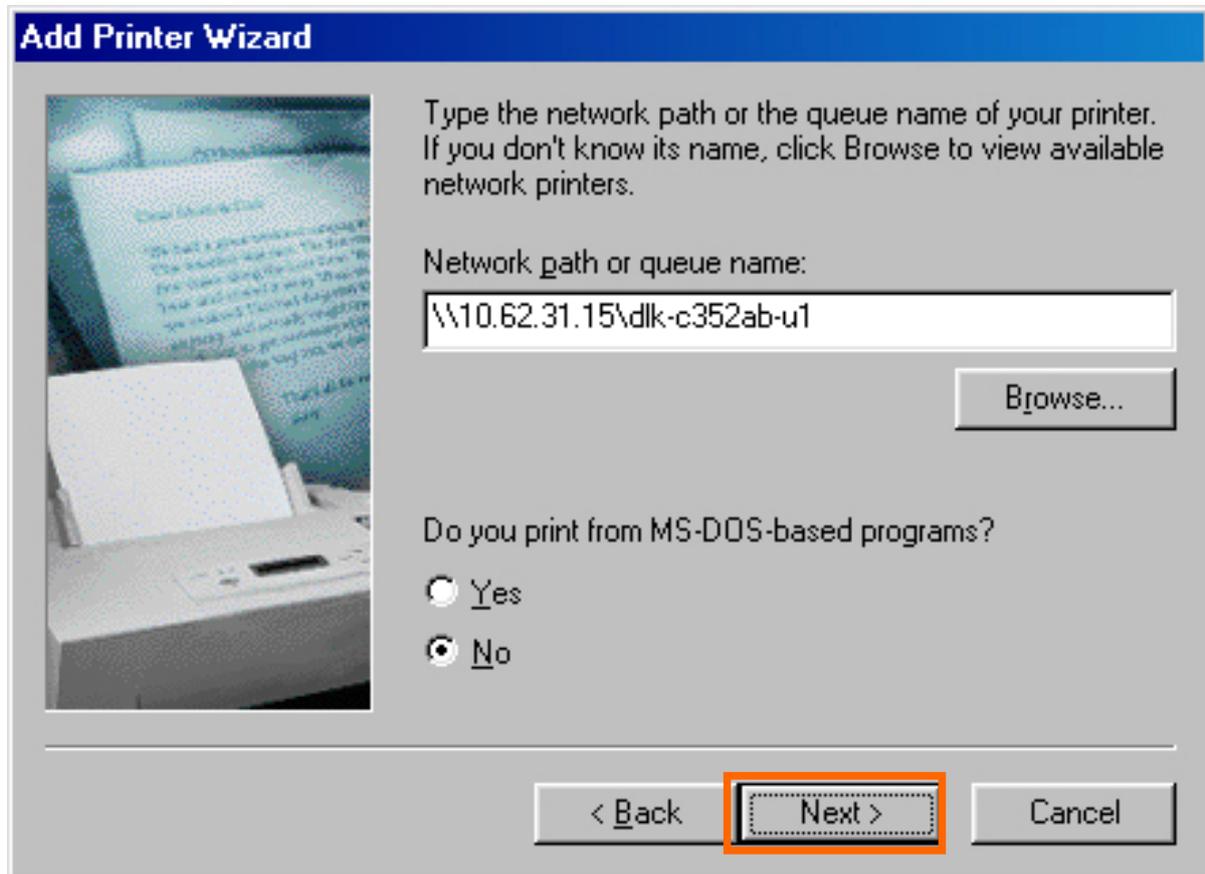
Type in the path if you know it; otherwise, click **Browse**.



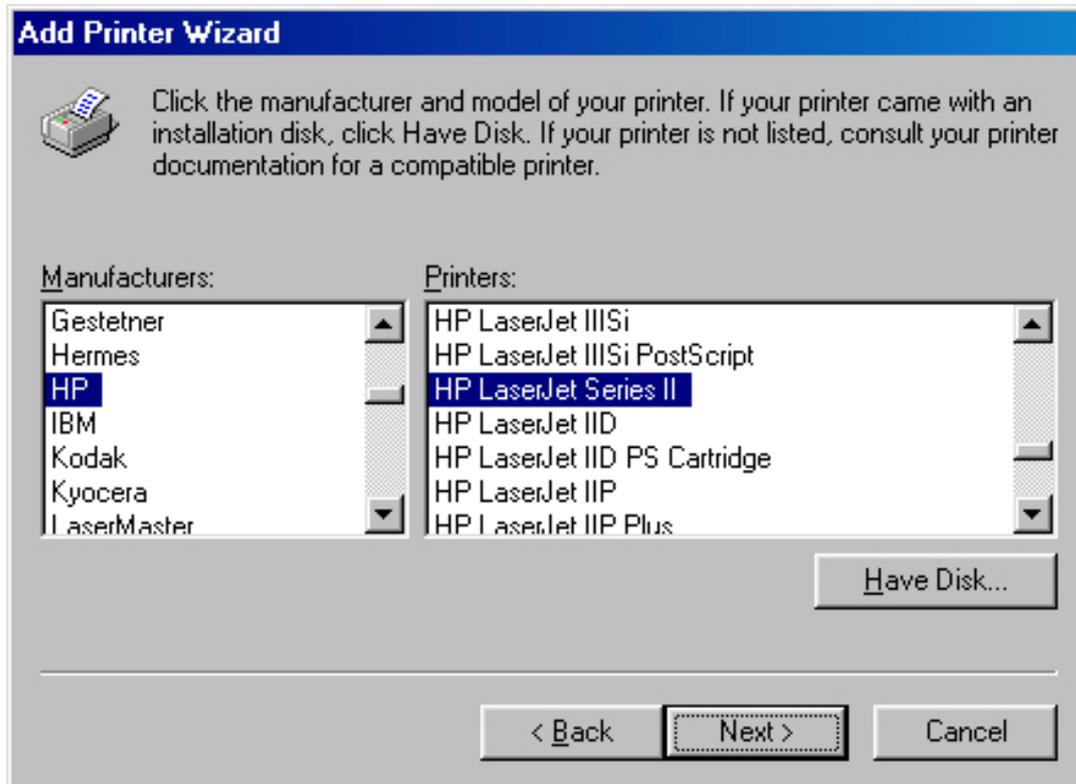
At the following screen, browse for the printer port and highlight the port (e.g. dlk-c352ab-u1 in this manual). Click **OK**.



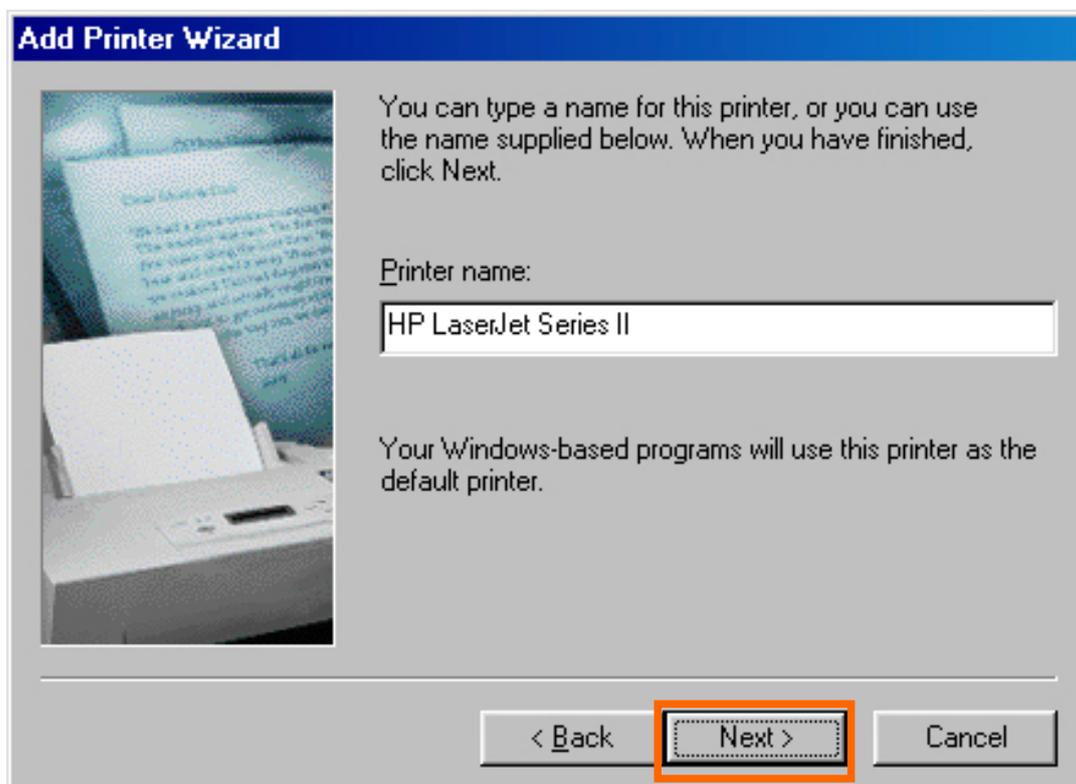
If the network path is not specified, type in the IP Address and Port Name of the print server. Select Yes or No to enable or disable printing from MS-DOS based programs. Click **Next**.



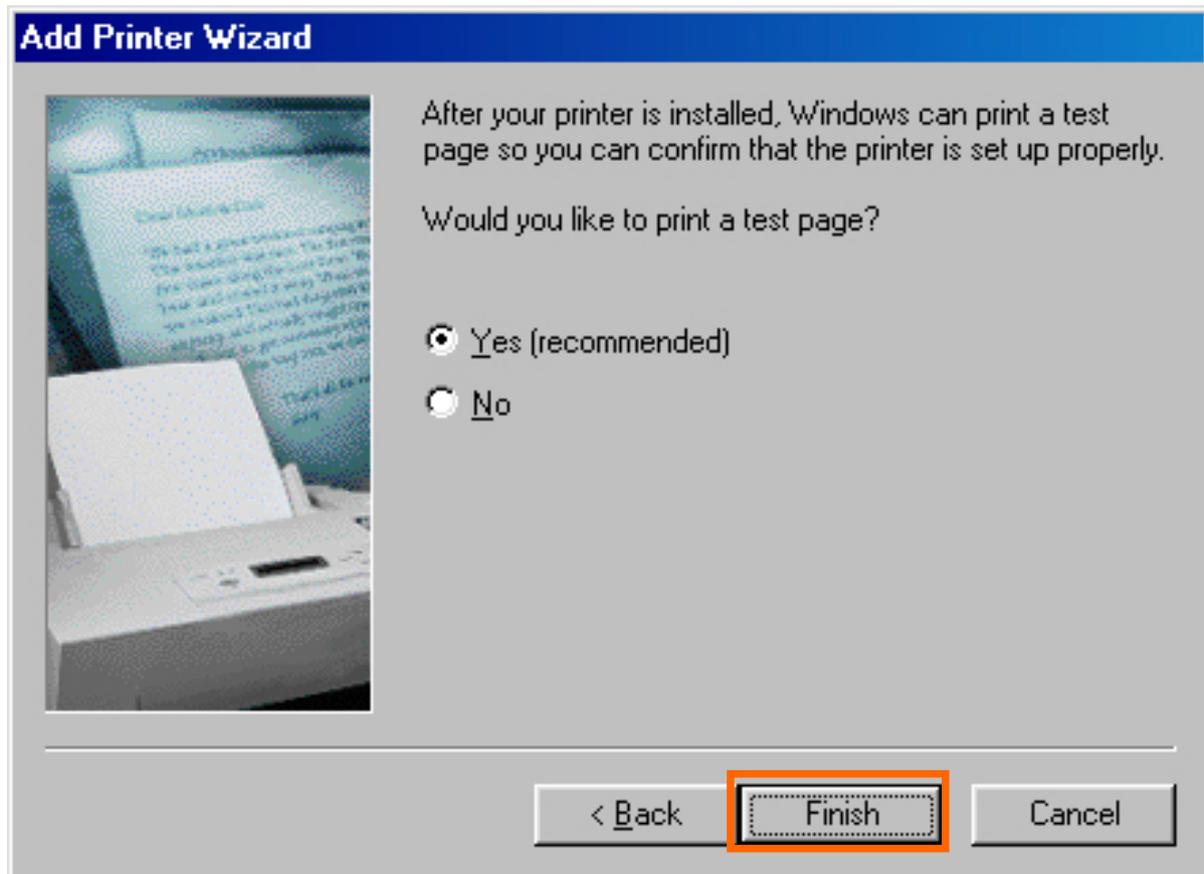
Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers. Click **Next**.



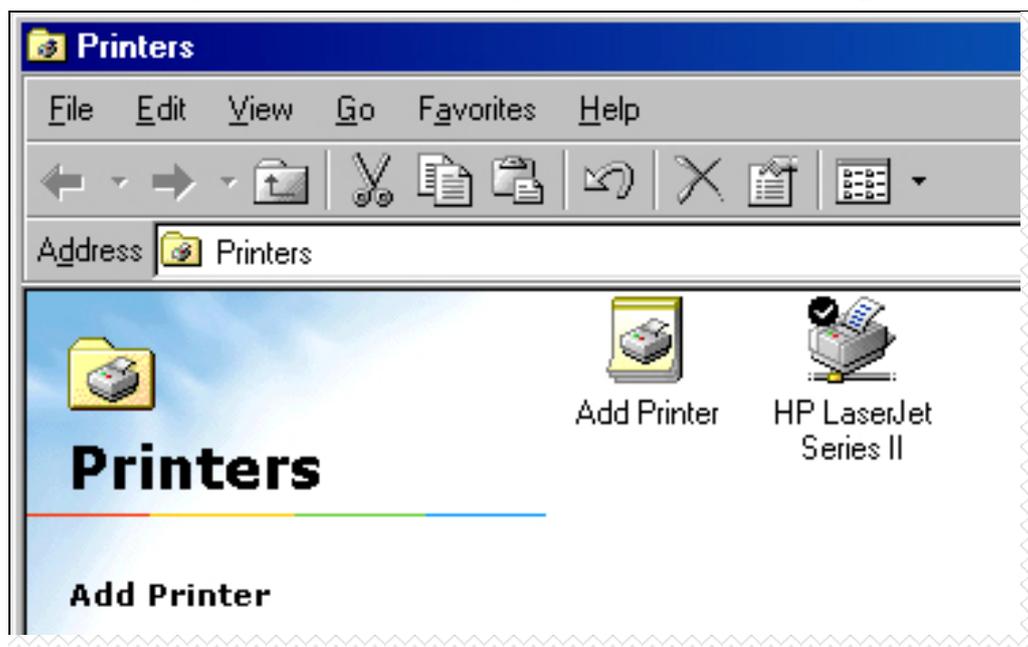
Click **Next**.



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 form Unix

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

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

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

Printing form BSD Unix Versions

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

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

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

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

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

```
chown bin.daemon /var/spool/hp51
```

```
chmod 775 /var/spool/hp51
```

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

```
hp51:\  
  
:lp=:sd=/var/spool/hp51 :mx#0:\  
  
:rm=ps-142634:rp=ps-142634-p1:
```

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

6. Issue the command

```
lpc start 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 delet remote printing (i/d/q)?
```

Answer `i` and press Enter to continue.

5. The script will ask:

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

Answer `y` and press Enter to continue.

6. The script will ask:

```
Please enter the printer name (q to quit):
```

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

7. Answer r (remote printer) to the question

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

8. When prompted with the question:

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

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

9. Confirm that your entries are correct.

Is this correct? (y/n)

10. Answer the question:

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

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

12. Answer y to the question

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

Once remote printing is set up, you can use the **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 Manger** icon.
5. From the **Edit** menu, select **Add Print**, then **Add Access to Remote Printer...**
6. Enter values for the fields as follow:
 - ◇ **Printer Name** This field should contain the name of the printer port you wish to use. The field is case-sensitive.
 - ◇ **Printer Server** This field should contain the IP address of the print server, or the alias name you added in step 2.
 - ◇ **Printer Server OS** This field should be set to BSD.
7. Confirm the addition.
8. Optionally repeat the addition to add another printer for printing text files, with `_TEXT` appended to the port name.

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

Printing from Red Hat Linux

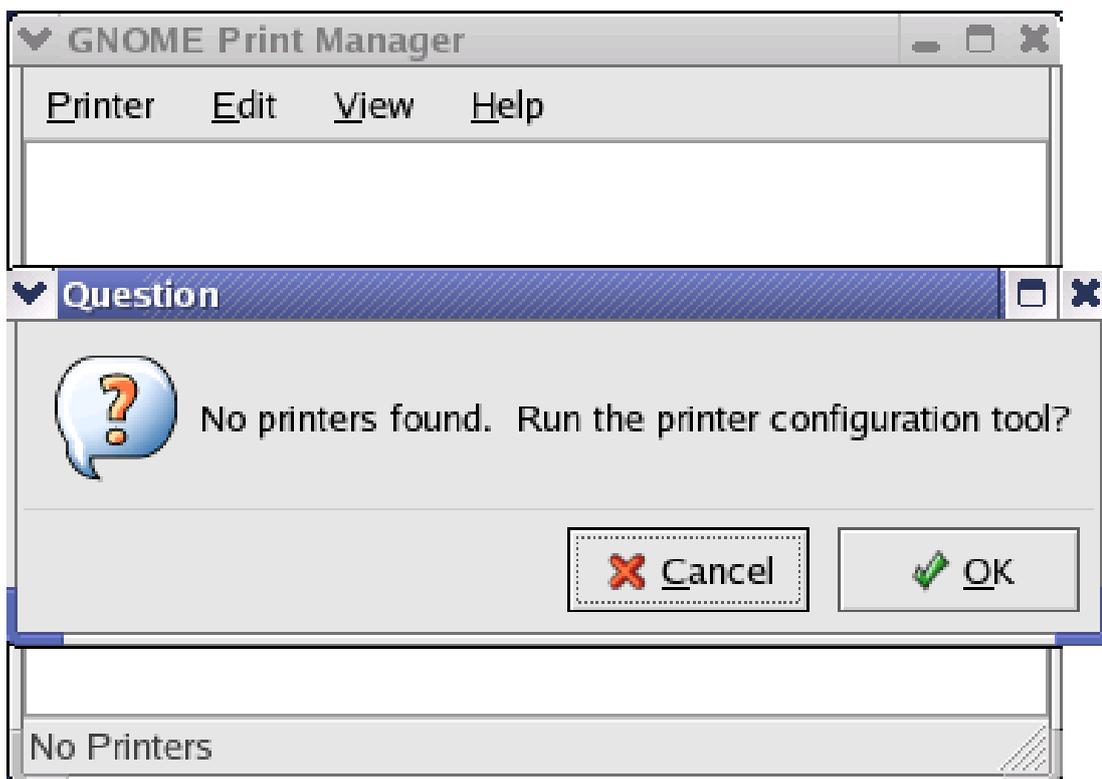
Adding a Printer



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.

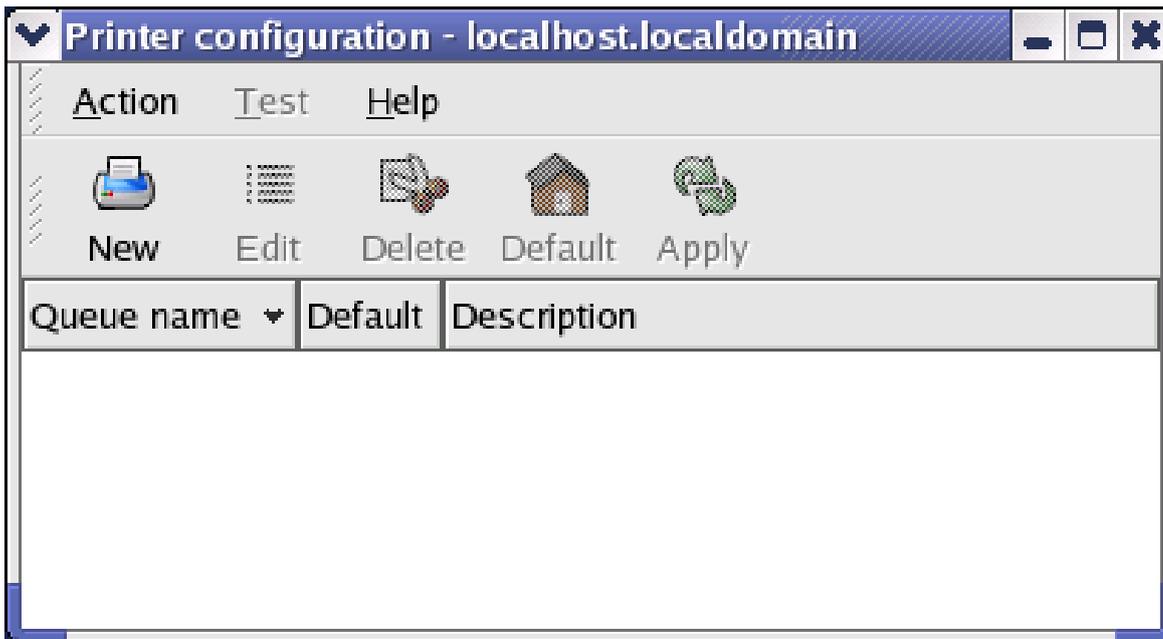


3. Click the **OK** button in the pop-up dialogue box to open the man **Printer**

configuration tool menu. Note that to use the **Printer configuration tool** you must have root privileges, and to start the application you may also type the command: “redhat-config-printer”.

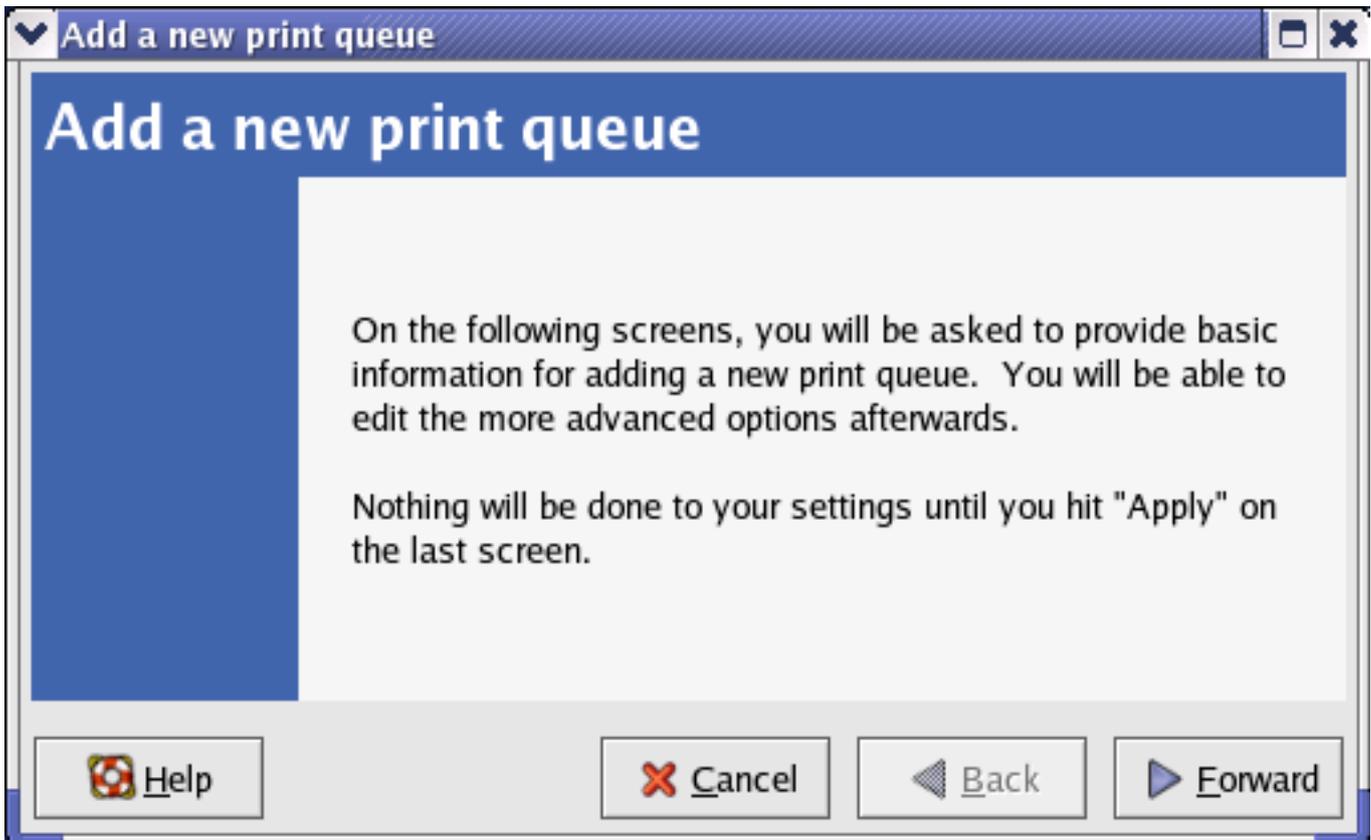


4. Click the **New** button **New** in the **Printer configuration tool** menu.

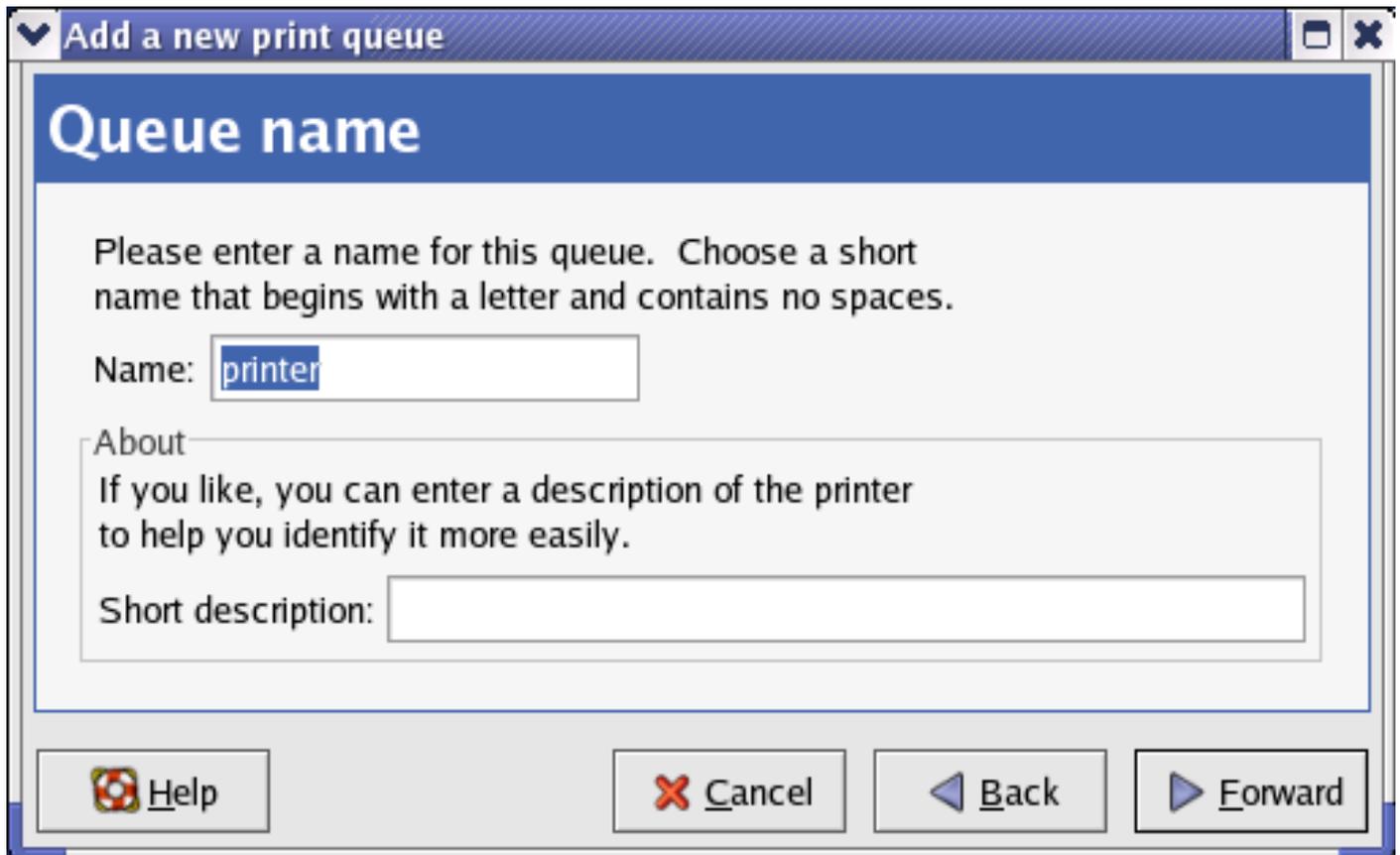


Printer Configuration Tool menu

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



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



Add a new print queue

Queue name

Please enter a name for this queue. Choose a short name that begins with a letter and contains no spaces.

Name:

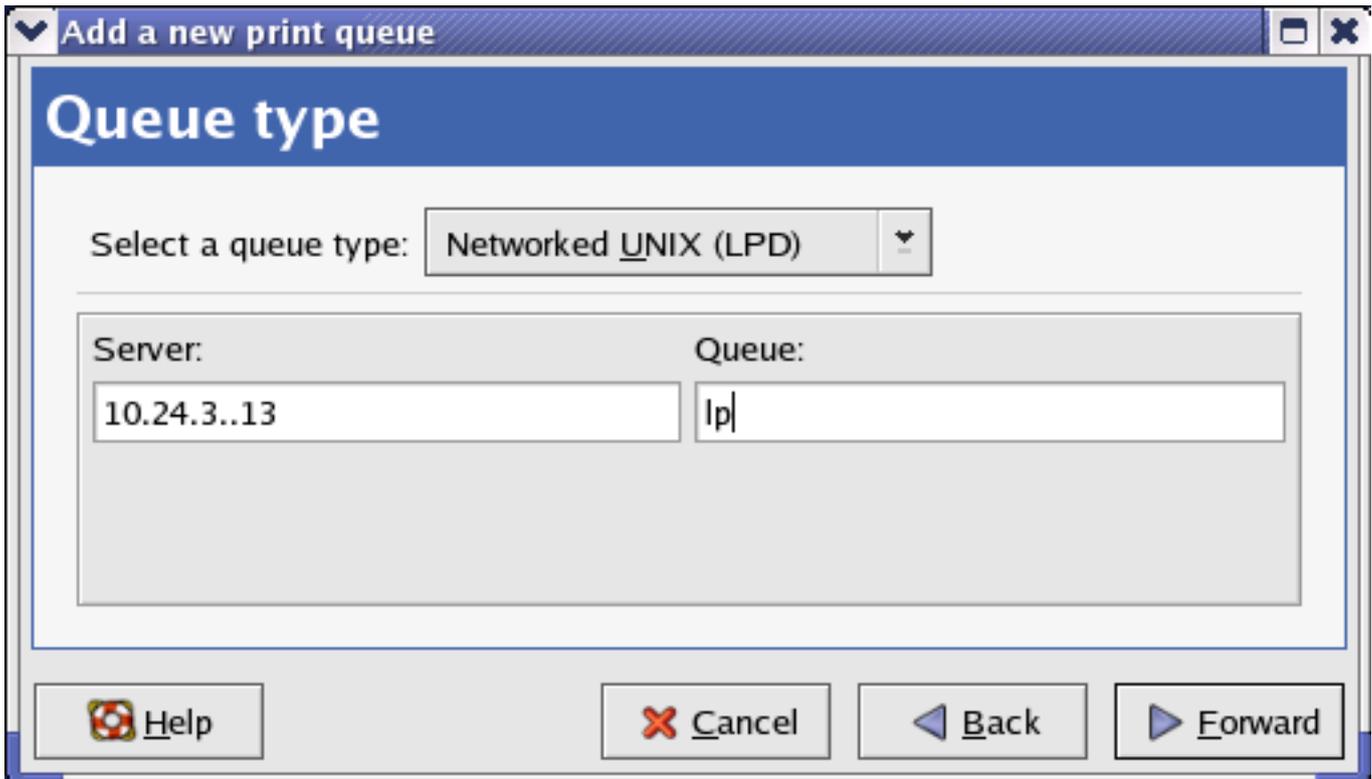
About

If you like, you can enter a description of the printer to help you identify it more easily.

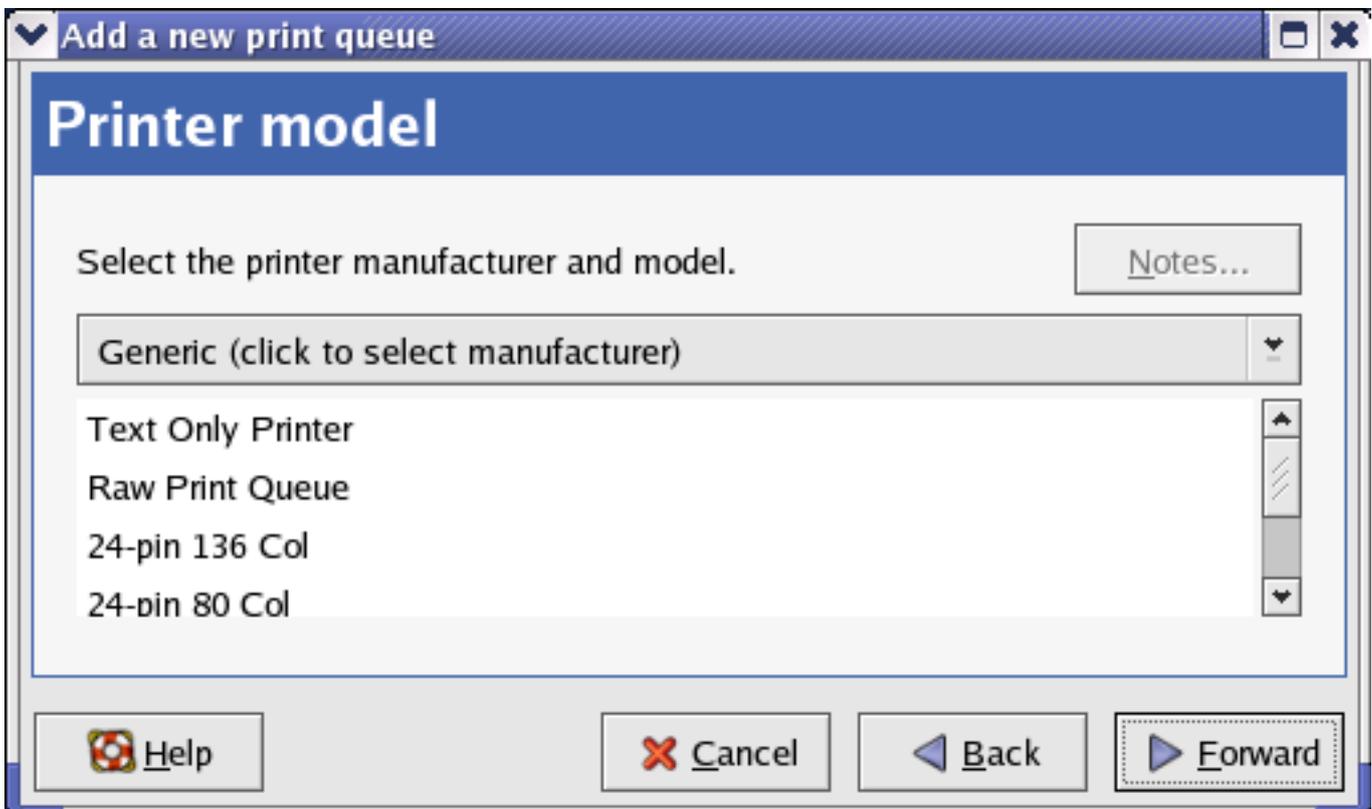
Short description:

 **Help**  **Cancel**  **Back**  **Forward**

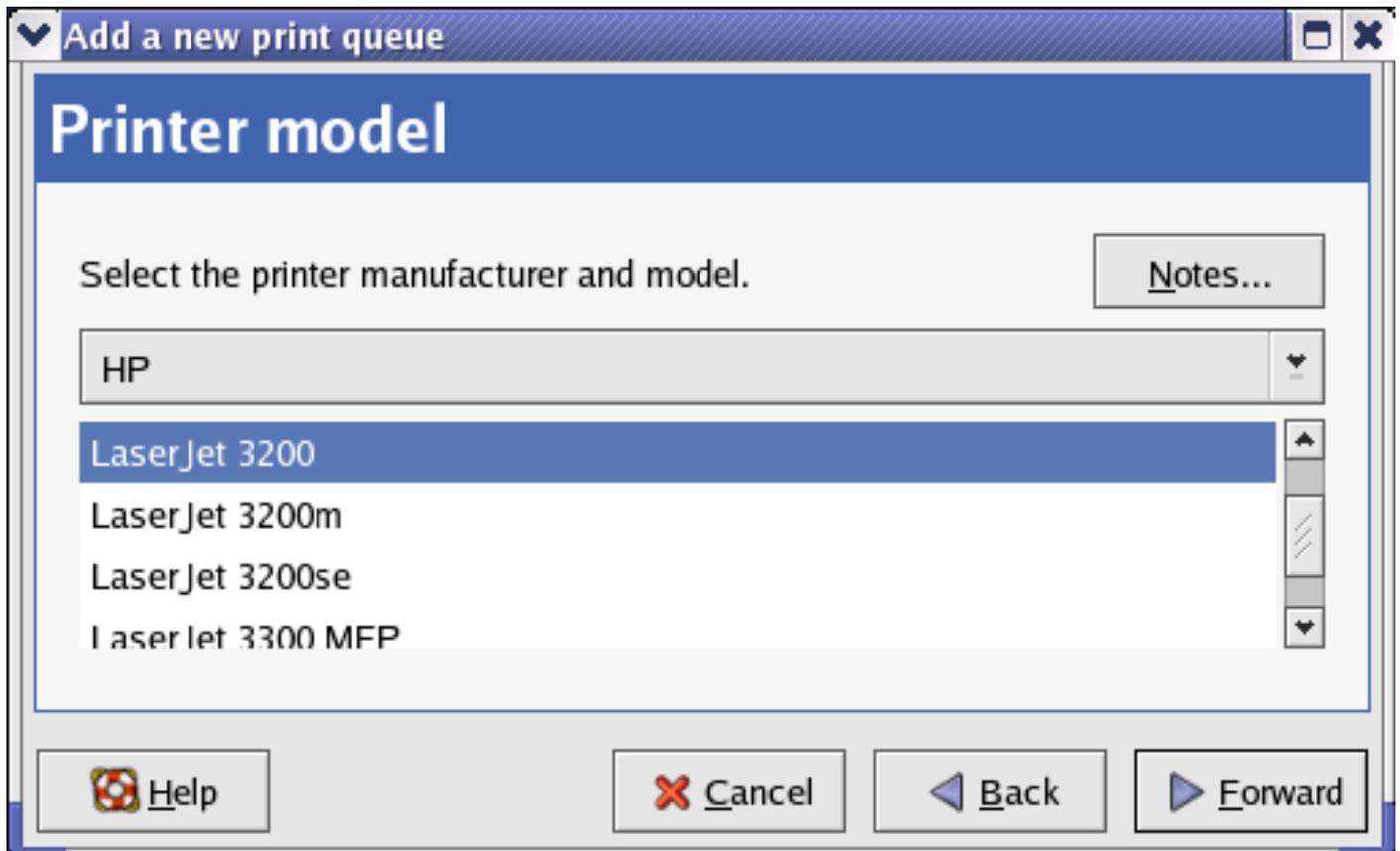
7. Select Networked UNIX (LPD) in the Select a queue type pull down menu, enter the IP address of the print server to which the printer is attached in Server field, and type the port name in queue field. Click Forward to select the type of printer.



8. Select the printer model.

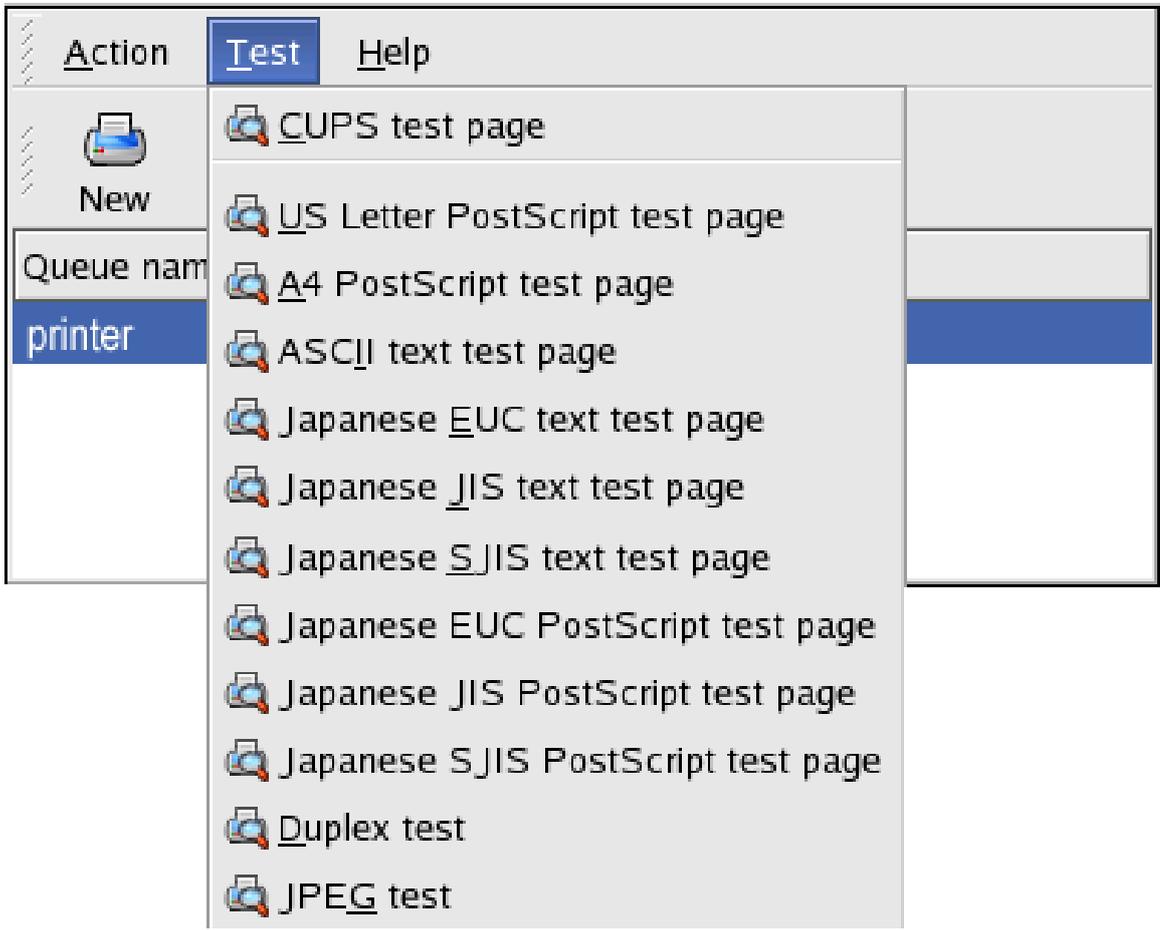


If a printer has not been detected automatically, select the model from the list. You can manually select the name of the printer manufacturer from the **Generic (click to select manufacturer)** pull-down menu, and the printer model from the sub-list. Click **Forward** to continue.



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

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



Setting up Printing in Mac OS X Tiger (10.4.9)

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.

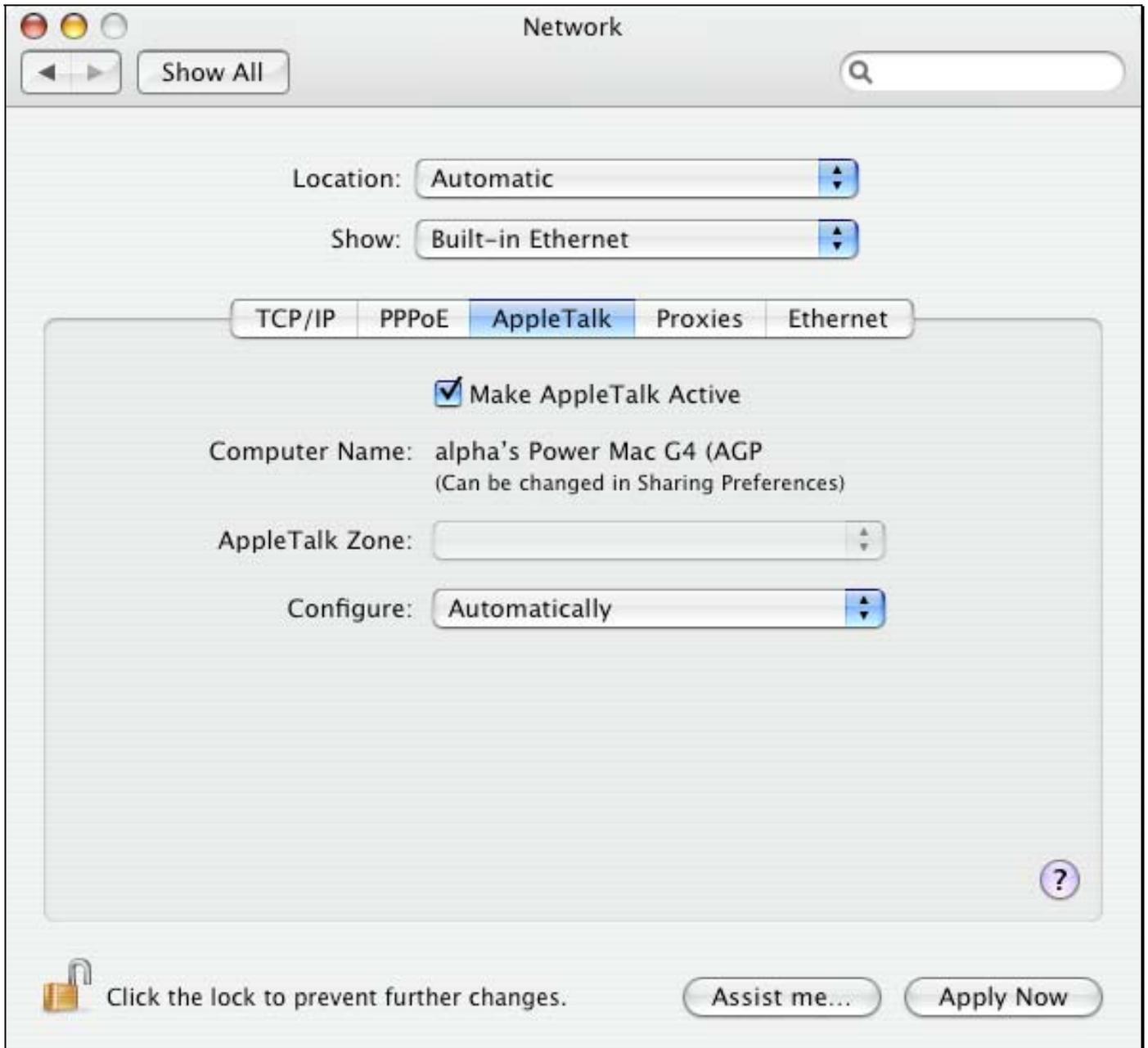


Click on this icon in your Dock to open your **System Preferences** window as below.



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

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

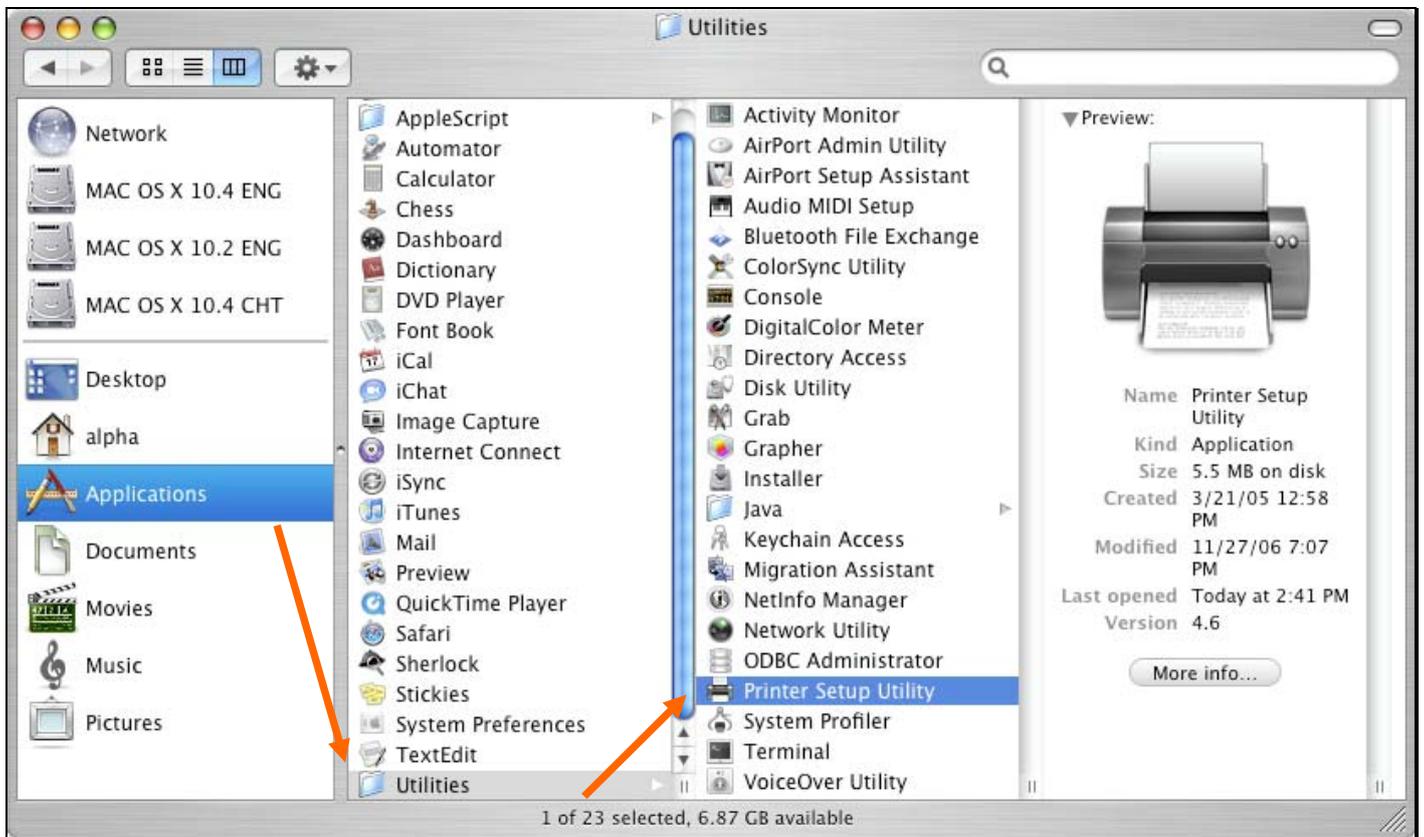


Adding a Printer

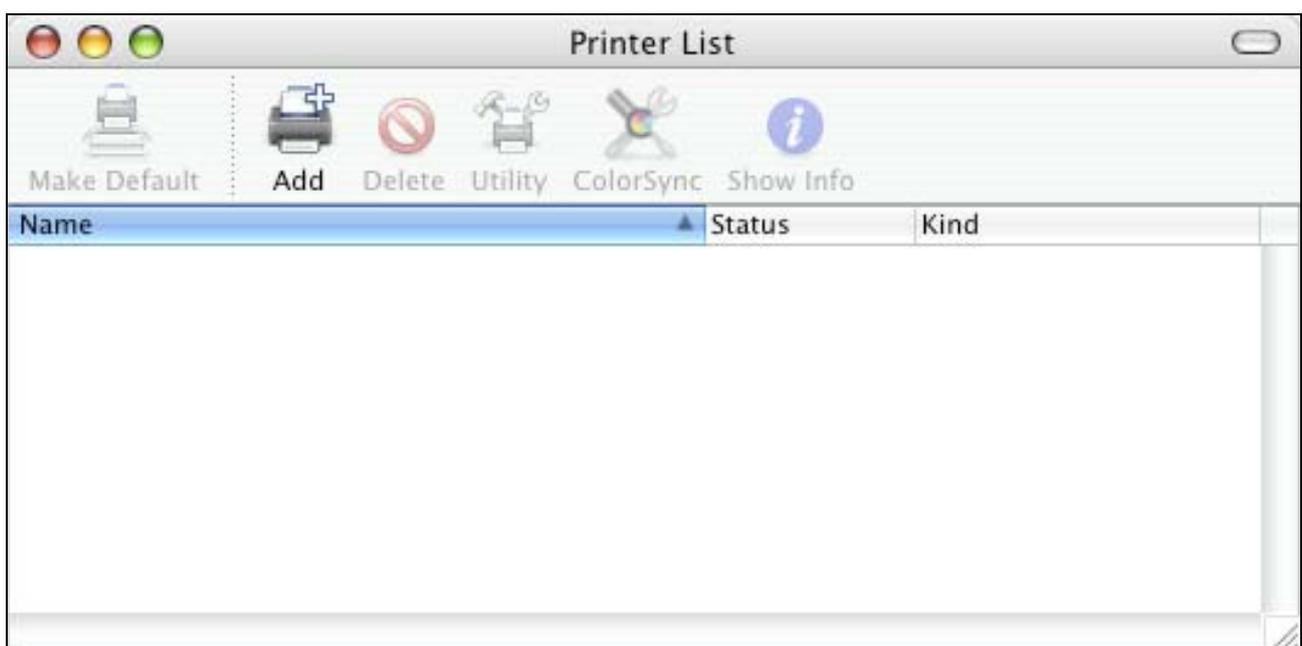
Use the **Go** menu at the top tool bar and select **Applications** option and find the **Utilities** folder or open the **Utilities** folder directly in **Go** menu.



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



Click **Add** button to open **Printer Browser** window.



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

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

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

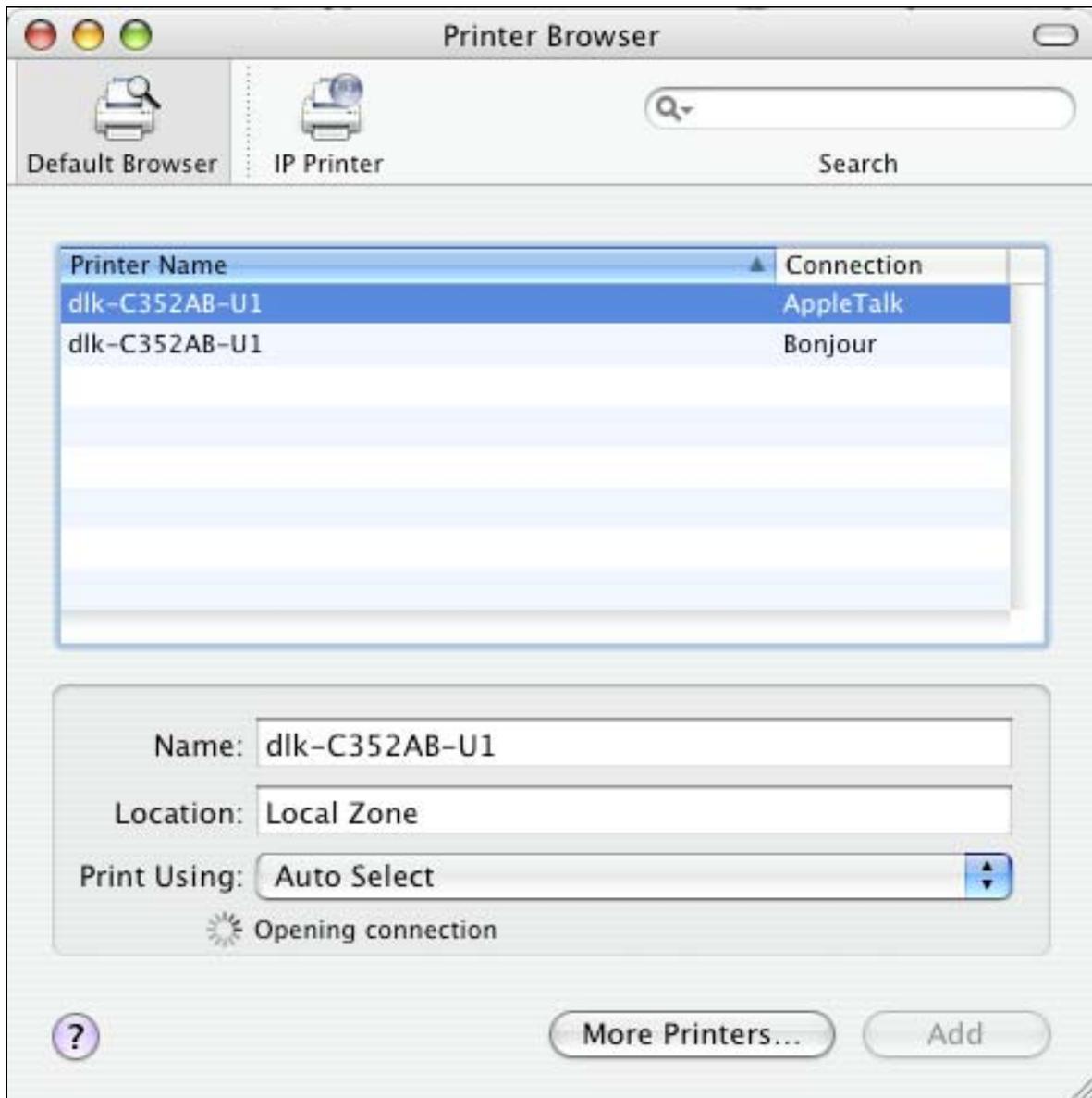


Jet Direct – Socket enabled printer, click on the IP Printer button and follow the instructions to add an IP Printer beginning on “Adding an IP printer” session.

AppleTalk-enabled or Bonjour-enabled Printers

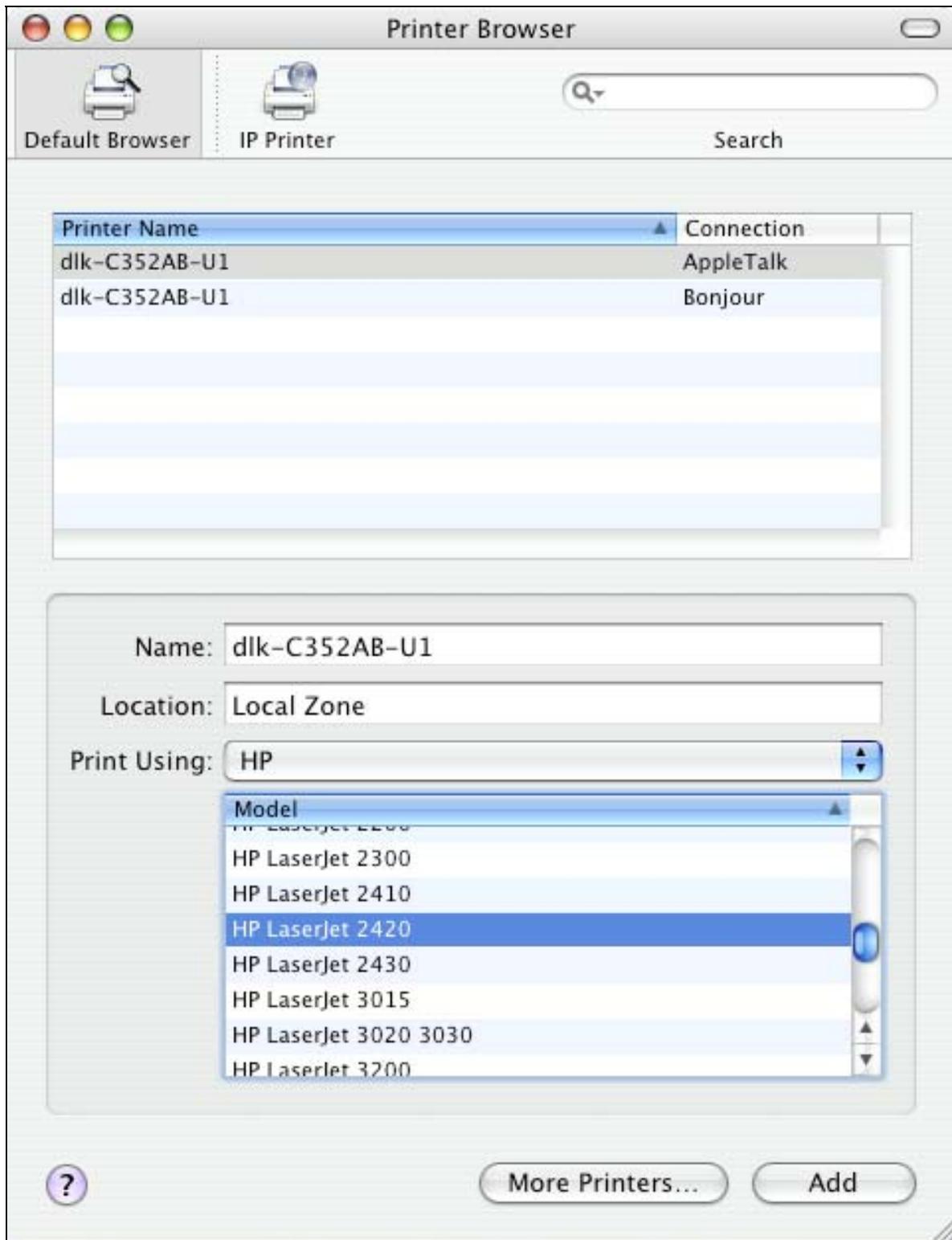


To add an AppleTalk-enabled or Bonjour-enabled printer, click the button in the **Printer Browser** menu.

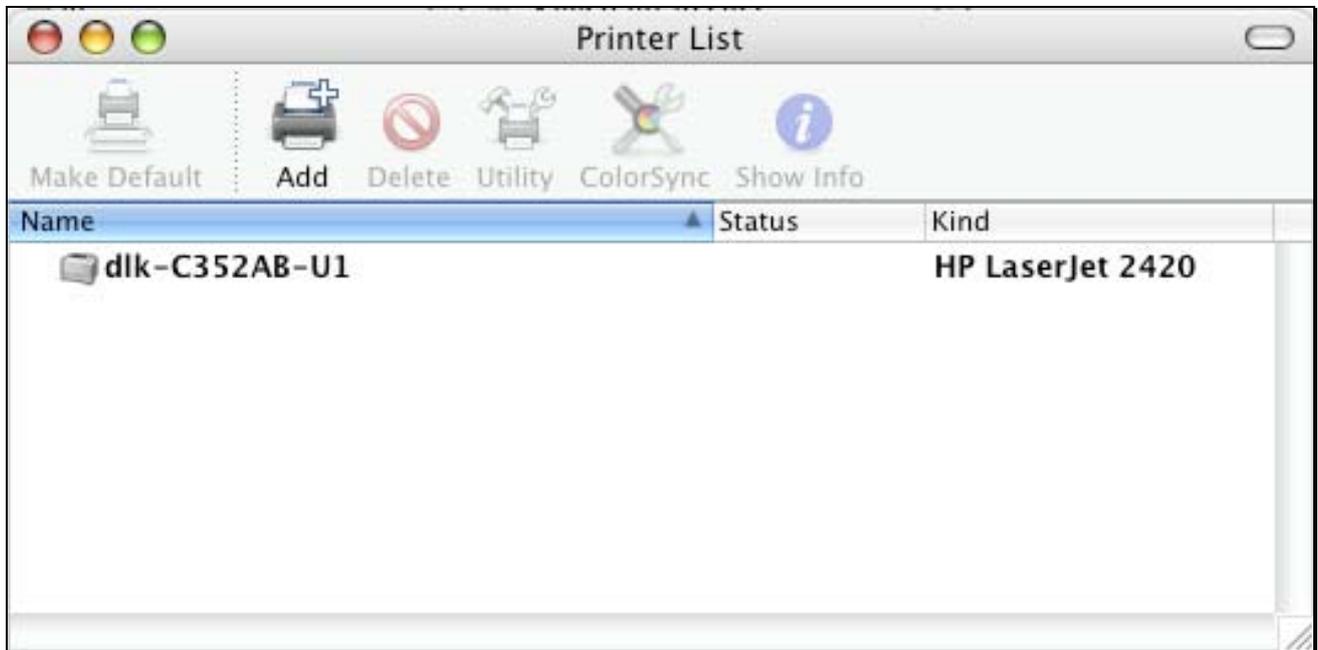


Select the printer model from **Printer Name** list and **Connection** type in the **Printer Browser** menu. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is dlk-C352AB-U1. By default the **Printer Browser** will use the **Auto Select** for **Print Using:** to determine what printer configuration to use. This may also be manually

selected in the **Print Using** drop-down menu by brand and model. Click the **Add** button to exit the **Printer Browser** window and implement the new setting.



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



Adding an IP Printer

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



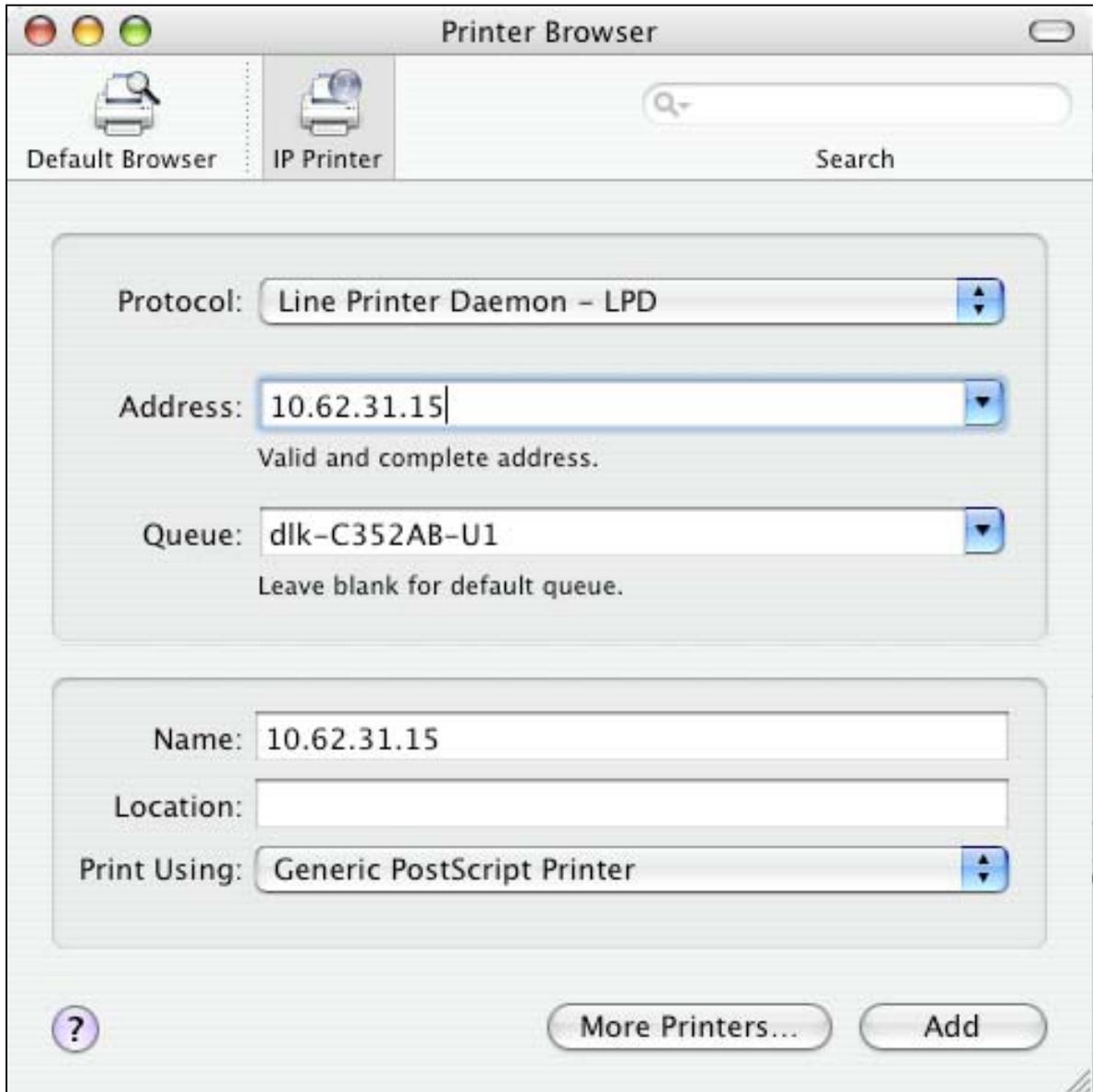
Type the IP Address of the printer. The name will appear in the **Name** field when the printer is found. The **Printer Browser** will indicate that it is verifying the address. If the printer is found, the **Printer Browser** will state “Valid and complete address” in the **Address** field.

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

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

For set up LPD Printing:

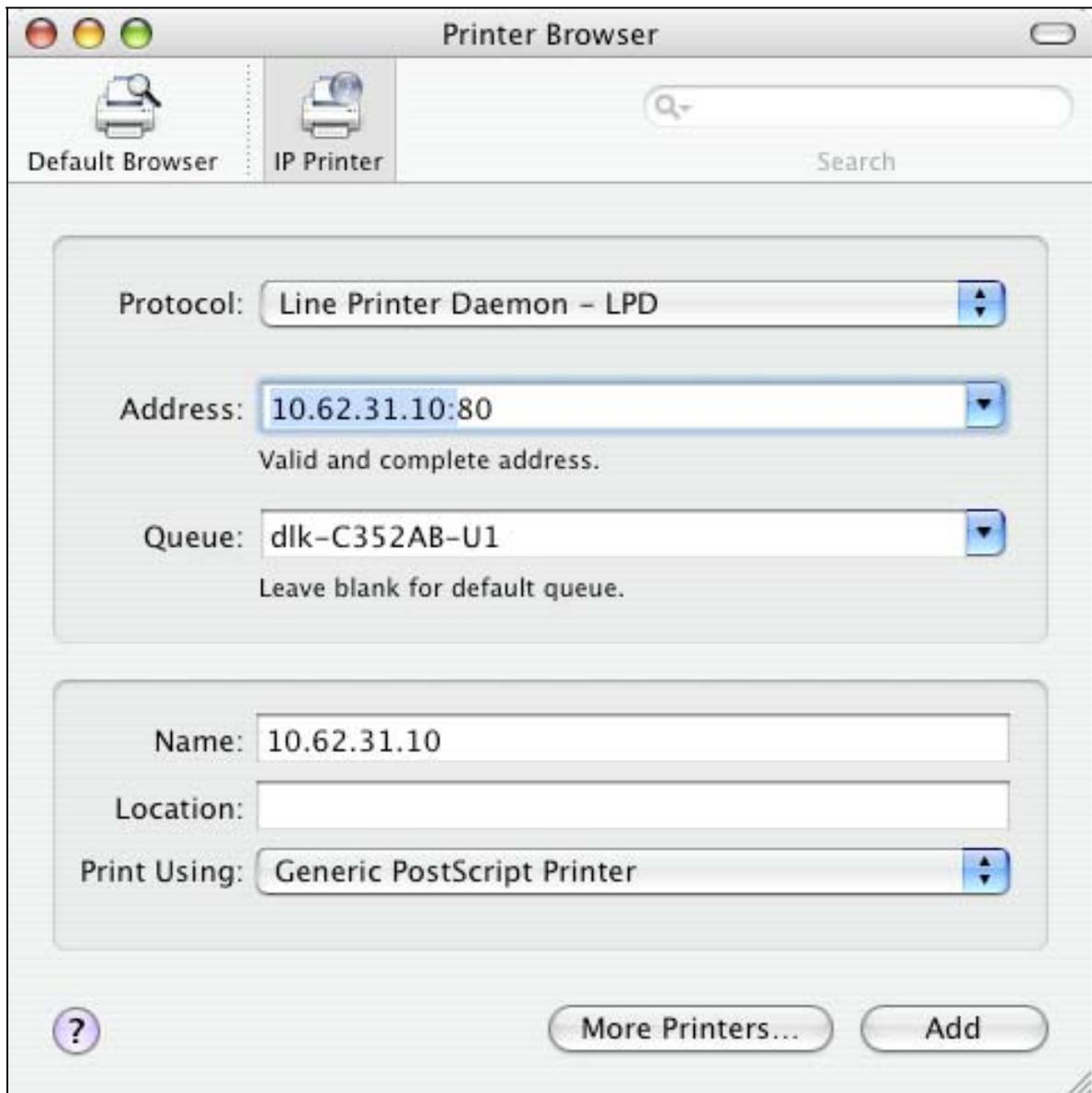
1. Enter the IP address of the print server to which the printer is attached in **Address** field.
2. Type the port name in the **Queue** field.



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

For set up IPP Printing:

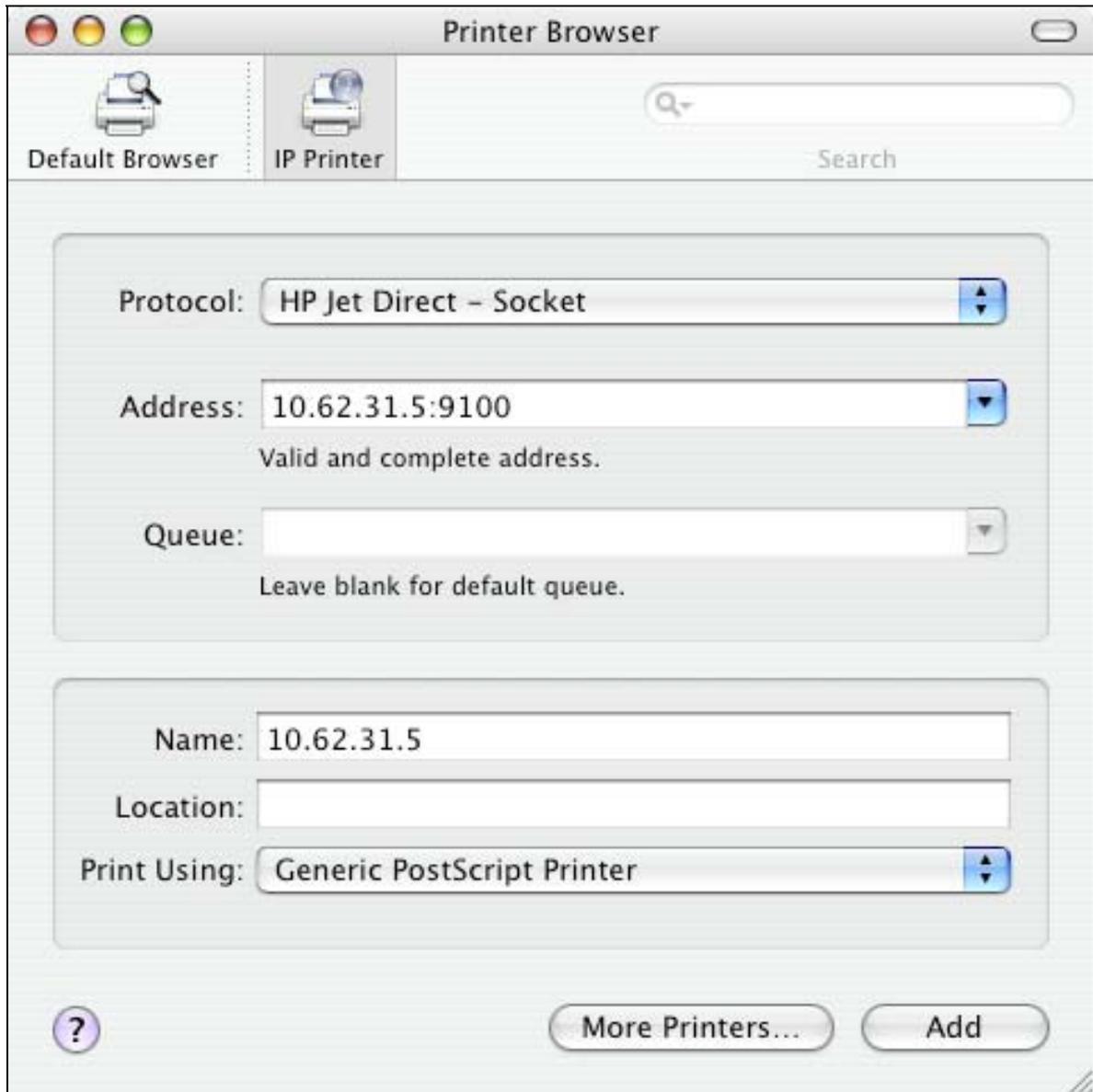
1. Enter the IP address of the print server to which the printer is attached in **Address** field. After that, type “: **80**” or “: **second port**” if print server’s second port is enabled.
2. Type the port name in the **Queue** field.



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

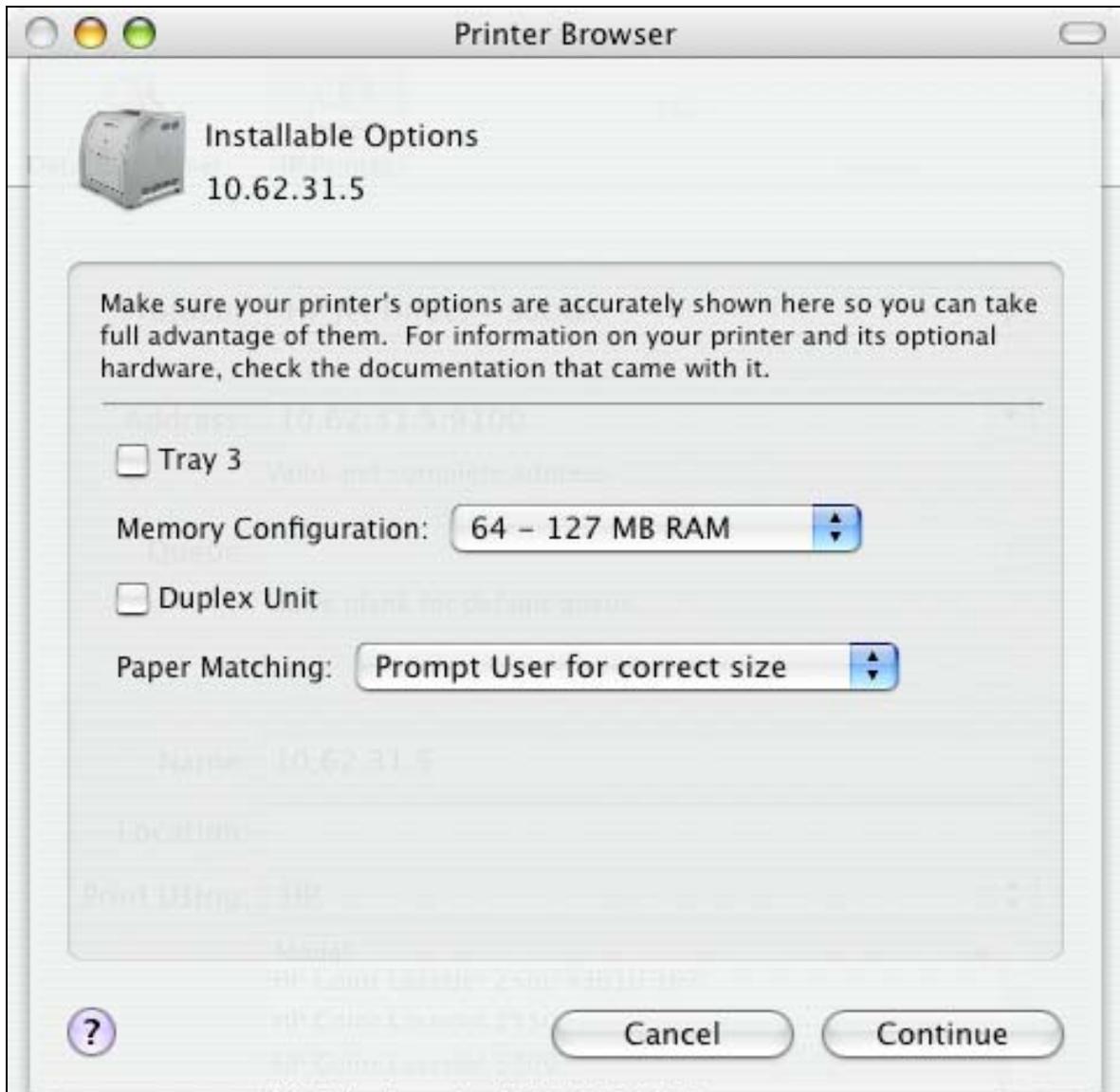
For set up Socket Printing:

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

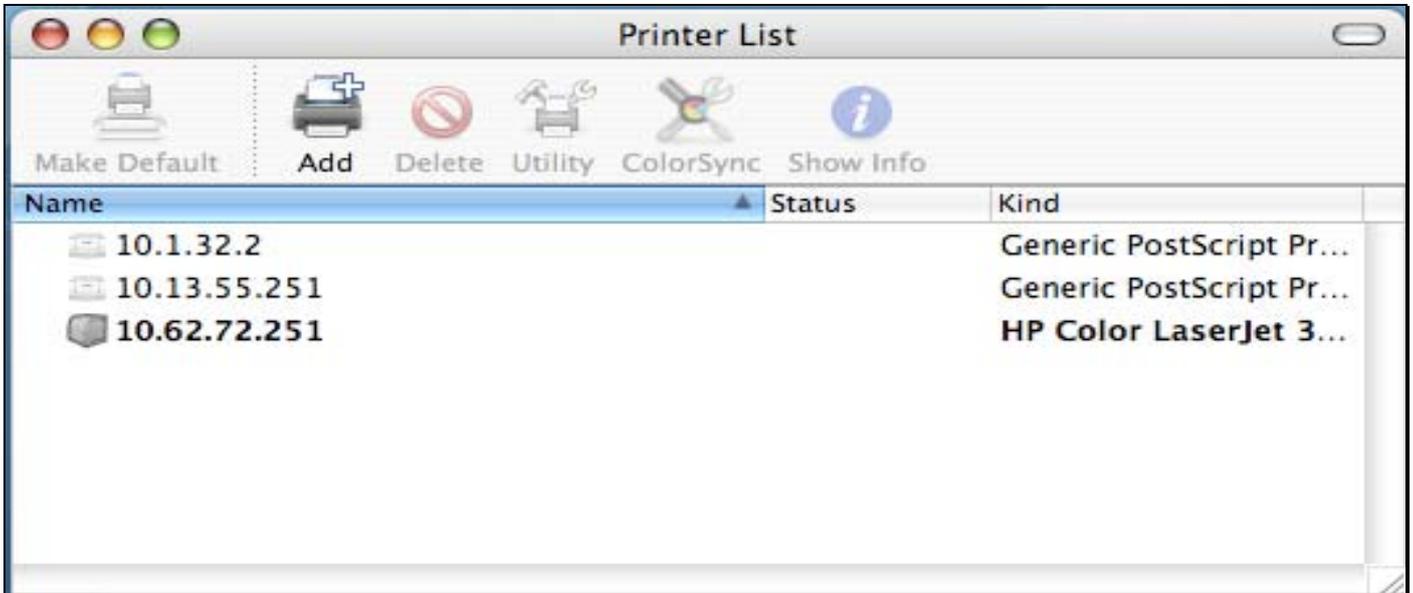


Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

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



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



Setting up AppleTalk Printing in Mac OS 9

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

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

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

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

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

- Make sure the AppleTalk protocol is enabled in your Macintosh.
- Make sure the PC's IP Address must correspond with the Print Server's IP Address in the same segment for the two devices to communicate.
- Launch the browser and enter print server web interface, select the ADVANCED tab, click Advanced LAN button and then scroll to the bottom to the AppleTalk protocol section
- If your AppleTalk network is divided into AppleTalk zones, you will have to specify

which zone the Print Server should be in. You should locate the Print Server in the same zone as most of the users who will be using it. If your network is not divided into zones, the AppleTalk Zone field should contain a single asterisk (*).

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

Product: DP-G310
Firmware Version: 2.20

D-Link

DP-G310
Setup
Advanced
Maintenance
Status
Help

Device Info

Network

Wireless

Print Log

 **Printer**
Off line

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 : 169.254.82.171)

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 APPLETALK PRINTING

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

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

AppleTalk

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

Chooser Name: Display the print server's port name.

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

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

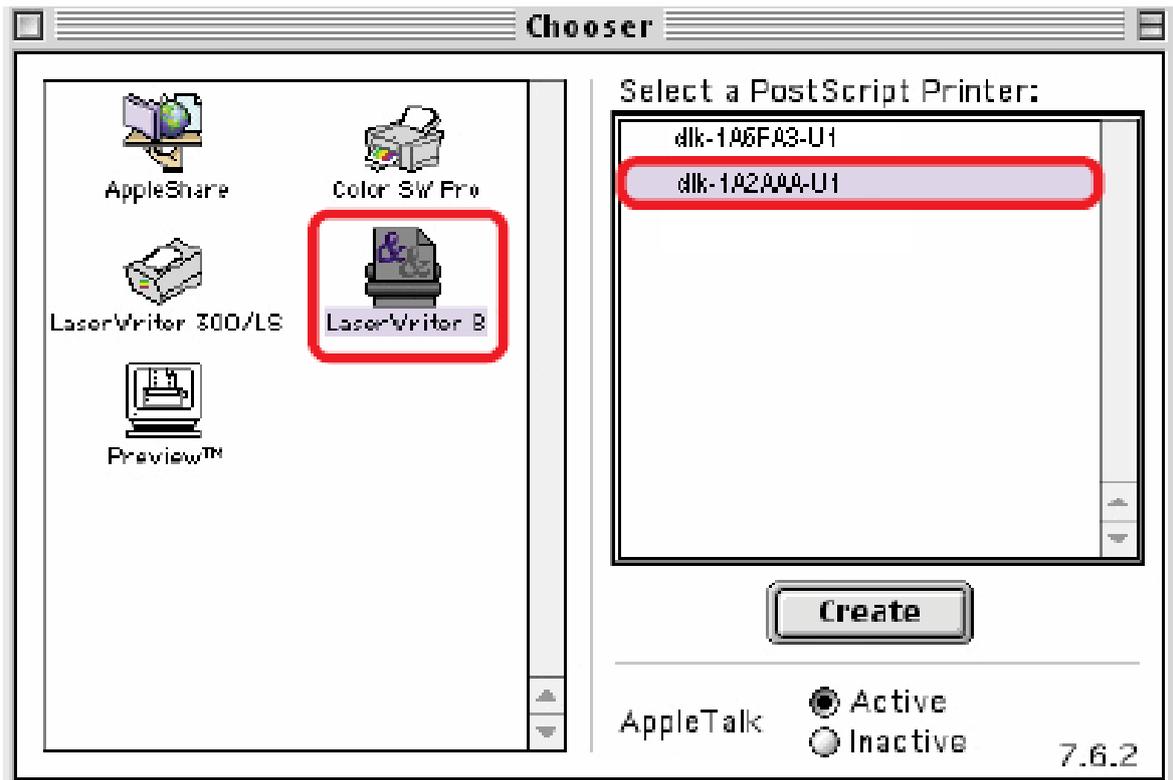
Font Group: Select from the pull-down menu.

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

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

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

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



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



Select the appropriate printer description file for your printer.

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

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

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

Technical Specifications

Printer Connection

Printer Port: USB port

Bi-directional Communication: Hewlett-Packard PJL (Printer Job Language) standard for bi-directional communication.

Network Connection

Network Standards: 100Base-TX Fast Ethernet, 802.11g Wireless Standard

Network Data Transfer Rate: 10/100 Mbps (megabits per second), up to 54Mbps

Network Connector: RJ-45

Network Protocols

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

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

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

Management and Diagnostics

Standard: SNMP

MIBs: MIB-II (RFC 1213)

Diagnostic LED Indicators: Power, USB, LAN, WLAN

Environmental and Physical

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

Dimensions: 3.54" x 3.24" x 1.28" (90 mm x 82.4 mm x 32.5 mm)

Weight: approx. 5.19 oz. (147g)

Operating Temperature: 32 to 122°F (0 to 50°C)

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

Humidity: 5% to 95% non-condensing

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

Appendix: DP-G310 Printer Compatibility List

The Canon Printer

Canon BJC-255SP
Canon BJ-330
Canon BJC-600, 620
Canon BJC-2000SP
Canon BJC-4100, 4300, 4500, 4550
Canon BJC-6000, 6500
Canon BJC-7000
Canon BJC-8200
Canon LBP-720, 740
Canon Bubble Jet S520

The Epson Printer/plotter

Epson Stylus Photo 700, 710, 750
Epson Stylus Photo 870
Epson Stylus Photo 1200, 1270
Epson Stylus Photo EX
Epson Stylus Pro XL
Epson Stylus Color 400, 440, 460, 480
Epson Stylus Color 600, 640, 660
Epson Stylus Color 740
Epson Stylus Color 800, 850, 860
Epson Stylus Color 900
Epson Stylus Color 1160
Epson Stylus Color 1500, 1520
Epson Stylus Color 3000
Epson Stylus C60
Epson LQ-100
Epson LQ-300
Epson LQ-550, 570+
Epson LQ-1070C+
Epson LQ-2070, 2170C

Epson EPL-N2000, N2010
Epson EPL-5500, 5700, 5700L, 5800

The Fujitsu Printer

Fuji 10V, 14V
Fuji DL-700
Fuji DL-3800

The HP Printer/Plotter

HP Portable
HP LaserJet III
HP LaserJet 4P, 4L, 4V
HP LaserJet 5L
HP LaserJet 6P, 6L
HP LaserJet 1100, 1100A
HP LaserJet 1200
HP LaserJet 2100, 2100M
HP LaserJet 2200
HP LaserColorJet 8500
HP DeskJet 400, 420
HP DeskJet 500, 550C, 560C
HP DeskJet 670C, 695C
HP DeskJet 720C
HP DeskJet 810C, 890C
HP DeskJet 920C
HP DeskJet 930C(new), 970CXI
HP DeskJet 1120C
HP DeskJet 1125C
HP DesignJet 350C
HP DesignJet 600C
HP LaserJet 4000
HP LaserJet 5000
HP OfficeJet T45, 710

The IBM Printer

IBM 5577
IBM 4039 16L
IBM Infor Printer 20
IBM InfoPrint 32

The Lexmark Printer

Lexmark 4039 10R
Lexmark 5700
Lexmark Optra Color 45
Lexmark Optra C710
Lexmark Optra E, E+, E310
Lexmark Optra K1220
Lexmark Optra M410, M412
Lexmark Optra N
Lexmark Optra R+
Lexmark Optra S1250, S1855
Lexmark Optra SC-1275
Lexmark Optra SE-3455
Lexmark Optra T614
Lexmark Optra W810

Lexmark Z53

The NEC Printer

NEC P2200
NEC P3200
NEC P5300
NEC P6300
NEC P7300

Other Printers

Brother HL-1260
CD T120
Citizen GSX-230
Futek 84+
OKI ML-391
OKIdata OL-400
Olivetti JP450
Panasonic 2023
Panasonic KX-P1624
Printtec PR856C
Star NX-2420
Tektronix Phaser 350

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

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