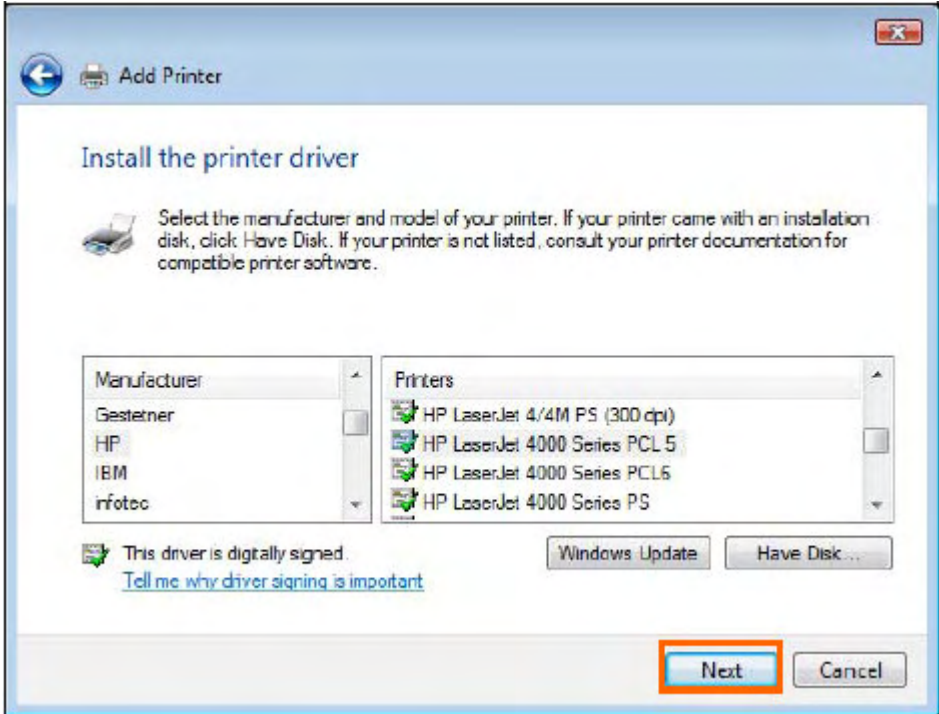


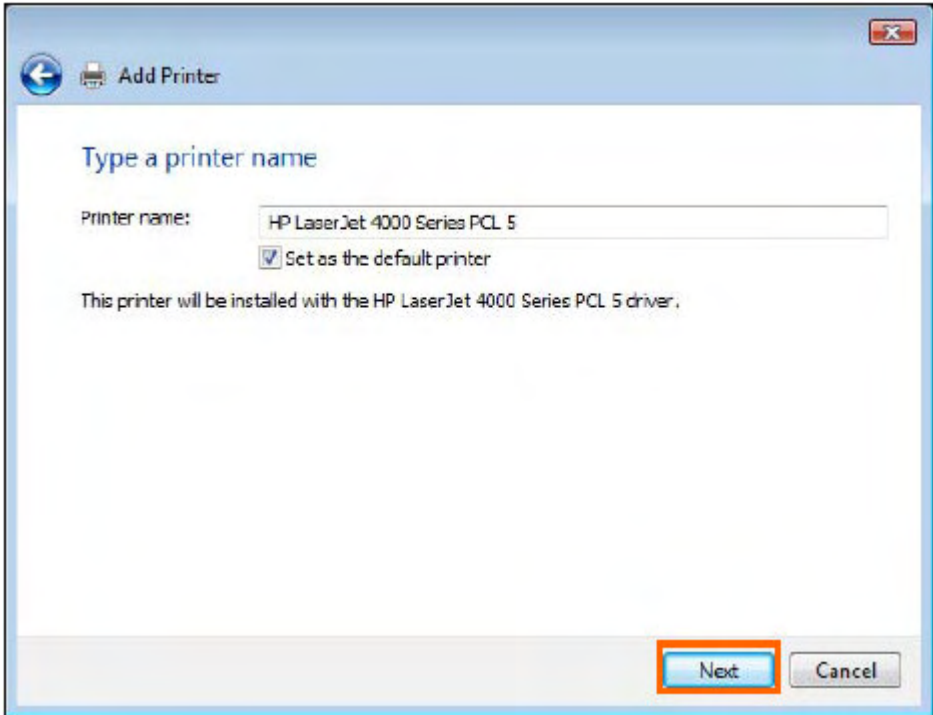
| DPR-1020  | Setup  | Advanced | Maintenance | Status  | Help |
|---|--|----------|-------------|---|------|
| Device Info<br>Network<br>Print Log<br><b>Printer</b><br>Offline<br><input type="button" value="Reboot"/> | <b>DEVICE INFO</b><br>The following shows the general system information.  |          |             | <b>Helpful Hints.</b><br><b>Print Server Status:</b><br>The information about the print server, including the firmware version, MAC, IP address, and up time, can be found in this field.<br><br><b>Printer Status:</b><br>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. |      |
|   | <b>PRINT SERVER STATUS</b><br>Server Name : dlnk-8124FA<br>Model : DPR-1020<br>Firmware Version : 1.00 (2008-09-03)<br>MAC Address : 00 FF 74 81 2A FA<br><b>IP Address : 10.62.31.15 (Manual)</b><br>Up Time : 0 days, 00:00:17 |          |             |   |      |

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.

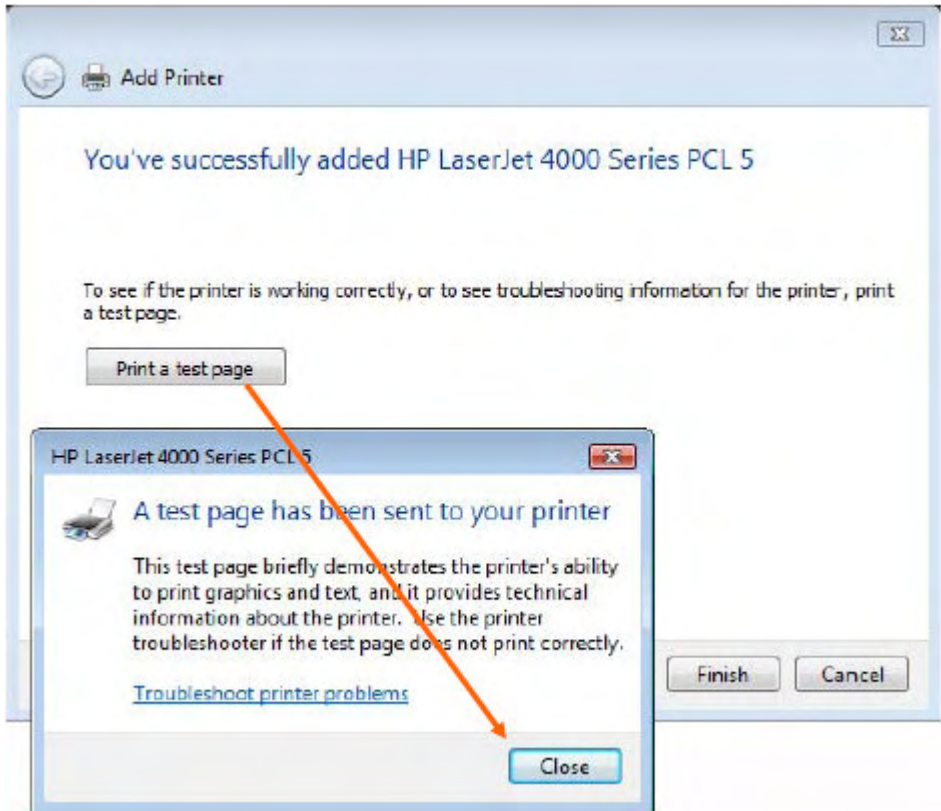
Click **Next**



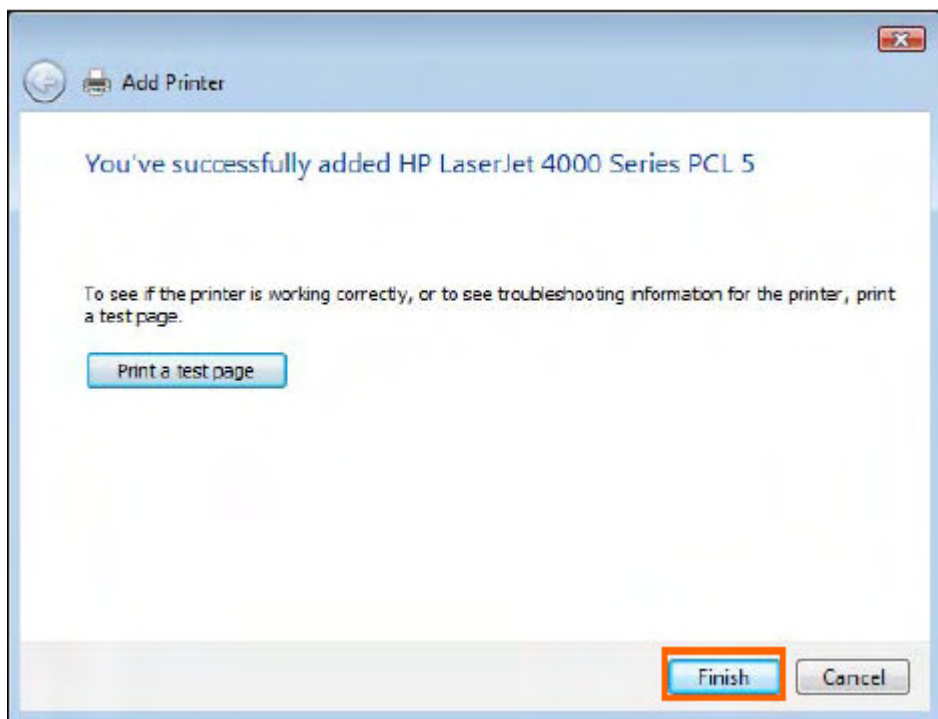
Click **Next** to start installing the printer.



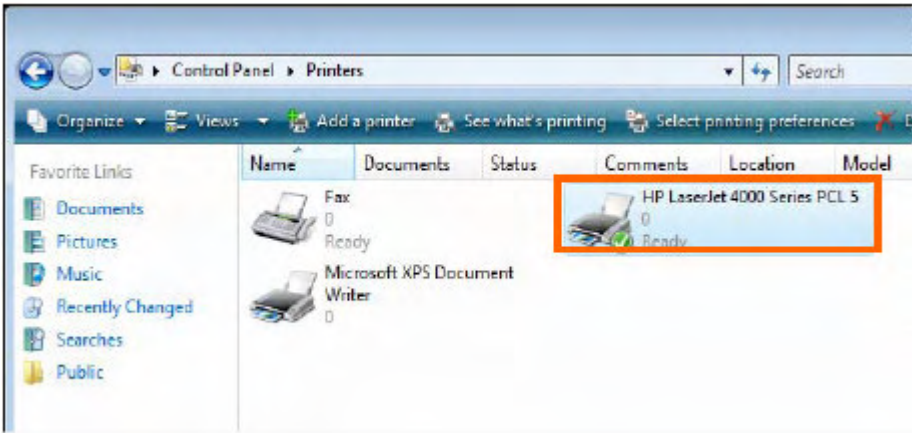
After clicking **Print a test page**, a small dialogue box will show up as below. Click **Close**.



Click **Finish**.

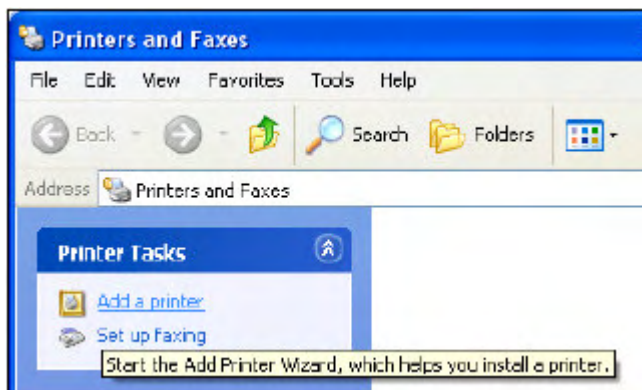


The printer is now ready for printing with Windows Vista on your network.



# TCP/IP Printing for Windows XP

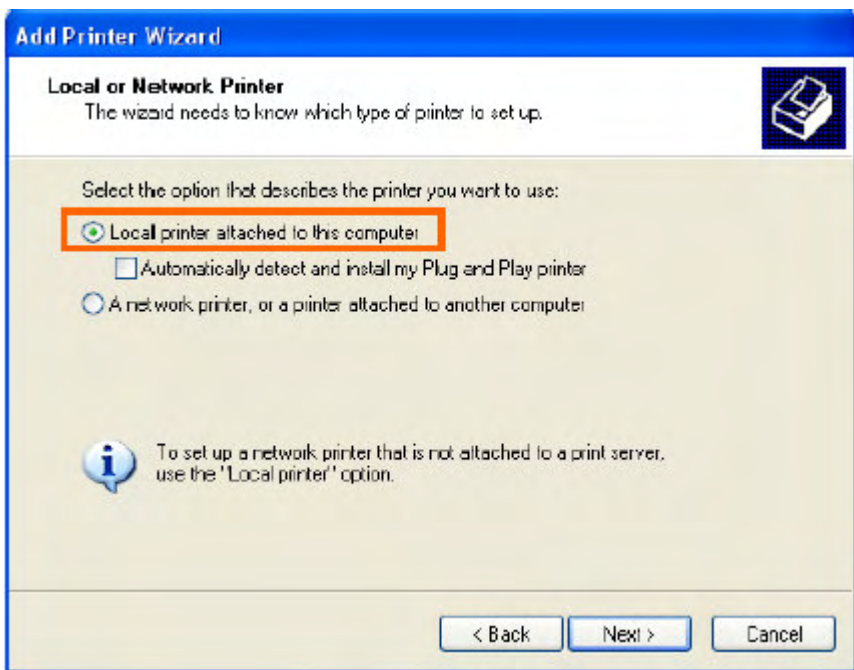
Go to **Start => Printers and Faxes => Add a Printer.**



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

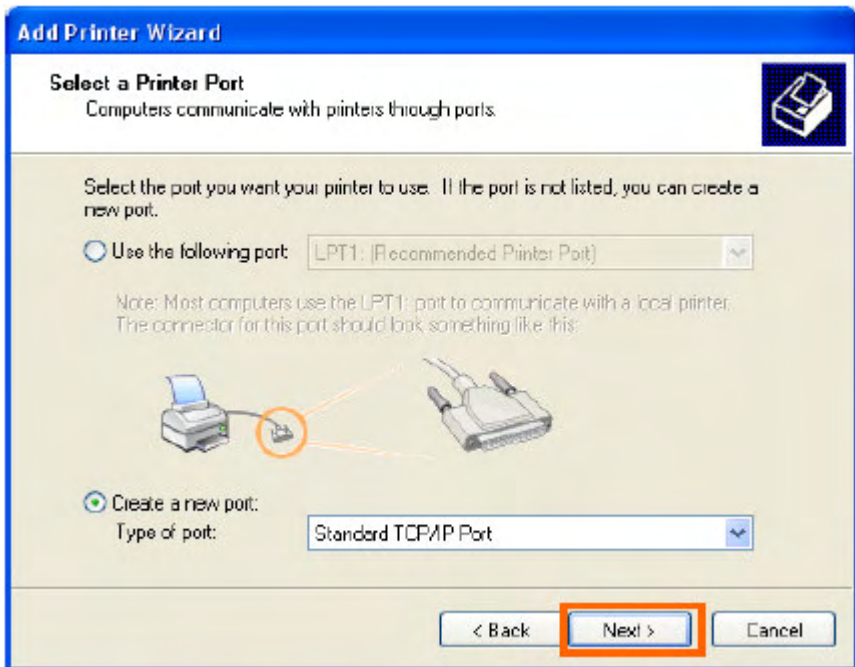


Select the first option, **Local printer attached to this computer**, and click **Next**.





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 MFP server (e.g. 10.62.31.15 used in this manual), which can be referred from the **PRINTER SERVER STATUS** of the MFP 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

Products: DPR-1020    Firmware Version: 1.00

**D-Link**

DPR-1020    Setup    Advanced    Maintenance    Status    Help

Device Info    **DEVICE INFO**    Helpful Hints.

Network    The following shows the general system information.

Print Log    **PRINT SERVER STATUS**

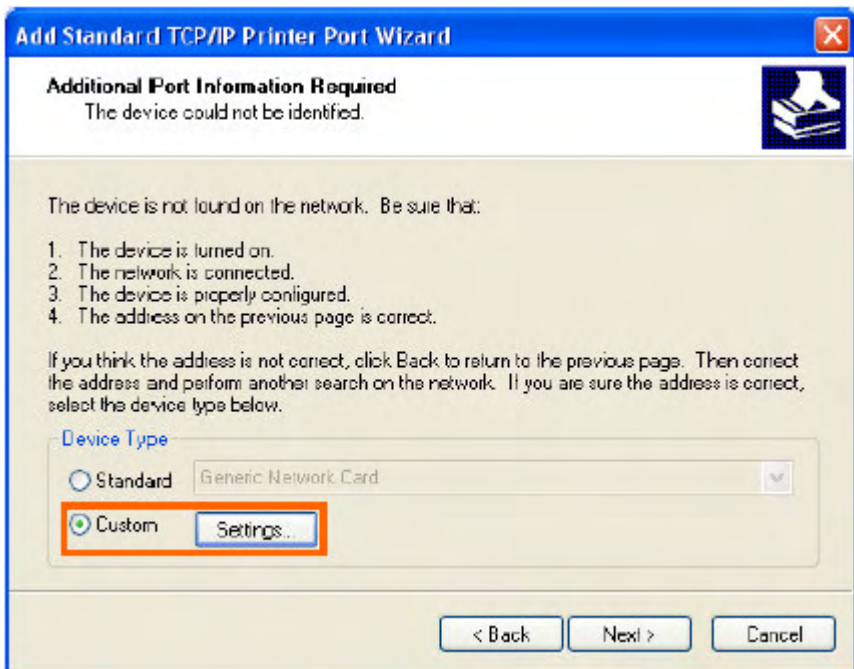
Printer Off line    Server Name : dlnk-B12AFA  
Model : DPR-1020  
Firmware Version : 1.00 (2008-09-03)  
MAC Address : 00 FF 74 81 2A FA  
**IP Address : 10.62.31.15 (Manual)**  
Up Time : 0 days, 00:00:17

Reboot

**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 the 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**.



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

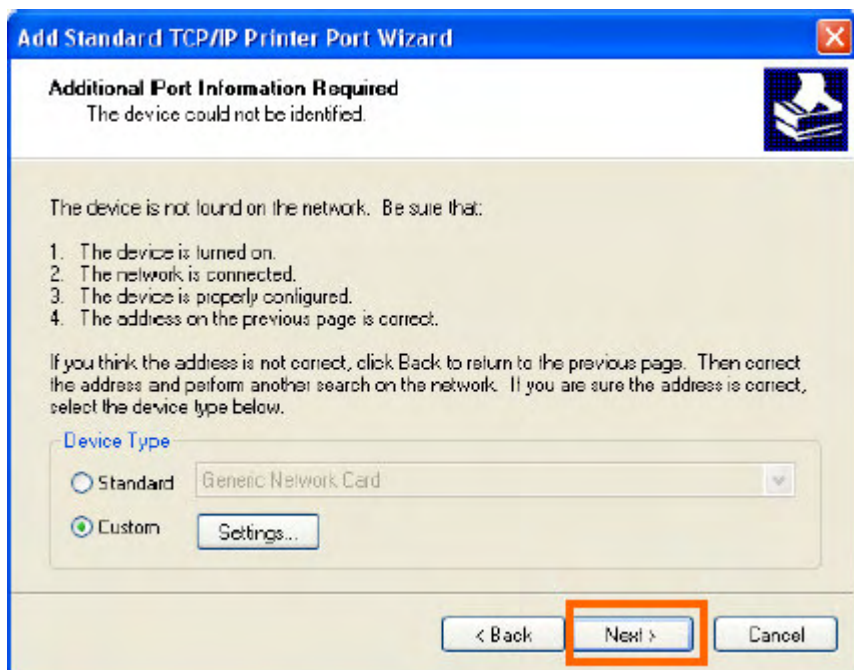
Then enter the **Queue Name**, which can be referred from **PRINTER STATUS** of the MFP server's Web configuration, in the **LPR Settings** field. Click **OK**.

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

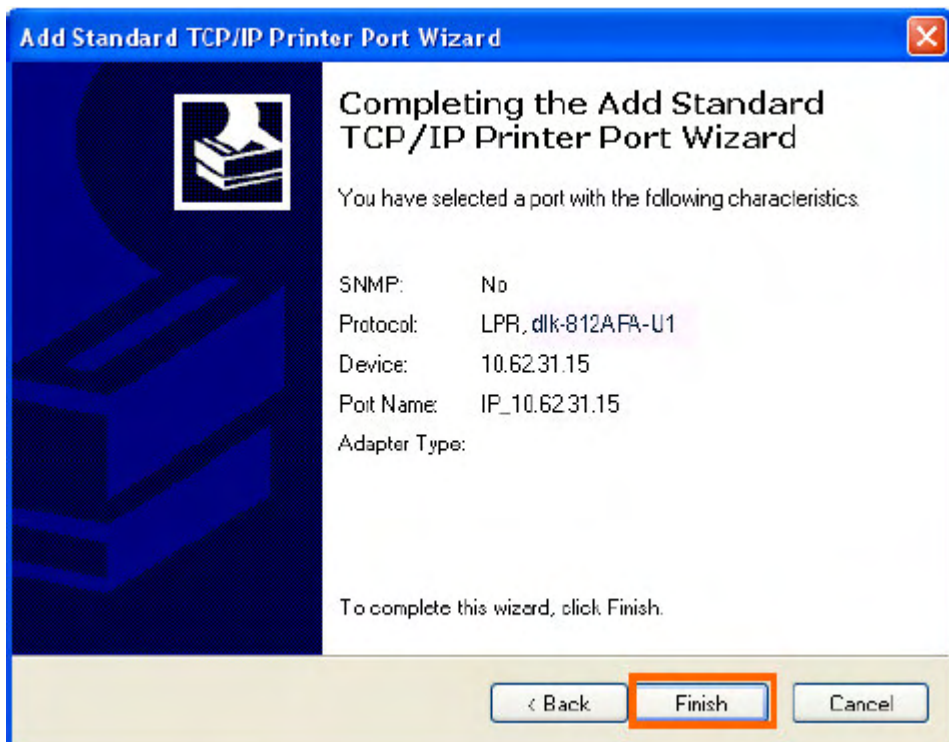
- Port Settings:** Contains two text input fields. The first is labeled "Port Name:" and contains the text "IP\_10.62.31.15". The second is labeled "Printer Name or IP Address:" and contains the text "10.62.31.15".
- Protocol:** A section with two radio buttons. The first is labeled "Raw" and is unselected. The second is labeled "LPR" and is selected. This section is highlighted with an orange border.
- Raw Settings:** Contains one text input field labeled "Port Number:" with the value "515".
- LPR Settings:** Contains one text input field labeled "Queue Name:" with the value "dlk-812AFA-U1". This section is highlighted with an orange border.
- Below the LPR Settings, there are two checkboxes: "LPR Byte Counting Enabled" (unchecked) and "SNMP Status Enabled" (unchecked).
- Below the checkboxes, there are two more text input fields: "Community Name:" with the value "public" and "SNMP Device Index:" with the value "1".
- At the bottom right, there are two buttons: "OK" and "Cancel". The "OK" button is highlighted with an orange border.

| DPR-1020  | Setup  | Advanced | Maintenance | Status   | Help |
|---|--|----------|-------------|--|------|
| Device Info<br>Network<br>Print Log<br><br>Reboot | <b>DEVICE INFO</b><br>The following shows the general system information.  |          |             | <b>Helpful Hints.</b><br><b>Print Server Status:</b><br>The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.<br><br><b>Printer Status:</b><br>The items in the 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.<br><br><b>LAN Status:</b><br>You can monitor the networking status in this field, including the network connection, speed, and the packets status. |      |
|   | <b>PRINT SERVER STATUS</b><br>Server Name : dlink-8124FA<br>Model : DPR-1020<br>Firmware Version : 1.00 (2008-09-03)<br>MAC Address : 00 FF 74 81 2A FA<br>IP Address : 10.02.31.15 (Manual)<br>Up Time : 0 days, 06:00:17 |          |             |  |      |
|   | <b>PRINTER STATUS</b><br>USB : Printer Name : dlk-8124FA-U1<br>Printer Speed : Off line<br>Printer Status : Off line<br><br>Total Print Jobs : 0<br>Total Print Size : 0 Kbytes  |          |             |  |      |

Click **Next**.



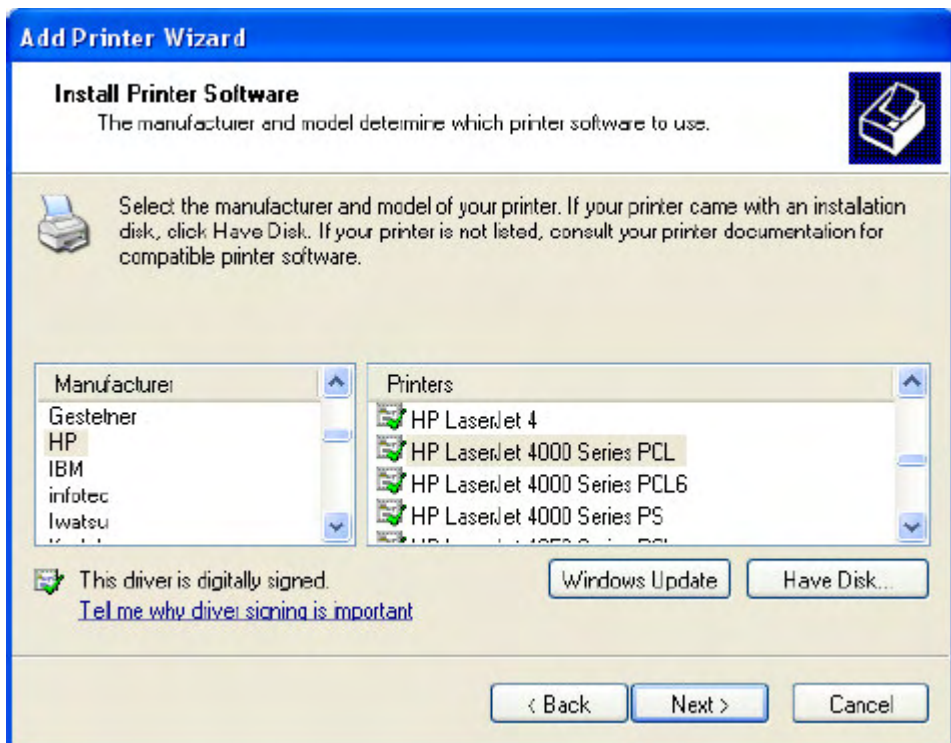
Click **Finish**.



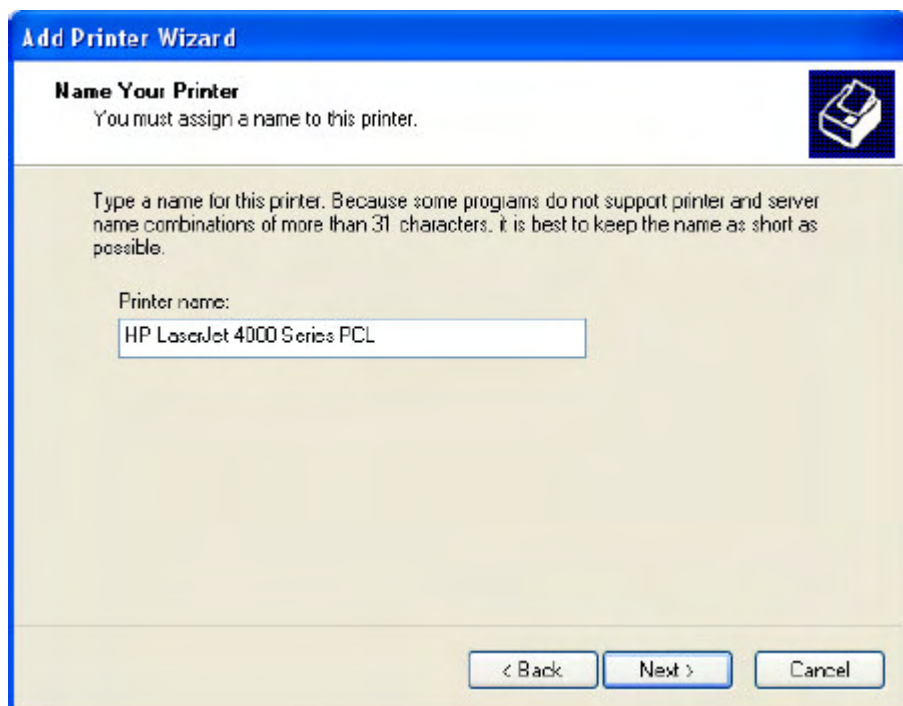


Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click **Next**



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



**Add Printer Wizard**

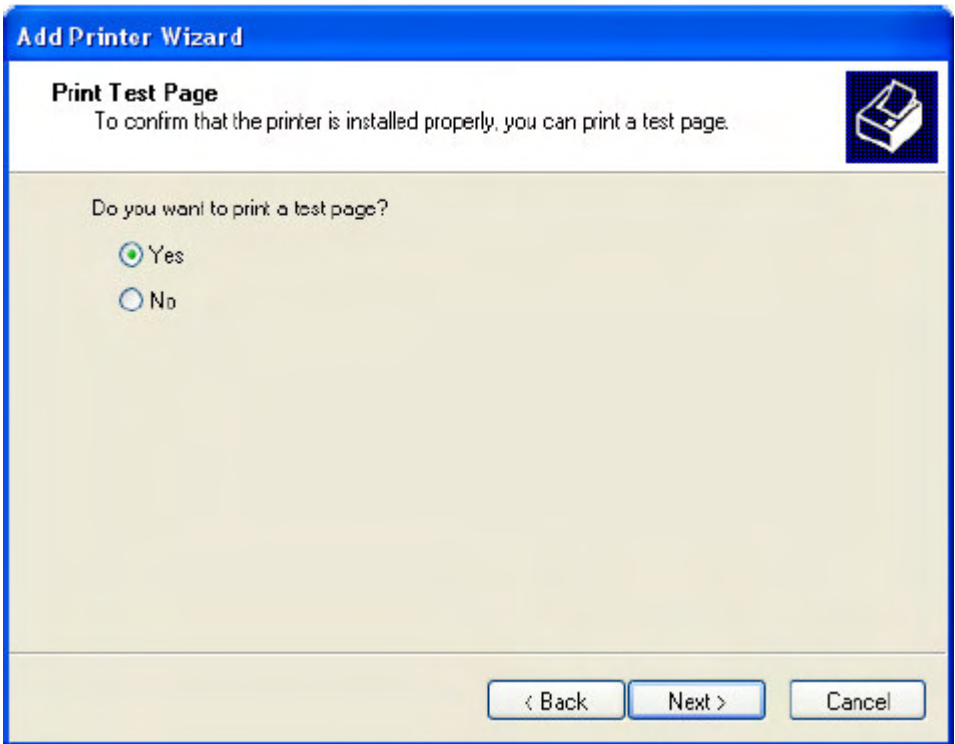
**Name Your Printer**  
You must assign a name to this printer.

Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.

Printer name:

< Back   Next >   Cancel

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



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

## Add Printer Wizard



### Completing the Add Printer Wizard

You have successfully completed the Add Printer Wizard. You specified the following printer settings:

Name: HP LaserJet 4000 Series PCL  
Share name: <Not Shared>  
Port: IP\_10.62.31.15  
Model: HP LaserJet 4000 Series PCL  
Default: Yes  
Test page: Yes

To close this wizard, click Finish.

< Back

Finish

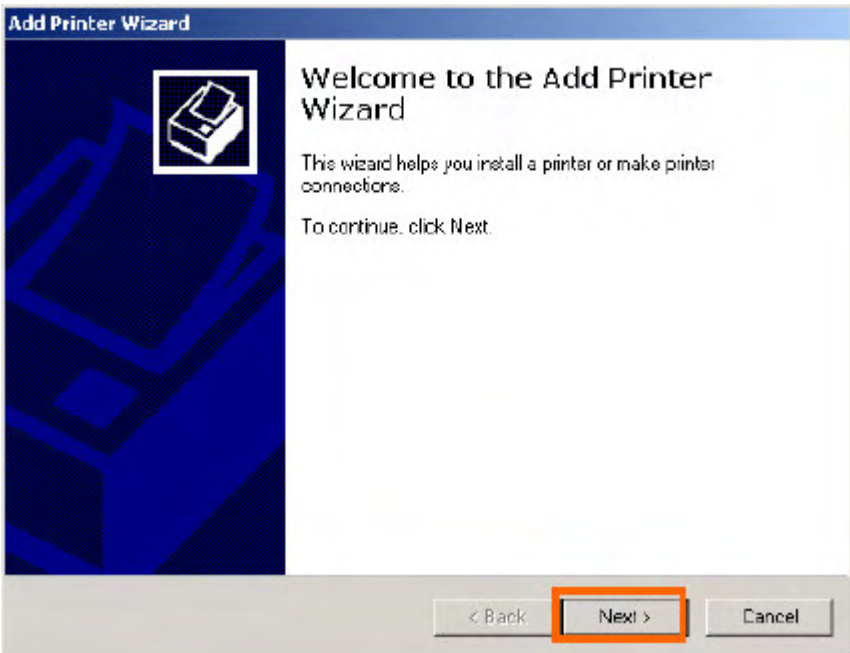
Cancel

# TCP/IP Printing for Windows 2000

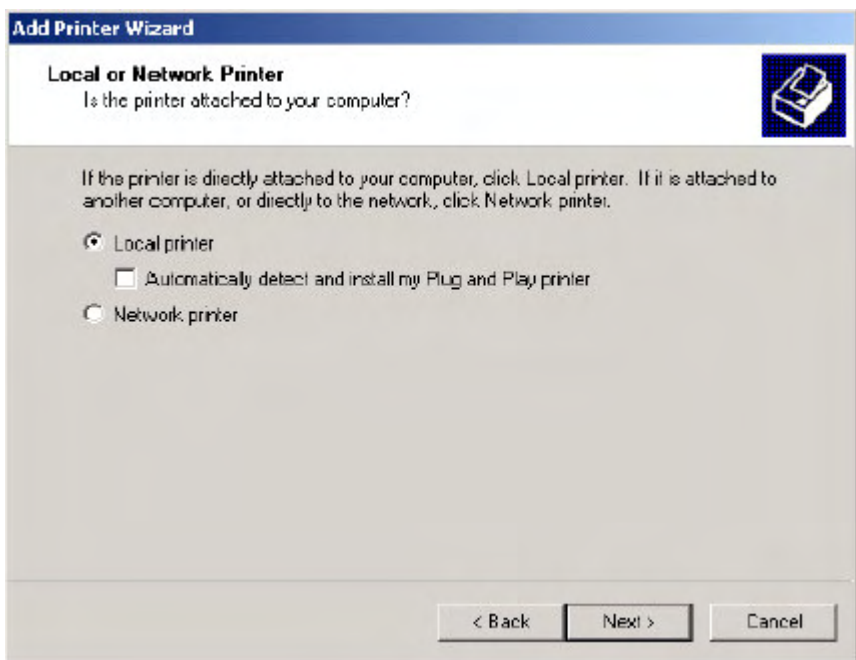
Go to **Start => Settings => Printers and Faxes => Add a Printer.**



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

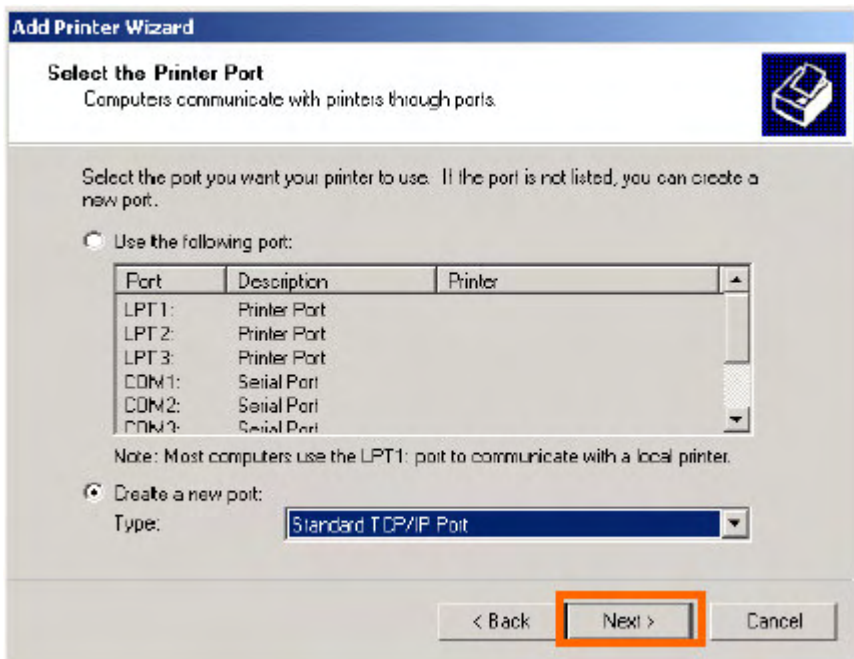


Select the first option, **Local printer attached to this computer**, and click **Next**.

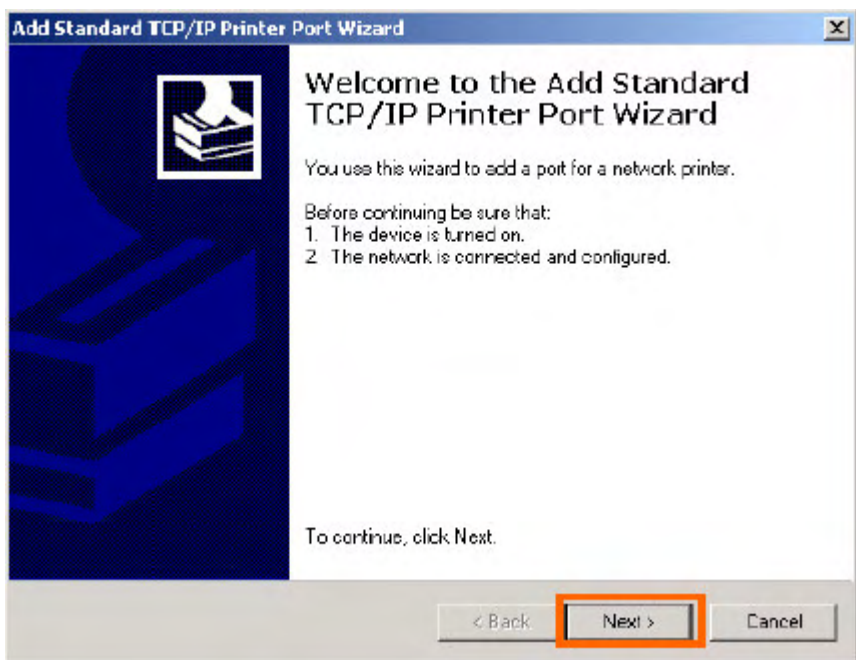


Click **Next** if New Printer Detection page pops up.

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

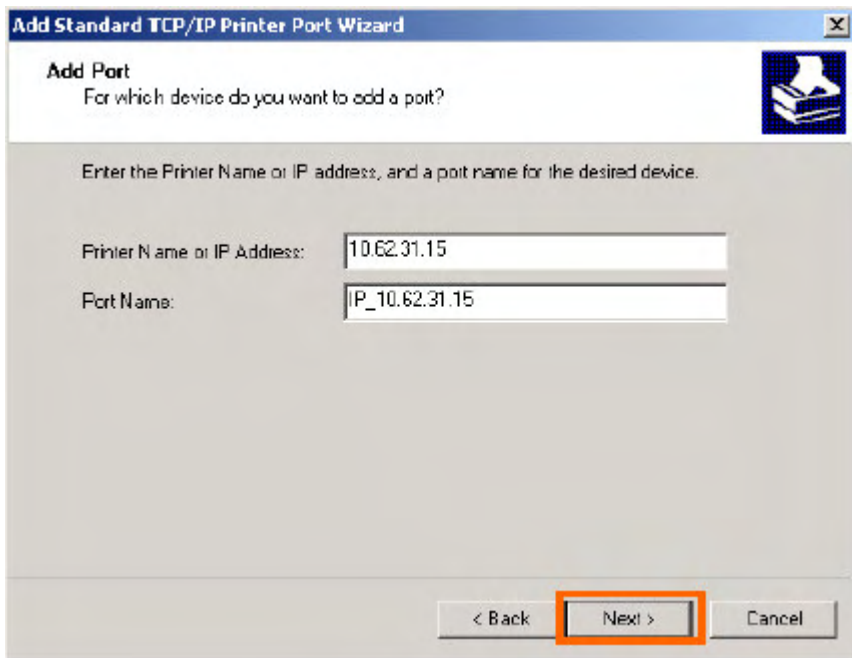


Click **Next**.





Type the IP address of the MFP server (e.g. 10.62.31.15 used in this manual), which can be checked from the **PRINTER SERVER STATUS** of the MFP 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: DPR-1020      Firmware Version: 1.00

**D-Link**

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

Device Info      **DEVICE INFO**      Helpful Hints.

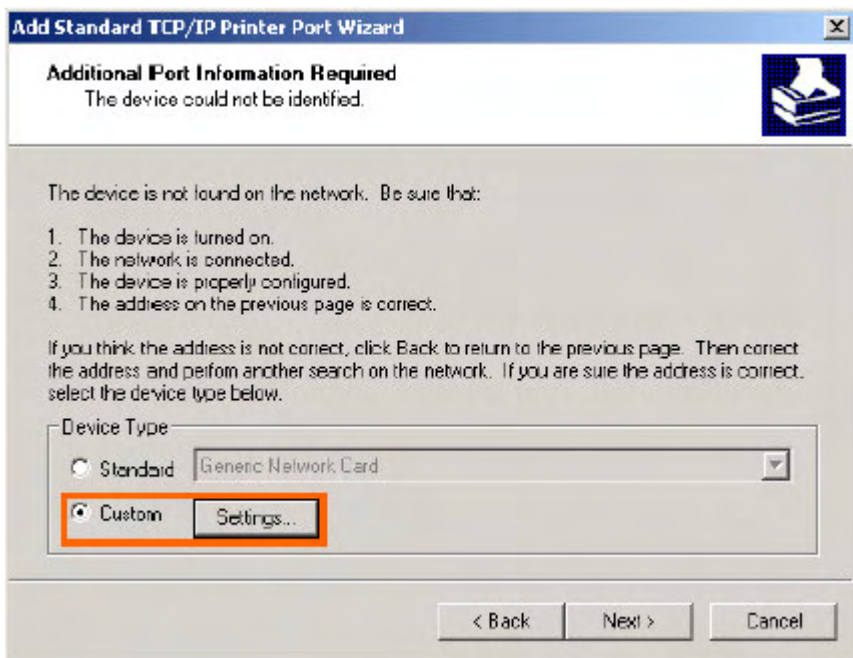
Network      The following shows the general system information.      **Print Server Status:**  
The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.

Print Log      **PRINT SERVER STATUS**      **Printer Status:**  
The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.

Printer      **Server Name :** dlnk-B12AFA  
**Model :** DPR-1020  
**Firmware Version :** 1.00 (2008-09-03)  
**MAC Address :** 00 FF 74 81 2A FA  
**IP Address :** 10.62.31.15 (Manual)  
**Up Time :** 0 days, 00:00:17

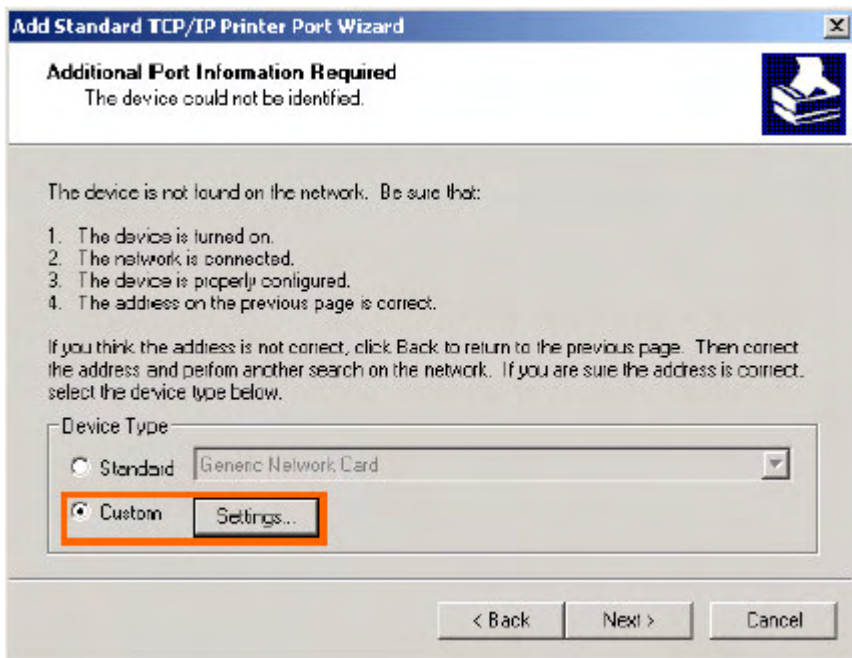
Reboot

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



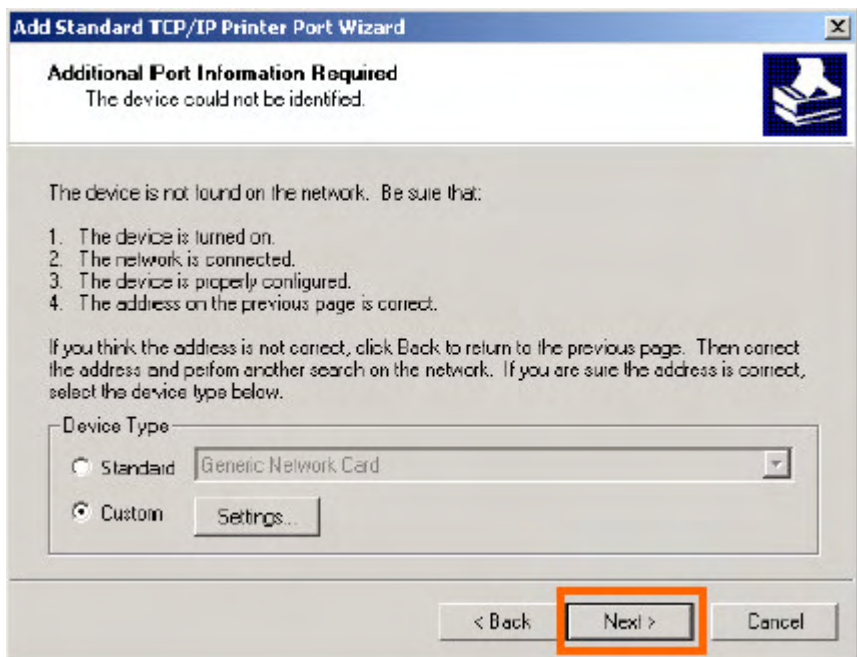
Then the follow screen will shows up, select **LPR** from the **Protocol** field.

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

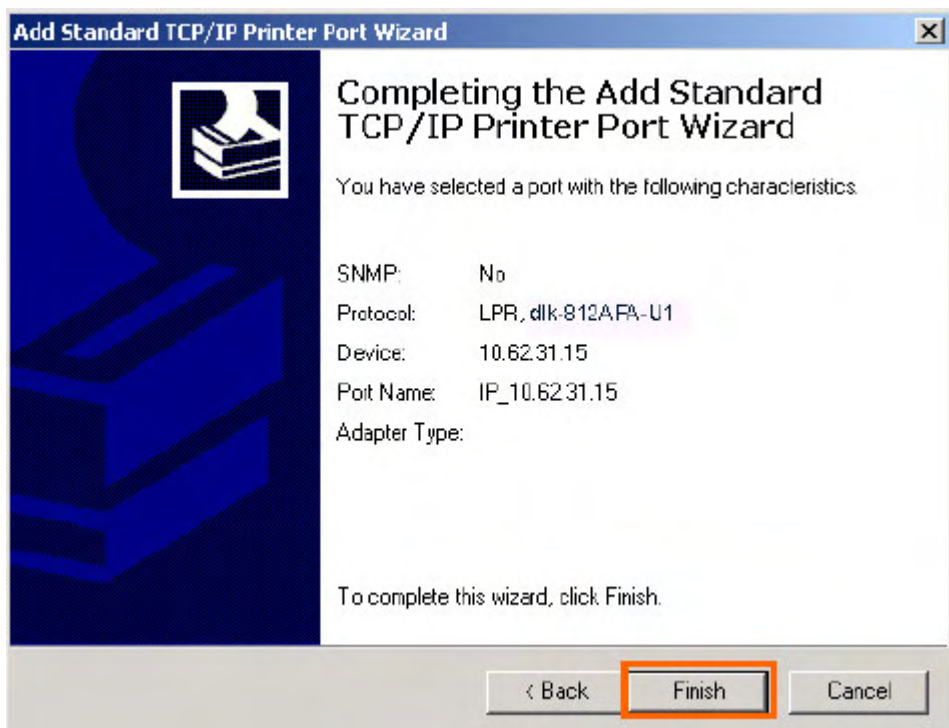


| DPR-1020         | Setup   | Advanced        | Maintenance | Status | Help  |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
|------------------|---|-----------------|-------------|--------|---|---|-----------------|---------------|---|----------|----------------|---|----------|--|--|--|------------------|---|---|------------------|---|----------|
| Device Info      | <b>DEVICE INFO</b>  |                 |             |        | <b>Helpful Hints:</b><br><b>Print Server Status:</b><br>The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.<br><br><b>Printer Status:</b><br>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.<br><br><b>LAN Status:</b><br>You can monitor the networking status in this field, including the network connection, speed, and the packets status. |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| Network          | The following shows the general system information.   |                 |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| Print Log        | <b>PRINT SERVER STATUS</b>  |                 |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| <br>Reboot       | <b>Server Name :</b> dlink-812AFA<br><b>Model :</b> DPR-1020<br><b>Firmware Version :</b> 1.00 (2008-09-03)<br><b>MAC Address :</b> 00 FF 74 81 2A FA<br><b>IP Address :</b> 10.62.31.15 (Manual)<br><b>Up Time :</b> 0 days, 00:00:17  |                 |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
|                  | <b>PRINTER STATUS</b>   |                 |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
|                  | <b>USB :</b> <table border="0"> <tr> <td>Printer Name</td> <td>:</td> <td>dlink-812AFA-U1</td> </tr> <tr> <td>Printer Speed</td> <td>:</td> <td>Off line</td> </tr> <tr> <td>Printer Status</td> <td>:</td> <td>Off line</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Total Print Jobs</td> <td>:</td> <td>0</td> </tr> <tr> <td>Total Print Size</td> <td>:</td> <td>0 KBytes</td> </tr> </table> |                 |             |        | Printer Name  | : | dlink-812AFA-U1 | Printer Speed | : | Off line | Printer Status | : | Off line |  |  |  | Total Print Jobs | : | 0 | Total Print Size | : | 0 KBytes |
| Printer Name     | :   | dlink-812AFA-U1 |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| Printer Speed    | :   | Off line        |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| Printer Status   | :   | Off line        |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
|                  |   |                 |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| Total Print Jobs | :   | 0               |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |
| Total Print Size | :   | 0 KBytes        |             |        |   |   |                 |               |   |          |                |   |          |  |  |  |                  |   |   |                  |   |          |

Click **Next**.

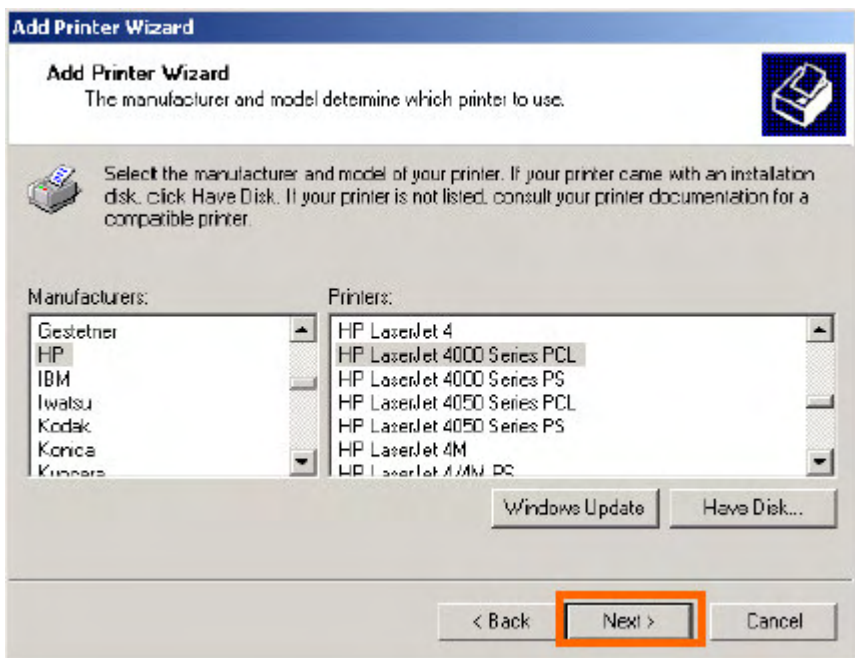


Click **Finish**.

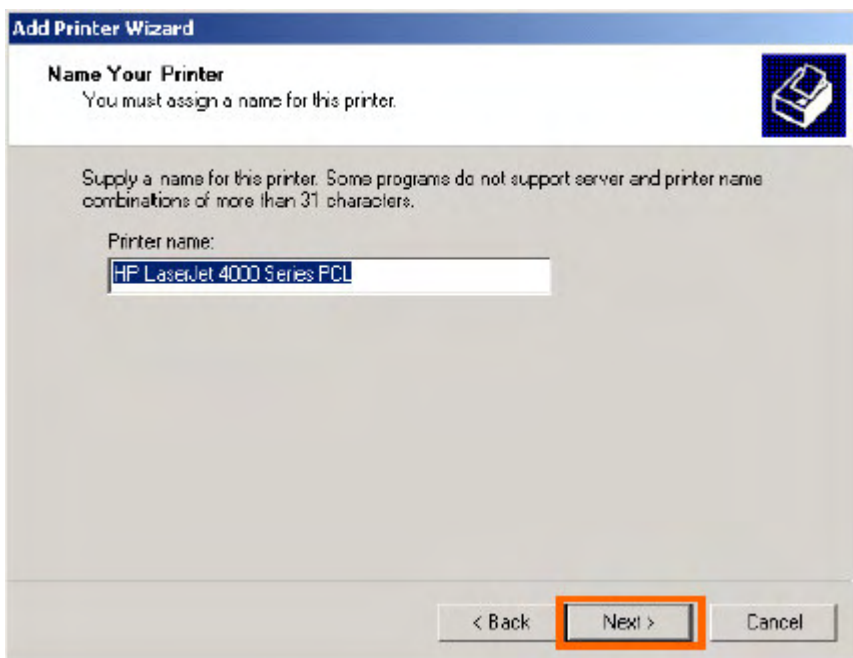


Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers.

Click **Next**.

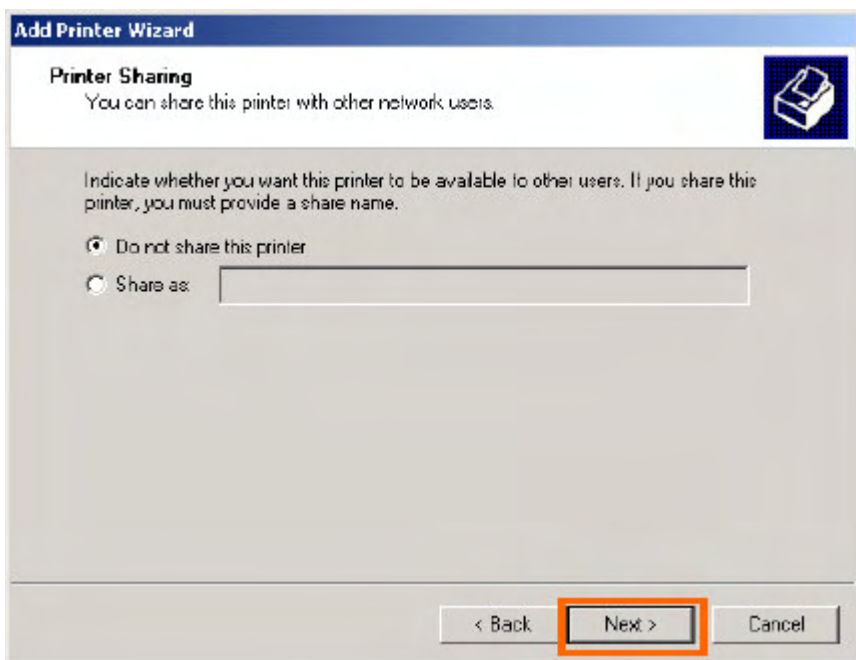


At this screen, you can input a name for the printer, and then click **Next**

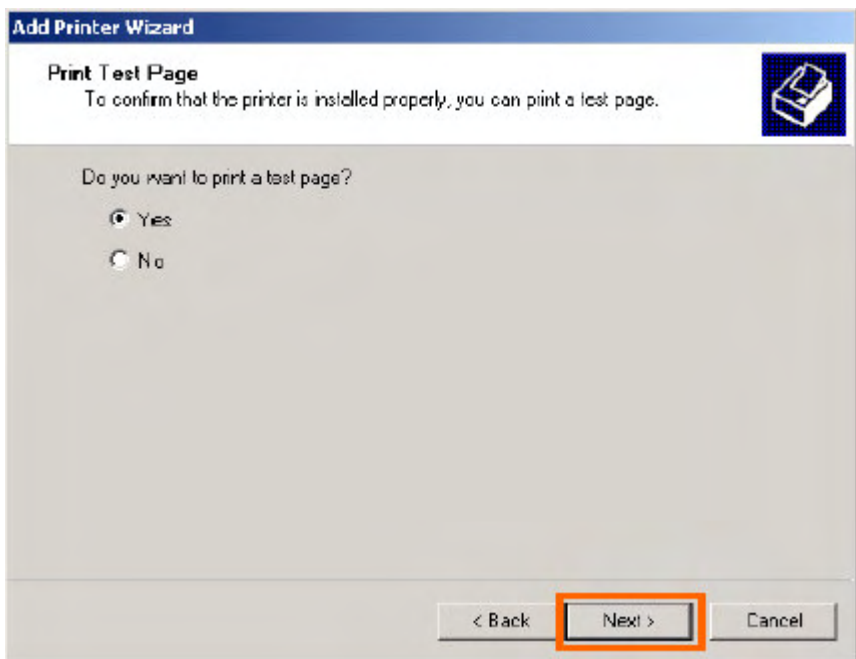




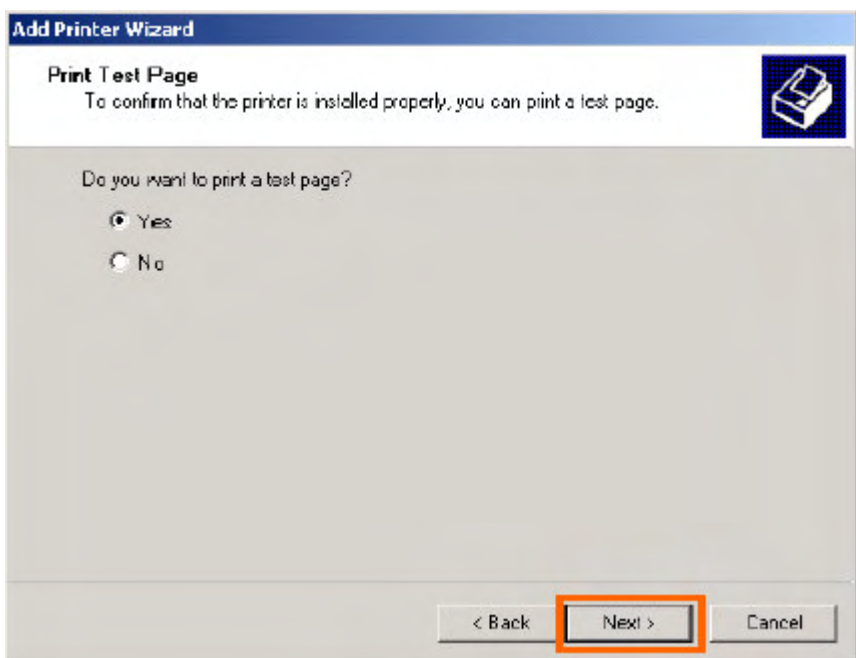
Select the first option, **Do not share this printer**, and click **Next**.



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

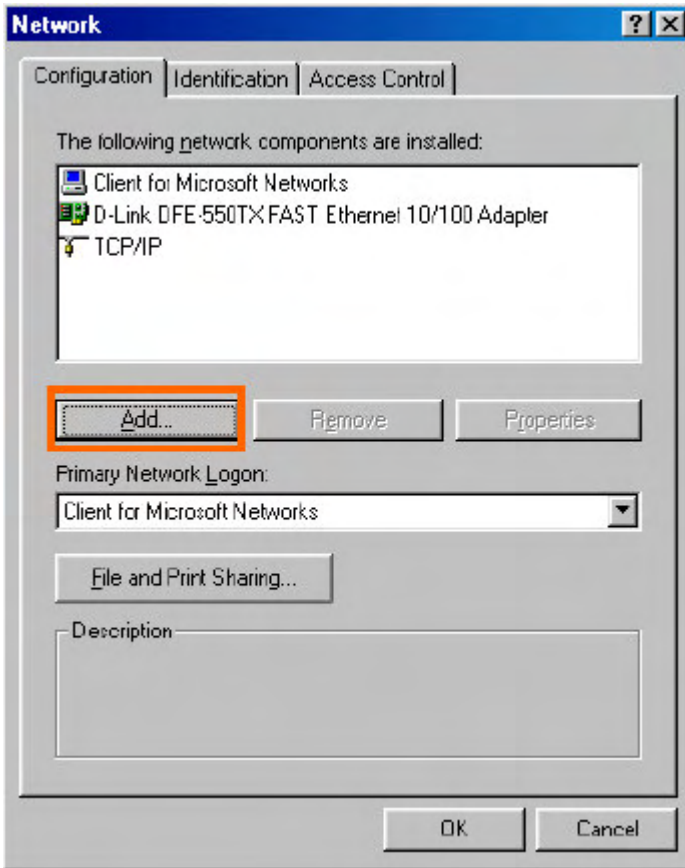


Click **Finish**. The printer is now ready for printing with Windows 2000 on your network.

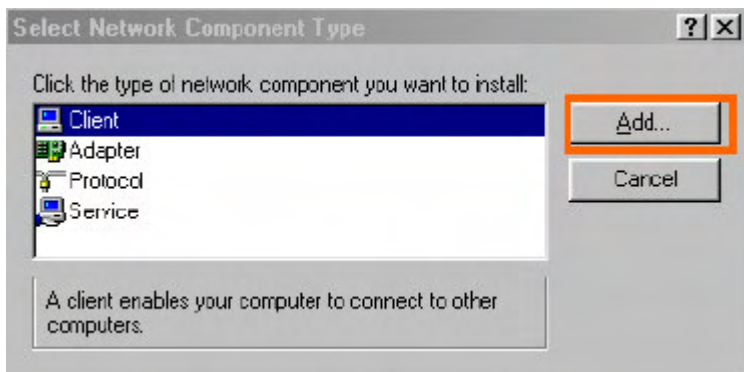


# TCP/IP Printing for Windows 98SE/ME

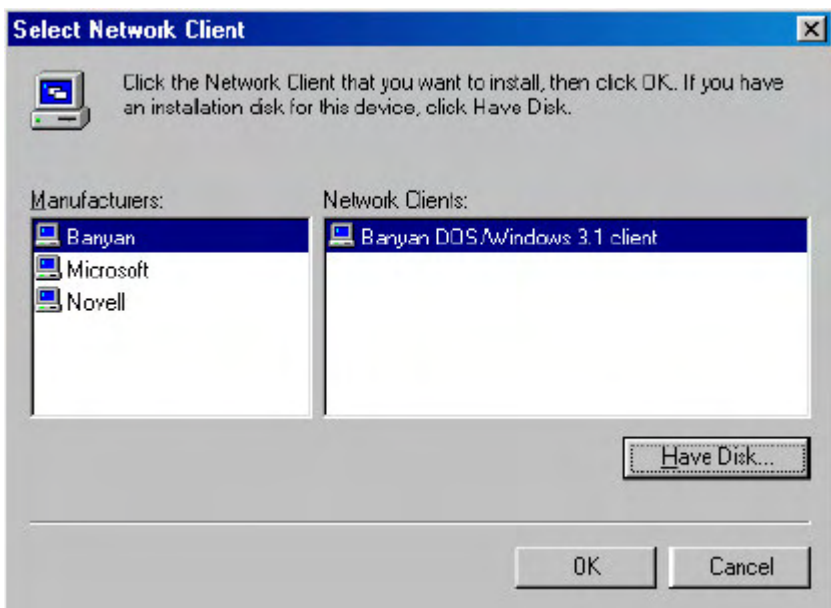
Go to **Start => Settings => Control Panel**. Double click on **Network**, and then click **Add**.



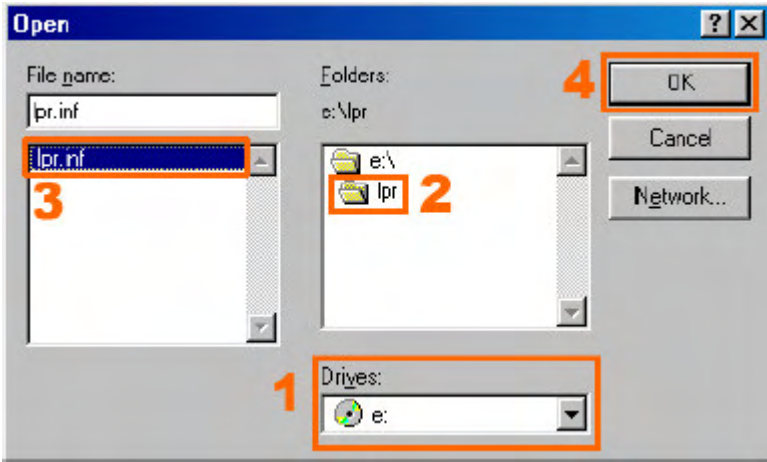
Highlight **Client** and click **Add**.



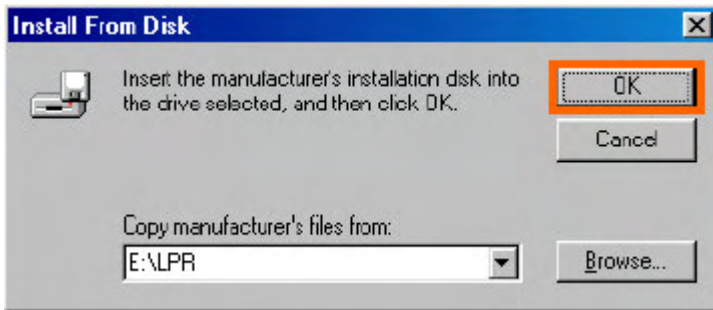
At this window, click **Have Disk**.



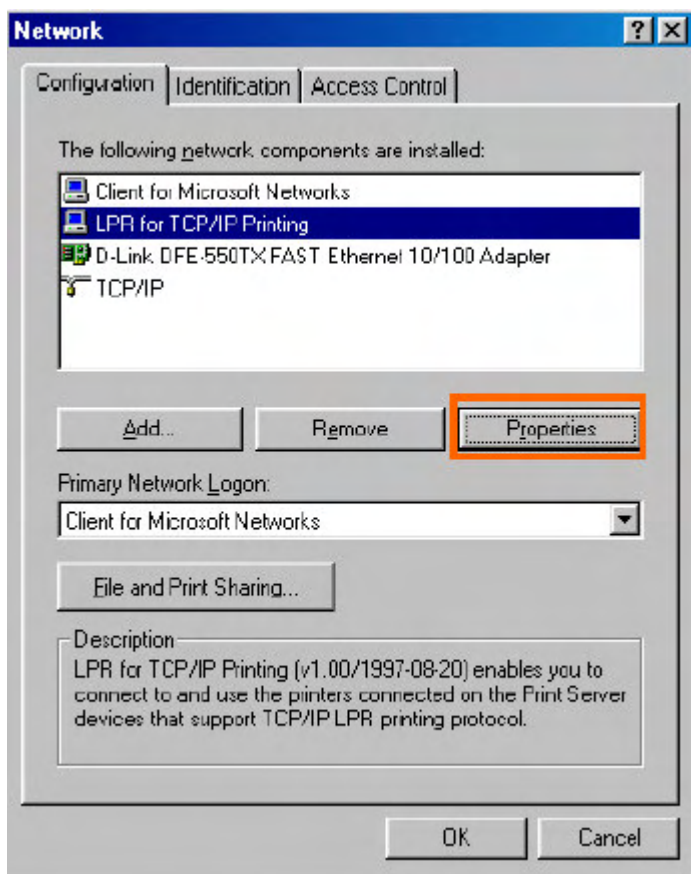
1. Insert the DPP-1061 CD-ROM into your CD-ROM drive. Select the letter representing the CD-ROM drive on your computer from the pull-down menu.
2. Double-click on the folder **lpr**.
3. Highlight **lpr.inf**
4. Click **OK**.



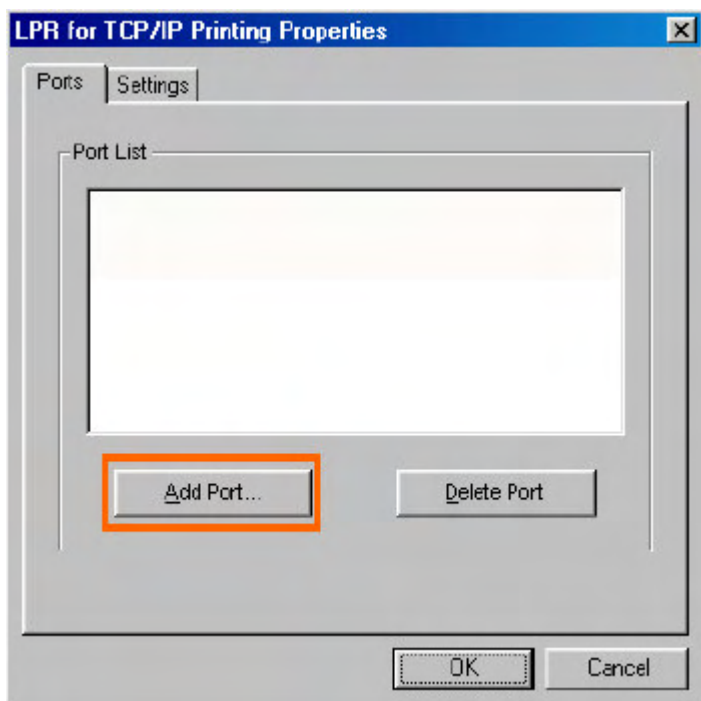
Click OK to accept the location of the file.



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

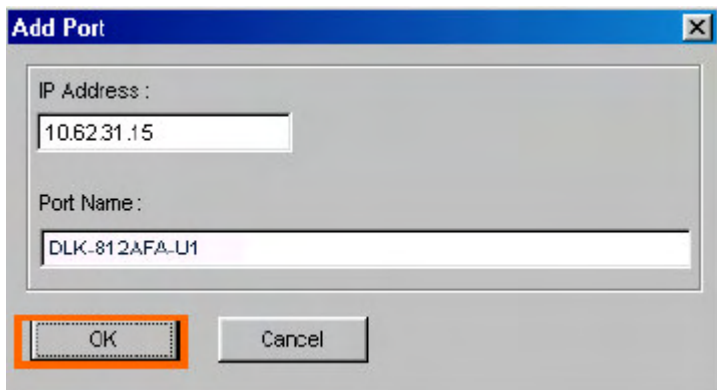


Click **Add Port**.





Type in the IP address and Port Name of the MFP server, which can be referred from the **PRINTER SERVER STATUS** and **PRINTER STATUS** of the MFP 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** [X]


IP Address :  
10.62.31.15

Port Name :  
DLK\_812AFA-U1

OK Cancel

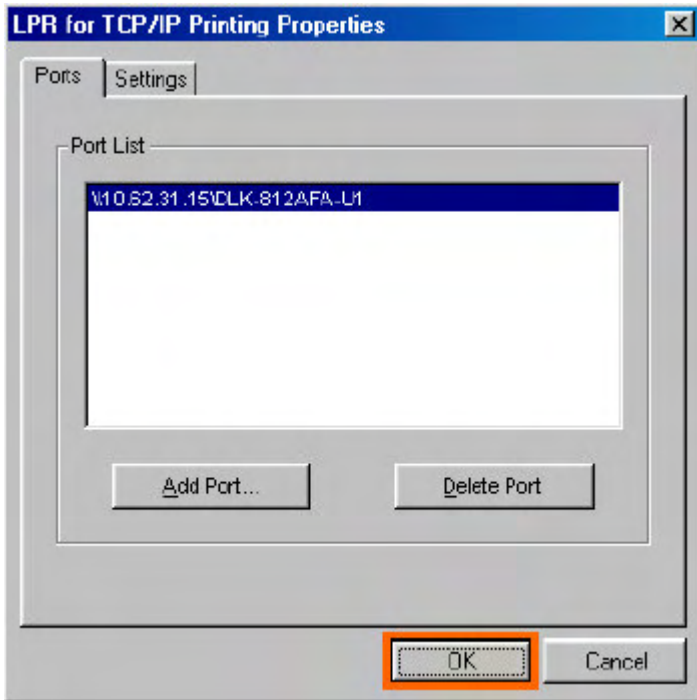
Products: DPR-1020 Firmware Version: 1.00

# D-Link

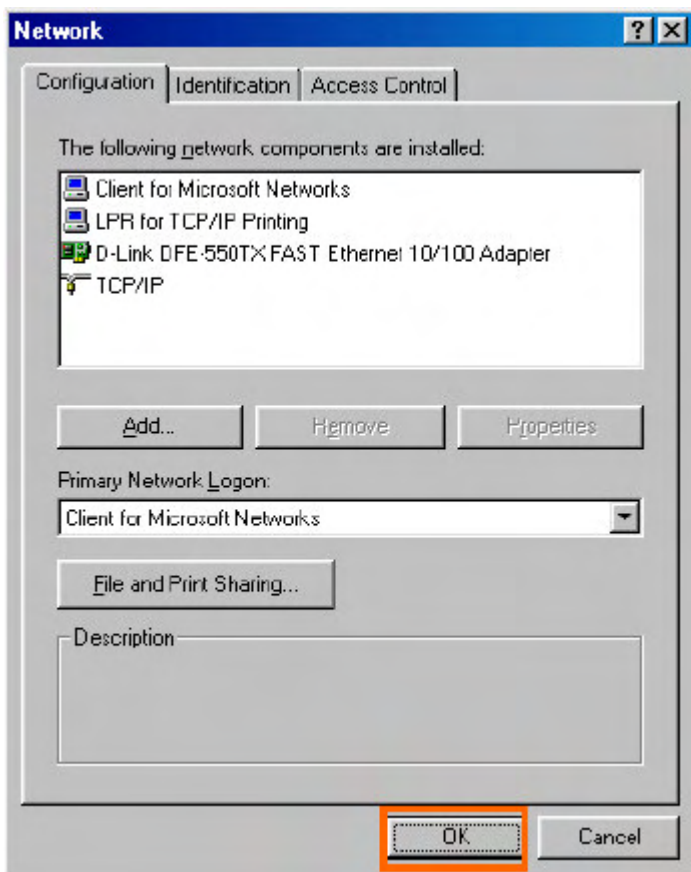
| DPR-1020  | Setup   | Advanced | Maintenance | Status | Help   |
|---|---|----------|-------------|--------|--|
| Device Info   | <b>DEVICE INFO</b>  |          |             |        | <b>Helpful Hints.</b><br><b>Print Server Status:</b><br>The information about the print server, including the firmware version, MAC/IP address, and Up time, can be found in this field.<br><b>Printer Status:</b><br>The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc. |
| Network   | The following shows the general system information.   |          |             |        |  |
| Print Log   | <b>PRINT SERVER STATUS</b>  |          |             |        |  |
|  <b>Printer</b><br><b>Off line</b><br><b>Reboot</b> | Server Name : dlk-812AFA<br>Model : DPR-1020<br>Firmware Version : 1.00 (2008-09-03)<br>MAC Address : 00 FF 74 81 2A FA<br><b>IP Address : 10.62.31.15 (Manual)</b><br>Up Time : 0 days, 00:00:17 |          |             |        |  |

| DPR-1020  | Setup   | Advanced | Maintenance | Status | Help  |                 |               |            |                |            |                  |     |                  |            |
|---|---|----------|-------------|--------|---|-----------------|---------------|------------|----------------|------------|------------------|-----|------------------|------------|
| Device Info<br>Network<br>Print Log<br>Printer<br>Off line<br><input type="button" value="Reboot"/>   | <b>DEVICE INFO</b><br>The following shows the general system information. |          |             |        | <b>Helpful Hints.</b><br><b>Print Server Status:</b><br>The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.<br><b>Printer Status:</b><br>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.<br><b>LAN Status:</b><br>You can monitor the networking status in this field, including the network connection, speed, and the packets status. |                 |               |            |                |            |                  |     |                  |            |
| <b>PRINT SERVER STATUS</b>  |   |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| Server Name : dlink-812AFA<br>Model : DPR-1020<br>Firmware Version : 1.00 (2008-09-03)<br>MAC Address : 00 FF 74 81 2A FA<br>IP Address : 10.62.31.15 (Manual)<br>Up Time : 0 days, 00:00:17  |   |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| <b>PRINTER STATUS</b>   |   |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| USB : <table border="1"> <tr> <td>Printer Name</td> <td>: dlc-812AFA-U1</td> </tr> <tr> <td>Printer Speed</td> <td>: Off line</td> </tr> <tr> <td>Printer Status</td> <td>: Off line</td> </tr> <tr> <td>Total Print Jobs</td> <td>: 0</td> </tr> <tr> <td>Total Print Size</td> <td>: 0 KBytes</td> </tr> </table> |   |          |             |        | Printer Name  | : dlc-812AFA-U1 | Printer Speed | : Off line | Printer Status | : Off line | Total Print Jobs | : 0 | Total Print Size | : 0 KBytes |
| Printer Name  | : dlc-812AFA-U1   |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| Printer Speed   | : Off line  |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| Printer Status  | : Off line  |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| Total Print Jobs  | : 0   |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |
| Total Print Size  | : 0 KBytes  |          |             |        |   |                 |               |            |                |            |                  |     |                  |            |

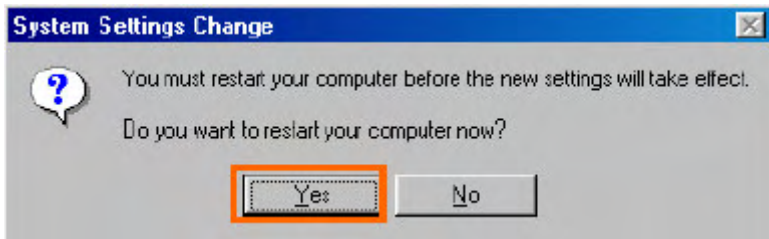
The IP Address and Port Name will be displayed in the following screen. (The IP Address and Port Name here are just for example only.) Click **OK**.



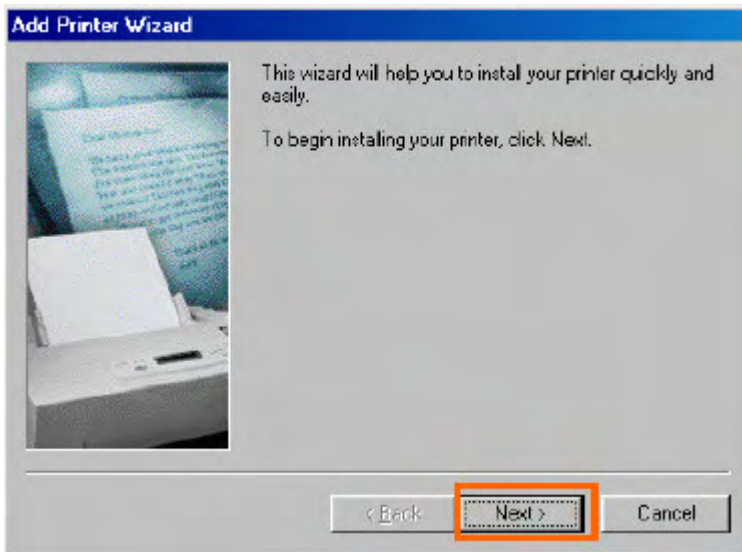
Click **OK**.



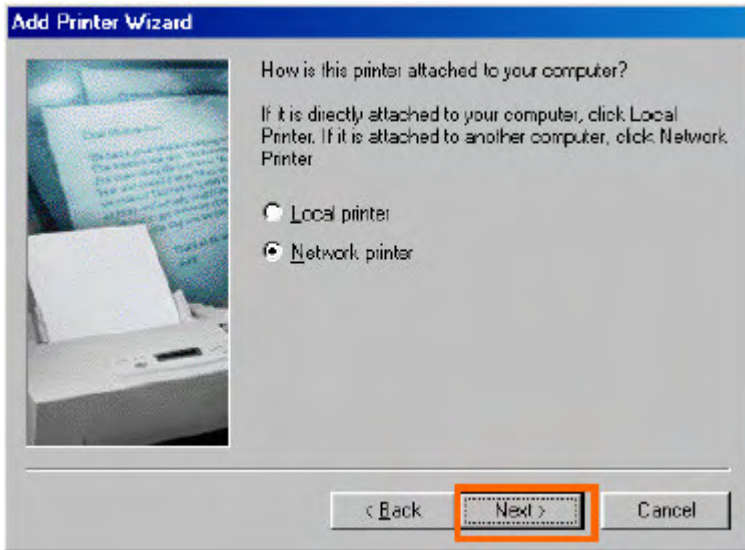
Windows will ask for a restart. Click **Yes**.



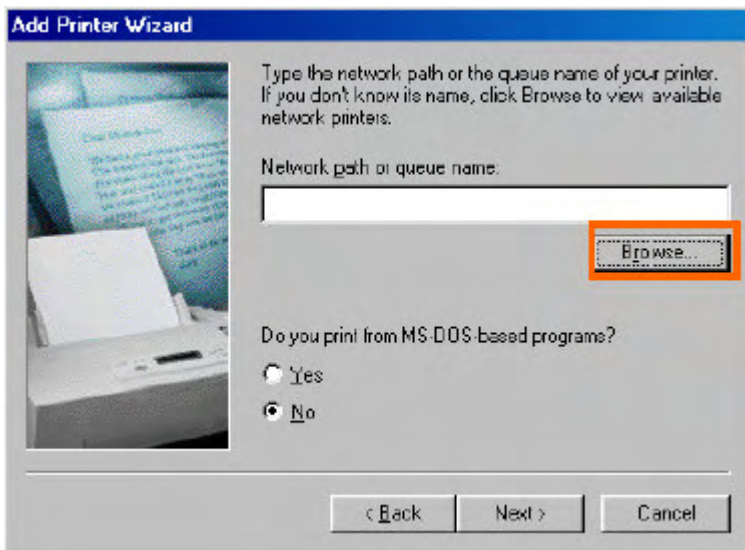
Once your computer has rebooted, click on **Start => Settings => Printers => Add Printer**. When the Add Printer Wizard screen appears, click **Next**.



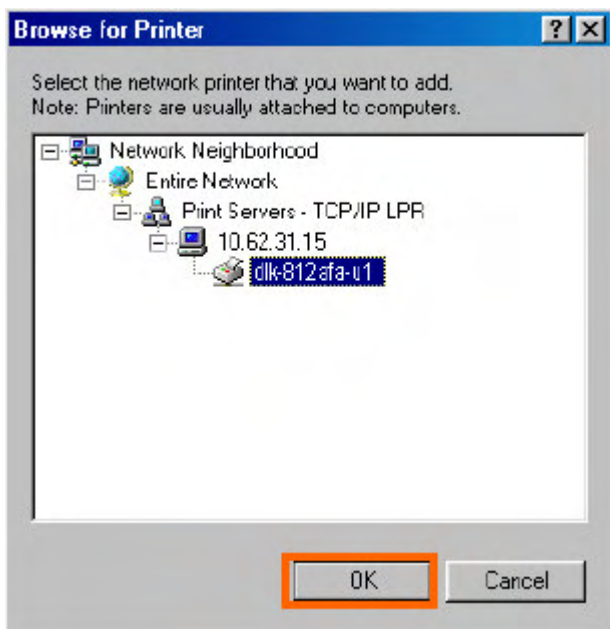
Select **Network Printer** and click **Next**.



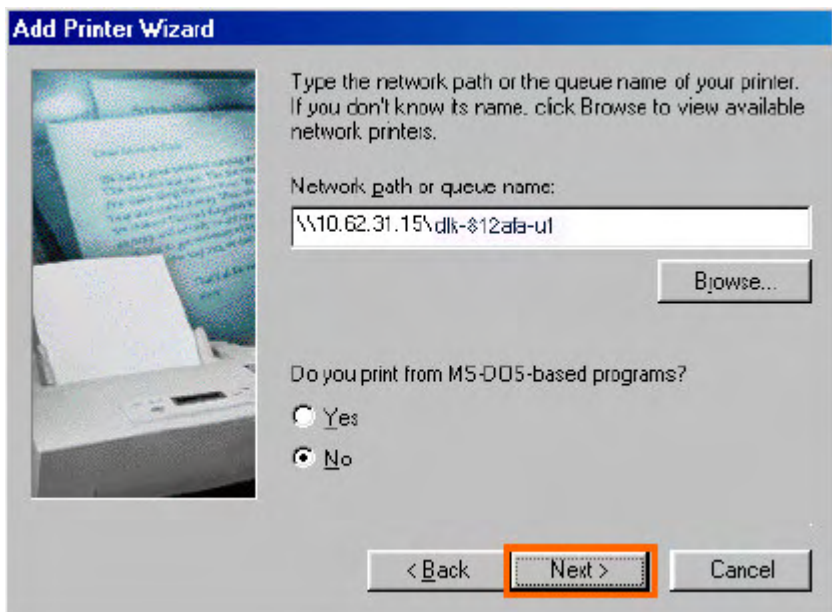
Type in the path if you know it; otherwise, click **Browse**.



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

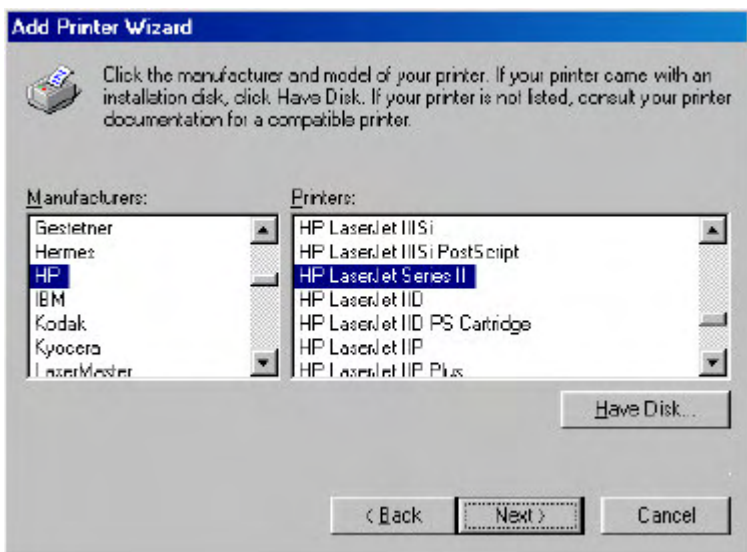


If the network path is not specified, type in the IP Address and Port Name of the MFP server. Select Yes or No to enable or disable printing from MS-DOS based programs. Click **Next**.

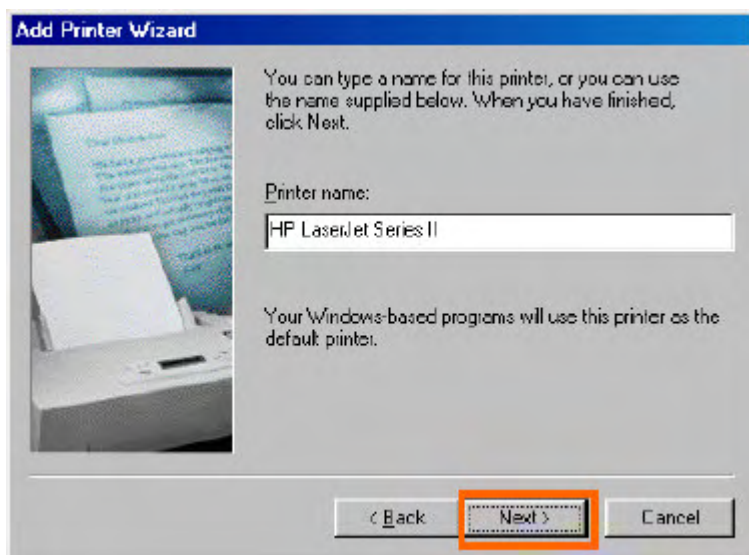




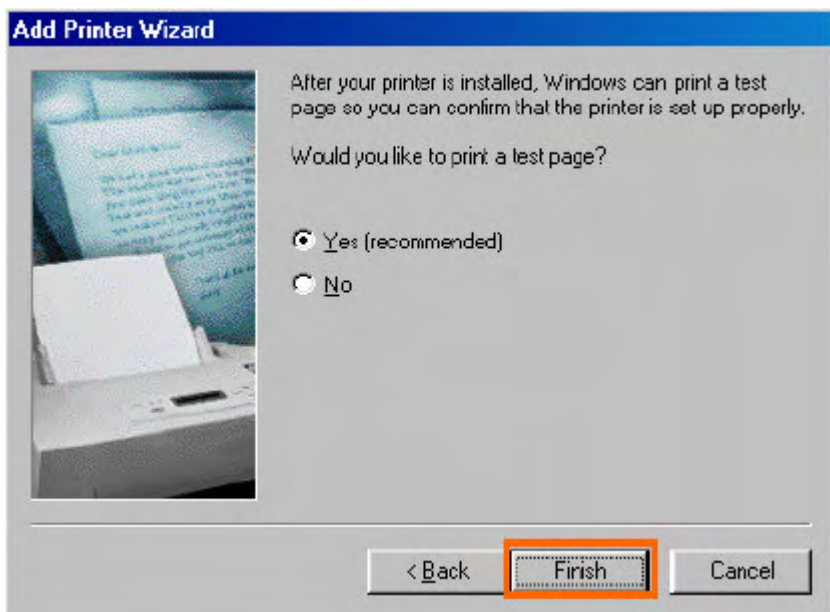
Highlight the printer, as shown. If the desired printer is not on the list, click Have Disk and insert the printer driver disk that came with your printer to install the printer drivers. Click **Next**.



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 `/ect/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.

**145**

◆ **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

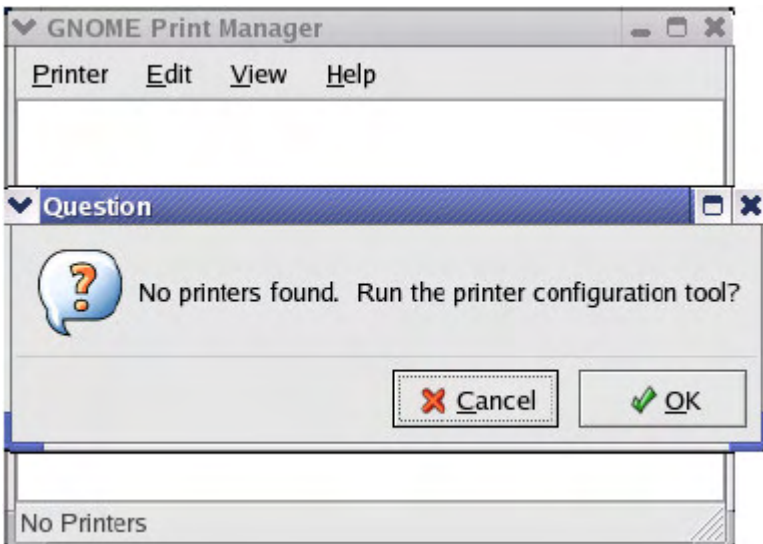
## Adding a Printer



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



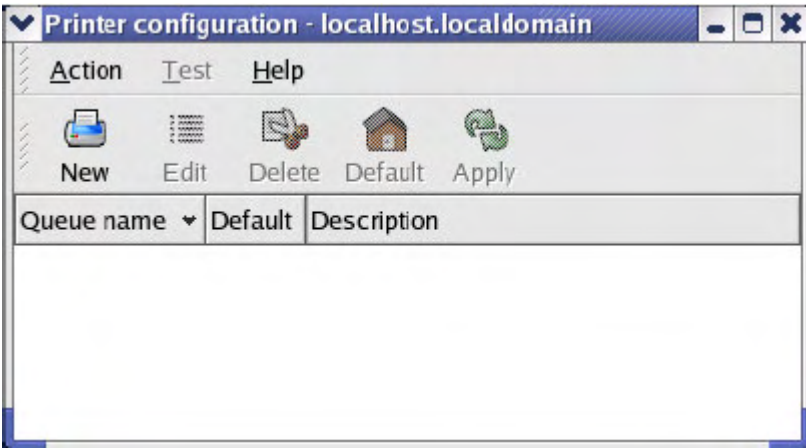
2. Since no printer is set up so far, a prompt appears asking to run the printer configuration tool.



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

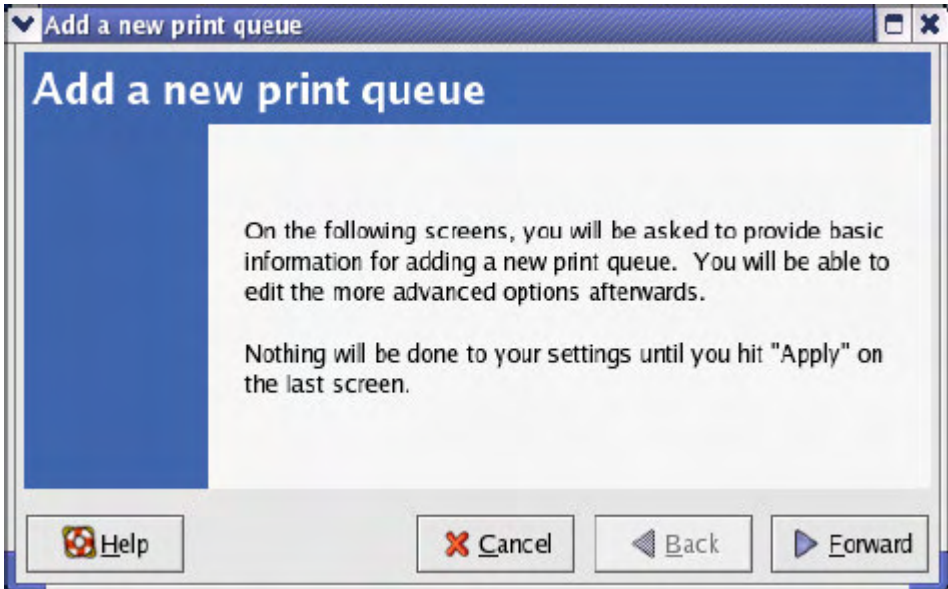


4. Click the **New** button in the **Printer configuration tool** menu.

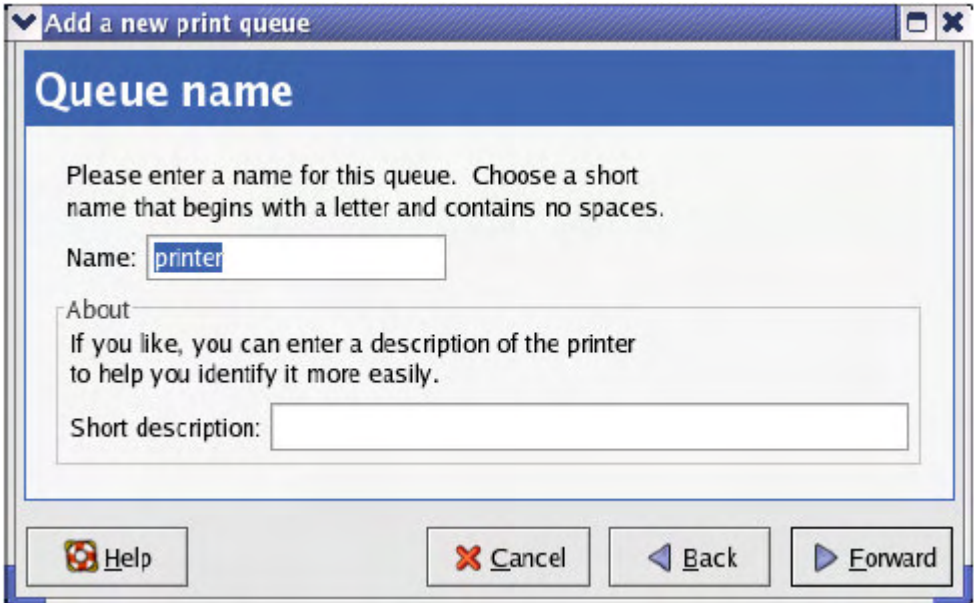


## Printer Configuration Tool menu

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:

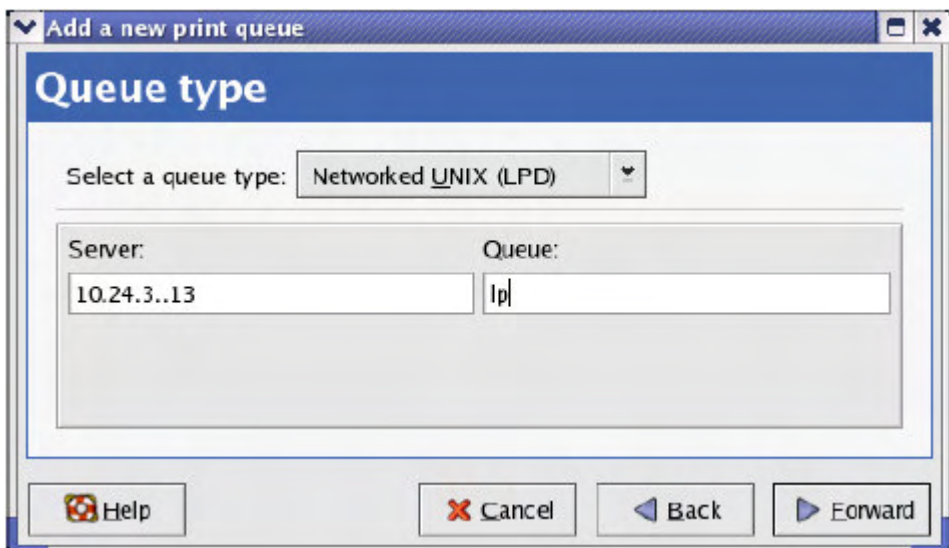
About

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

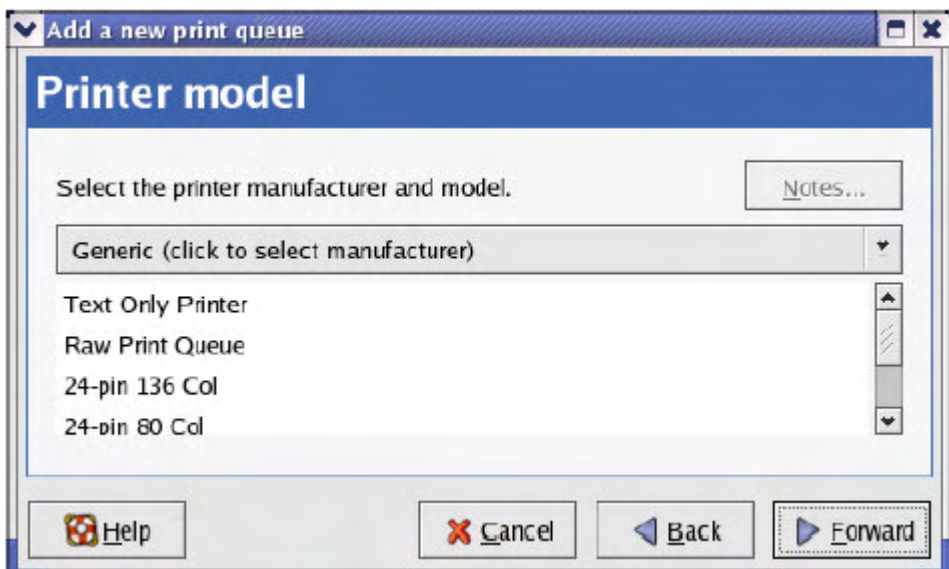
Short description:

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

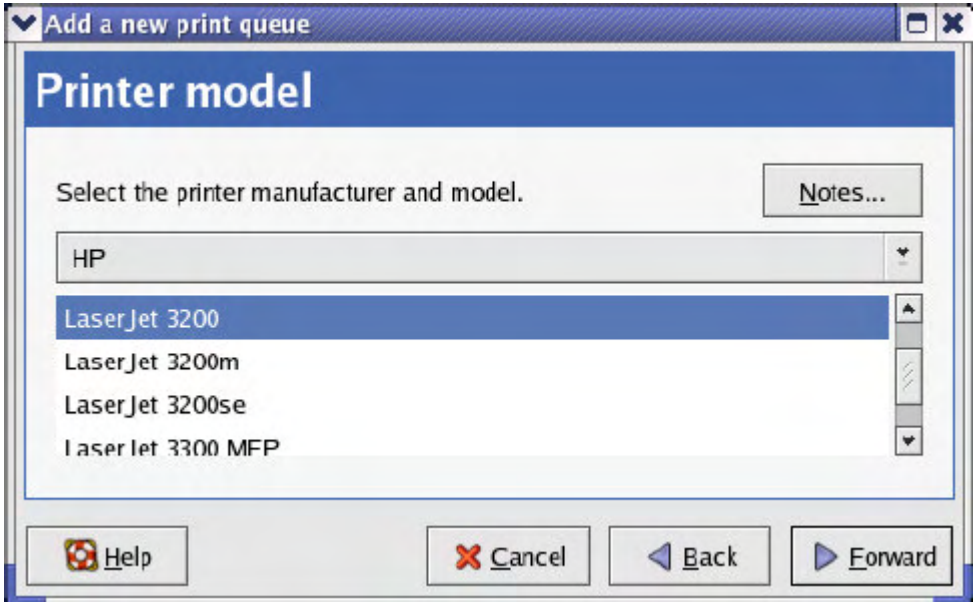
7. Select Networked UNIX (LPD) in the Select a queue type pull down menu, enter the IP address of the print server to which the printer is attached in Server field, and type the port name in queue field. Click Forward to select the type of printer.



8. Select the printer model.



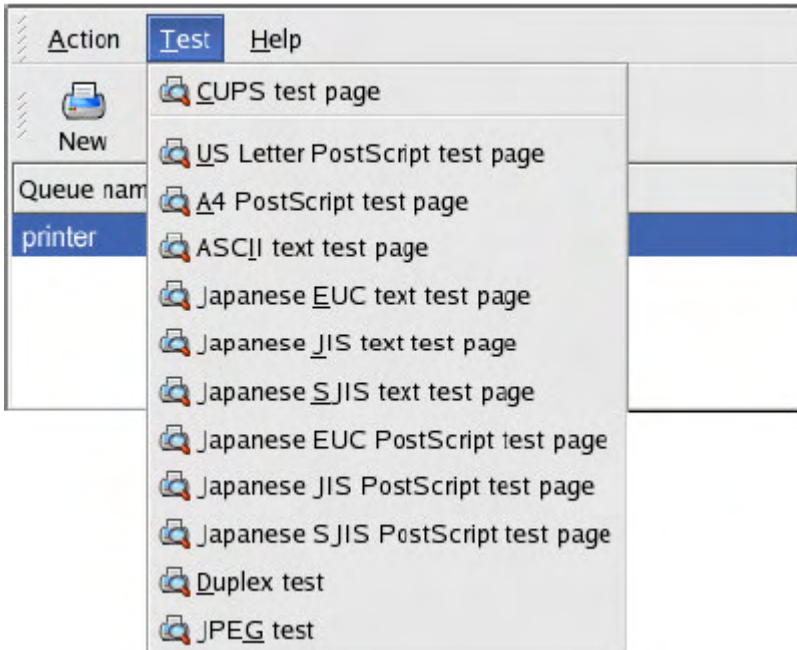
If a printer has not been detected automatically, select the model from the list. You can manually select the name of the printer manufacturer from the **Generic (click to select manufacturer)** pull-down menu, and the printer model from the sub-list. Click **Forward** to continue.



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.



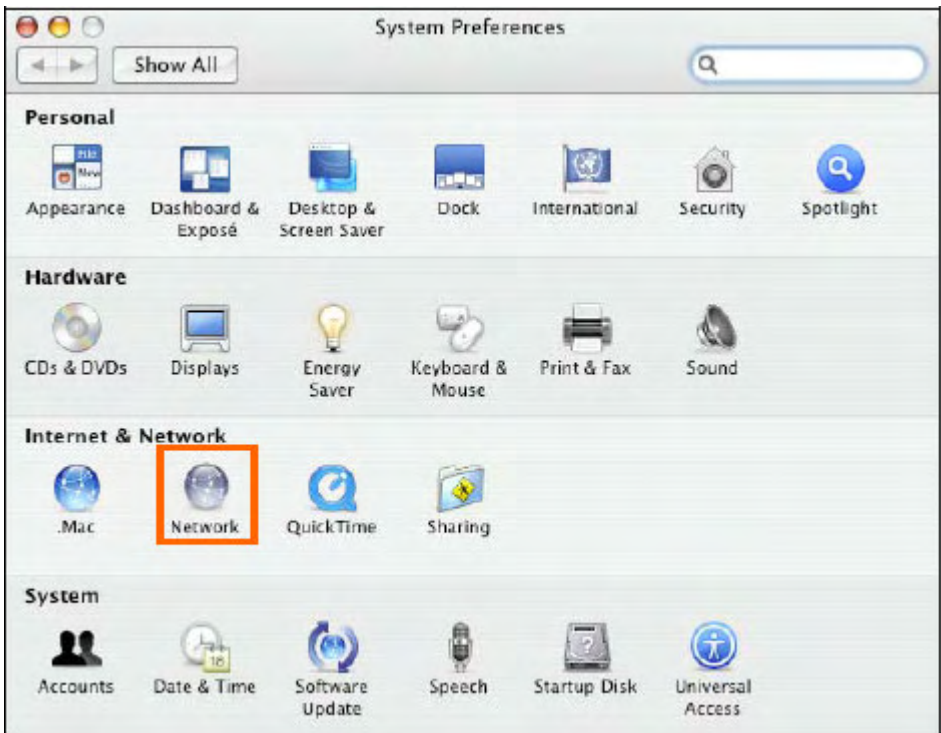
# Setting up Printing in Mac OS X Tiger(10.4.9)

**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.

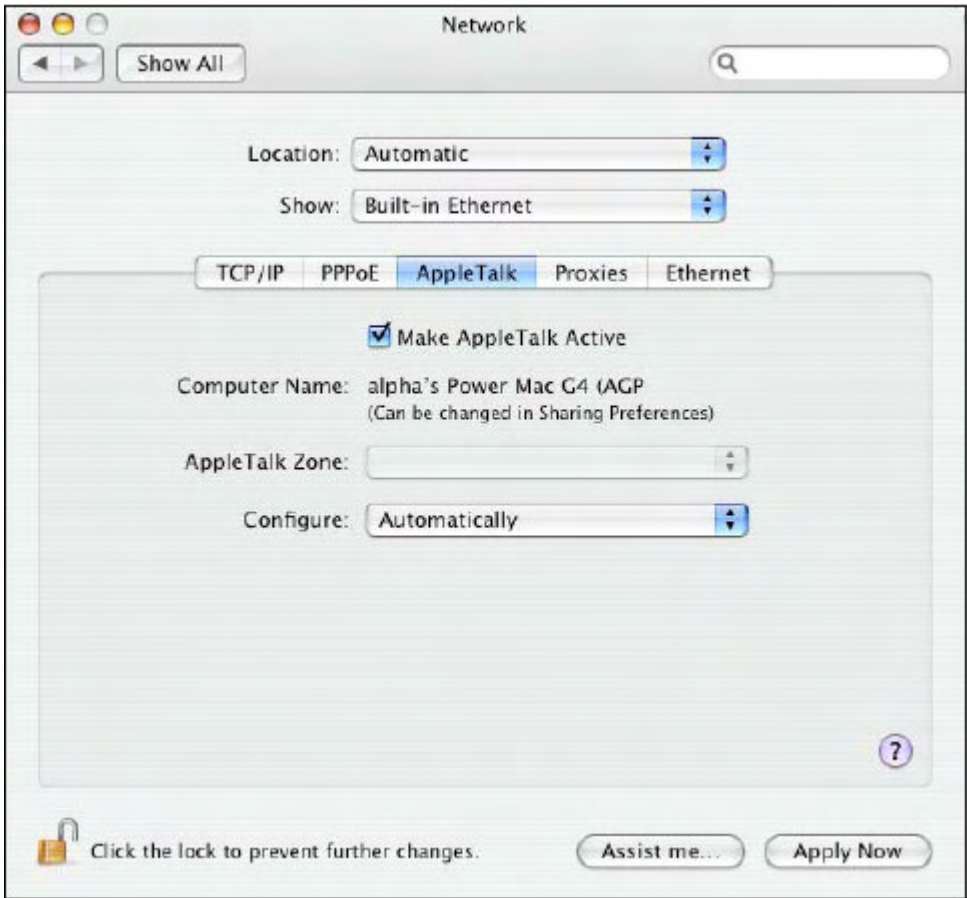


Click on this icon in your Dock to open your **System Preferences** window as below.



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.

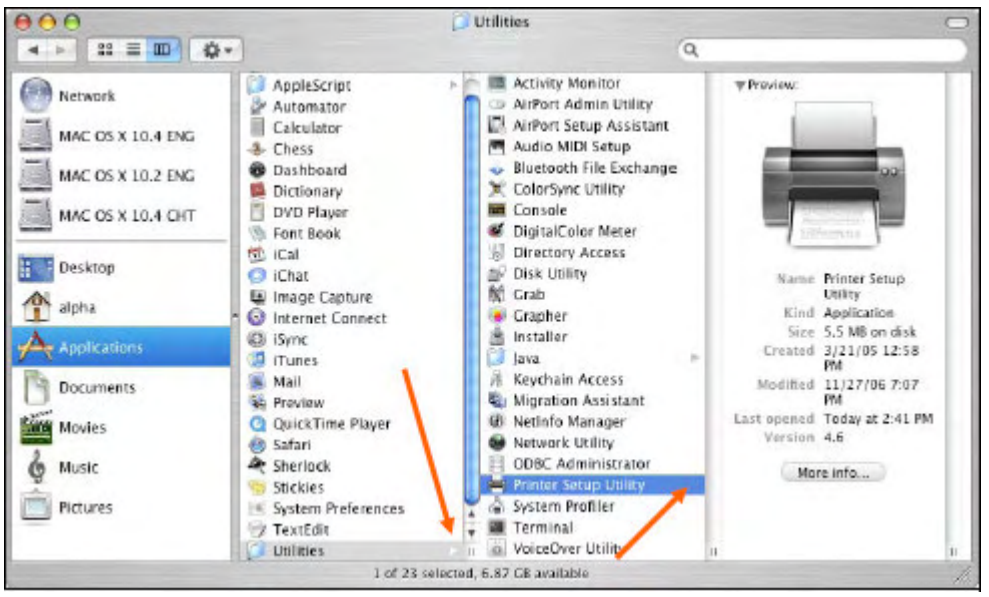


## Adding a Printer

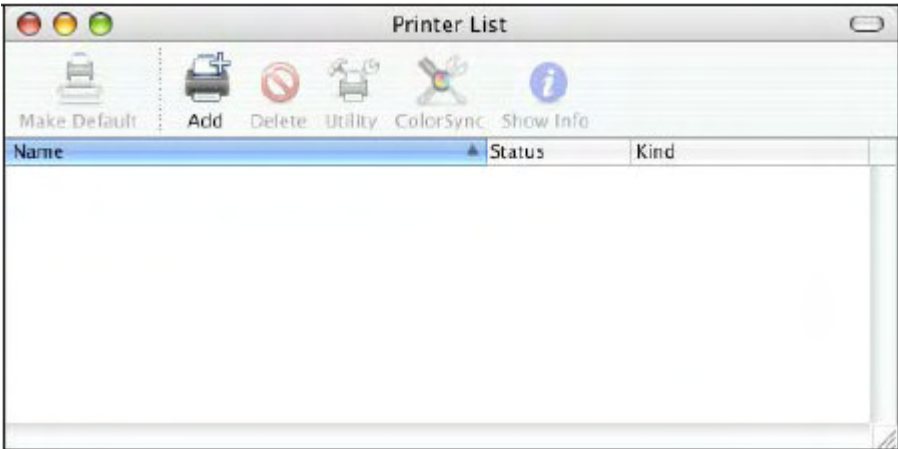
Use the **Go** menu at the top tool bar and select **Applications** option and find the **Utilities** folder or open the **Utilities** folder directly in **Go** menu.



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

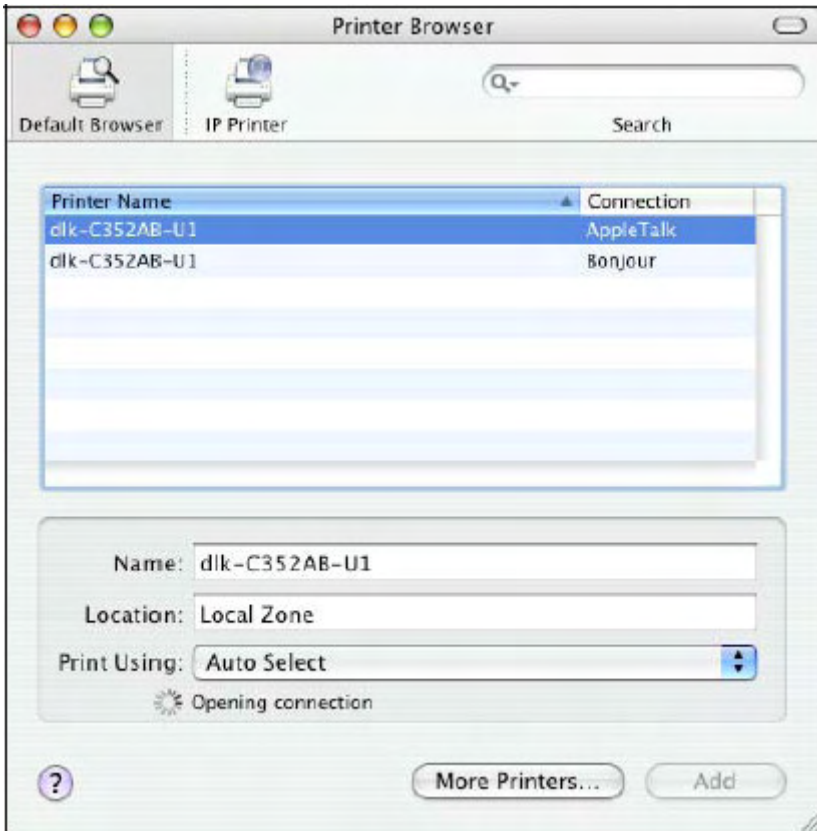


Jet Direct – Socket enabled printer, click on the **IP Printer** button and follow the instructions to add an IP Printer beginning on “Adding an IP printer” session.

# AppleTalk-enabled or Bonjour-enabled Printers

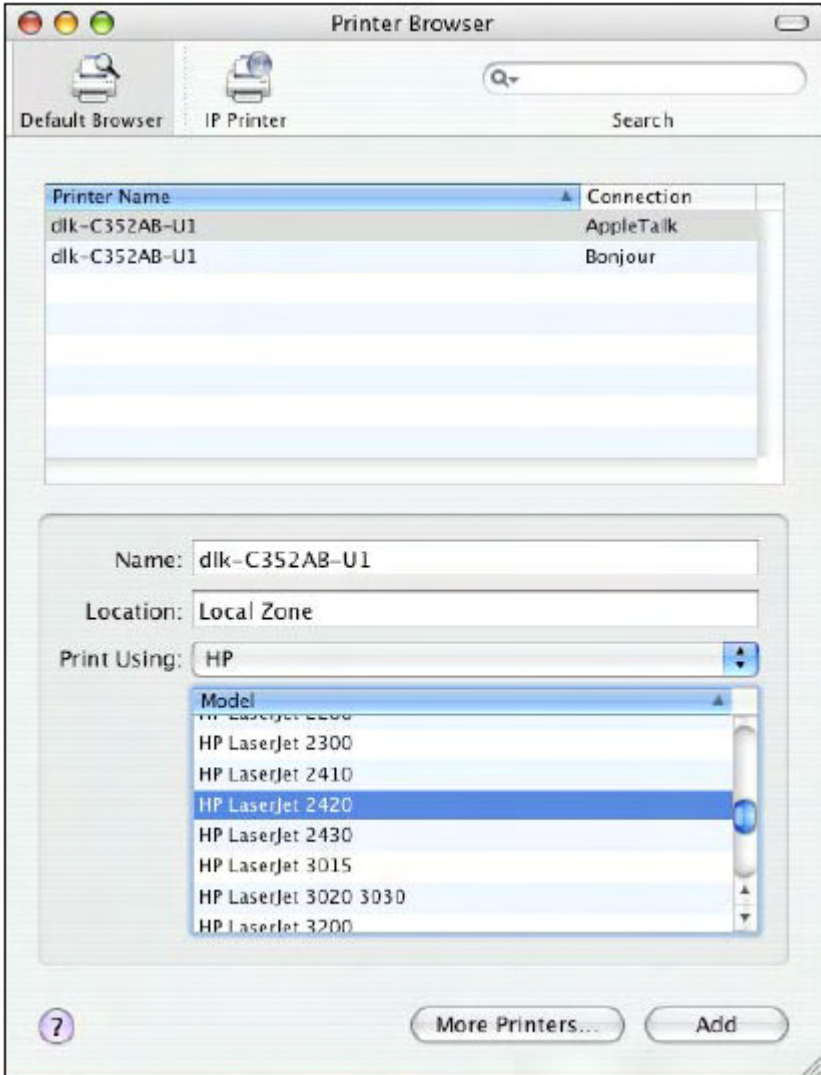


To add an AppleTalk-enabled or Bonjour-enabled printer, click the button in the **Printer Browser** menu.

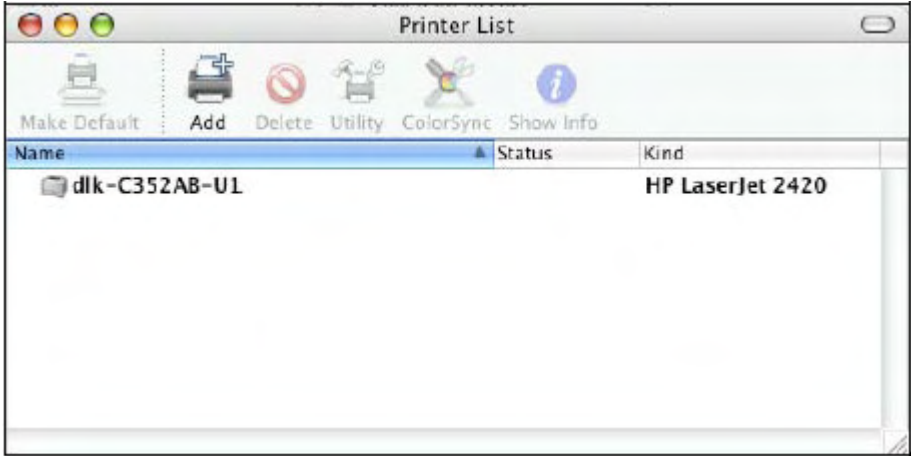


Select the printer model from **Printer Name** list and **Connection** type in the **Printer Browser** menu. The printer name selected should be the same as that appearing listed in the Printer Server's web manager. In the example here, the printer name is

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.





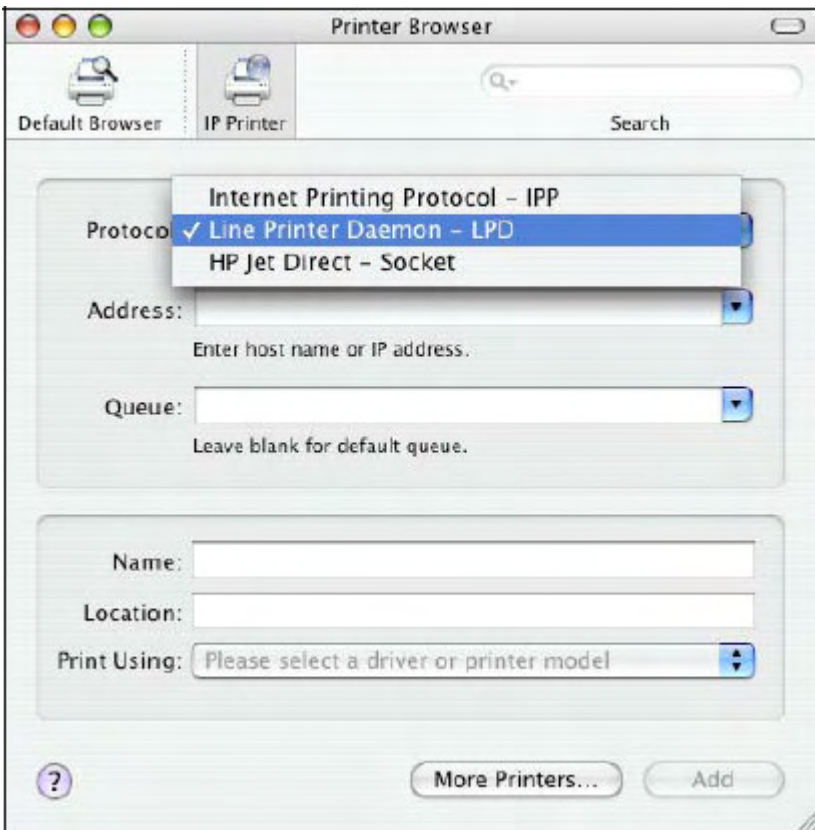
# Adding an IP Printer

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



Jet Direct – Socket enabled printer, click the **IP Printer** button in the **Printer**

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



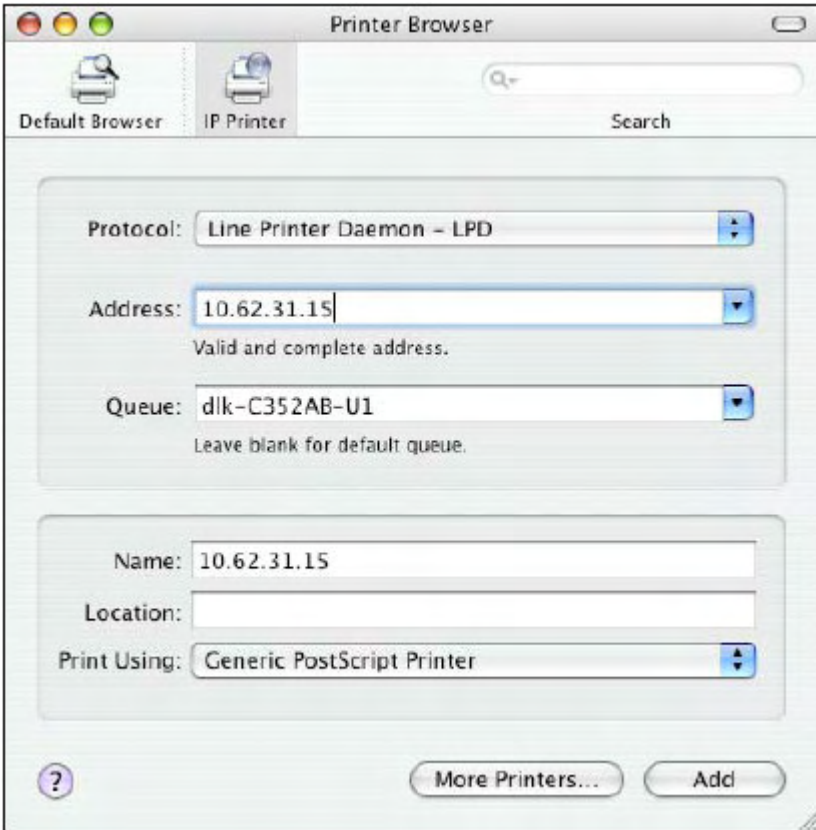
Type the IP Address of the printer. The name will appear in the **Name** field when the printer is found. The **Printer Browser** will indicate that it is verifying the address. If the printer is found, the **Printer Browser** will state “Valid and complete address” in the **Address** field.

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.



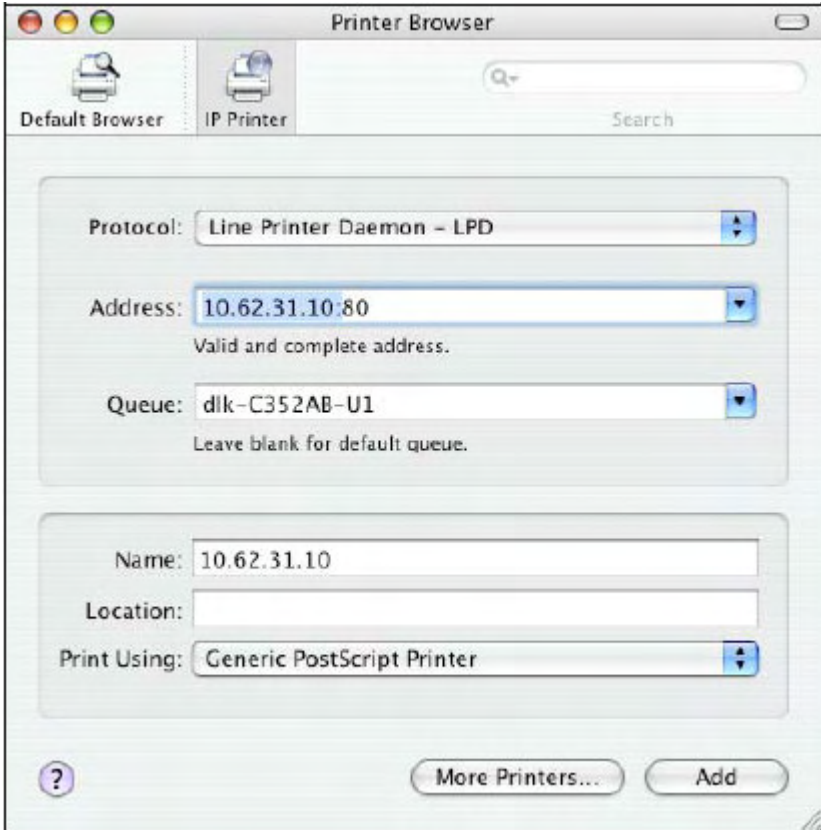
Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

### 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.



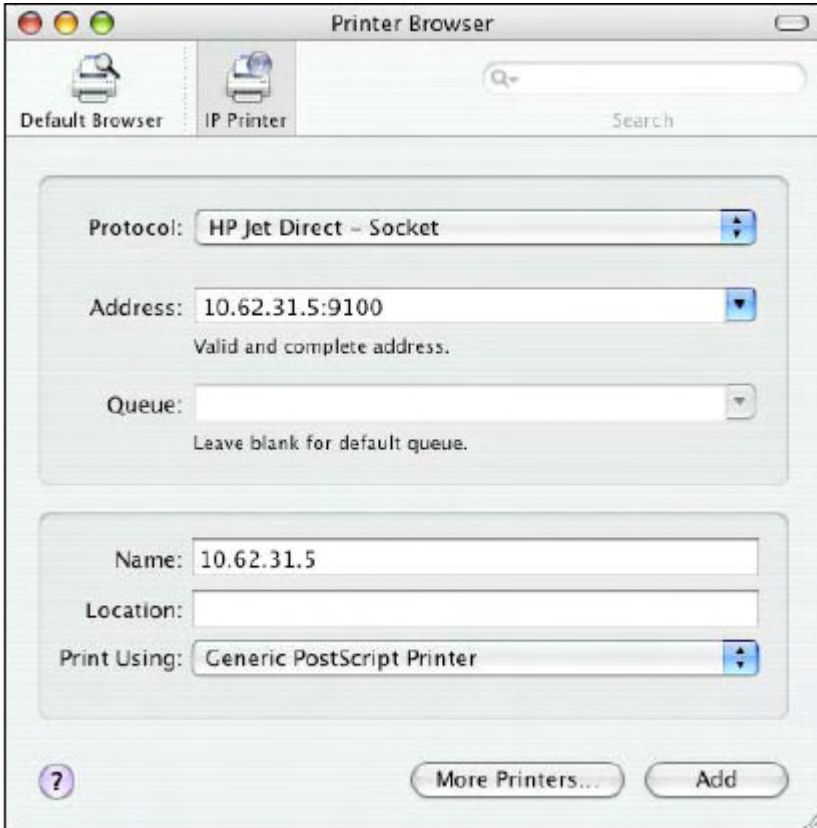
Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

### 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.

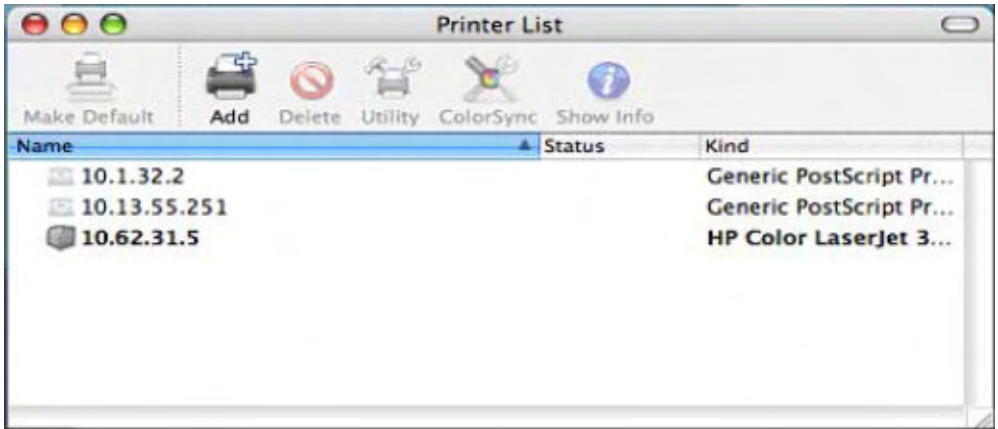


Click **Add** button after done the section of printer model in the **Print Using** drop-down menu.

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.

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

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

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

- Make sure the AppleTalk protocol is enabled in your Macintosh.
- Make sure the PC's IP Address 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.

The screenshot shows the 'Advanced LAN' configuration page for a D-Link DPR-1020 printer. The page is divided into several sections: NETWORK SETTING, MICROSOFT NETWORK, and APPLETALK. The APPLETALK section is currently selected and shows the following settings:

- AppleTalk Zone: \*
- USB: Chooser Name: dk-B12AFA-U1
- Printer Type: LaserWriter
- PostScript Level: Level 2
- Font Group: Standard 35

Buttons for 'Apply Settings' and 'Cancel' are located at the bottom of the AppleTalk section. On the right side of the page, there is a 'Helpful Hints' section with information about TCP/IP, UPnP, and Mac Bonjour/Rendezvous.

## 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).

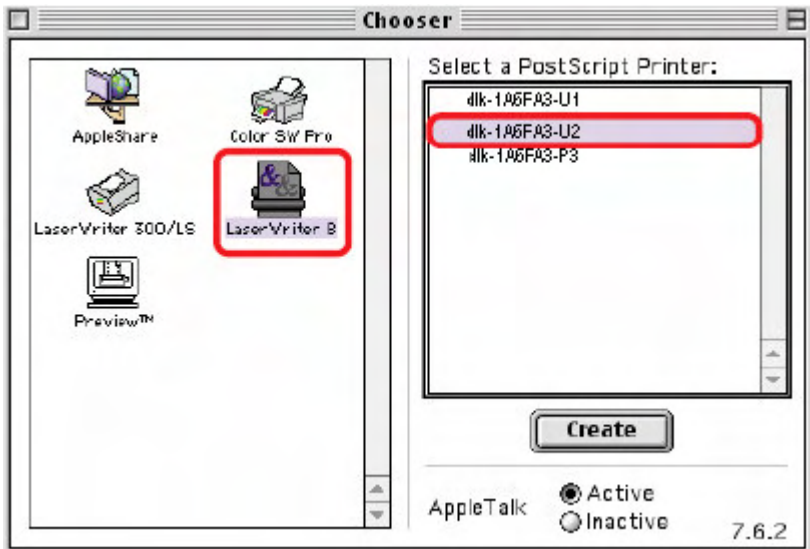
Font Group: Select from the pull-down menu.

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

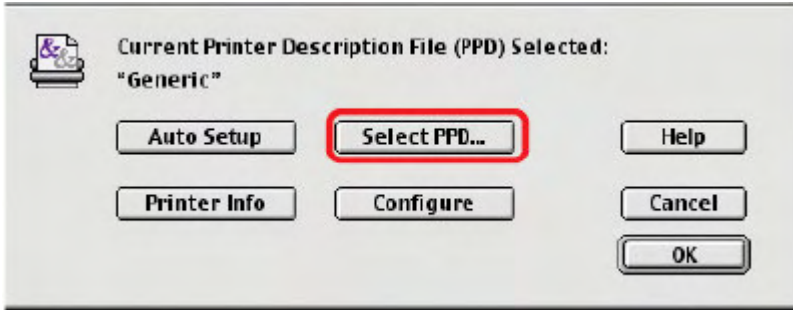
To choose a printer connected to MFP server as your MacOS workstation's default printer, open the Chooser by selecting Chooser from the Apple menu. Select the LaserWriter 8 icon on the left. Make sure that AppleTalk is set to **Active**.

A list of all networked PostScript printers will be displayed as 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 2.0

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

## Network Connection

**Network Standards:** 100Base-TX Fast Ethernet

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

**Network Connector:** RJ-45

## Network Protocols

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

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

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

## Management and Diagnostics

**Standard:** SNMP

**MIBs:** MIB-II (RFC 1213)

**Diagnostic LED Indicators:** Power, Link/Act, USB

## Environmental and Physical

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

**Dimensions:** 58.1(W) x 26.5(H) x 90(D)mm

**Weight:** approx. 10.3 oz. (292g)

**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

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# Contacting Technical Support

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## Warranty and Registration

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

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

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

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

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

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

for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

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

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

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

**Submitting A Claim:** The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the

customer shall submit a claim to D-Link as outlined below:

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

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

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

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

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

**What Is Not Covered:** This limited warranty provided by D-Link does not cover: Products, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence,

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misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance;

Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty.

**Disclaimer of Other Warranties:** EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED —AS-IS— WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY

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COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

**Limitation of Liability:** TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY



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**Governing Law:** This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This limited warranty provides specific legal rights and the product owner may also have other rights which vary from state to state.

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**CE Mark Warning:** This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

**FCC Statement:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate

radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for

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compliance could void the user's authority to operate this equipment.

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

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

### **IMPORTANT NOTE:**

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of about 8 inches (20 cm) between the radiator and your body.

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

#### REMARK

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

#### REMARK

IEEE 802.11b or 802.11g operation of this product in the Canada is firmware-limited to channels 1 through 11.

“Operation is subject to the following two conditions:(1) this device may not cause interference, and (2) this  device must accept any interference, including interference that may cause undesired operation of the device.”

## NCC Warning Statement

### Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

### Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.