



# Fast Ethernet MFP Server

## User's Manual

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# **FCC COMPLIANCE STATEMENT**

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

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# 1. Introduction

Thank you for purchasing our MFP server. This MFP server allows your multi-functions, all-in-one printer (MFP) or printer to be shared in the network. Unlike other print servers, it can communicate with MFP and printer as if it is connected directly to your computer. Because of the features, all users can share print, scan, card reader and fax functions through the network. Furthermore, the MFP Server can build the bi-directional communication with MFPs and printers so that it can help to monitor important information such as ink level and paper level.

The MFP server supports print, scan, card reader and fax sharing functions in the most popular operating systems: Windows 2000 SP4 above and XP SP1 above. It also supports Windows XP scanning utility and MFP vendors' scanning utilities. When you want to scan in the Windows XP, you can choose one of the utilities.

Not only a MFP Server, but also this MFP Server is a traditional print server. It supports TCP/IP network protocol and LPR, RAW and IPP printing protocols. It can share print function in the various common network operating systems including Windows 98SE/Me/NT/2000/XP/2003, Unix, Linux and MAC OS 9.x above.

The MFP server is the best solution for users to share MFP or printer conveniently and easily. It offers the most flexibility and manageability for MFP or printer in your local area network at an extremely low cost and with a minimum setup and maintenance required.

## **2. Product Package**

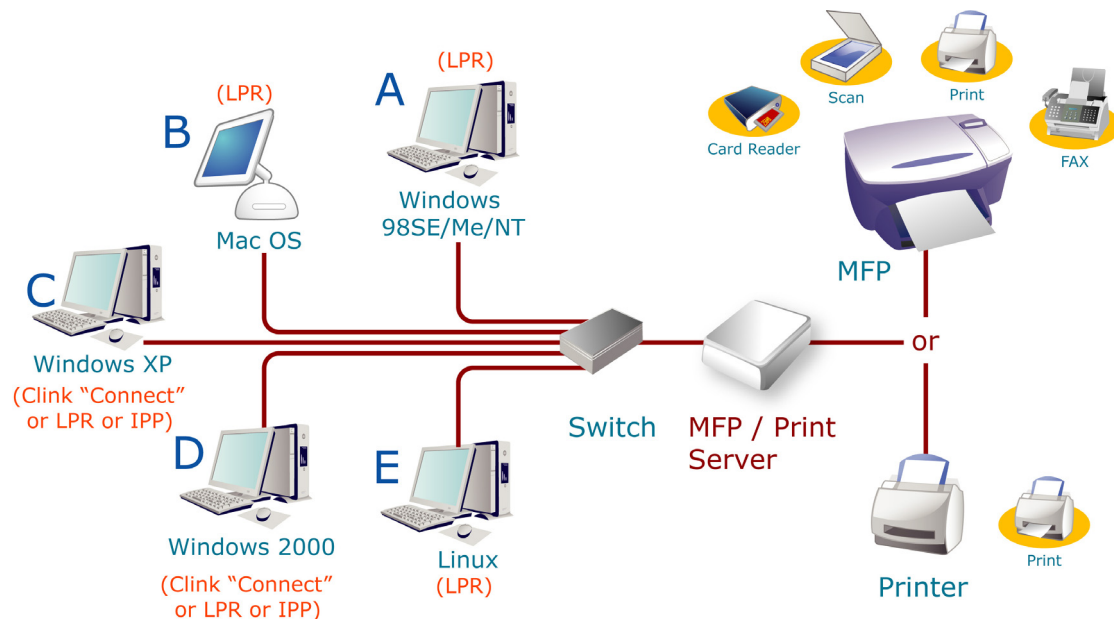
This package contains the following components:

- One MFP Server
- One Power Adapter
- One Quick Installation Guide
- One CD-ROM (Including all the software utilities, drivers, multi language QIG and User's Manual)



### 3. MFP Server with Print Server

This MFP Server supports dual functionalities: MFP Server Mode and Print Server Mode at the same time. Users can choose one of the modes to share MFP or Printer functions through the MFP Server.



#### **MFP Server Mode:**

The MFP Server can communicate with MFP as it is connected directly to your computer. This enables users to share MFP for printing, scanning, card reader and faxing. If the MFP Server is connected to a printer but not MFP, users still can share printing function through the operation mode. The supported OS in this mode is Windows 2000 SP4 above and Windows XP SP1 above. The MFP Server mode doesn't support Windows 98SE/ME/NT, Linux/Unix or MAC OS. For the detailed applications, please refer to the following chapters.

Chapter 4: MFP Server Installation in Windows 2000/XP

Chapter 5: Using the MFP

Chapter 6: MFP Manager

**Print Server Mode:**

The MFP Server also supports LPR, IPP and RAW printing protocols, which enable users to share printing function of MFP or Printer. The supported OS is Windows 98SE/Me/NT/2000/XP/2003, Unix, Linux and MAC OS 9.x above.

For the detailed applications, please refer to the following chapters.

Chapter 9: LPR Printing

Chapter 10: RAW Printing

Chapter 11: IPP Printing

Chapter 12: MFP Server Installation in Windows 98SE/ME/NT

Chapter 13: Unix System Network

Chapter 14: MFP Server Installation in MAC OS

## 4. MFP Server Installation in Windows 2000/XP

Before you start, you should have:

- One computer with Windows 2000 SP4 above and Windows XP SP1 above
- One MFP or printer with USB port and an installation CD
- One Category 5 Ethernet Cable
- One USB Cable

### 4.1 Hardware Installation Procedure

1. Unpack the MFP Server package and verify that all the items listed in the previous section are included.
2. Plug the USB cable to the MFP Server and the MFP or printer that you want to share on the network.
3. Connect the MFP Server to your network by attached the network cable to the network port of the MFP server.
4. Connect the power adapter to the MFP Server. The MFP Server will perform the Power-On-Self-Test (POST) after it is powered on. When the Status LED is off, the MFP Server is ready.

**Note:**

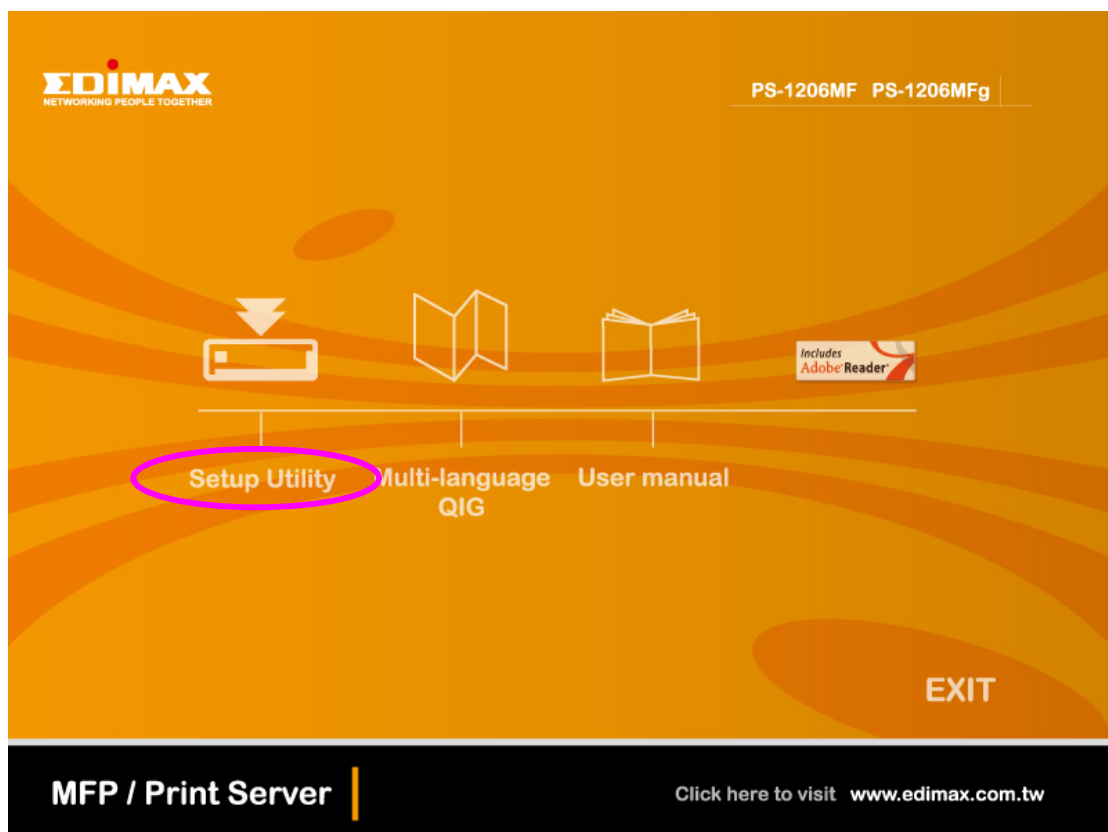
1. ***You must use the power adapter shipped along with the MFP Server, do NOT use any other power adapter from other sources.***
2. ***To prevent the compatibility problem between MFP Server and a few MFP or printer, it is recommended that you power on the MFP Server before the MFP or printer.***

## 4.2 Software Installation Procedure

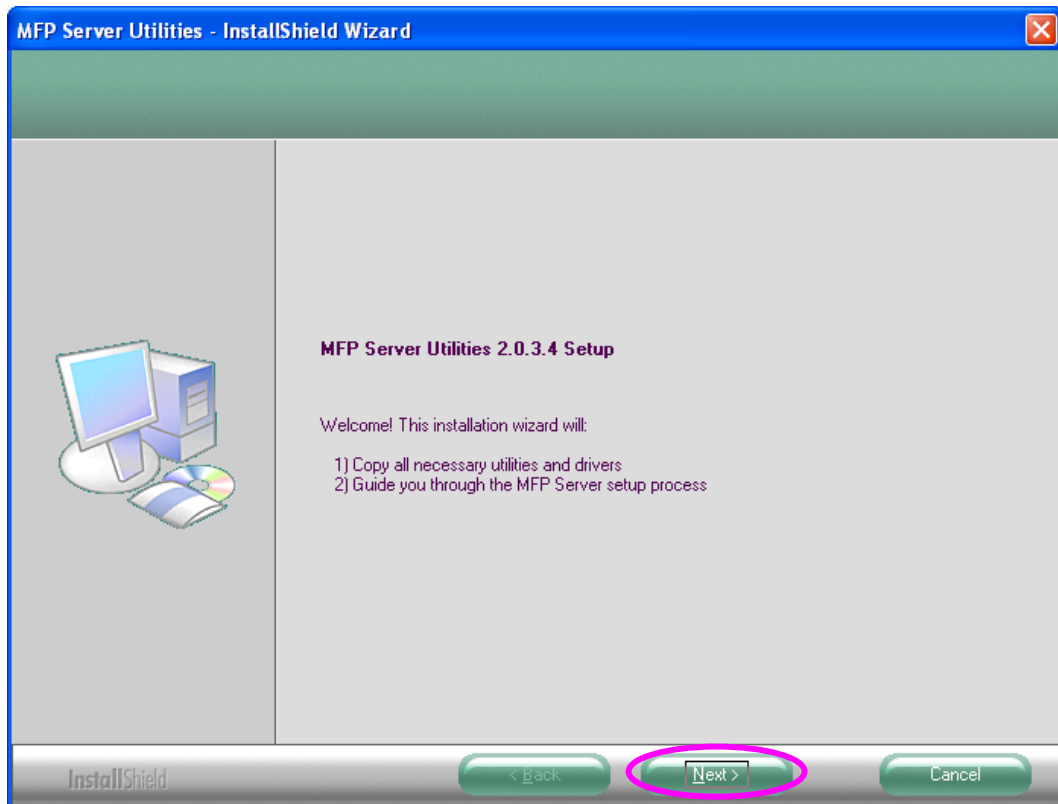
Before you start, you should check your computer's operating system. This program can be run only in Windows 2000 SP4 above and Windows XP SP1 above. Please follow the steps below to start installation.

**Tip:** *You have to uninstall all the MFP server drivers and utilities if you have installed the previous version.*

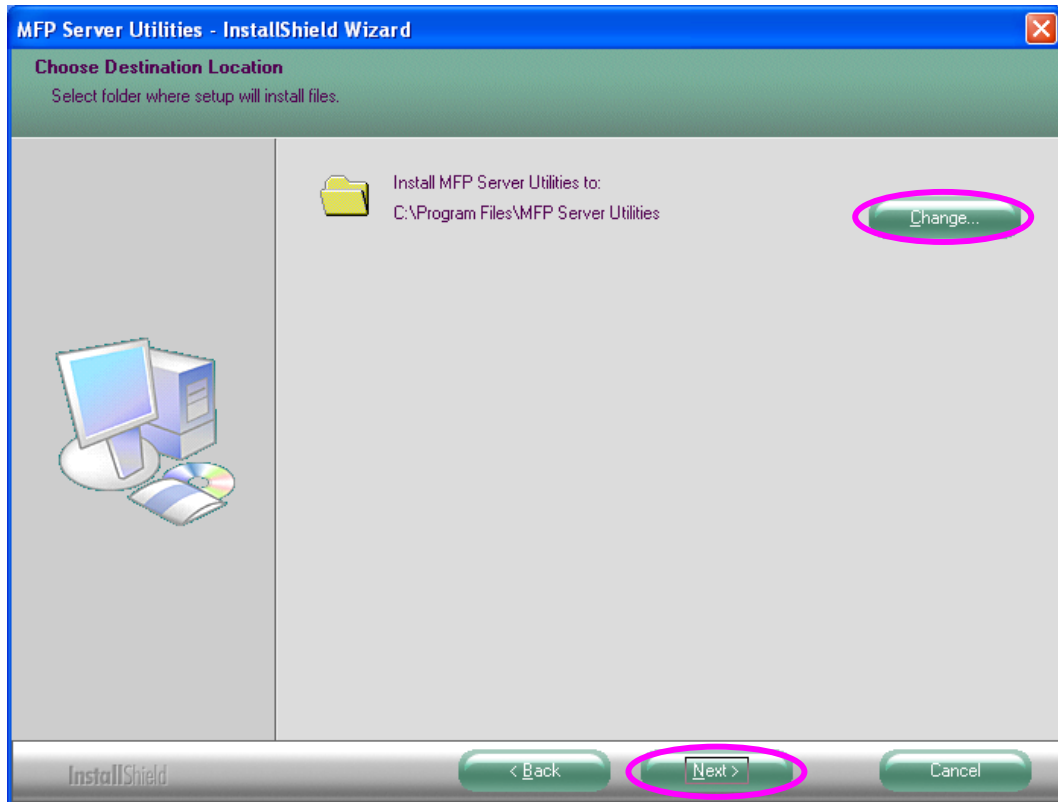
1. Insert the CD shipped along with the MFP Server into your CD-ROM drive.  
The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory
2. The following screen will be displayed. Click "Setup Utility".



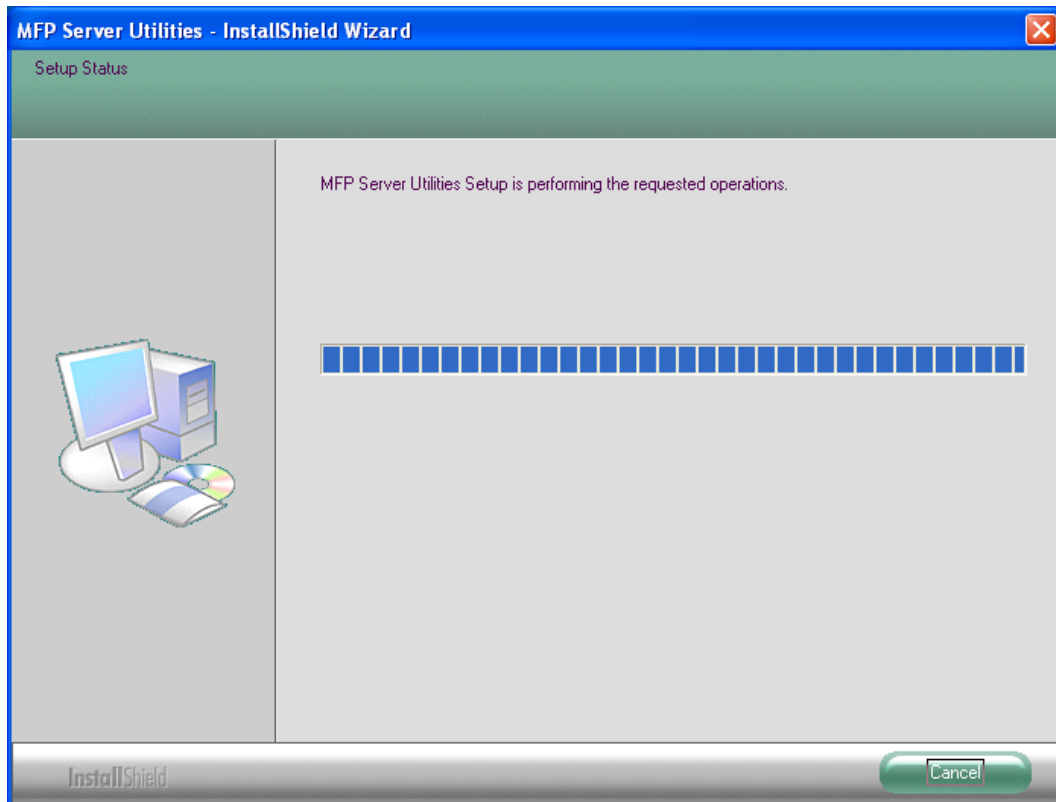
3. The “MFP Server Utilities - InstallShield Wizard” is displayed, click "Next".



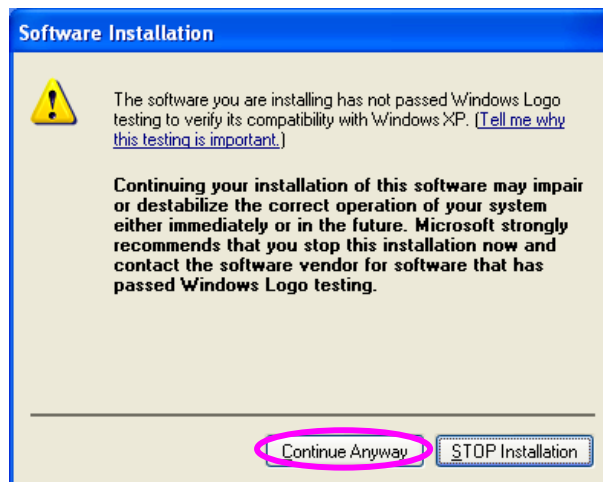
4. Click “Next” to install the MFP Server utilities in the default folder or click “Change” to specify the destination folder where you would like to install the MFP Server utilities.



5. The system starts installing the MFP Server Utilities.



6. The MFP Server is installing the MFP Server utilities. When you find the following screen, please click "Continue Anyway".

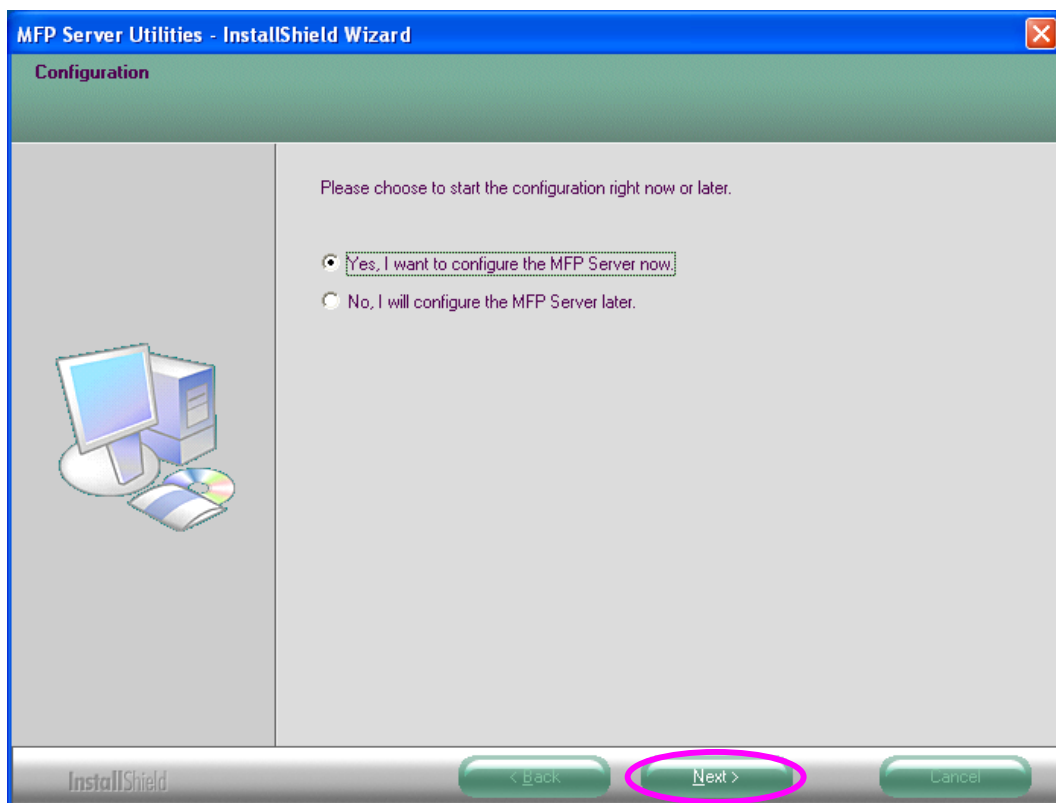


7. The MFP Server is installing the MFP Server drivers. When you find the following screen, please click “Continue Anyway”.



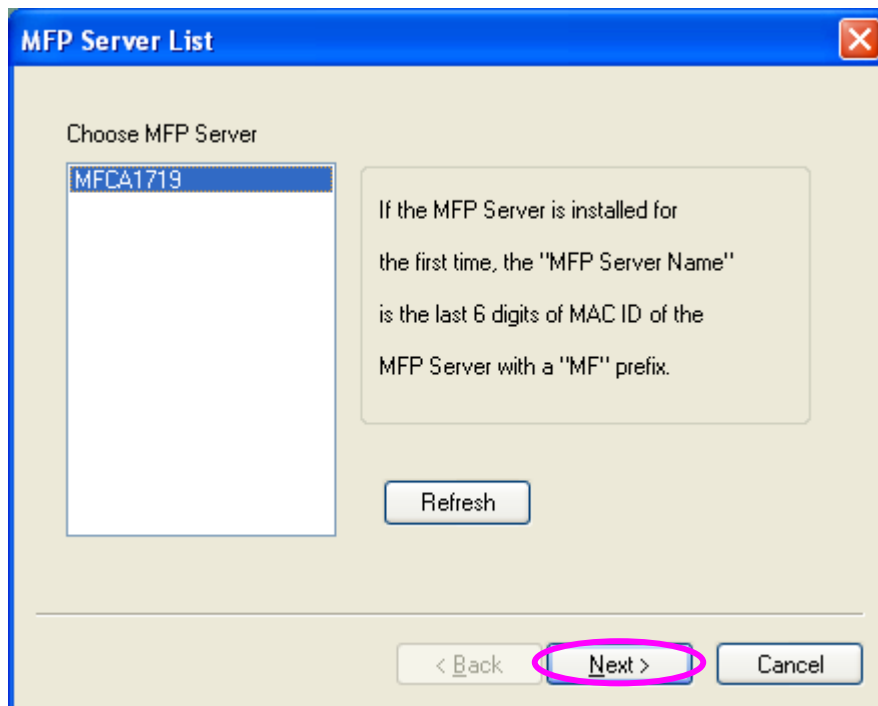
8. The “MFP Server Configuration” screen is displayed. If you want to configure the MFP Server, please click “Next” directly. Or you can select “No, I will configure the MFP Server later” and click “Next” to complete the installation.

The following steps are for MFP Server Configuration.

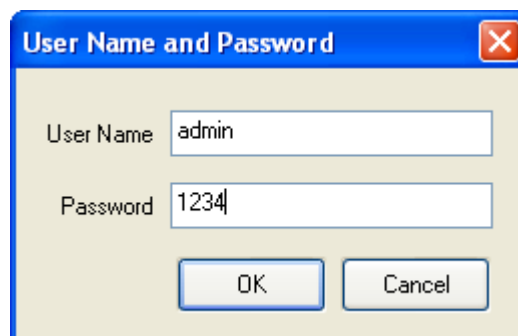




9. The MFP Server List will auto search the MFP Servers in the network. Select the MFP Server you want to setup and click “Next” to continue.

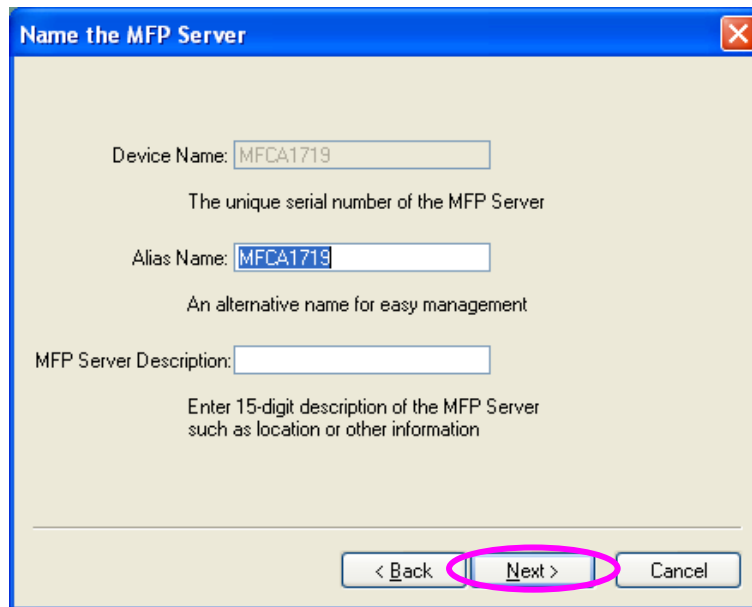


10. Enter the “User Name” and “Password” of the MFP Server you have selected to login the MFP Server. The default “User Name” is “admin”; default “Password” is “1234.”



11. Set the “Alias Name” and the “MFP Server Description” to the MFP Server here. Click on “Next”.

**Note:** You can give a description by filling “MFP Server Description” to the MFP Server so you can find it easily later on.



The screenshot shows a Windows-style dialog box titled "Name the MFP Server". It contains three input fields: "Device Name" with the value "MFCA1719", "Alias Name" with the value "MFCA1719", and "MFP Server Description" which is empty. Below each field is a descriptive text: "The unique serial number of the MFP Server" for Device Name, "An alternative name for easy management" for Alias Name, and "Enter 15-digit description of the MFP Server such as location or other information" for MFP Server Description. At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a red oval.

Name the MFP Server

Device Name: MFCA1719  
The unique serial number of the MFP Server

Alias Name: MFCA1719  
An alternative name for easy management

MFP Server Description:  
Enter 15-digit description of the MFP Server  
such as location or other information

< Back Next > Cancel

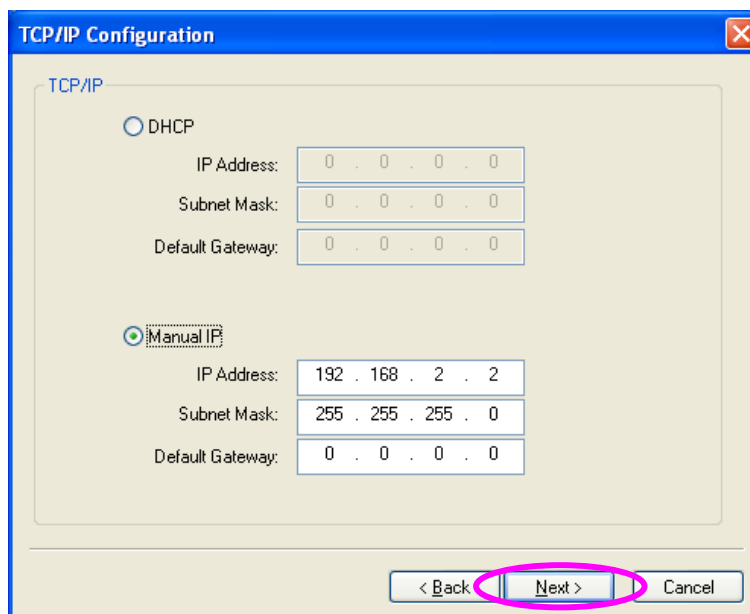
12. Please set the network settings for the MFP Server manually. By default, the network settings are as follows.

**IP Address: 192.168.2.2**

**Subnet Mask: 255.255.255.0**

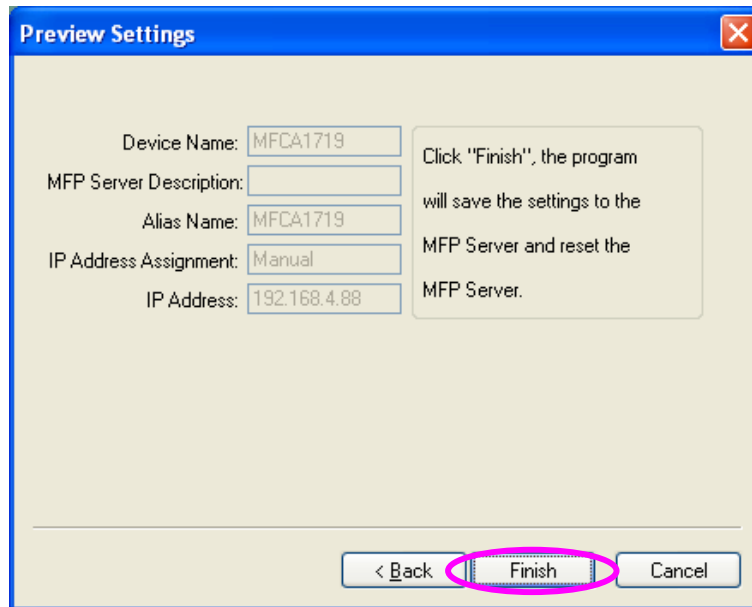
If you select “DHCP”, the MFP Server will try to determine your network settings automatically. If a DHCP Server is present within the network, the MFP Server will automatically obtain and configure the network settings from the DHCP Server. The assigned IP Address will be shown in the IP Address fields. If no DHCP Server is present within the network, please assign the network settings of the MFP Server manually. Please click “Next” once you have found appropriate network settings for the MFP Server.

**Note:** The MFP Server IP Address should be in the same network segment with the connected computer. If the network settings are incorrect, a message will be prompted to remind you after you click “Next”. Please make sure that you have set the right settings before going to the next step. If you don’t want to set it now, please click “Cancel” to finish the installation. You can then use the “Server Manager” utility to configure the MFP Server.



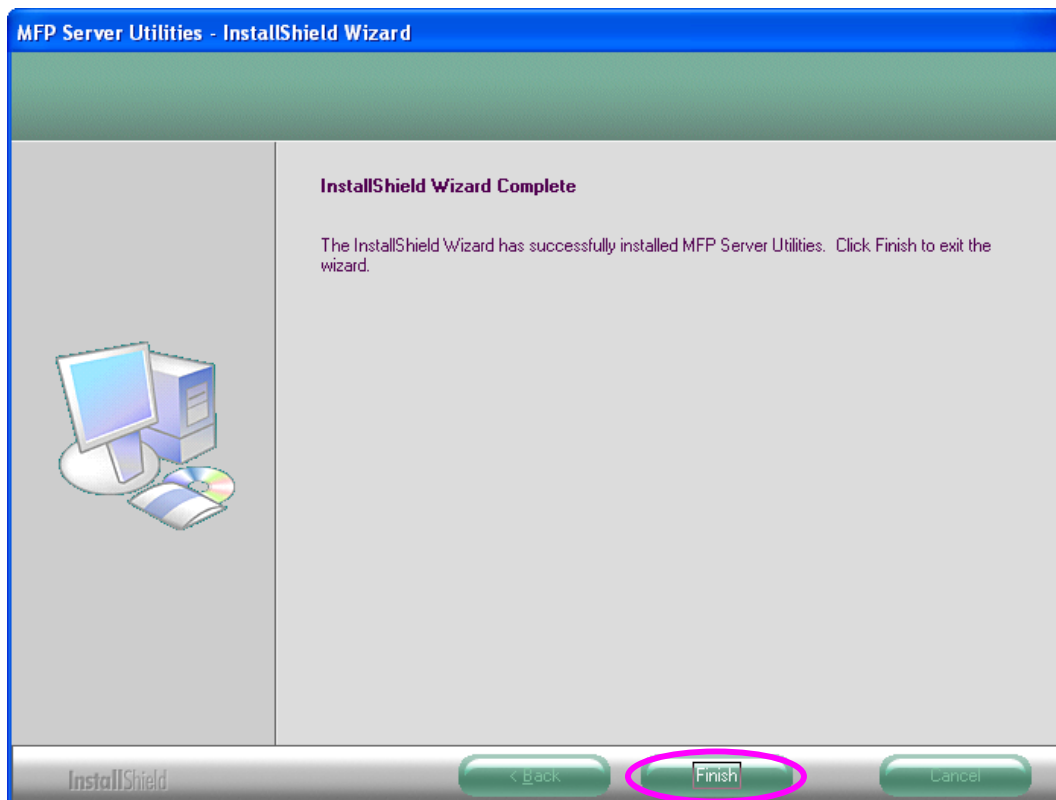
The screenshot shows a "TCP/IP Configuration" window with a blue title bar and a close button. The "TCP/IP" section is active. Under the "DHCP" radio button, the IP Address, Subnet Mask, and Default Gateway are all set to 0 . 0 . 0 . 0. The "Manual IP" radio button is selected. Under the "Manual IP" section, the IP Address is set to 192 . 168 . 2 . 2, the Subnet Mask is set to 255 . 255 . 255 . 0, and the Default Gateway is set to 0 . 0 . 0 . 0. At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a pink oval.

13. The configurations are finished. Please click “Finish” to apply new settings.

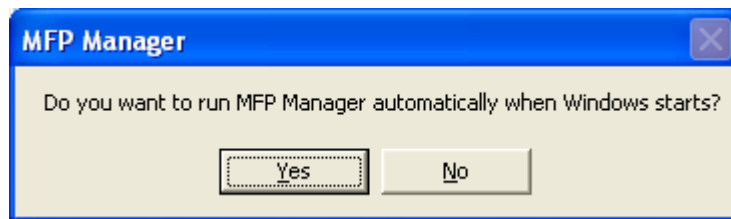


14. Click “Finish” to complete the installation.

**Note:** If the Windows XP Firewall in your system has been enabled, the MFP Server will automatically open ports for the MFP Server programs smoothly run in your system. It will not cause abnormal behaviors or unsafe on your system.



15. Choose if you want to run the “MFP Manager” utility automatically when Windows starts. It is recommended to enable the setting.



## 4.3 MFP Server Utilities

After the installation is completed, there will be three utilities and a text file in the MFP Server's Program folder.

**MFP Manager** – Allows you to manage the connection between the MFP and your computer for sharing MFP function.

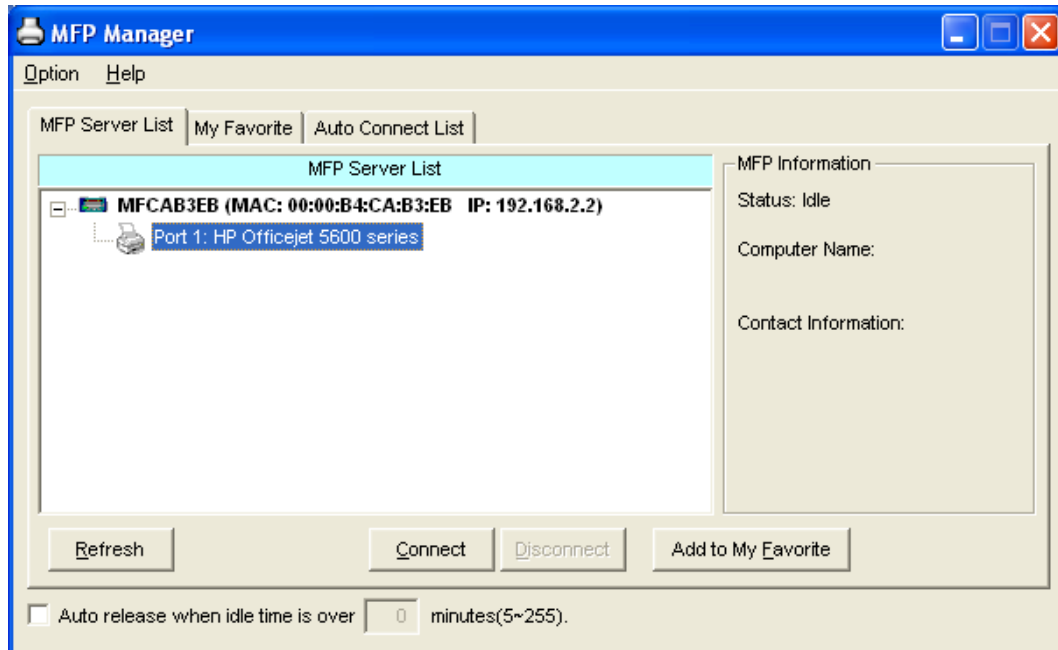
**Server Manager** – Allows you to configure the MFP Server's IP Address, network protocols and other advanced features. It also allows you to manage the MFP Server.

**Uninstall** – Assistant for removing all installed MFP Server software programs.

**About Version** – Display the version of each utility including in the MFP Server software programs.

## 4.4 Install the MFP Drivers/Utilities

When the installation is completed, the “MFP Manager” will be popped up. It will automatically find the MFP Servers and the connected MFPs in the network and show it in the “MFP Server List”.

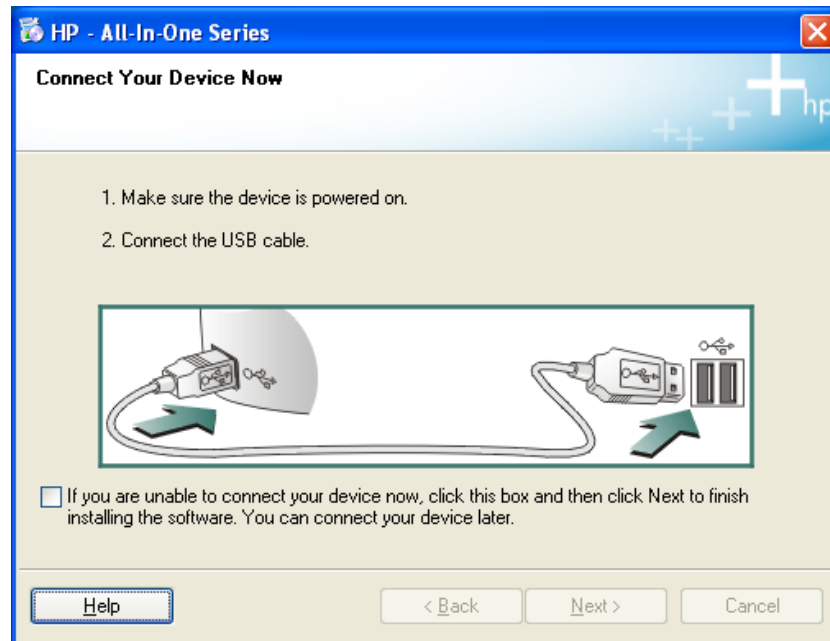


Before you start to install the MFP in the “MFP Server List”, please check your computer’s MFP installation status.

- You never install the MFP drivers/utilities; please refer to the Section 4.4.1.
- You have installed the MFP drivers/utilities; please refer to the Section 4.4.2.

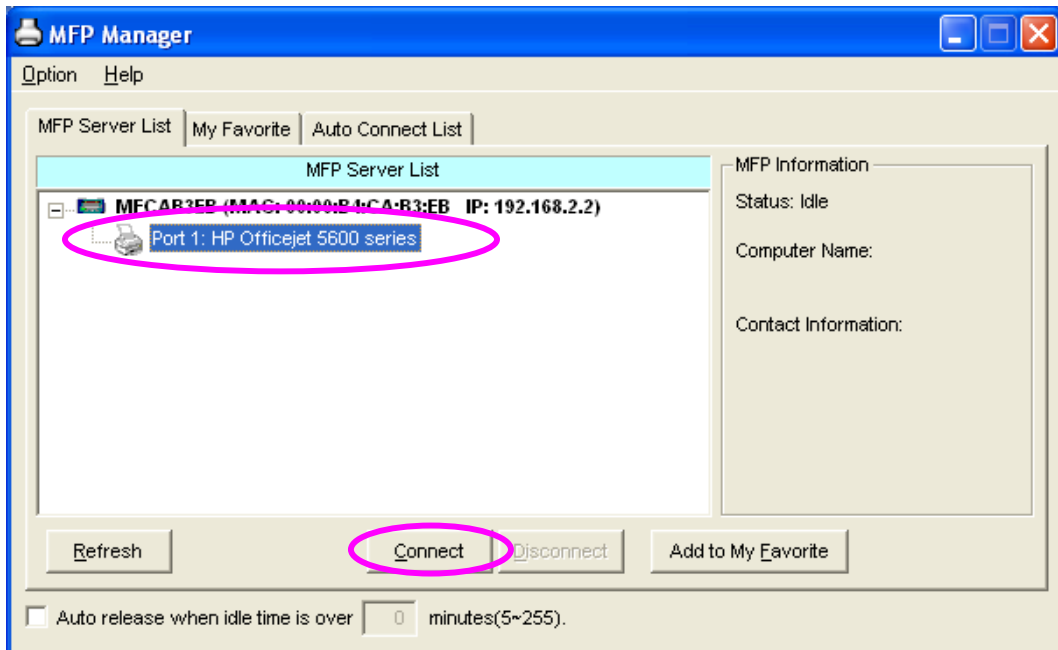
### 4.4.1 Never Install MFP Driver/Utilities

Before the installation, please read the manual of the MFP. Some MFP requires users to install the drivers/utilities before connecting the MFP to your computer. Some MFP requires connecting the MFP to your computer during the installation. Please refer to the below illustration of “HP ALL-In-One Series” which is the screen displayed during the installation.



To connect the MFP to your computer through the MFP Server just like you have directly connected the MFP to your computer through the USB cable, you can follow the steps below.

1. Select the MFP that you want to install in the “MFP Server List” and click “Connect” button.



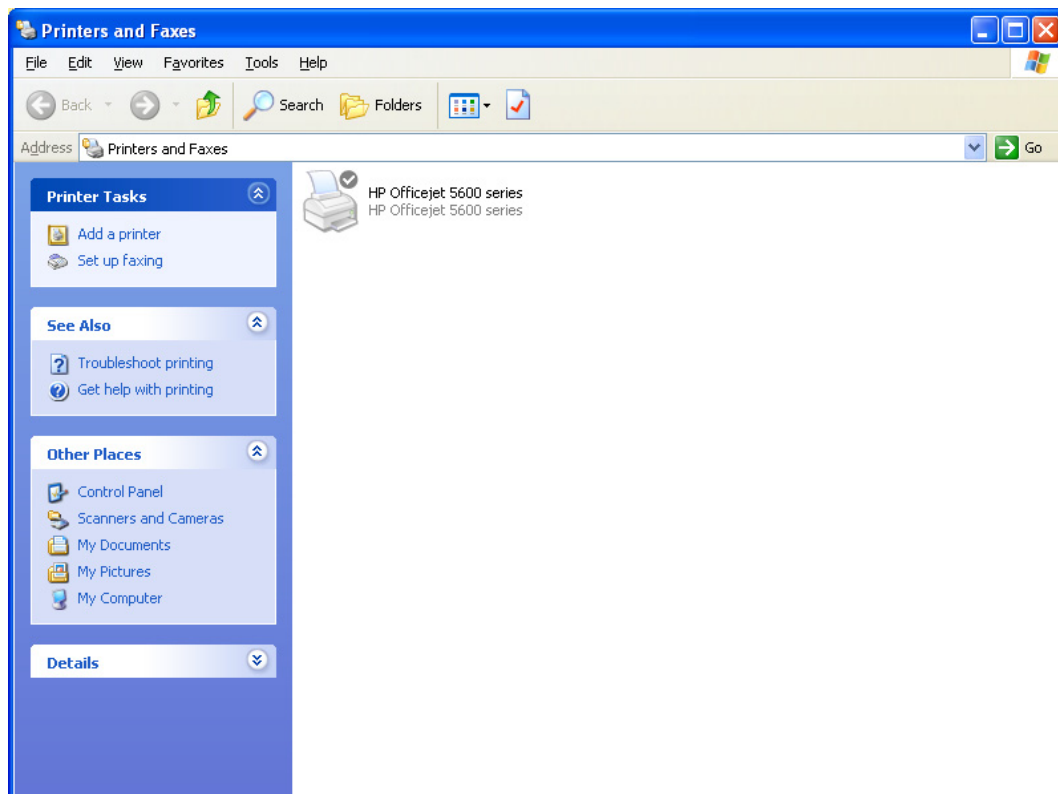
2. The Windows will detect the new hardware and prompt to install the MFP drivers. Follow the screens to finish the installation. If the system can't find the MFP driver, please insert the installation CD of the MFP and find drivers in the CD manually.

**Note:** If the MFP you have connected is a composite device, the system will install the driver for composite device at first. The following screen will be popped up, please click “Continue Anyway”. Follow the screens to finish the installation. If the system can't find the MFP driver, please insert the installation CD of the MFP and find drivers in the CD manually.



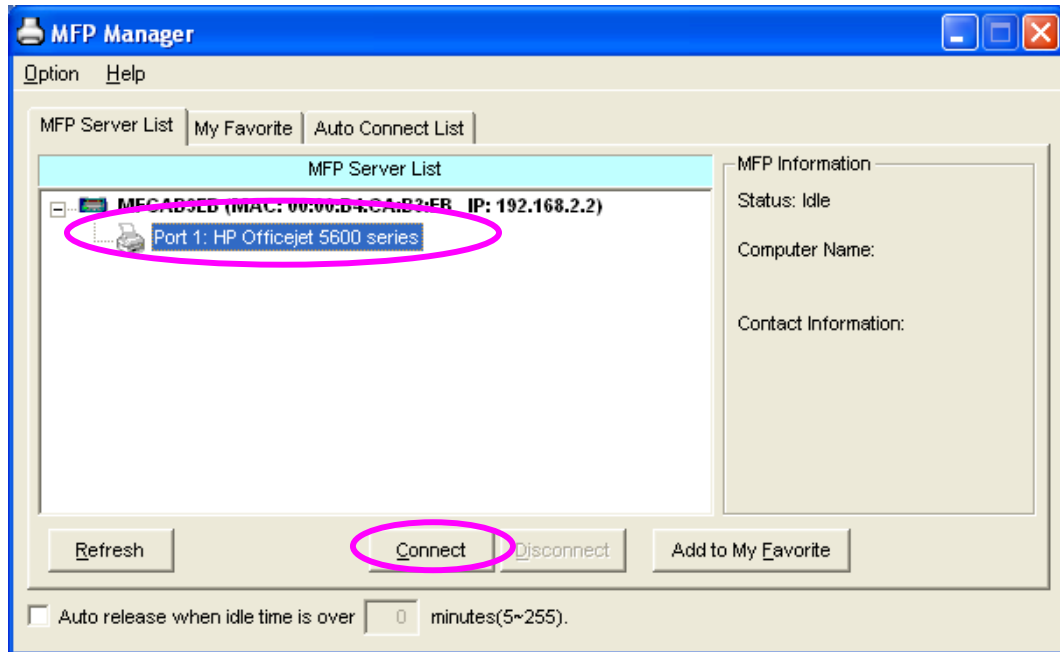


3. After you have completed the MFP installation, you will see the MFP is added to the "Printers and Faxes" in Windows.



## 4.4.2 MFP Drivers/Utilities has been installed

1. To link the MFP drivers/utilities that you have installed to the MFP Server, please follow the steps below. Select the MFP that you want to install in the “MFP Server List” and click “Connect” button.



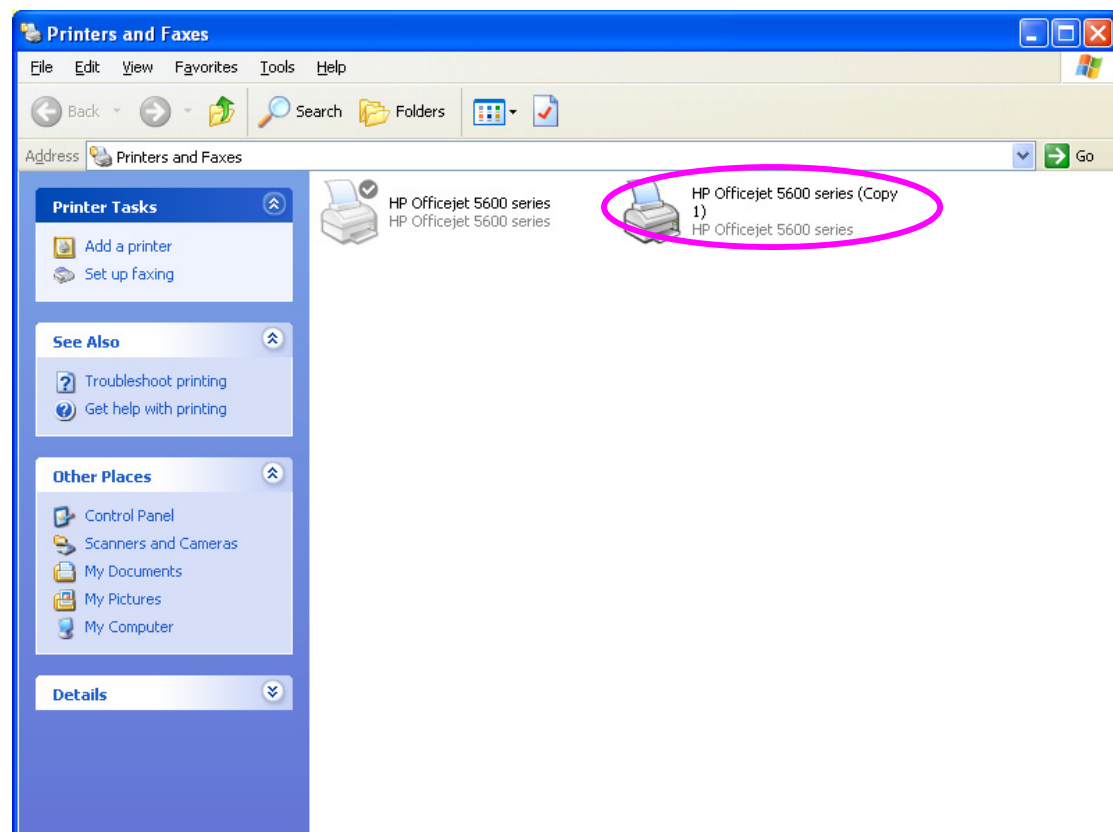
2. The Windows will detect the new hardware and prompt to install the MFP drivers. Follow the screens to finish the installation. If the system can't find the MFP driver, please insert the installation CD of the MFP and find drivers in the CD manually.

**Note:** If the MFP you have connected is a composite device, the system will install the driver for composite device at first. The following screen will be popped up, please click “Continue Anyway”. Follow the screens to finish the installation. If the system can't find the MFP driver, please insert the installation CD of the MFP and find drivers in the CD manually.



3. After the installation, a copy of the MFP will be added to the "Printers and Faxes" in Windows.

**Tip :** The new copy of the MFP is linked to the MFP Server. Please use **this MFP** to share print, scan, card reader or fax functions through the network.

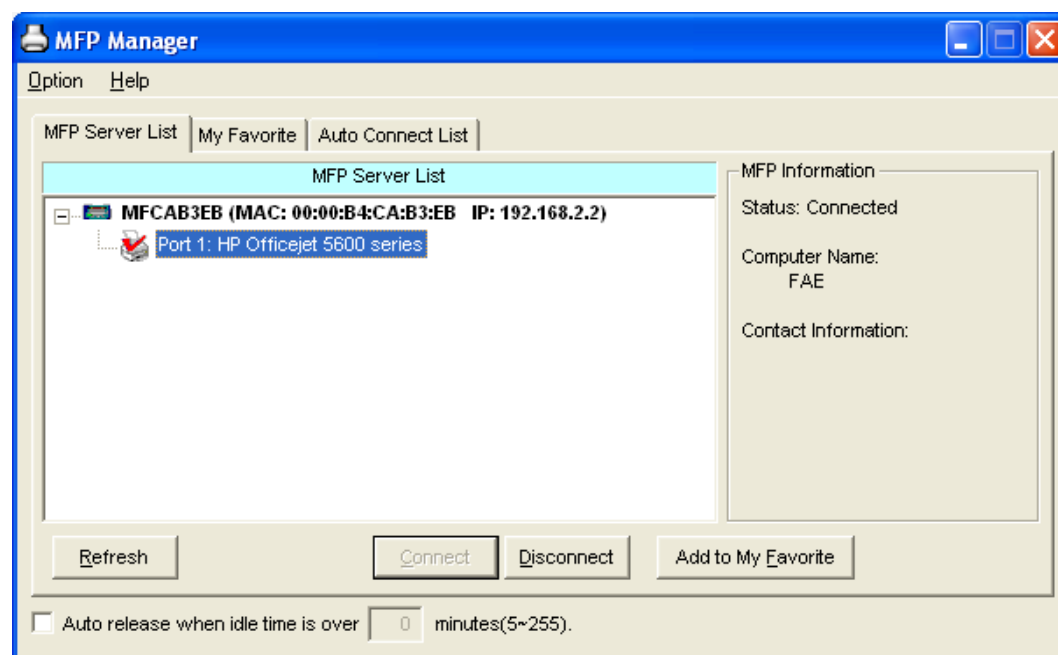


## 5. Using the MFP

After you have installed the MFP through the installation wizard, the MFP is now connected to your computer. You can start sharing print, scan, card reader or fax function provided by the MFP.

**Tip 1:** *If you have finished using the MFP, please click “Disconnect” to release the MFP. Other users can’t use the MFP only if the MFP is released.*

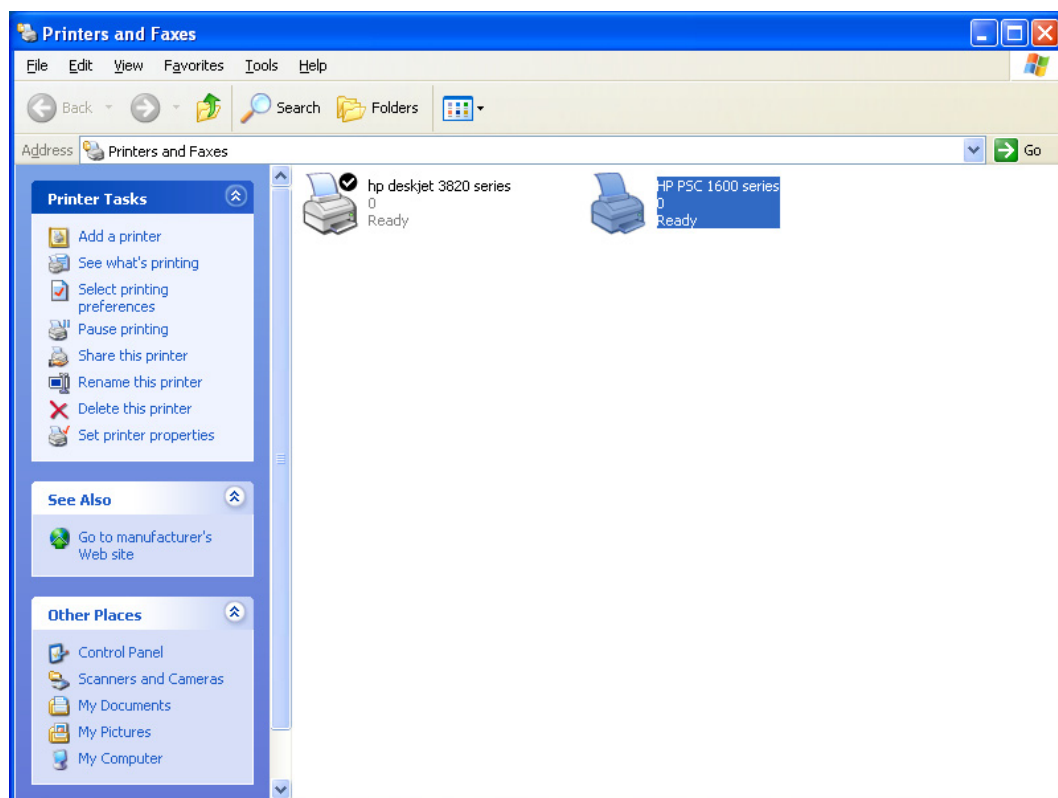
**Tip 2:** *It is recommended to enable “Auto Release” setting. The MFP Server will release the connection with the MFP after a period of idle time that you have assigned. In this way, the MFP will not be occupied too long and other users can share the MFP frequently. Please refer to Section 6.1 for more information.*



## 5.1 Printing

The MFP will be added to “Printers and Faxes” in the Windows after the MFP is installed. When you connect to the MFP by clicking “Connect” in the “MFP Manager”, the MFP Server will create the connection between the MFP and your computer and then you can print a document just follows the same steps as usual.

***Tip:*** If you have sent a printing job to the MFP while the MFP is connecting by a user, you may be prompted that the device is not found or the document is failed to print. Please resend the printing job after the MFP is idle or not being connected by the other user.



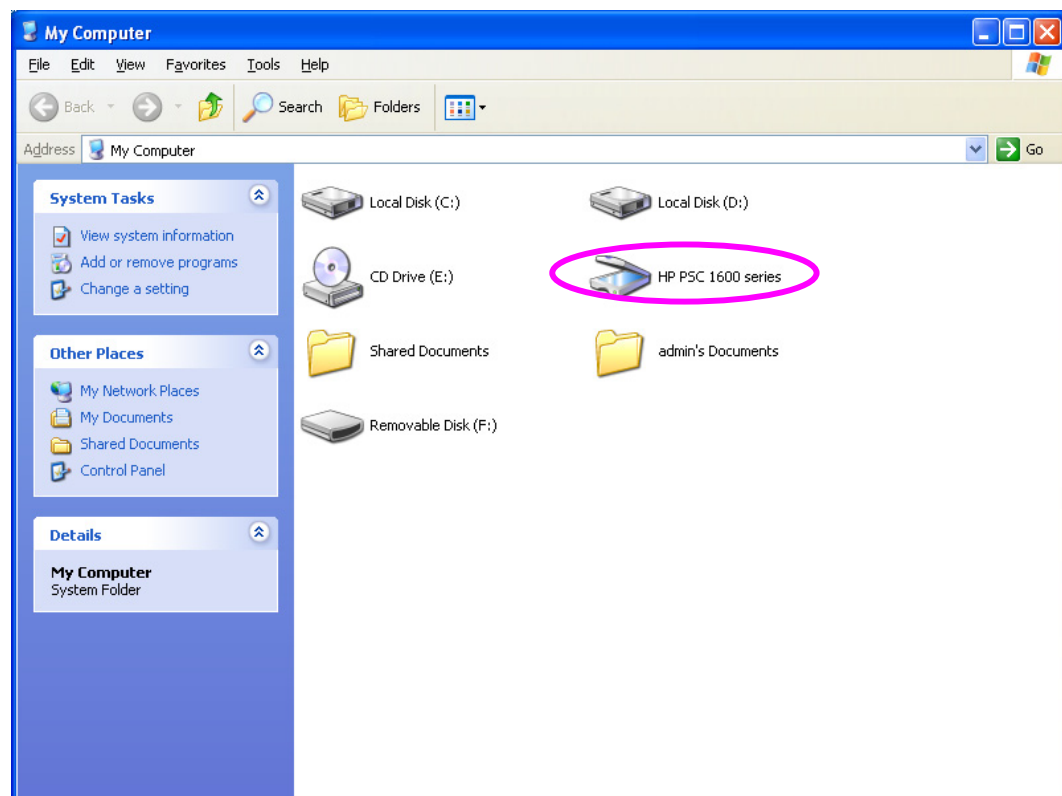
## 5.2 Scanning

Most of the MFP provides scan utility for users. You can scan pictures or documents through the utility. In Windows XP, user can also scan from Windows XP scanning utility.

### *An example: HP 1600 Series Utilities*

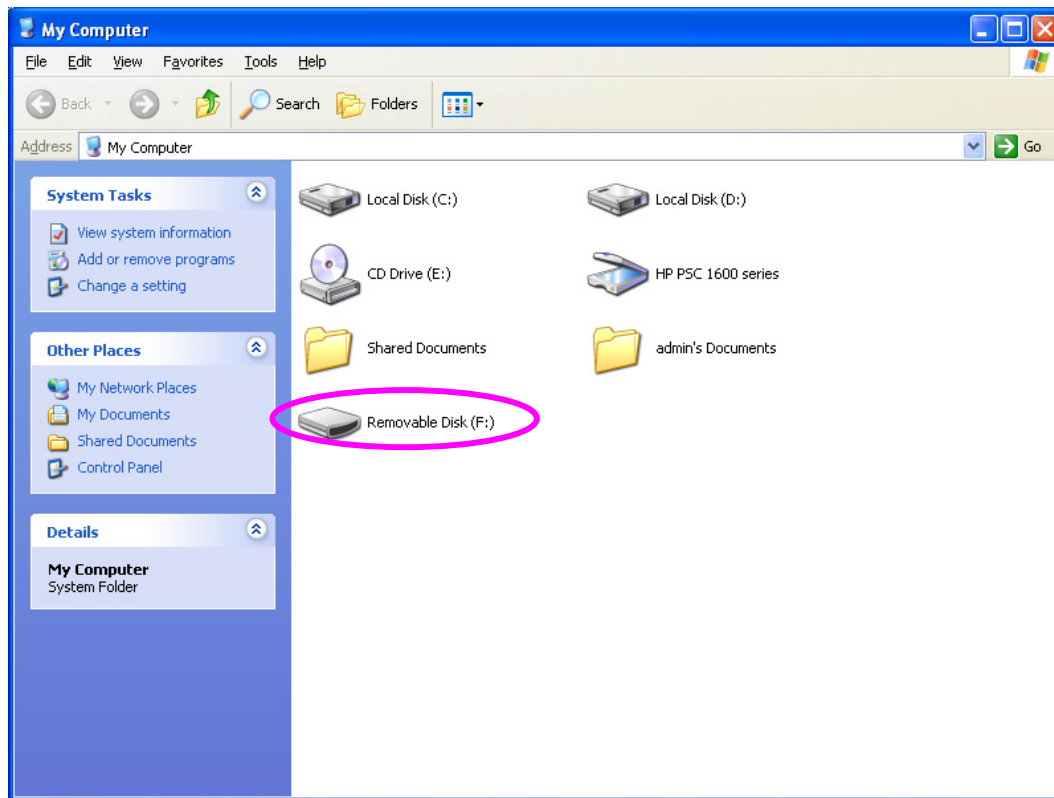


### *Windows XP Scanning Utility*



## 5.3 Card Reader Accessing

If the MFP supports card reader function, you can read the files in the plugged card reader through the MFP Server.



## 5.4 Faxing a File

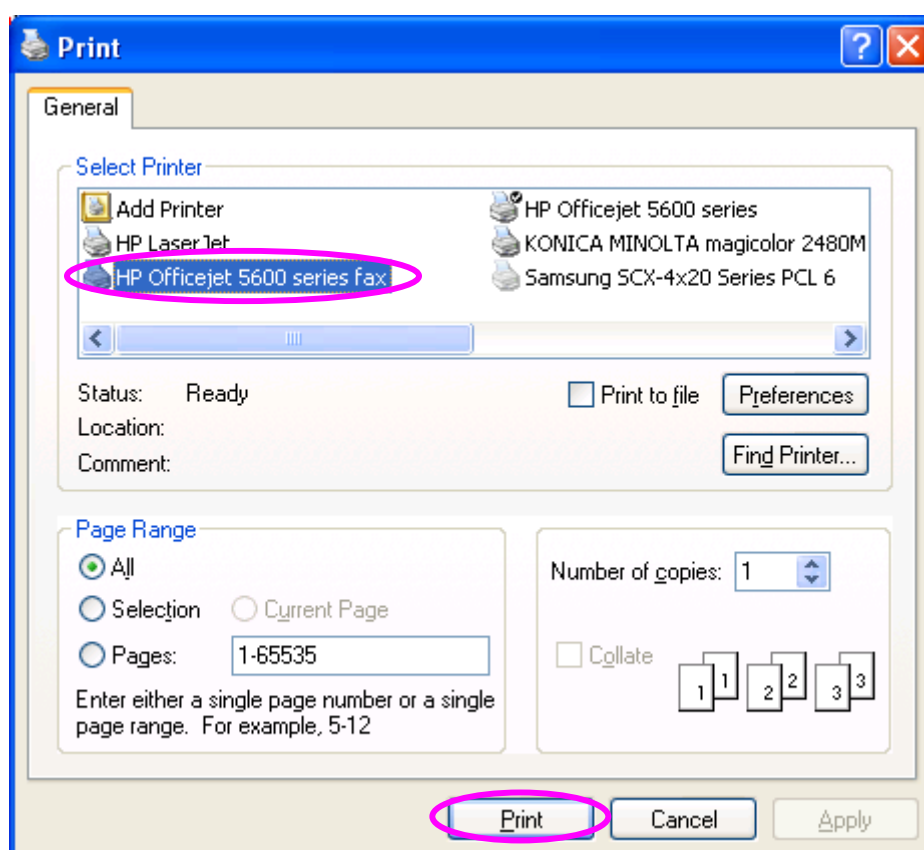
If the MFP supports fax function, you can fax files from your computer to the fax number you designated.

### ***An example: Fax through HP Officejet 5600 Series***

After the MFP is installed, a fax device will be added to “Printers and Faxes” in the Windows. When you connect to the MFP by clicking “Connect” in the “MFP Manager”, you can fax a file through the MFP Server.

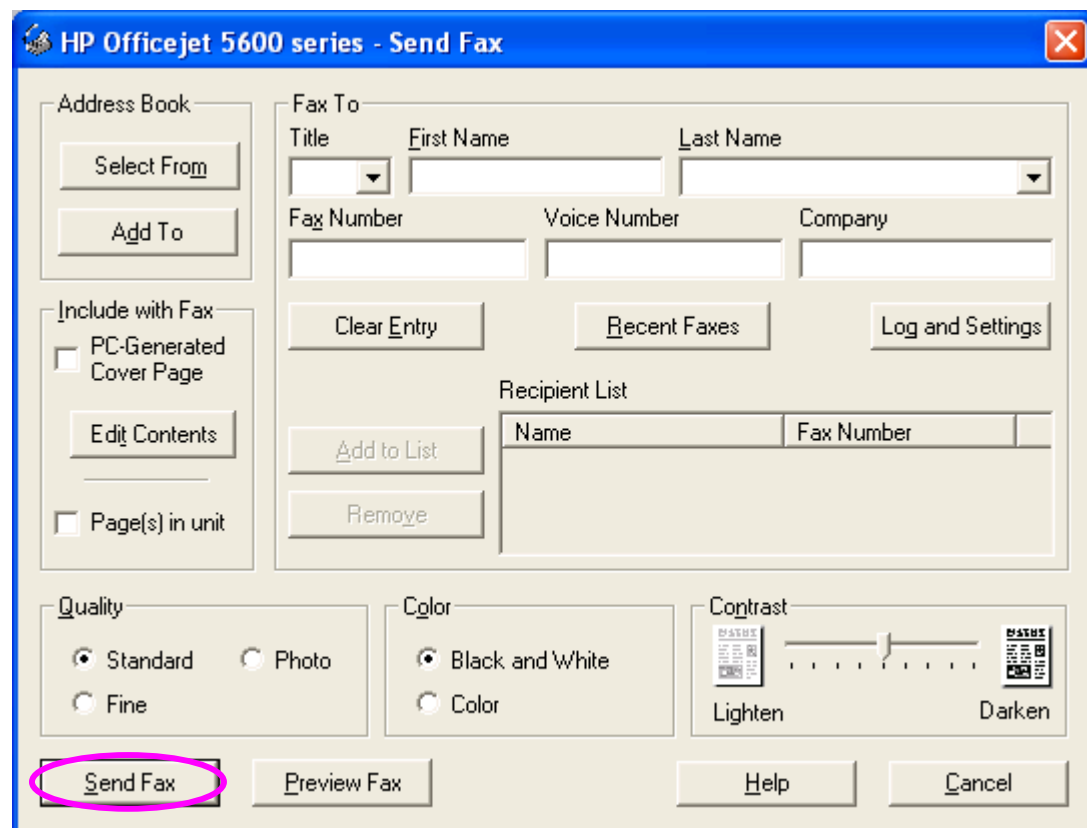
### ***Procedures to fax a file***

1. In the Microsoft Office or other programs, select “Print” from the “File” menu.
2. The following screen will be popped up, select the fax device and then click “Print”.





3. The “Send Fax” screen is popped up, please configure the file and enter the fax number. Click “Send Fax” to fax the file.



The image shows a Windows-style dialog box titled "HP Officejet 5600 series - Send Fax". The dialog is divided into several sections for configuring a fax. On the left, there is an "Address Book" section with "Select From" and "Add To" buttons. Below it, the "Include with Fax" section has a checkbox for "PC-Generated Cover Page" and an "Edit Contents" button. Further down, another checkbox is for "Page(s) in unit". The main area is for "Fax To" information, including fields for "Title", "First Name", and "Last Name" (each with a dropdown arrow), and fields for "Fax Number", "Voice Number", and "Company". Below these are buttons for "Clear Entry", "Recent Faxes", and "Log and Settings". A "Recipient List" table is present with columns for "Name" and "Fax Number", and buttons for "Add to List" and "Remove". At the bottom, there are three settings sections: "Quality" with radio buttons for "Standard", "Photo", and "Fine"; "Color" with radio buttons for "Black and White" and "Color"; and "Contrast" with a slider between "Lighten" and "Darken". The bottom of the dialog features four buttons: "Send Fax" (highlighted with a red circle), "Preview Fax", "Help", and "Cancel".

HP Officejet 5600 series - Send Fax

Address Book

Select From

Add To

Include with Fax

☐ PC-Generated Cover Page

Edit Contents

☐ Page(s) in unit

Fax To

Title First Name Last Name

Fax Number Voice Number Company

Clear Entry Recent Faxes Log and Settings

Recipient List

Name	Fax Number
------	------------

Add to List Remove

Quality

☒ Standard ☐ Photo ☐ Fine

Color

☒ Black and White ☐ Color

Contrast

Lighten Darken

Send Fax Preview Fax Help Cancel

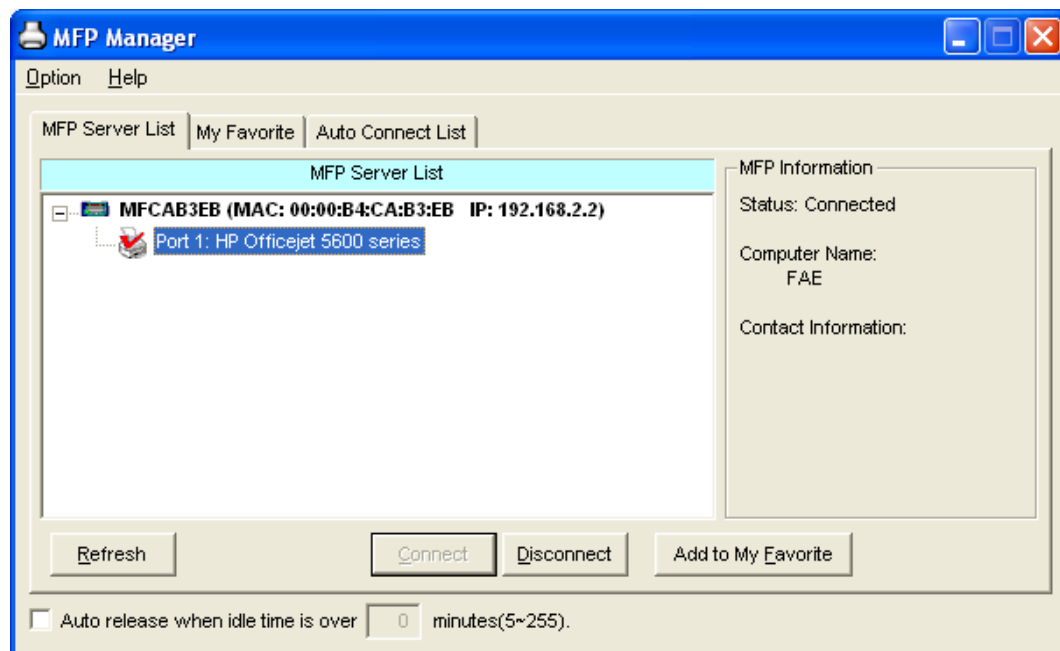
## 6. MFP Manager

### 6.1 MFP Server List

The “MFP Manager” can automatically find the MFP server in the network and show it in the MFP Server List. Users can select a MFP and click “Connect” to connect the MFP just like you connect the MFP directly to your computer through USB cable. It also displays the connection status information.

When you don’t want to use the MFP or Printer, please click “Disconnect” so other users can use the device. You can also enable the “Auto Release” setting, so that the MFP Server will release the connection after a period of idle time that you have assigned.

If you unplug the USB cable or turn off the MFP while using, the device will not display in the list. After you reconnect the USB cable or turn on MFP, you have to click “Refresh” and “Connect” buttons in the “MFP Manager” to recover the connection.



MFP Server List	
MFP Server List	<p>The “MFP Server List” will list all the MFP Servers within the network. You can find the information of the MFP Servers including “MFP Server Name”, “MAC ID”, “IP Address” and the device connected to the MFP Server.</p>
MFP Server/MFP Information	<p>When you click on the “MFP Server” in the “MFP Server List”, you will see the “MFP Server Description” and the “Idle Timeout” setting for the MFP Server.</p> <p><b>MFP Server Description</b> – It is a description that can help users to identify MFP Server.</p>
	<p><b>Idle Timeout</b> — From here, each user can know his/her auto release setting. To avoid occupying the MFP overtime, each user can enable the “Auto Release” setting at the bottom of the “MFP Manager” utility. It is used to automatically disconnect the connection after the MFP is idle for a specified period of time. By default, it is never released.</p>
	<p>When you click on the “MFP” in the “MFP Server List”, you will see the information including “Status”, “Computer Name” and “Contact Information”.</p>
	<p><b>Status</b> – It displays the status of the MFP including Connected, Idle and Busy. When the status is “Connected”, it indicates that MFP is connected. When the status is “Idle”, it indicates that the MFP is not being used. When the status is “Busy”, it indicates that other user is using the MFP to scan, print, or etc.</p>
	<p><b>Computer Name</b> – It display the computer name of the user who is connecting to the MFP.</p>
	<p><b>Contact Information</b> – When the current user has set</p>

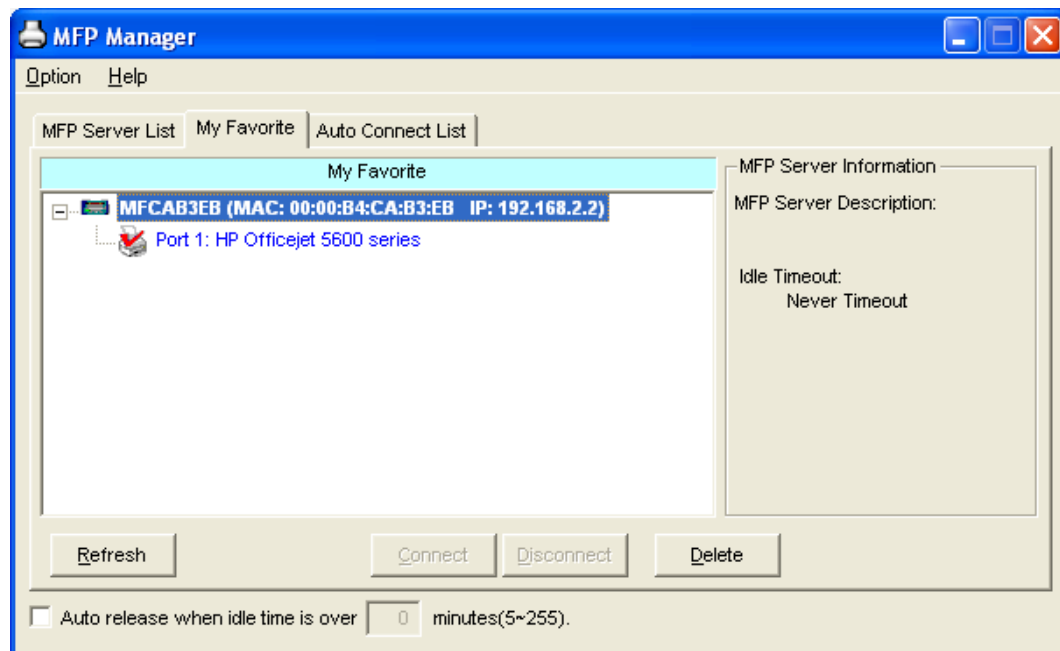
his “Contact Information”, you can see it here. You can contact with the current user asking to disconnect the MFP.

Refresh	Refresh the “MFP Server List” immediately.
Connect	Connect the MFP.
Disconnect	Disconnect the selected MFP.
Add to My Favorite	Add the MFP Servers that you frequently use to “My Favorite List”.
Auto Release when idle time is over xx minutes (5-255)	To avoid you occupy the MFP overtime; you can setup auto release function. It is used to automatically disconnect the current connection after the MFP is idle for a specified period of time. By default, it is never released. It is recommended to enable the setting after the MFP and MFP Server are installed completely so that the MFP resource will not be occupied permanently.

---

## 6.2 My Favorite

You can add the frequently use MFP Servers to “My Favorite” list. The MFP Server in the list will be added to the quick link list when you right click the MFP Server icon in the system tray. Please refer to Section 6.4 to know more about the quick setup functions.



### My Favorite List

**My Favorite List** The “My Favorite List” will list your favorite MFP Servers. You can find the information of the MFP Servers including “MFP Server Name”, “MAC ID”, “IP Address” and the device connected to the MFP Server.

**MFP Server/MFP Information** The information listed here are the same as MFP Server List. Please refer to Section 6.1.

**Refresh** Refresh the “MFP Server List” immediately.

**Connect** Connect the MFP.

---

My Favorite List	
Disconnect	Disconnect the selected MFP.
Delete	Delete the selected MFP Server from the “My Favorite List”.
Auto Release when idle time is over xx minutes (5-255)	To avoid you occupy the MFP overtime; you can setup auto release function. It is used to automatically disconnect the current connection after the MFP is idle for a specified period of time. By default, it is never released. It is recommended to enable the setting after the MFP and MFP Server are installed completely so that the MFP resource will not be occupied permanently.

---

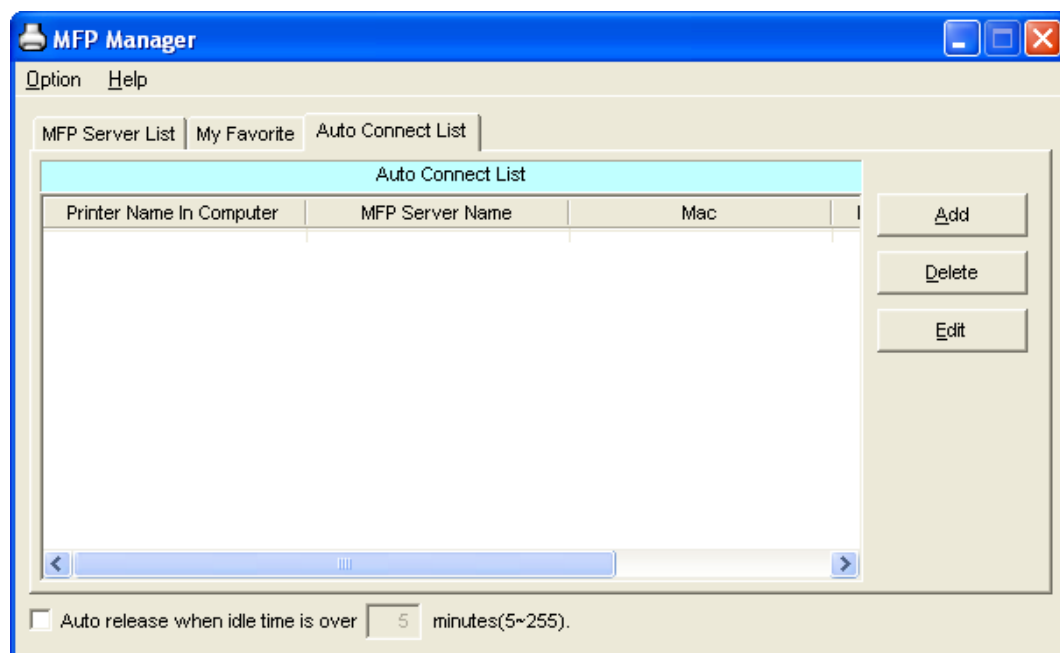
## 6.3 Auto Connect List

To let the system connect the MFP server automatically when you want to print a document just like using traditional print server, you can add the MFP into your Auto Connect List. The system will send the printing jobs to the MFP when the MFP Server is idle and not being connected.

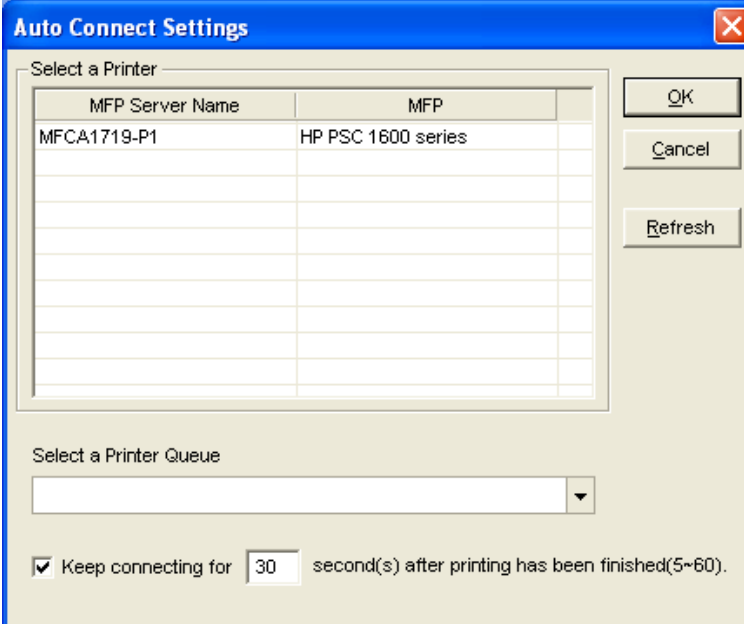
***Tip:*** If you send a printing job to the MFP while the MFP is connecting by the other user, you may be prompted that the device is not found or the document is failed to print. It also happens in some MFPs or printers even though the MFP is not connecting by a user. Please follow the message to retry and the MFP will queue your printing job in your computer spooler. The MFP Server will then print the job after the MFP is idle or disconnected.

To add the MFP to the Auto Connect List, please follow the steps below.

1. Click “Add” from the “Auto Connect List”.



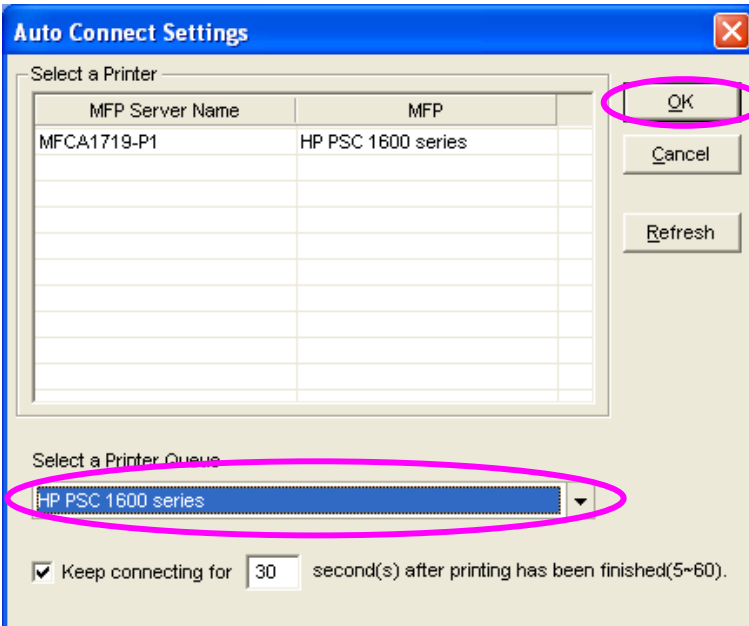
2. The MFP Servers within the network will be displayed in the following screen. Select the MFP Server you would like to add to the list.



The 'Auto Connect Settings' dialog box has a title bar with a close button. It contains a section titled 'Select a Printer' with a table of MFP servers. The table has two columns: 'MFP Server Name' and 'MFP'. The first row contains 'MFCA1719-P1' and 'HP PSC 1600 series'. Below the table are three buttons: 'OK', 'Cancel', and 'Refresh'. Below the buttons is a section titled 'Select a Printer Queue' with a dropdown menu. At the bottom, there is a checkbox labeled 'Keep connecting for' followed by a text box containing '30' and the text 'second(s) after printing has been finished(5~60)'.

MFP Server Name	MFP
MFCA1719-P1	HP PSC 1600 series

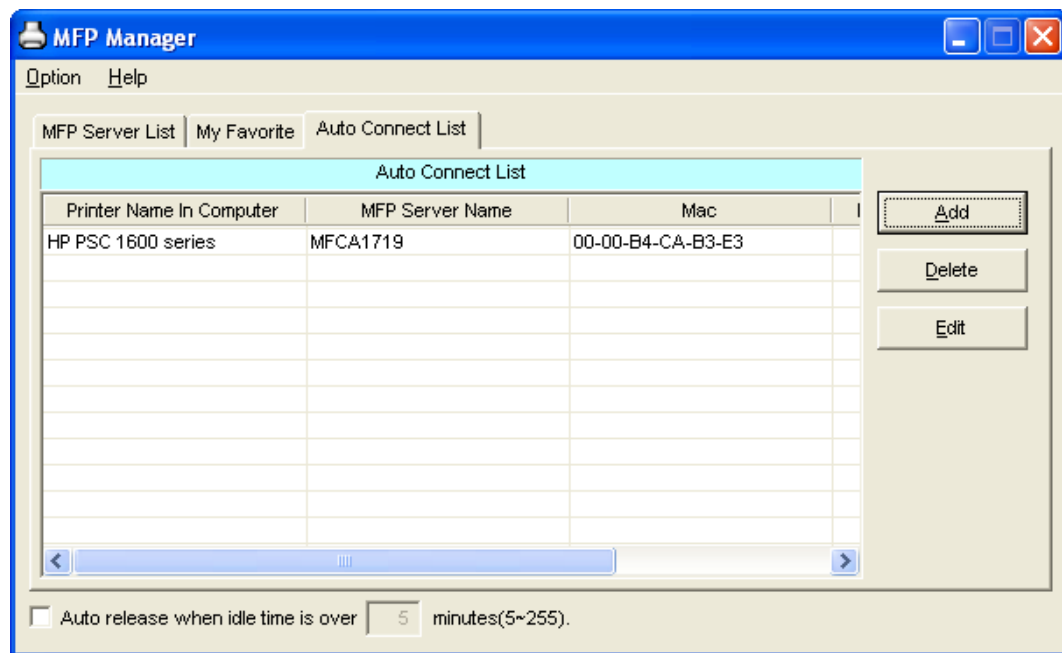
3. Select the MFP that is connected to the selected MFP Server. Click "Ok".  
Note that in some cases, a printing jobs cannot be printed completed if the MFP is already disconnected. It will print unformatted messages. "Keep connecting for 30 second(s) after printing has been finished (5-60)" is enabled by default. It will help to avoid this kind of situation.



This image shows the same 'Auto Connect Settings' dialog box as the previous one, but with two elements highlighted by pink ovals. The 'OK' button in the top right corner is highlighted. The 'Select a Printer Queue' dropdown menu is also highlighted, and it now displays 'HP PSC 1600 series' as the selected option. The rest of the dialog box, including the table and the 'Keep connecting' checkbox, remains the same.

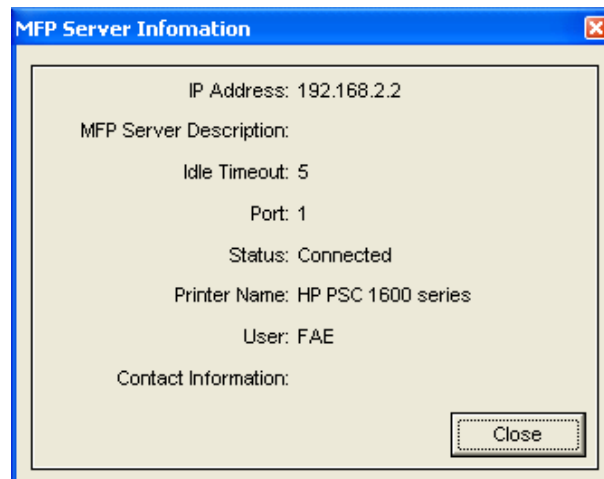
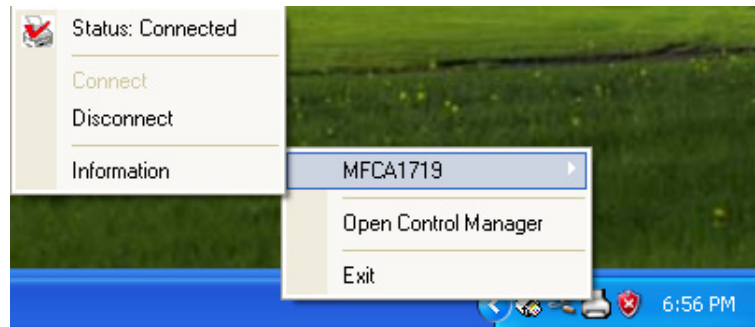


4. The setup is finished.



## 6.4 Quick Setup

Right click on the MFP Server icon in the system tray you can see the MFP servers you have chosen to “My Favorite List”. You can directly connect or disconnect the MFP and check the MFP information from the here easily.



### Quick Setup

Status	The current status of the MFP will be displayed here. “Connected” indicates that you are connecting to the MFP. “Busy” indicates the MFP is being used. “Idle” indicates that the MFP is free to use by any users.
Connect	If the MFP is free to use, the “Connect” is available to click for connecting the MFP. Otherwise, it is grayed out.

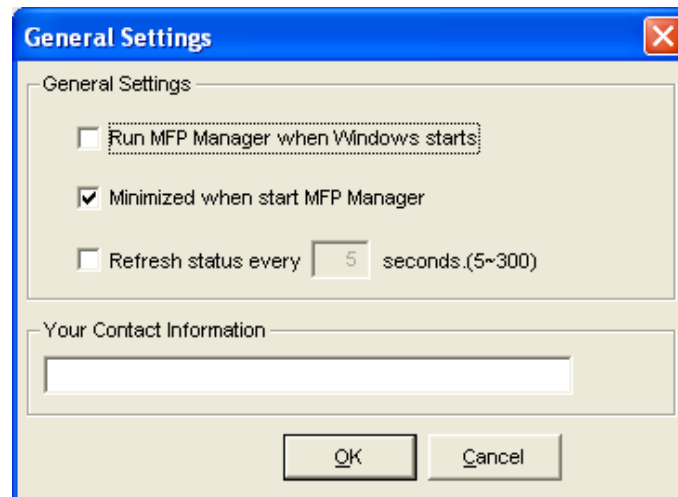
---

Quick Setup	
Disconnect	Disconnect the selected MFP. The “Disconnect” is available only for the current user.
Information	To check more information about the MFP Server and the MFP, please click this button. The information will be shown as above.

---

## 6.5 Option Settings

### 6.5.1 General Setting



#### General Setting

**Run MFP Manager when Windows starts** Execute the “MFP Manager” when Windows starts every time. By default, it is enabled.

**Minimized when start MFP Manager** Minimized the “MFP Manager” to an icon in the system tray when you start the “MFP Manager”. By default, it is disabled.

**Refresh status every xx seconds. (5~300)** Setup the refresh interval for device status update. By default, it is disabled.

**Your Contact Information** Enter your contact information here. When you connect to the MFP, your contact information will be displayed in the right side of the program for other users to contact you.

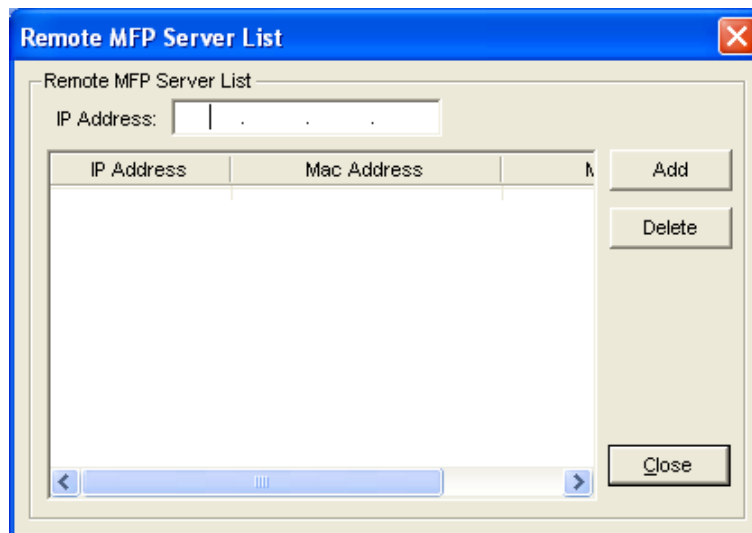
---

## 6.5.2 Search for MFP Server

If there is an MFP Server not in the same network as your computer, you can enter the IP Address of the MFP Server for the remote search. The MFP Server in the “Remote MFP Server List” will be added to the “MFP Server List” for you to configure.

**Note:**

*If the remote MFP Server you searched is behind NAT Router, the MFP Server may not operate normally.*



# 7. Server Configuration

## 7.1 Introduction

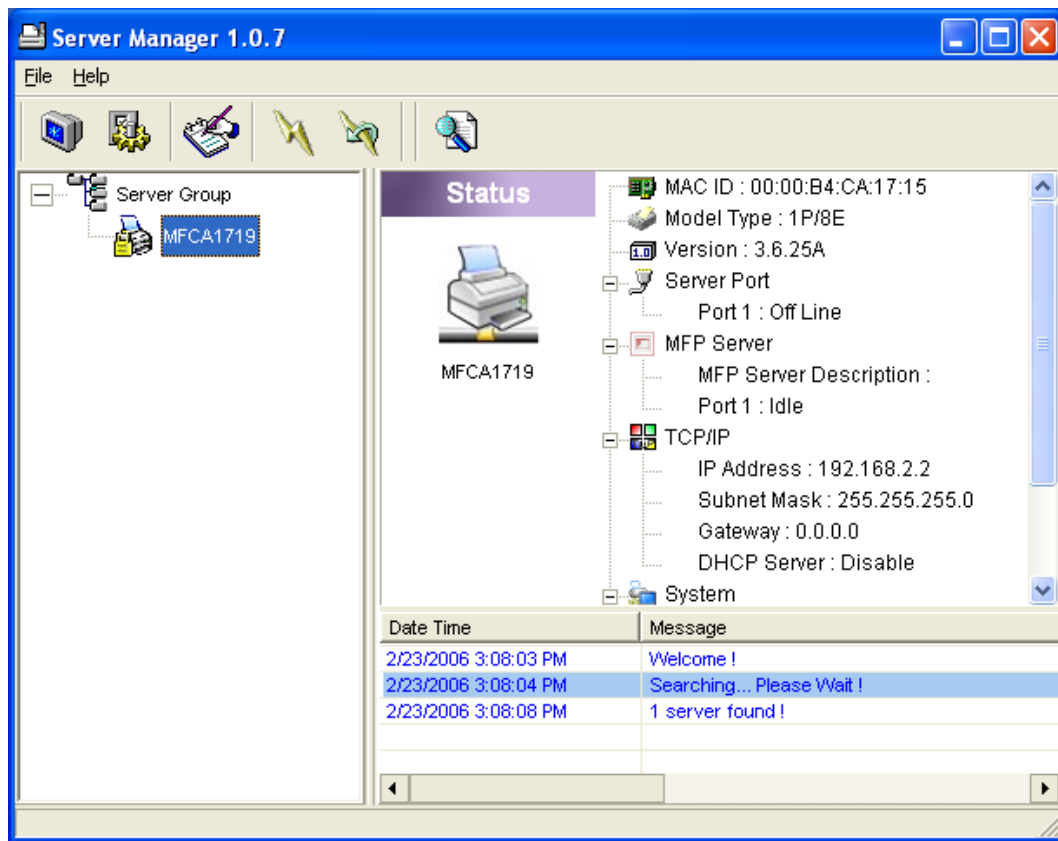
This chapter introduces MFP Server's system configuration utility in Windows environment. This utility provides the most complete management and configuration functions on the MFP Server. This utility only provides configuration functions for MFP Server itself; it does not include configuration functions for client side or other file server in the network environment.


The Configuration Utility provides the following configuration and management functions:

- **Search MFP Server:** Search All Available MFP Servers on the Network.
- **Status:** Display MFP Server Network Status.
- **General Configuration:** Configure general settings about the MFP Server such as Server Name, Password, etc.
- **TCP/IP Configuration:** IP Address and DHCP Server Configuration.
- **System Configuration:** MFP Server Network Ability Setting and Firmware Upgrade.
- **MFP Server Management:** For administrator to manage the MFP Server. Administrator can force to disconnect the current connection of the MFP Server.
- **Report:** List the some information of All Available MFP Servers in the Network.

We will explain each function separately in the following section.

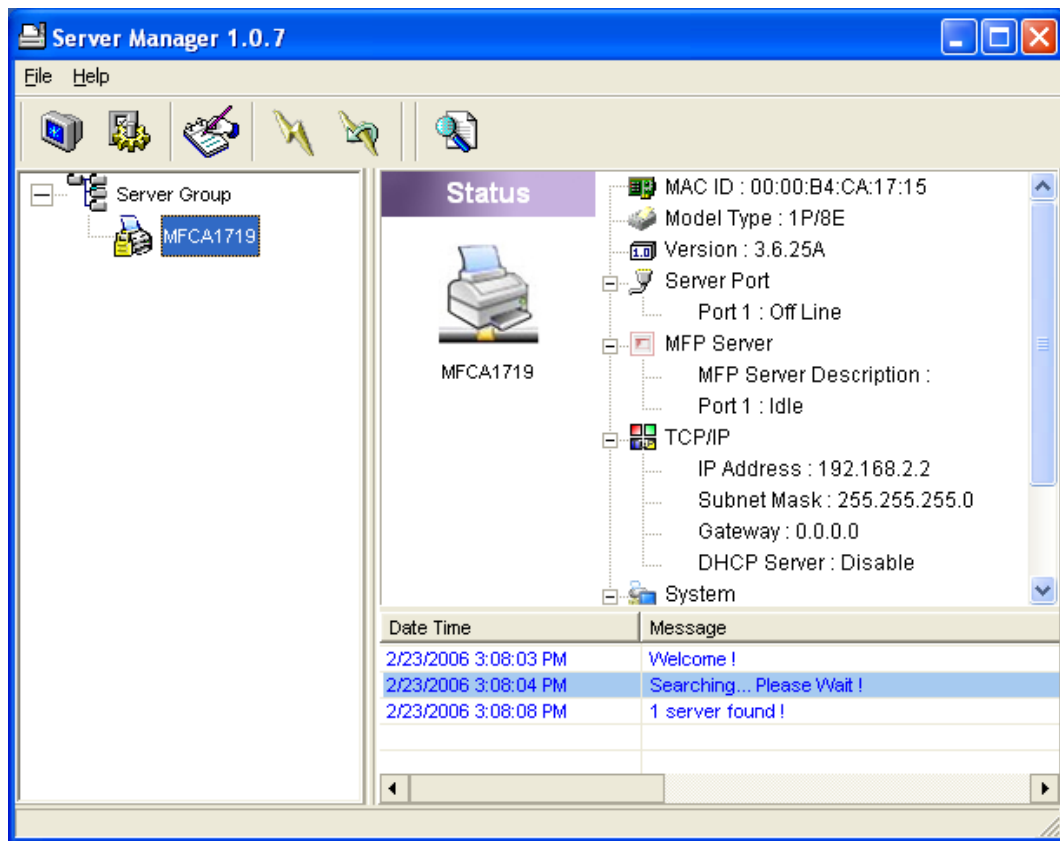
## 7.2 Search for All Available MFP Server




Every time when you run the “Server Manager” configuration utility, click the “Search” icon  on the tool bar. The configuration utility will delay for several seconds as the utility uses system’s available network protocols to search for all MFP Servers on the network. All available MFP Servers will be listed under “Server Group” on the left side of the window.

You must select the MFP Server you would like to configure from the list. The system will, at the same time, display the selected MFP Server’s status on the right side of the window.


## 7.3 Status of MFP Server



Click “Status” icon  on the tool bar, the status of the selected MFP Server will be showed on the right side of the window. The information of the MFP Server includes MAC ID, Model Type, Firmware Version, status of each server port, IP address, subnet mask, default gateway and supported printing protocols...etc.

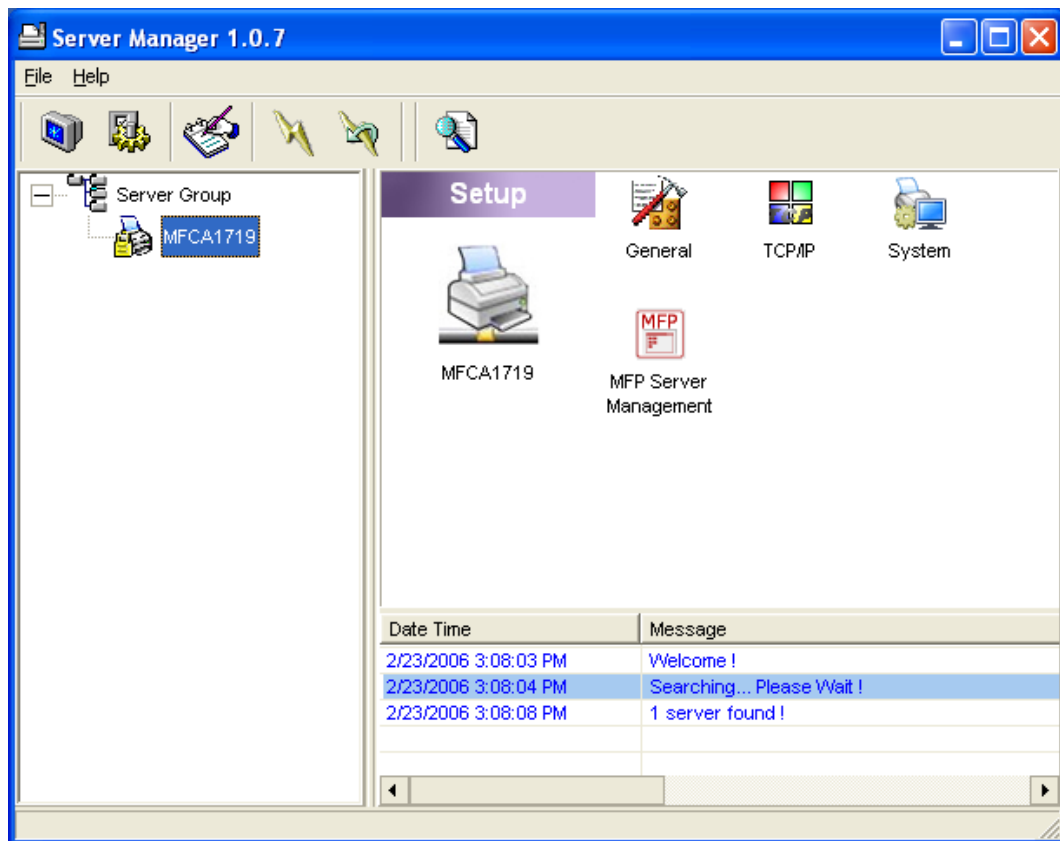
You can refresh the MFP Server’s status by pressing the “Refresh” button




You can restart the MFP Server by pressing the “Reboot” button .




## 7.4 Setup the MFP Server

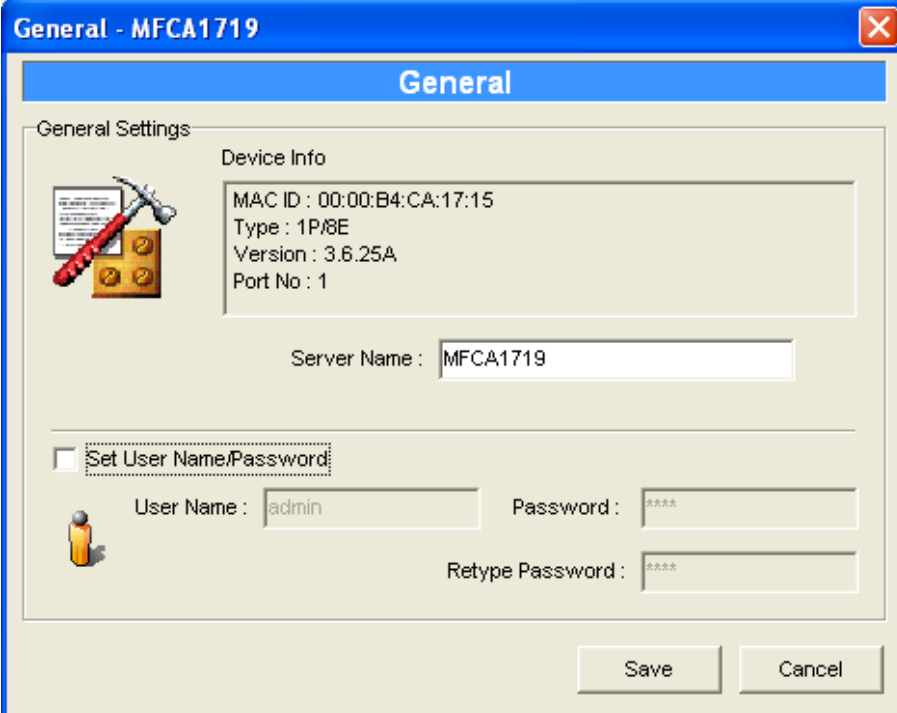


Click “Setup” icon  on the tool bar, the setup items of the selected MFP Server will be showed on the right side of the window.

Double click the icon to set up the selected MFP Server. A screen will pop up to verify “User Name” and “Password” of the MFP Server. The default values are: **User Name: admin, Password: 1234.**

**Tip:** When you finish the settings, please click “” to restart the MFP Server to take the settings effect.

## 7.5 General Configuration



General - MFCA1719

General

General Settings

Device Info

MAC ID : 00:00:B4:CA:17:15  
Type : 1P/8E  
Version : 3.6.25A  
Port No : 1

Server Name : MFCA1719

☐ Set User Name/Password

User Name : admin Password : \*\*\*\*

Retype Password : \*\*\*\*

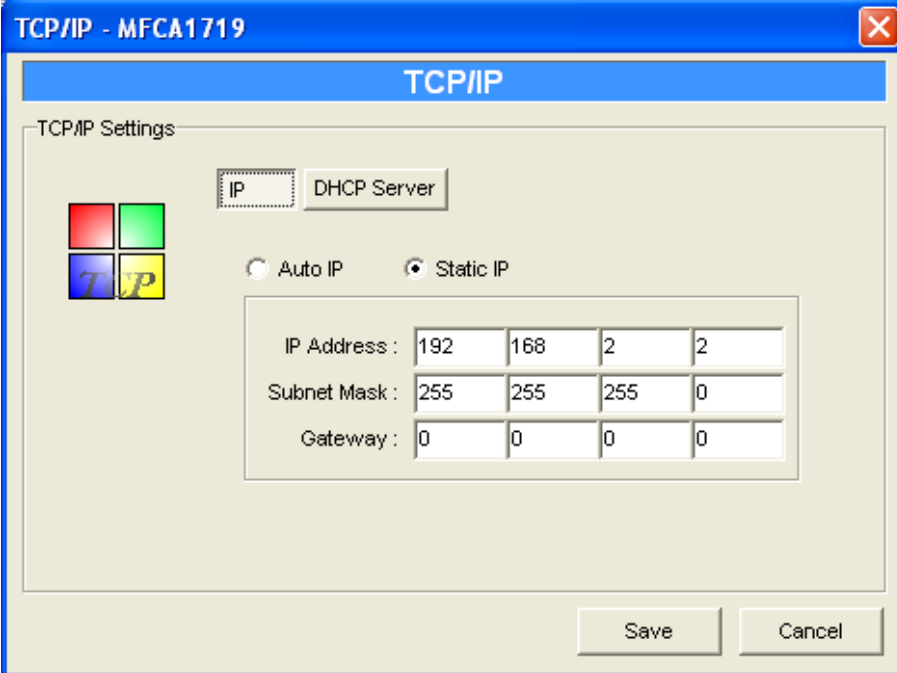
Save Cancel

Double click “General” icon and the General configuration window will pop-up. You can see basic MFP Server information in this page. You also can configure the “Server Name”, “User Name” and “Password” here.

**Server Name**, the name of the MFP Server. You can use this name to identify the MFP Server when you search for the MFP Server by the “Server Manger” utility.

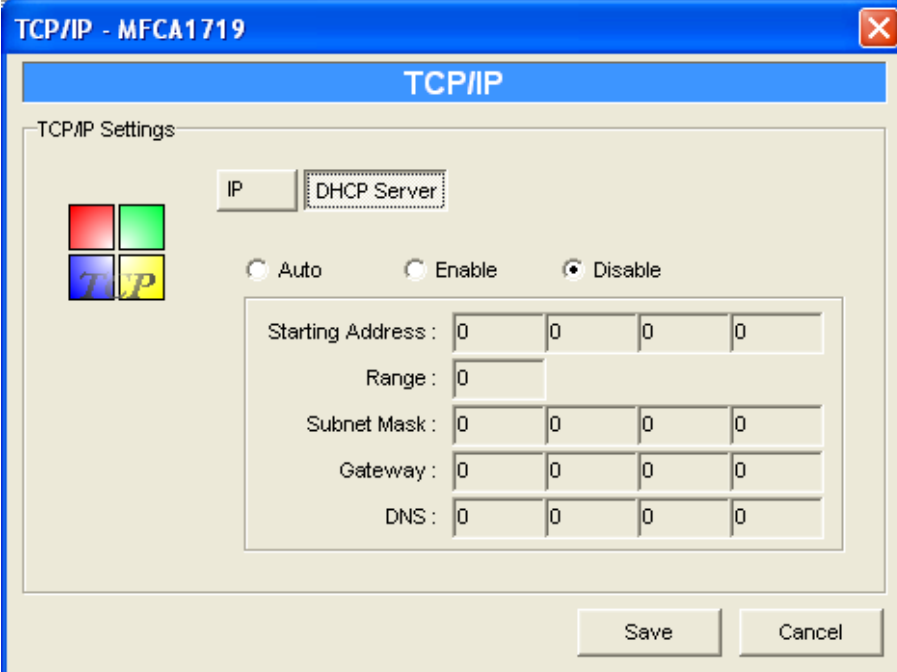
**User Name / Password** is used to authenticate the administrator to login the MFP Server to configure it from the “Server Manger” utility or the Web Management tool.

## 7.6 TCP/IP Configuration



The screenshot shows the 'TCP/IP - MFCA1719' window. The title bar is blue with a close button. The main area has a blue header 'TCP/IP'. Below it, 'TCP/IP Settings' is displayed. On the left is a logo with four colored squares (red, green, blue, yellow) and the letters 'T' and 'P'. To the right of the logo are two tabs: 'IP' (selected) and 'DHCP Server'. Below the tabs are two radio buttons: 'Auto IP' (unselected) and 'Static IP' (selected). Under 'Static IP', there are three rows of input fields: 'IP Address' (192, 168, 2, 2), 'Subnet Mask' (255, 255, 255, 0), and 'Gateway' (0, 0, 0, 0). At the bottom right are 'Save' and 'Cancel' buttons.

Field	Value 1	Value 2	Value 3	Value 4
IP Address	192	168	2	2
Subnet Mask	255	255	255	0
Gateway	0	0	0	0



The screenshot shows the 'TCP/IP - MFCA1719' window. The title bar is blue with a close button. The main area has a blue header 'TCP/IP'. Below it, 'TCP/IP Settings' is displayed. On the left is a logo with four colored squares (red, green, blue, yellow) and the letters 'T' and 'P'. To the right of the logo are two tabs: 'IP' (selected) and 'DHCP Server'. Below the tabs are three radio buttons: 'Auto' (unselected), 'Enable' (unselected), and 'Disable' (selected). Under 'Disable', there are five rows of input fields: 'Starting Address' (0, 0, 0, 0), 'Range' (0), 'Subnet Mask' (0, 0, 0, 0), 'Gateway' (0, 0, 0, 0), and 'DNS' (0, 0, 0, 0). At the bottom right are 'Save' and 'Cancel' buttons.

Field	Value 1	Value 2	Value 3	Value 4
Starting Address	0	0	0	0
Range	0			
Subnet Mask	0	0	0	0
Gateway	0	0	0	0
DNS	0	0	0	0

Double Click “TCP/IP” icon and the TCP/IP configuration window will pop-up. You can configure the MFP Server to get IP automatically from DHCP server or specify static IP manually. The MFP Server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

**IP Address Assignment:**

Click the “IP” button to enter the IP setting page. If you need the MFP Server to automatically get an IP from DHCP server, select “Auto IP”. You also can select “Static IP” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the MFP Server. By default, “Static IP” is enabled and the default settings are as follows.

**IP Address: 192.168.2.2**

**Subnet Mask: 255.255.255.0**

**Auto IP** – The IP Address information of the MFP Server obtained from DHCP Server will be displayed in the address field. If no DHCP Server is present, you have to assign the information manually.

**Static IP** – Manually assign the IP address information in the same network with your computer to the MFP Server.

**DHCP Server:**

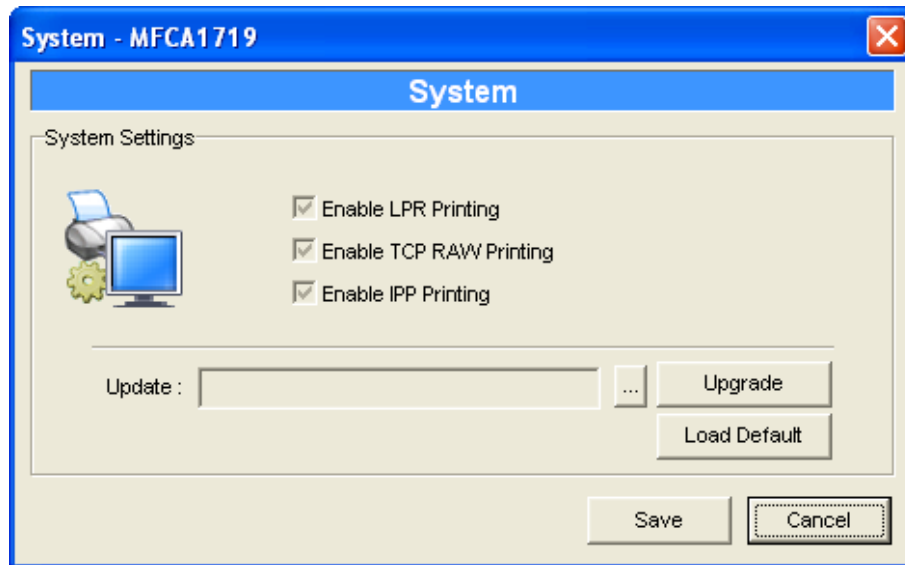
Click the “DHCP Server” button to enter into the DHCP server’s setting page. By the default, the DHCP server is disabled.

**Auto** – If “Auto” is selected, the MFP Server will detect DHCP server within the network automatically and once the DHCP server doesn’t exist, the MFP Server will turn on his own DHCP server and assign IP Address to client. Please fill in the “Starting Address”, “Range”, “Subnet Mask”, “Gateway” and “DNS”; then the MFP Server will assign a unique IP within the range for each DHCP client.

**Enable** – If the DHCP is enabled, you have to assign a range of IP addresses. Fill in the “Starting Address”, “Range”, “Subnet Mask”, “Gateway” and “DNS”; then the MFP Server will assign a unique IP within the range for each DHCP client.

**Disable** – The DHCP Server is disabled. You have to build up a DHCP Server in the network or set the IP Address for each client manually.

## 7.7 System Configuration



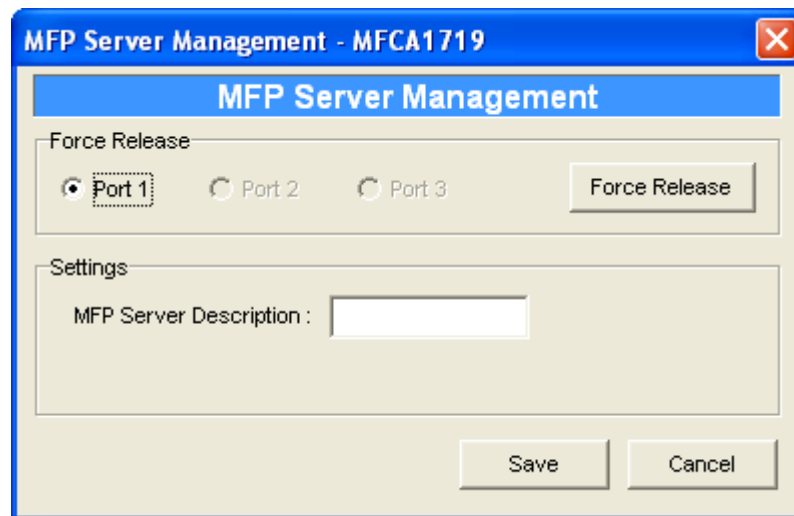
Double Click “System” icon and the System configuration window will pop-up. In the System configuration page, you can see all available printing protocols and upgrade the new firmware for this MFP Server.

**Upgrade Firmware:** You can use this “Upgrade Firmware” tool to update the newest firmware of the MFP Server. Click “...” button and select the correct firmware in your PC. After selecting the firmware file, click the “Upgrade” button to finish the firmware update process.

***Tip:*** Before you upgrade the firmware, please make sure that the IP Address settings of the MFP Server are in the same network as your computer.

**Load Default:** If you want to reset the MFP Server to default factory settings, please click “Load Default”.

## 7.8 MFP Server Management




Double Click “MFP Server Management” icon and the MFP Server configuration window will pop-up. You are able to manage the MFP Server as below.

**Force Release:** Select the port number and then click “Force Release” will help to you disconnect the current connection between the user and the connected device. It is very useful when a user forgets to disconnect the MFP, administrator can force to disconnect the connection and let the MFP be free to use.

**MFP Server Description:** Enter the description (max 15 alphanumeric) of the MFP Server such as location or other information to help user to find the MFP Server easily.

## 7.9 Report

The screenshot shows a software application window titled "Report". The window has a blue title bar with standard Windows-style control buttons (minimize, maximize, close) on the right side. Inside the window, there is a table with five columns: "Device Name", "MAC ID", "Model Type", "Version", and "Status". The first row contains data: "MFCA1719", "00:00:B4:CA:17:... ", "1P/8E", "3.6.25A", and an empty status field. Below this header row are ten more rows, all of which are currently empty. At the bottom of the table area, there is a horizontal scrollbar with arrows at both ends and a central track containing three vertical bars.

Click “Report” icon  on the tool bar, the Report window will pop up. The report lists basic information of all available MFP Servers in the network. The information includes Device Name, MAC ID, Model Type and Firmware Version of MFP Server.

## 8. Web Management

### 8.1 Introduction

MFP Server can be configured and managed by a Web browser. Through Local Area Network, or even Internet, administrator can easily configure and manage MFP Server's various main functions by the browser. Simply enter MFP Server's IP address into the browser's address bar to access the MFP Server setup page.

The default IP Address, User Name and Password settings of the MFP Server are as follows.

**IP Address: 192.168.2.2**

**User Name: Admin**

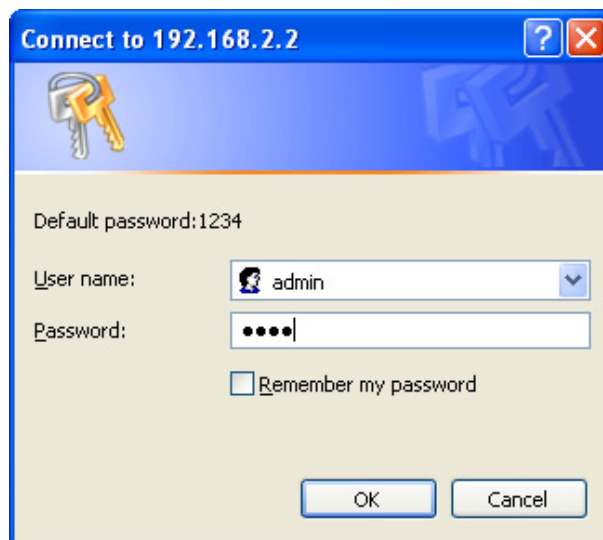
**Password: 1234**



## 8.2 Login

You may use any Web Browser to review the status or configure the settings of the MFP Server. After entering the IP address of the MFP Server, a login page display. You have to enter correct “User Name” and “Password” before going to the Web Management pages.

**Note:** Default User Name is “admin”, default password is “1234”.



A screenshot of a Windows-style login dialog box titled "Connect to 192.168.2.2". The dialog has a blue header bar with a question mark and a close button. Below the header is a light blue area with a key icon. The main area is light beige and contains the text "Default password:1234". There are two input fields: "User name:" with a dropdown menu showing "admin" and a user icon, and "Password:" with a masked input field showing four dots. Below the password field is a checkbox labeled "Remember my password". At the bottom are "OK" and "Cancel" buttons.

## 8.3 Device Status

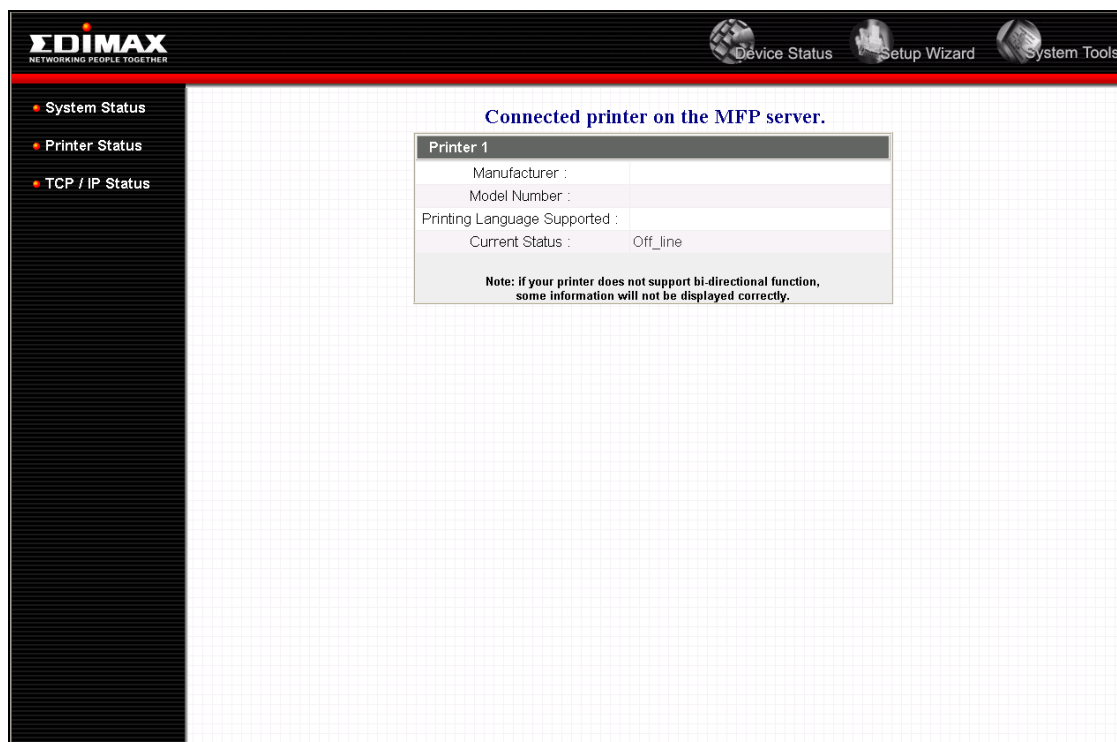
### 8.3.1 System Status

The screenshot displays the EDIMAX MFP server configuration interface. The top navigation bar includes the EDIMAX logo, the tagline "NETWORKING PEOPLE TOGETHER", and three icons: "Device Status", "Setup Wizard", and "System Tools". On the left, a sidebar lists three options: "System Status" (selected), "Printer Status", and "TCP / IP Status". The main content area is titled "Current system settings of the MFP server." and contains a table labeled "System Information".

System Information	
Device Name :	MFCA1715
MFP Server Name :	MFCA1715
Model Type :	PS1206MF
Firmware Version :	4.6.25
MAC Address :	00:00:B4:CA:17:15
USB Port Number :	1
LPT Port Number :	No
Wireless Lan Status :	No

System Information includes “Device Name”, “MFP Server Name”, “Model Type”, “Firmware Version”, “MAC Address”, “Wireless LAN Status”, and the protocols enabled status, etc.

## 8.3.2 Printer Status



This page lists the information and the status of MFP or printer connected to the MFP Server port. The status of the MFP or printer includes “Connected”, “Ready”, “Off Line” or “Paper Out”.

**Connected:** the MFP or printer is connected by a user.

**Ready:** the MFP or printer is not connected by a user and is ready to use.

**Off Line:** the MFP or printer is not connected by a user and is not connected to MFP Server through USB cable or it is turned off.

**Paper Out:** the MFP or printer is not connected by a user and is paper out.

### 8.3.3 TCP/IP Status

The screenshot displays the EDIMAX web interface. The top header features the EDIMAX logo with the tagline 'NETWORKING PEOPLE TOGETHER' on the left, and three navigation icons labeled 'Device Status', 'Setup Wizard', and 'System Tools' on the right. A left-hand sidebar contains three menu items: 'System Status', 'Printer Status', and 'TCP / IP Status', with the latter being selected. The main content area is titled 'Current TCP/IP settings of the MFP server.' and contains a table with the following data:

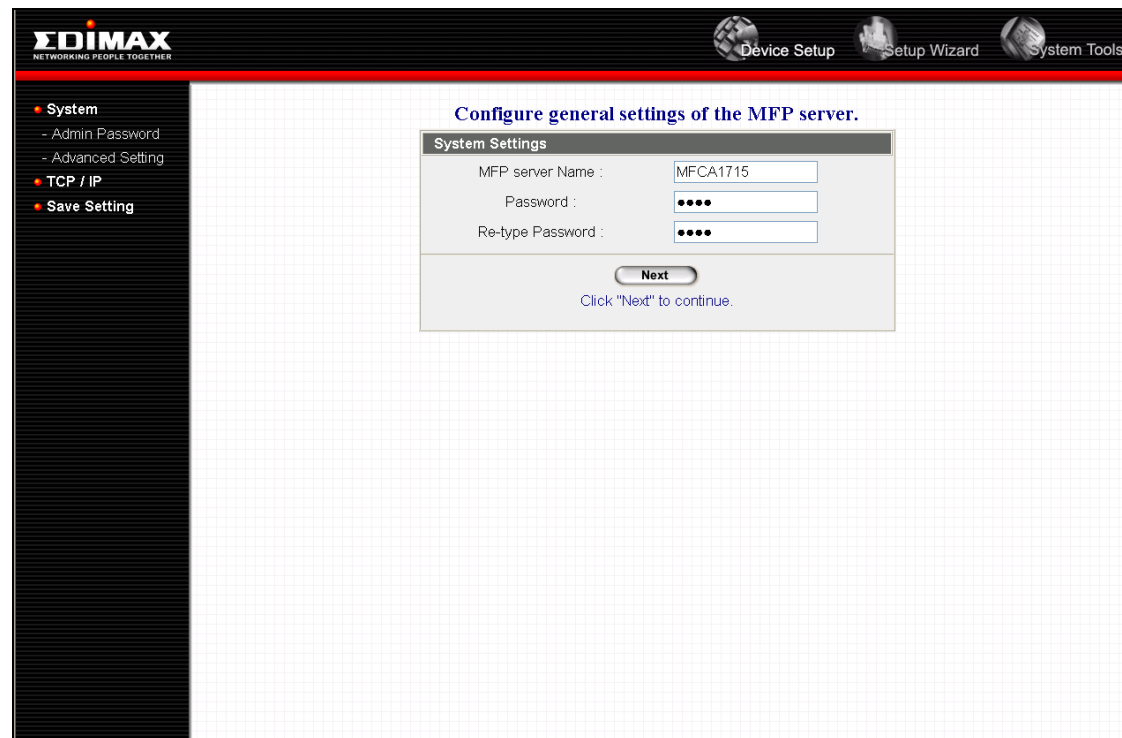
TCP/IP Settings	
Use DHCP/BOOTP :	Off
IP Address :	192.168.2.2
Subnet Mask :	255.255.255.0
Gateway :	0.0.0.0

This page lists all TCP/IP settings of the MFP Server including “IP Address”, “Subnet Mask” and “Gateway”. It also can tell the DHCP server is “On” or “Off”.

## 8.4 Setup Wizard

**Note:** You can configure the MFP Server from the Setup Wizard. To apply the changes, you have to click “Save Settings” in the menu at the left side to restart the MFP Server.

### 8.4.1 System



The screenshot shows the EDIMAX Setup Wizard interface. The top navigation bar includes 'Device Setup', 'Setup Wizard' (active), and 'System Tools'. The left sidebar menu lists 'System' (selected), 'Admin Password', 'Advanced Setting', 'TCP / IP', and 'Save Setting'. The main content area is titled 'Configure general settings of the MFP server.' and contains a 'System Settings' form. The form has three input fields: 'MFP server Name' with the value 'MFCA1715', 'Password' with four dots, and 'Re-type Password' with four dots. A 'Next' button is at the bottom of the form, with a note 'Click "Next" to continue.'

You can change the MFP Server name and password of the MFP Server here.

**MFP Server Name**, the name of the MFP Server. You can use this name to identify the MFP Server when you search for the MFP Server by the “Server Manager” utilities.

**Password**, enter the password you want to change to the MFP Server. The password can be up to 7-digit alphanumeric format. The default password is “1234”.

**Re-types Password**, enter the same password for the MFP Server again.

### 8.4.1.1 Advanced Settings



Some advanced feature of the MFP Server can be set here.

**TCP/IP Printing:** This MFP Server supports TCP/IP network protocol and LPR/IPP/RAW printing protocols. By default these protocols are enabled.

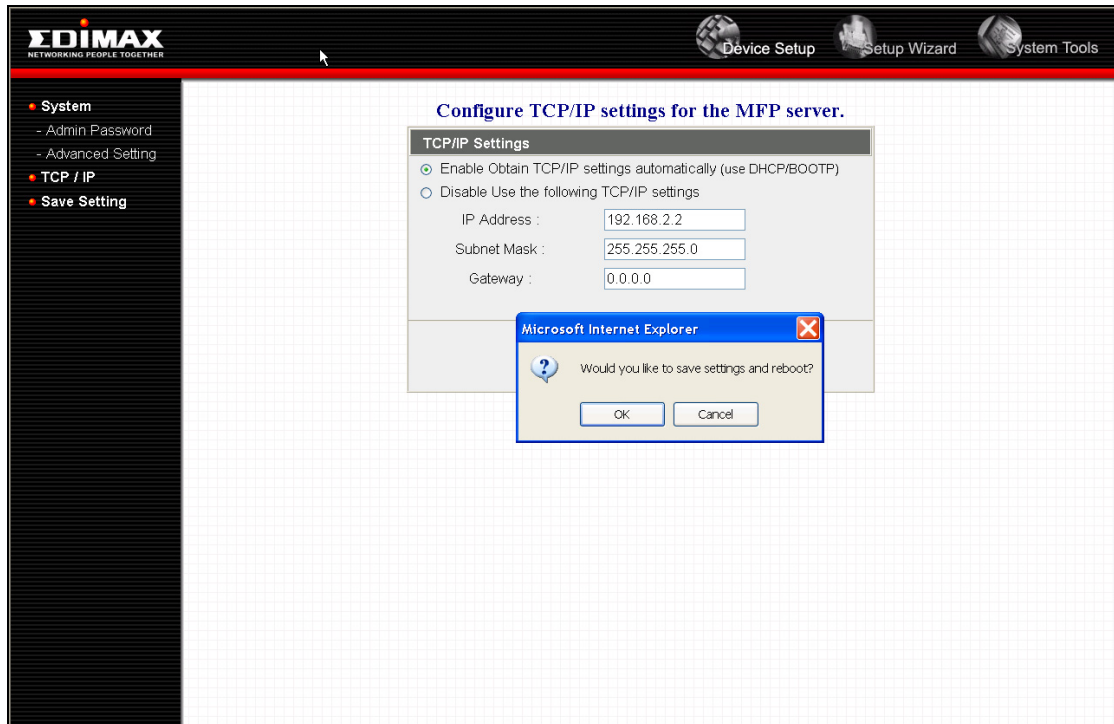
## 8.4.2 TCP/IP

The screenshot shows the EDIMAX web interface. On the left is a dark sidebar with a menu containing 'System', 'Admin Password', 'Advanced Setting', 'TCP / IP' (highlighted), and 'Save Setting'. The top of the interface has the EDIMAX logo and navigation icons for 'Device Setup', 'Setup Wizard', and 'System Tools'. The main content area displays a dialog box titled 'Configure TCP/IP settings for the MFP server.' with a sub-header 'TCP/IP Settings'. Inside the dialog, there are two radio button options: 'Enable Obtain TCP/IP settings automatically (use DHCP/BOOTP)' (which is selected) and 'Disable Use the following TCP/IP settings'. Below these options are three input fields: 'IP Address' with the value '192.168.2.2', 'Subnet Mask' with '255.255.255.0', and 'Gateway' with '0.0.0.0'. At the bottom of the dialog is a 'Next' button and a text prompt 'Click "Next" to continue.'

You can configure the MFP Server to get IP automatically from DHCP server or setup an static IP manually.

If you need the MFP Server to automatically get an IP from DHCP server, select “Enable Obtain TCP/IP Settings Automatically (Use DHCP/ BOOTP)”. You also can select “Disable Use the following TCP/IP Settings” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the MFP Server.

## 8.4.3 Save Settings

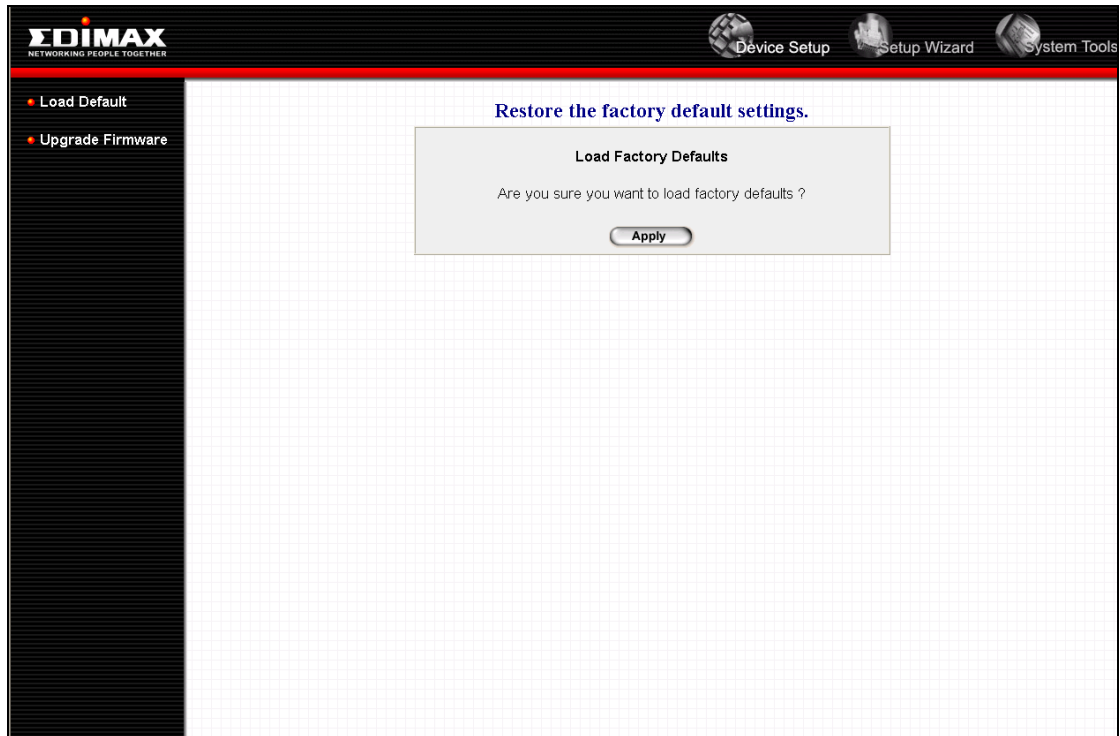


After configuring the MFP Server, you have to click the “Save Settings” to save the settings and restart the system.



## 8.5 System Tools

### 8.5.1 Load Default



You can use this page to restore the factory default settings. All of your previous setup will be reset.

## 8.5.2 Upgrade Firmware



You can upgrade the latest firmware for this MFP Server in this page. Click “Browse” to select the firmware in your storage and then click “OK”, the firmware will be updated in several minutes.

Be aware that if you have started upgrading firmware, you have to follow all the upgrading steps. Otherwise the MFP Server will not operate normally.

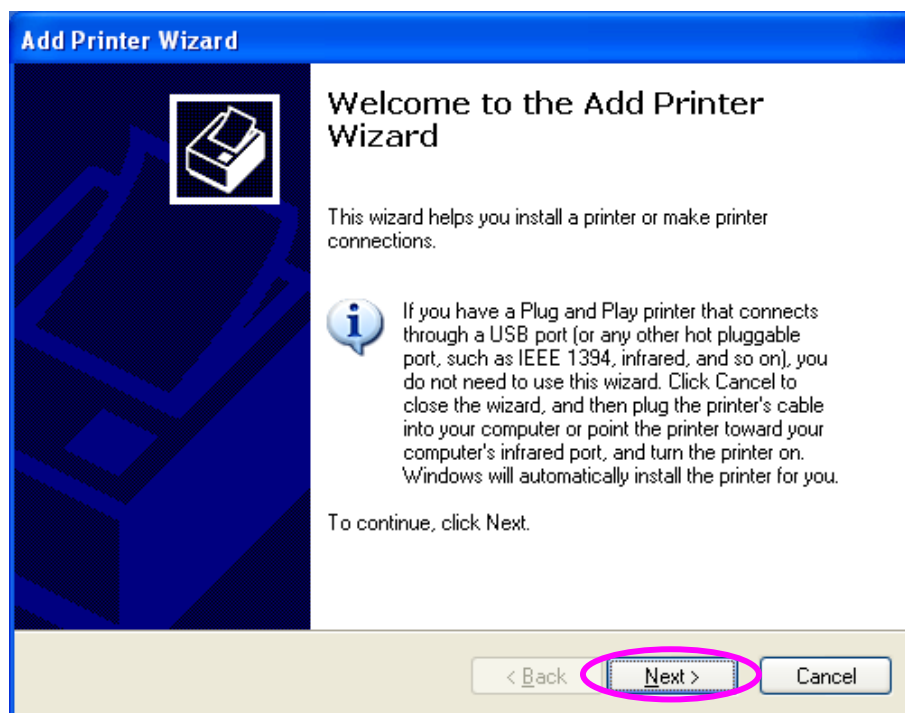
## 9. LPR Printing

LPR Printing (Line Printer Remote technology) allows users to connect to MFPs or printers via TCP/IP for printing sharing. The computer with Windows 98SE/Me/NT/2000/XP/2003 operating system can use the protocol to share printing in the network. MFP Server can support LPR printing by default.

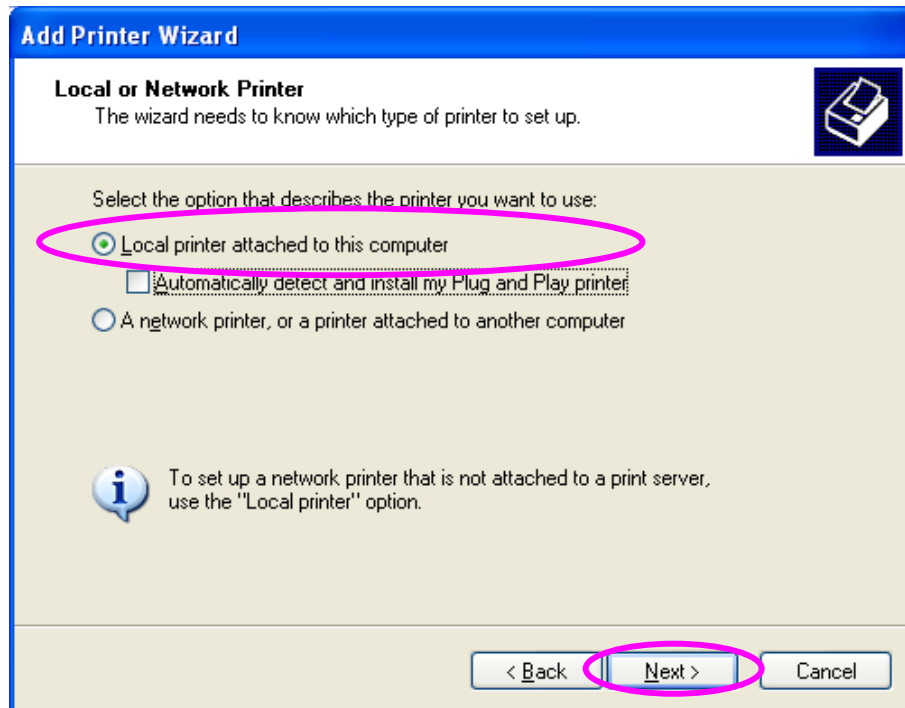
If you install the MFP Server in Windows 98SE/Me/NT, the MFP Server provides a tool “Network Port Setup” that helps to add the LPR protocol to users’ computer easily. Please refer to Chapter 10.

To configure the LPR setting in Windows 2000/XP/2003, please follow the steps below.

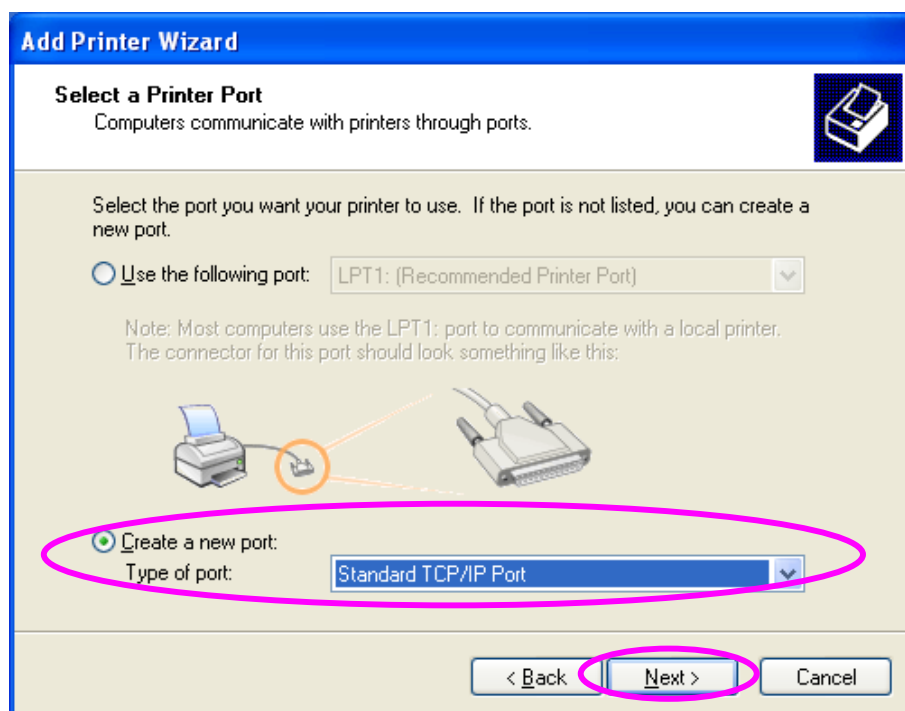
1. Click “Start”, choose “Settings” and select “Printers and Faxes”.
2. Click “Add a Printer”.
3. The “Add Printer Wizard” is displayed. Click “Next”.



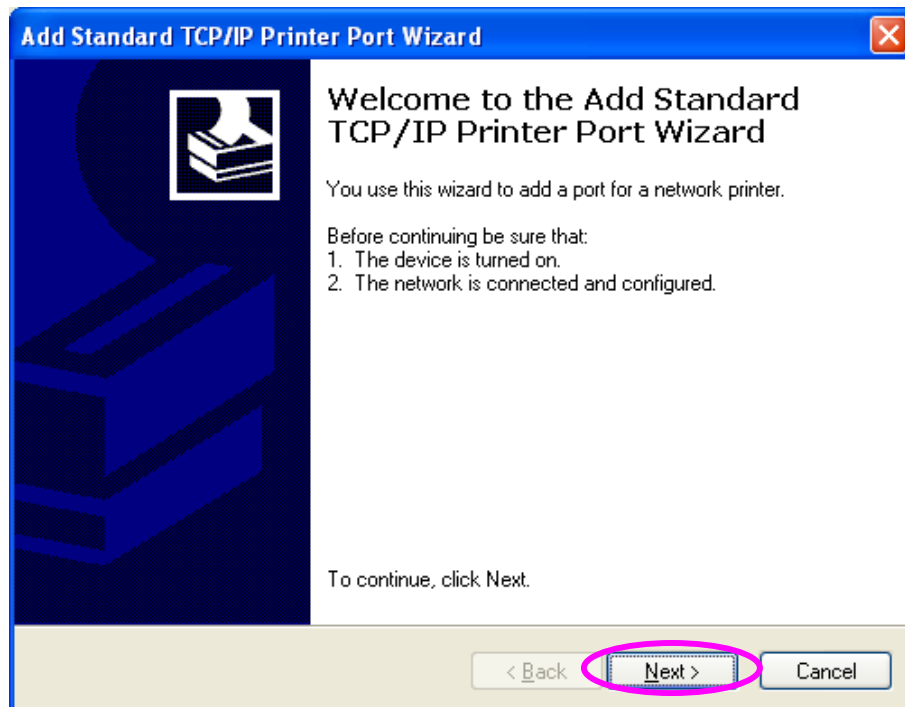
4. Select "Local Printer attached to this computer" and click "Next".



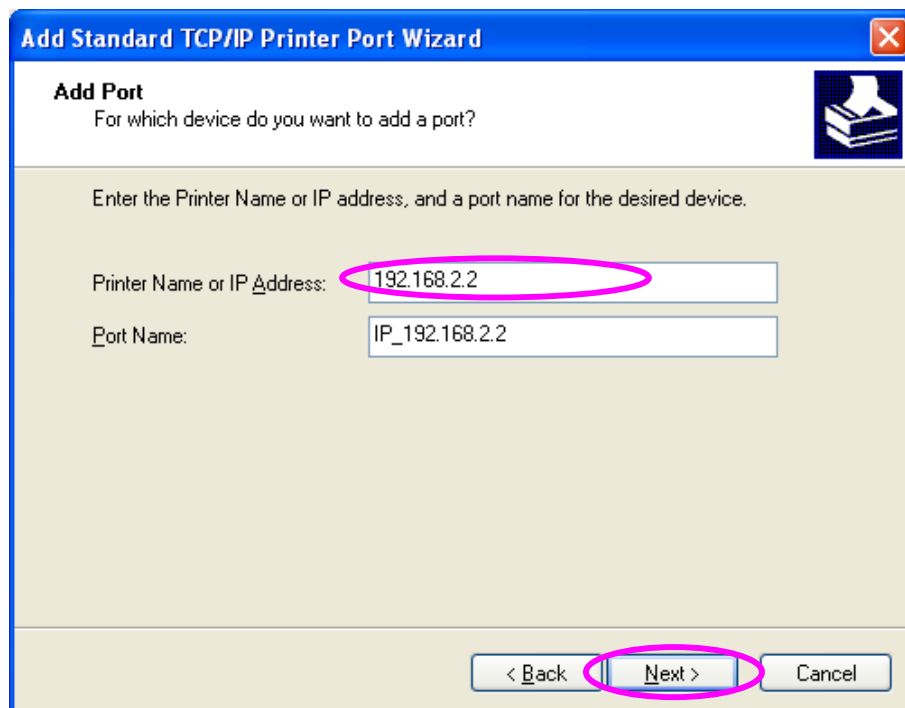
5. Choose "Create a new port" and "Standard TCP/IP Port". Click "Next".



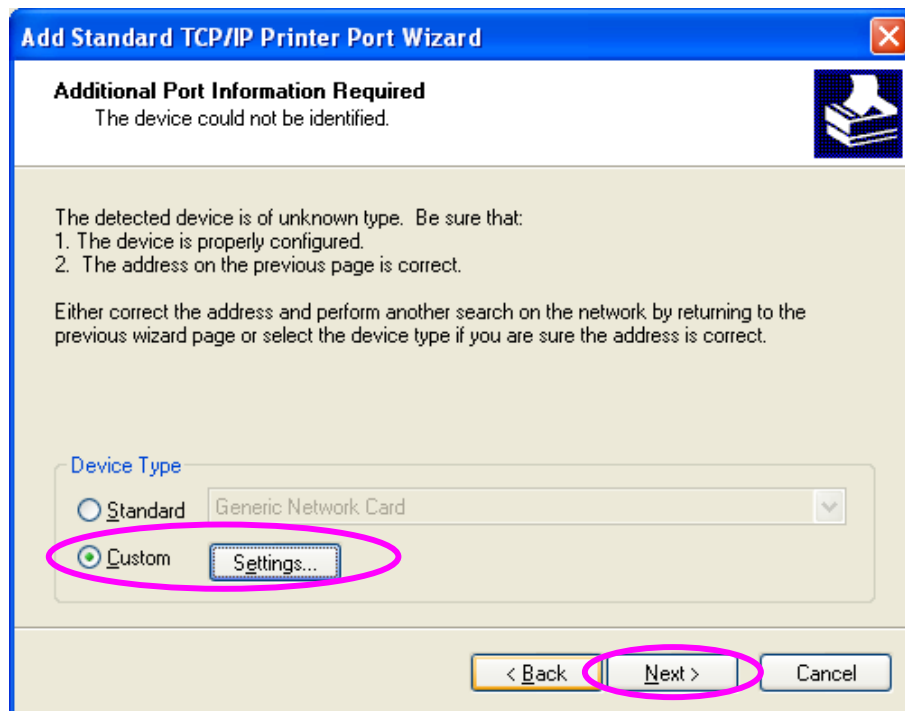
6. Please make sure that the MFP Server and the MFP or Printer have turned on and connected to the network correctly before you continue. Click “Next”.



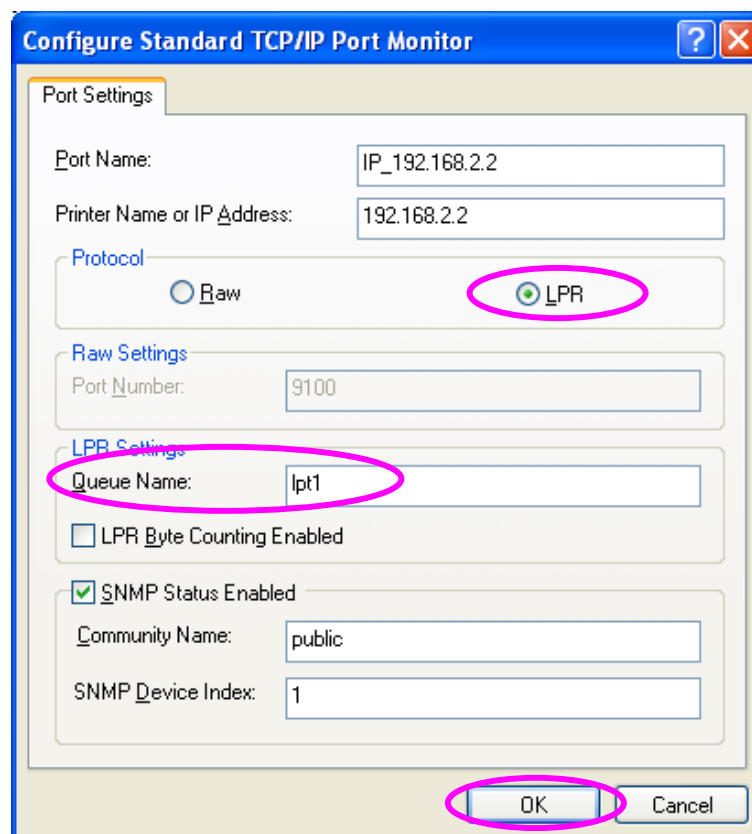
7. Enter the IP Address of the MFP Server in the “Printer Name or IP Address”. Click “Next”.



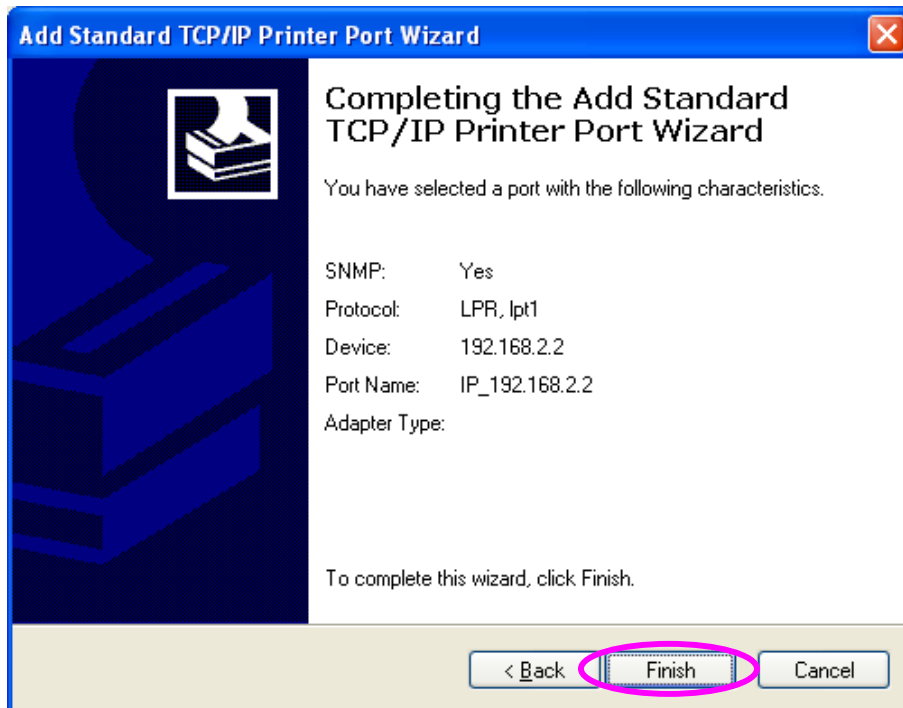
8. Select “Custom” and click “Settings”. When you finish the settings at step 9, click “Next” to continue.



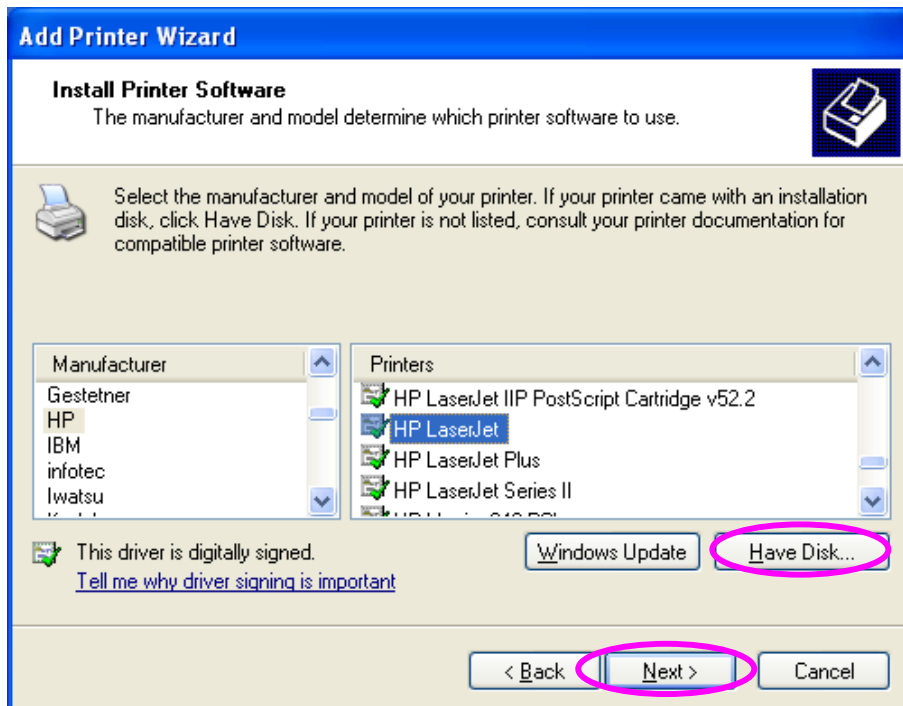
9. Select “LPR” and enter “lpt1” in the “Queue Name”, click “OK”. By default the queue name of the MFP Server is “lpt1”.



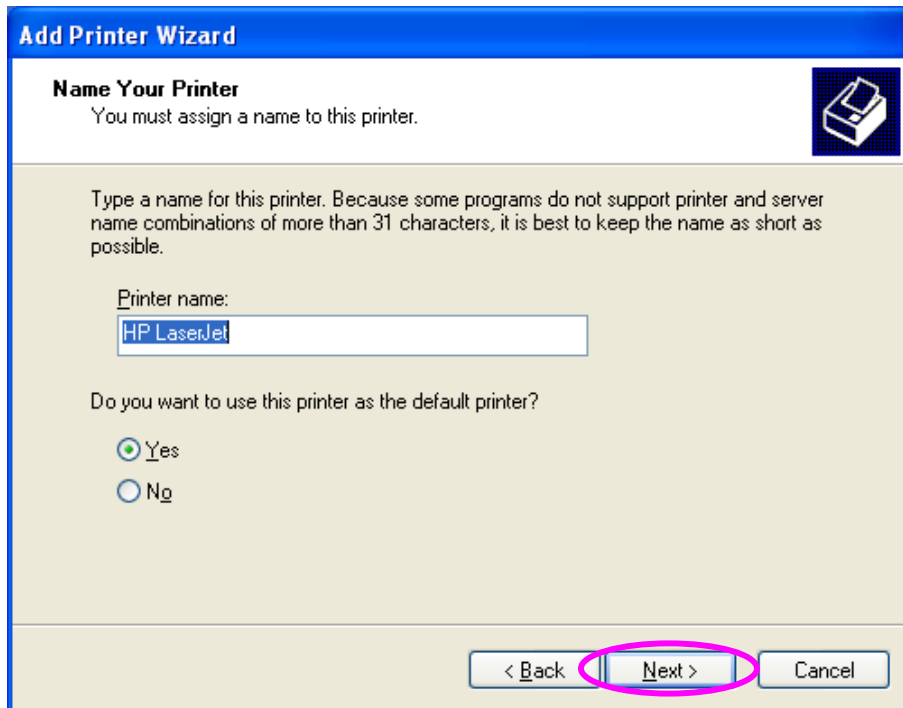
10. Click “Finish”.



11. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk...” to install the driver of the printer. After installation, the printer model will be added to the list.



12. Choose to set the print as a default printer or not. Click “Next”.



The screenshot shows the 'Add Printer Wizard' window with the title 'Add Printer Wizard'. The main heading is 'Name Your Printer' with a subtext 'You must assign a name to this printer.' and a printer icon. Below this, it says '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.' A text box labeled 'Printer name:' contains 'HP LaserJet'. Below the text box, it asks 'Do you want to use this printer as the default printer?' with two radio buttons: 'Yes' (selected) and 'No'. At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a pink oval), and 'Cancel'.

**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.

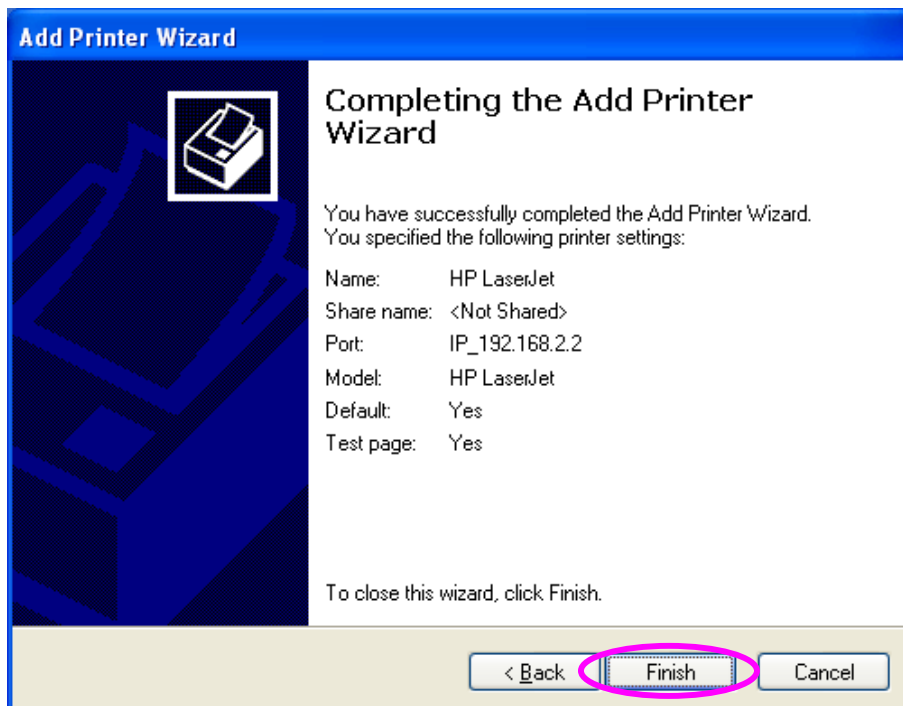
Printer name:  
HP LaserJet

Do you want to use this printer as the default printer?

☒ Yes  
☐ No

< Back   **Next >**   Cancel

13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click “Finish”.



The screenshot shows the 'Add Printer Wizard' window with the title 'Add Printer Wizard'. The main heading is 'Completing the Add Printer Wizard' with a printer icon. Below this, it says 'You have successfully completed the Add Printer Wizard. You specified the following printer settings:'. A list of settings is shown: Name: HP LaserJet, Share name: <Not Shared>, Port: IP\_192.168.2.2, Model: HP LaserJet, Default: Yes, Test page: Yes. At the bottom, it says 'To close this wizard, click Finish.' and there are three buttons: '< Back', 'Finish' (highlighted with a pink oval), and 'Cancel'.

**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  
Share name: <Not Shared>  
Port: IP\_192.168.2.2  
Model: HP LaserJet  
Default: Yes  
Test page: Yes

To close this wizard, click Finish.

< Back   **Finish**   Cancel

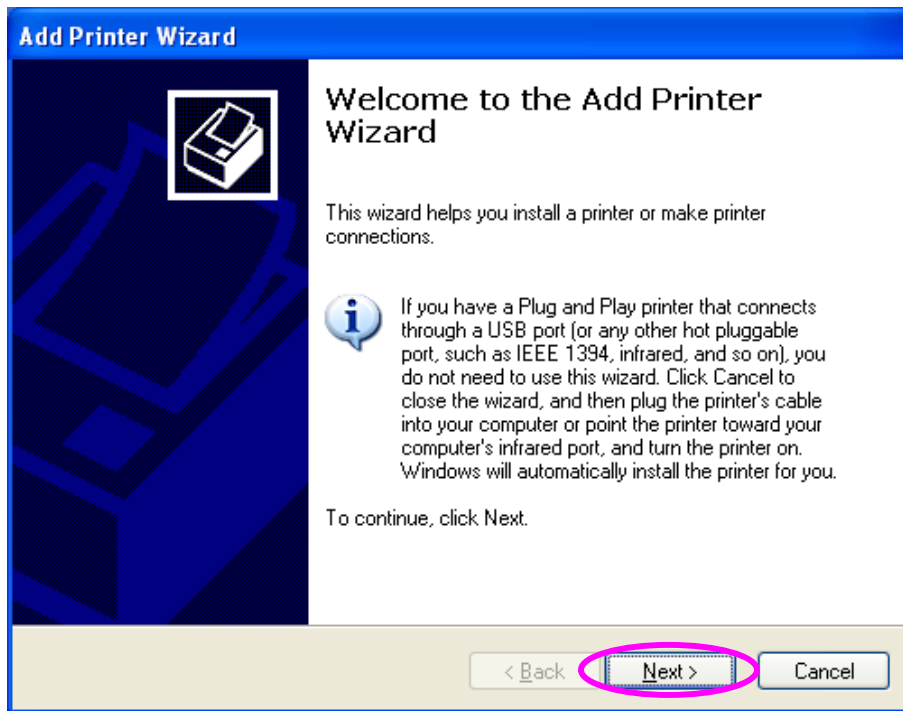


# 10.RAW Printing

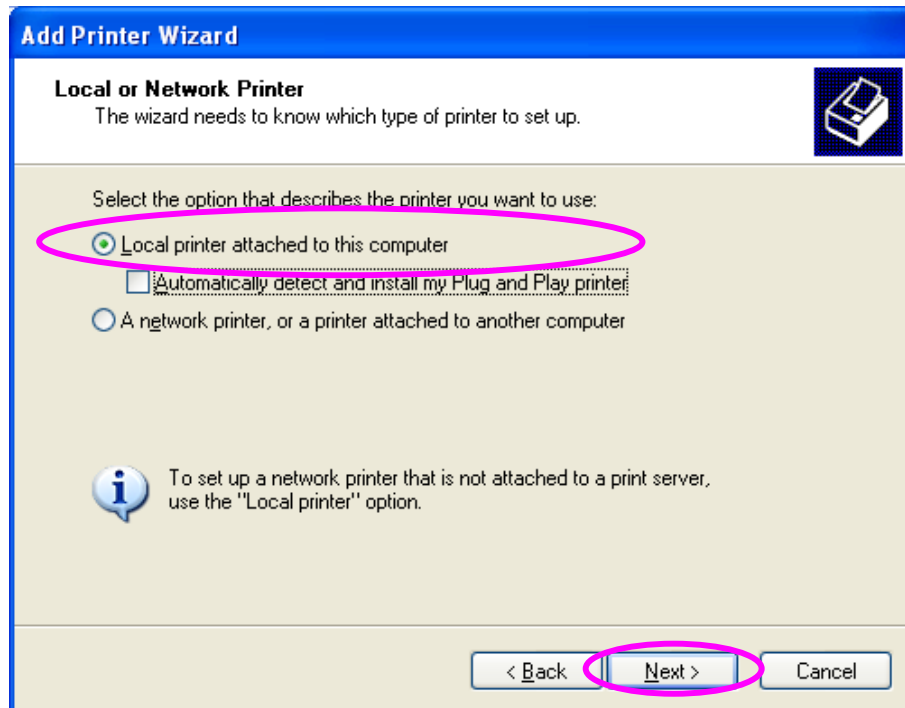
RAW Printing allows users to connect to MFPs or printers via TCP/IP for printing sharing. The computer with Windows 2000/XP/2003 operating system can use the protocol to share printing in the network. MFP Server can support RAW printing by default.

To configure the RAW setting in Windows 2000/XP/2003, please follow the steps below.

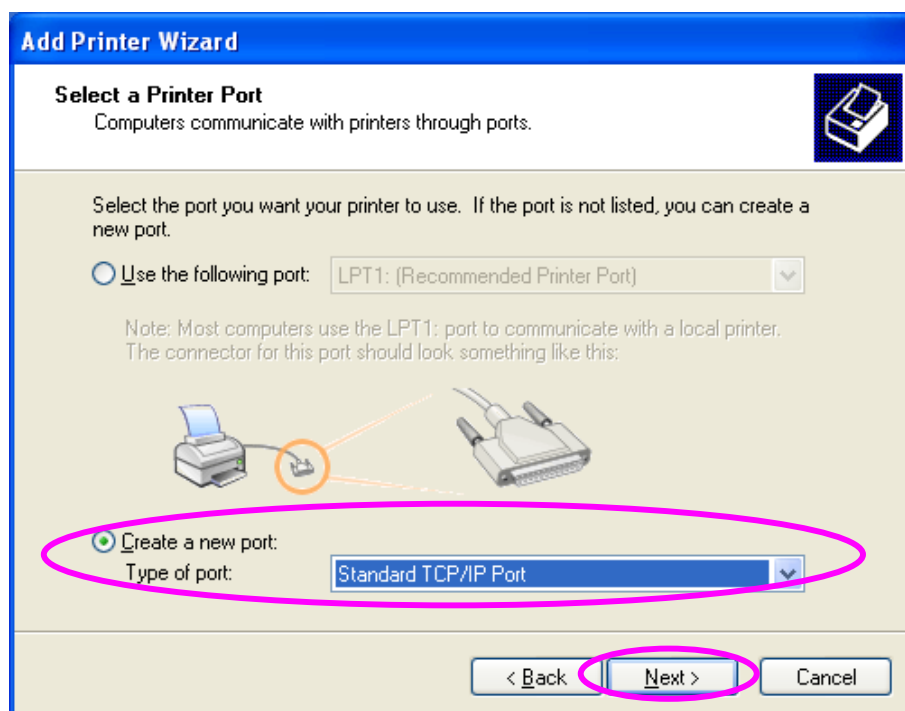
1. Click “Start”, choose “Settings” and select “Printers and Faxes”.
2. Click “Add a Printer”.
3. The “Add Printer Wizard” is displayed. Click “Next”.



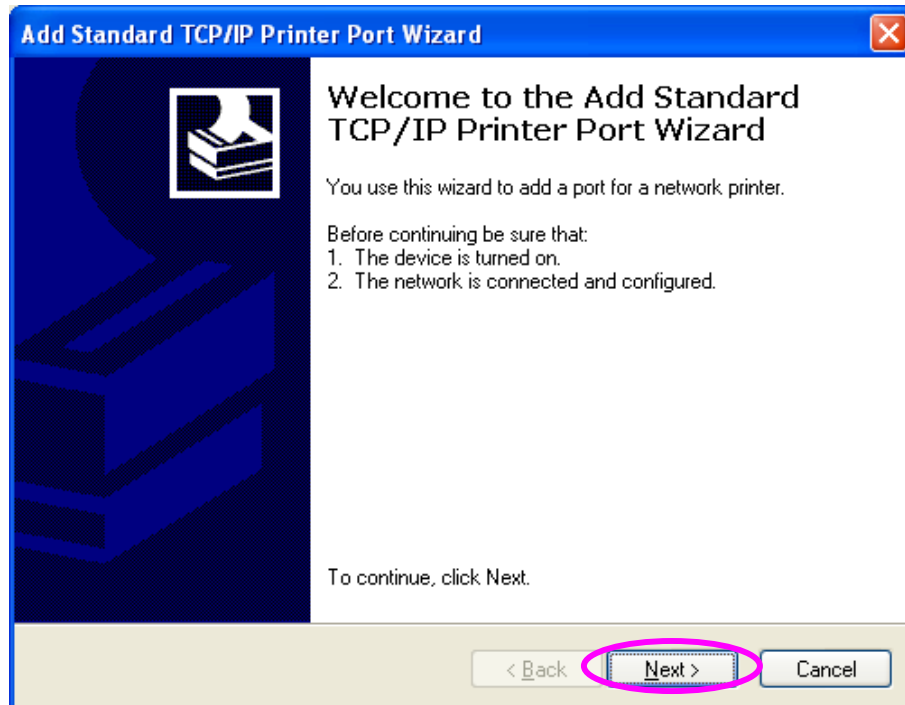
4. Select "Local Printer attached to this computer" and click "Next".



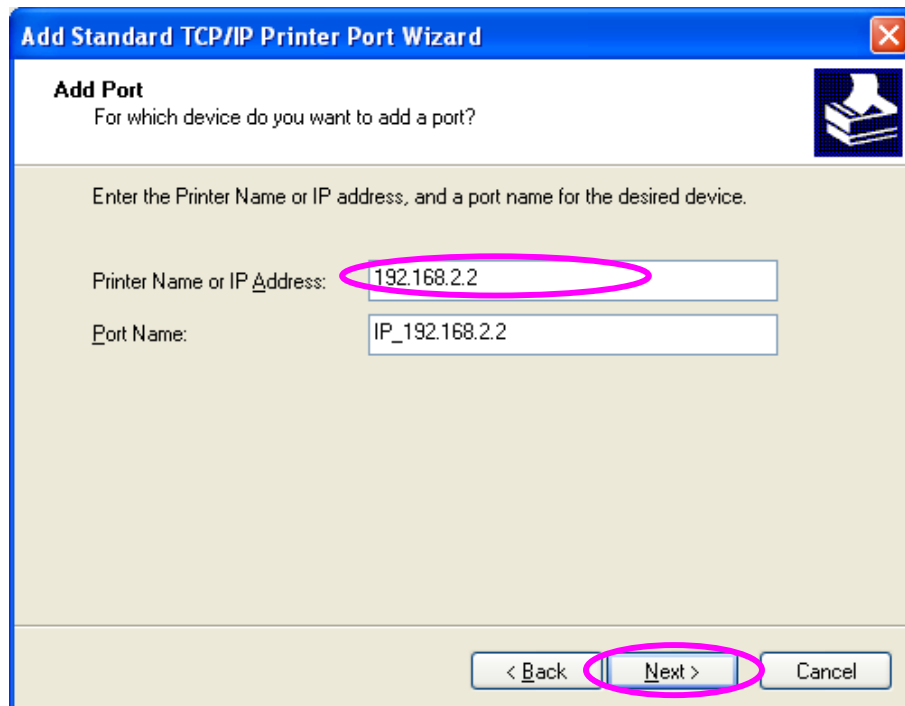
5. Choose "Create a new port" and "Standard TCP/IP Port". Click "Next".



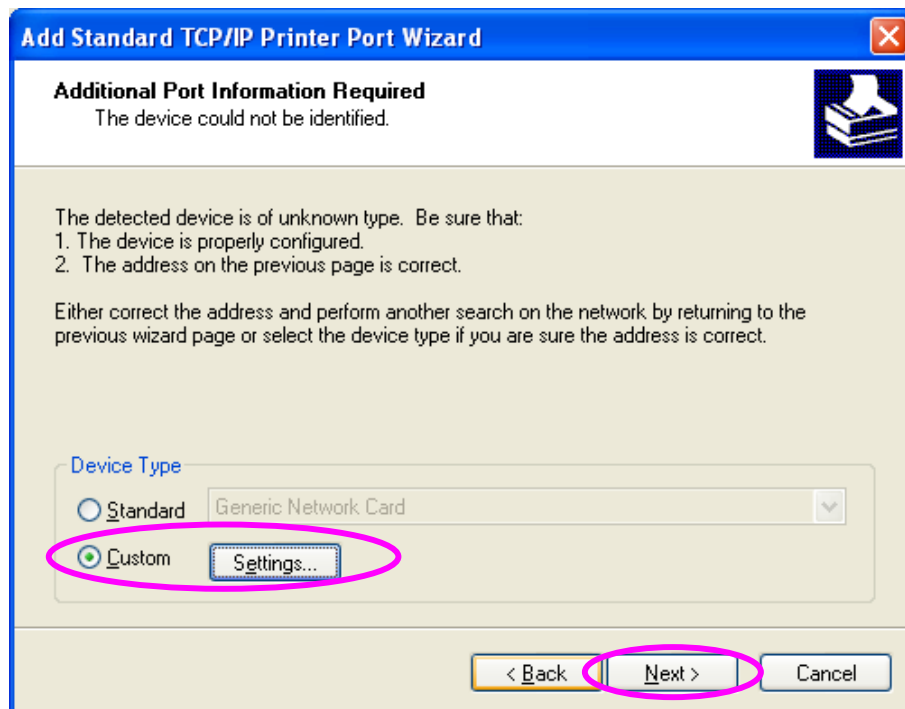
6. Please make sure that the MFP Server and the MFP or Printer have turned on and connected to the network correctly before you continue. Click “Next”.



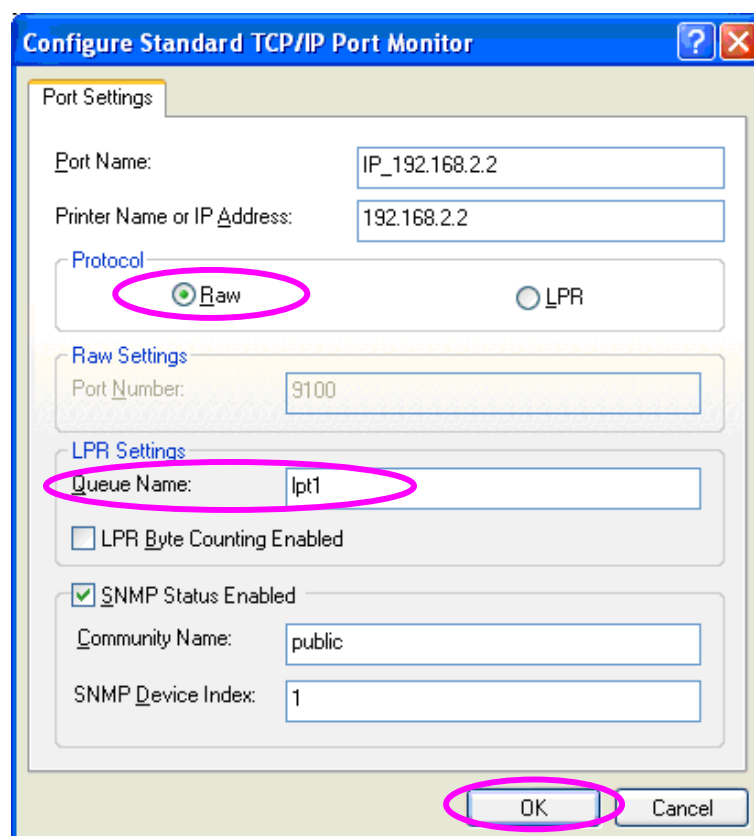
7. Enter the IP Address of the MFP Server in the “Printer Name or IP Address”. Click “Next”.



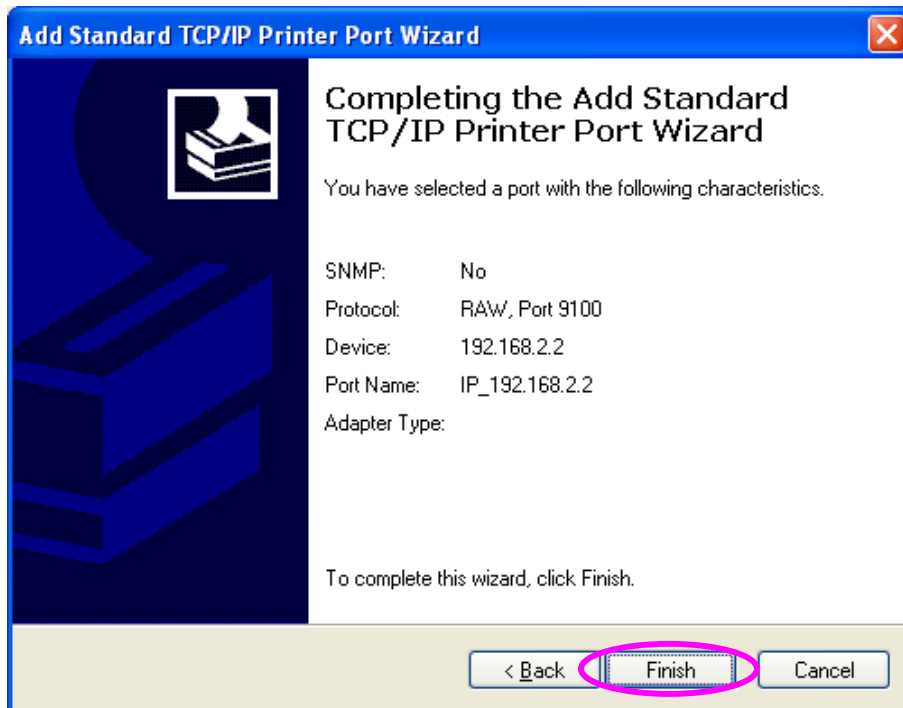
8. Select “Custom” and click “Settings”. When you finish the settings at step 9, click “Next” to continue.



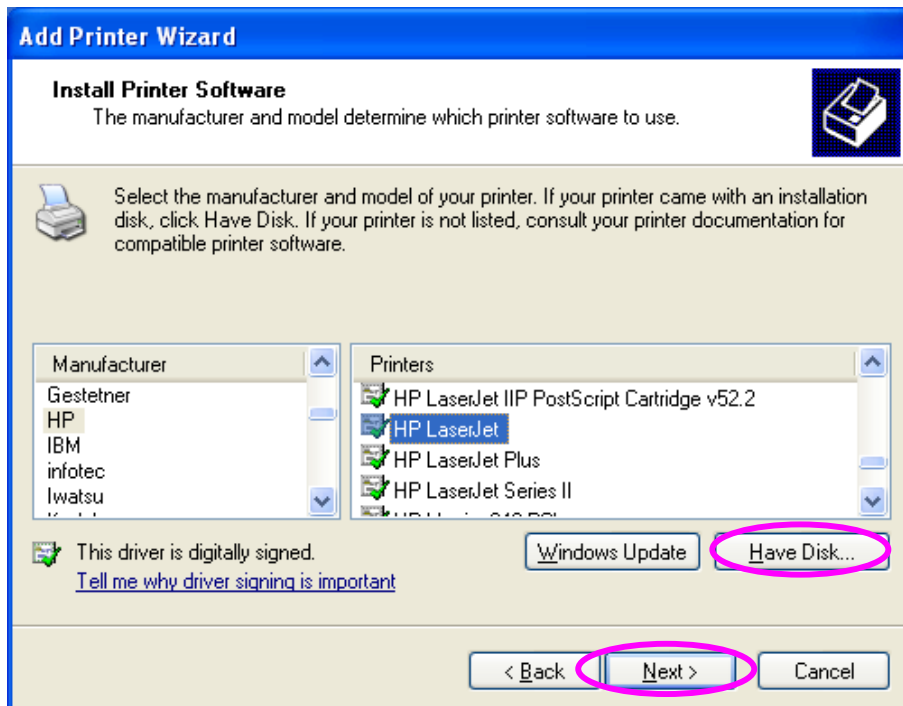
9. Select “RAW” and enter “lpt1” in the “Queue Name”, click “OK”. By default the queue name of the MFP Server is “lpt1”.



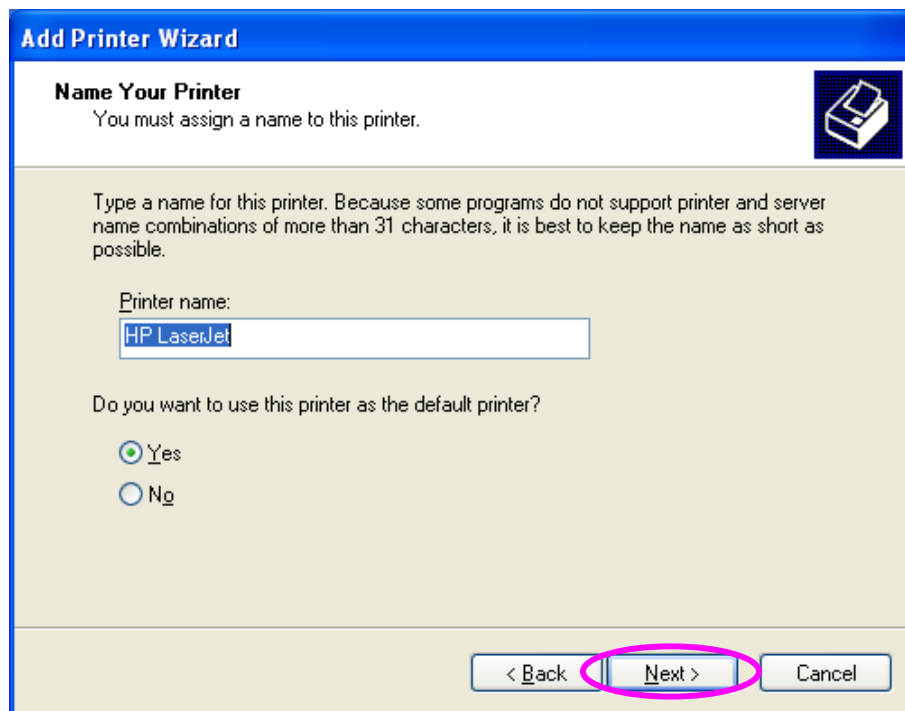
10. Click “Finish”.



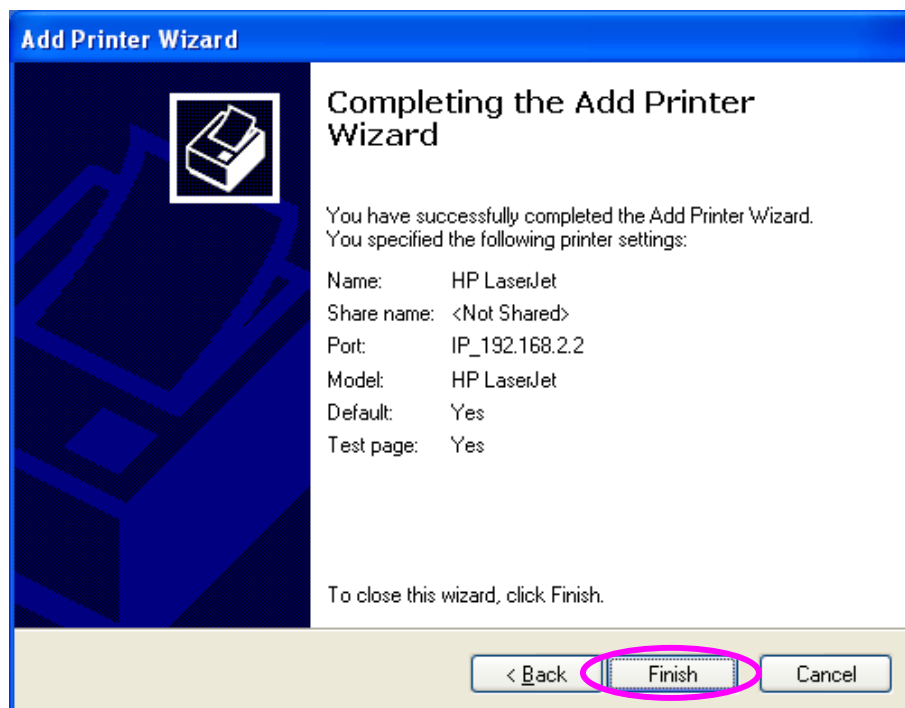
11. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk...” to install the driver of the printer. After installation, the printer model will be added to the list.



12. Choose to set the print as a default printer or not. Click “Next”.



13. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click “Finish”.



# 11. IPP Printing

## 11.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The MFP Server can support IPP printing in Windows 2000/XP/2003 by default. By using the IPP printing, you can share the printer to all the PC's that can access the MFP Server by IP. You can even share your MFP or printer to Internet users.

## 11.2 System Setup

### 11.2.1 MFP Server Side

It is needless to do any setting on the MFP Server side. Make sure the MFP Server has correct IP settings. If you want to share the printers to Internet users, you have to set a public IP to the MFP Server. You also have to make sure that any gateway, router or firewall does not block IPP protocol if you have these gateway devices installed in your network.

### 11.2.2 Client Side

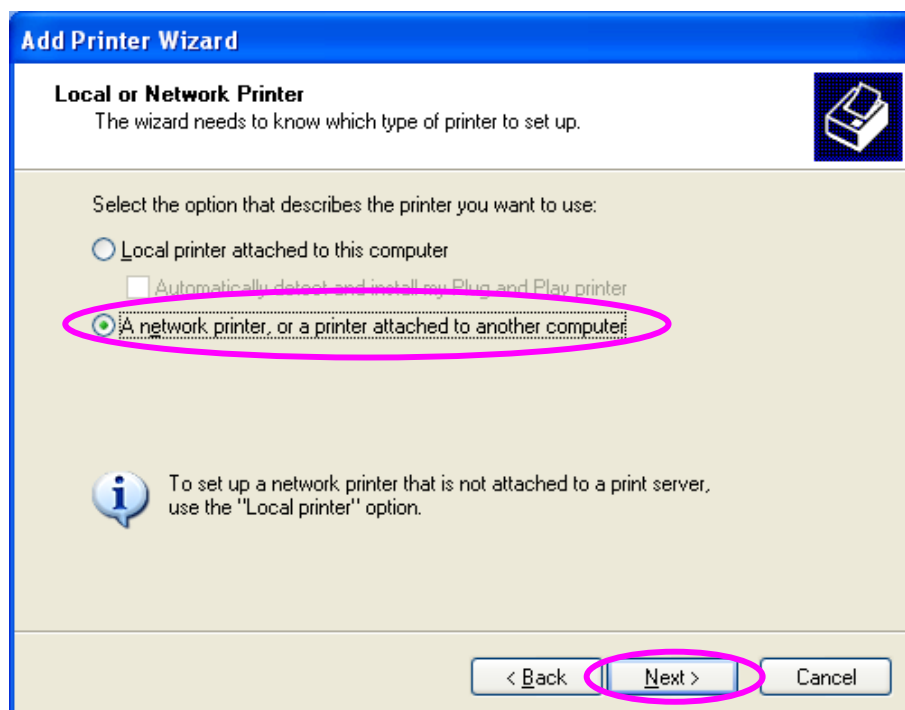
You only need to perform Window's standard **Add New Printer** procedure.

1. Click "Start", choose "Settings" and select "Printers and Faxes".
2. Click "Add a Printer".

3. The "Add Printer Wizard" is displayed. Click "Next".

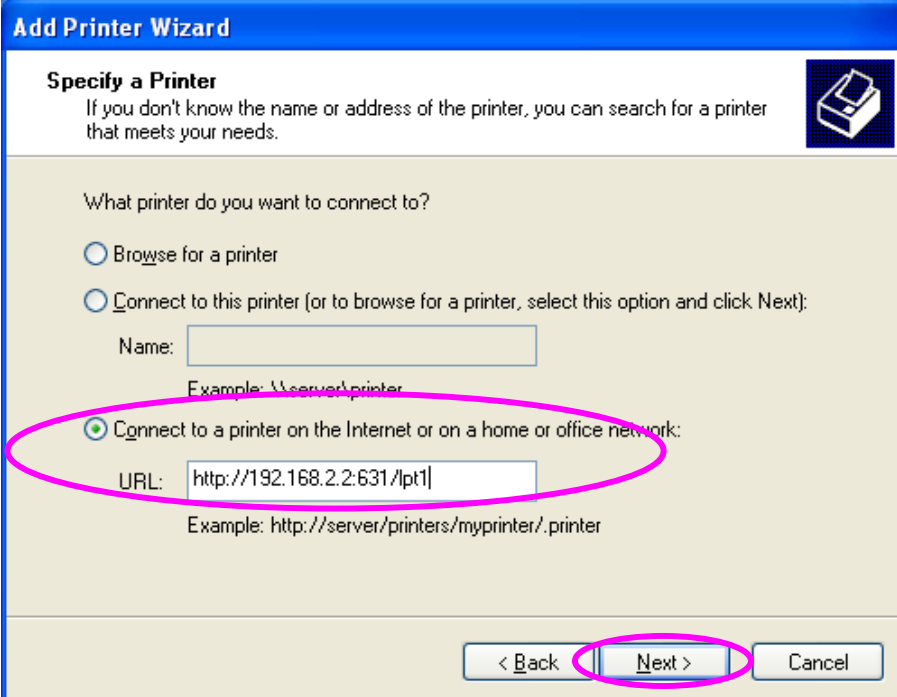


4. Select "A network printer, or a printer attached to another computer". Click "Next".





5. Select “Connect to a printer on the Internet or on a home or office network” and enter the URL of MFP Server. The URL format is “http://IP:631/Port Name”. The IP should be the MFP Server’s IP. The number 631 is IPP standard port number. Port Name is the port name of MFP Server that your printer is connected to. The default port name is “lpt1”. One example of the URL is http://192.168.2.2:631/lpt1. After entering the URL of MFP Server, click “Next”.



**Add Printer Wizard**

**Specify a Printer**  
If you don't know the name or address of the printer, you can search for a printer that meets your needs.

What printer do you want to connect to?

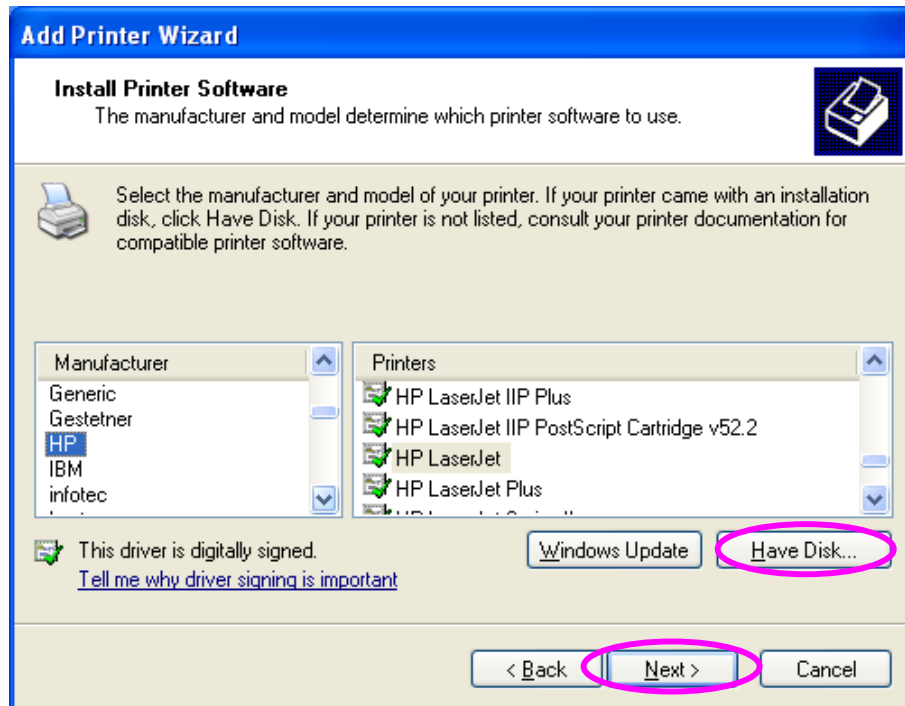
☐ Browse for a printer

☐ Connect to this printer (or to browse for a printer, select this option and click Next):  
Name:   
Example: \\server\printer

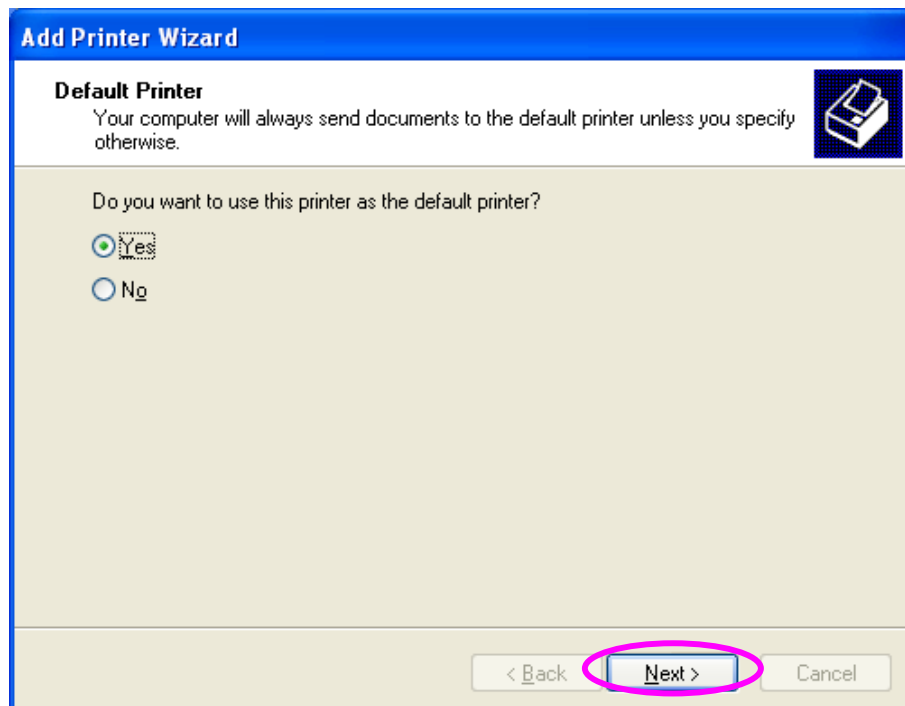
☒ Connect to a printer on the Internet or on a home or office network:  
URL:   
Example: http://server/printers/myprinter/.printer

< Back   **Next >**   Cancel

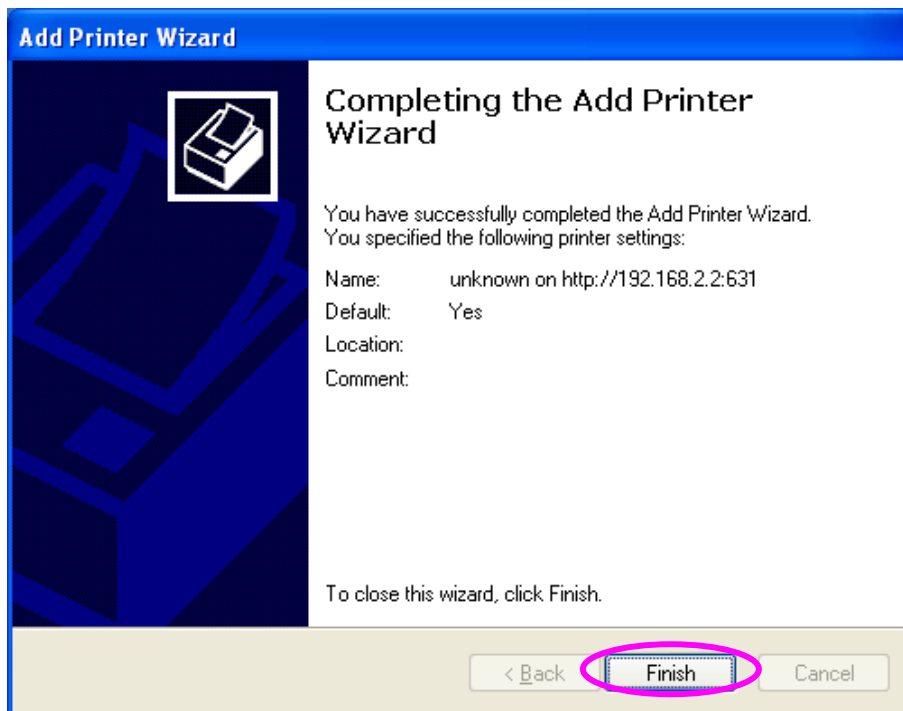
6. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk...” to install the driver of the printer. After installation, the printer model will be added to the list.



7. Choose to set the print as a default printer or not. Click “Next”.



8. You have added the network printer to the PC successfully. The information of the printer is displayed in the windows. Click “Finish”.



# **12.MFP Server Installation in Windows**

## **98SE/Me/NT**

This MFP Server supports TCP/IP network protocol and IPP, RAW and LPR printing protocols, it can be a print server when you operate it in Windows 98SE/Me/NT/2000/XP/2003, Unix/Linux and MAC OS. The IPP and RAW printing protocols can be used in Windows 2000/XP/2003. The LPR printing protocol can be used in Windows 98SE/Me/NT/2000/XP/2003, Unix/Linux and MAC OS. For the LPR, RAW and IPP settings in Windows 2000/XP/2003, please refer to Chapter 9, 10 and 11.

This chapter will introduce you how to install the MFP Server as a print server in Windows 98SE/Me/NT.

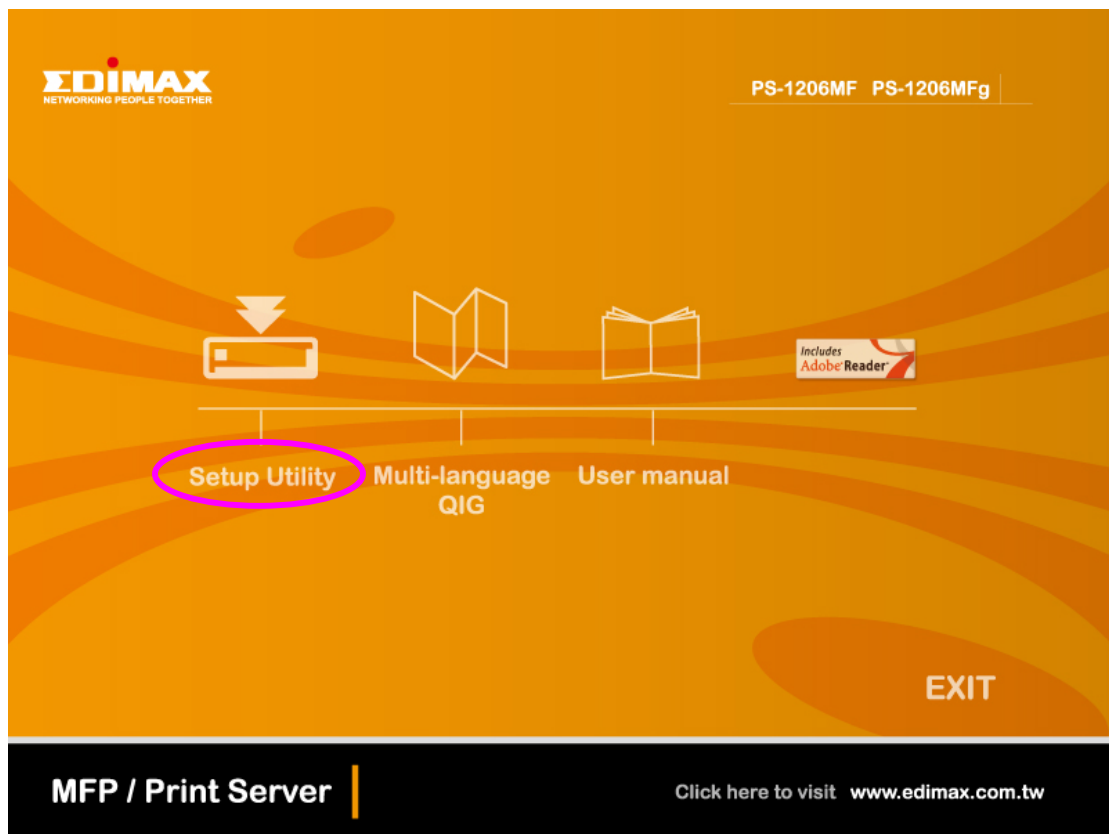
Before you start, you should have:

- One computer with Windows 98SE/Me/NT
- The TCP/IP network protocol has been installed in the PC

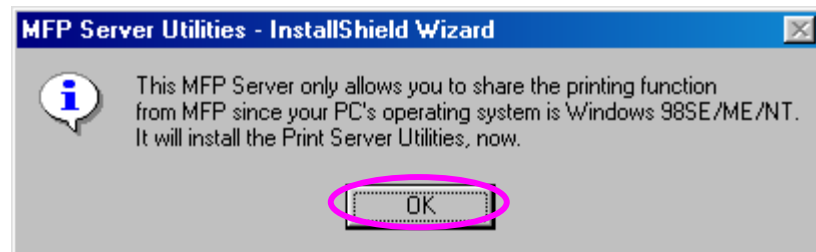
## 12.1 Software Installation Procedure

The following are the installation steps in Windows 98SE. To install MFP Server in Windows Me/NT, the procedures are similar.

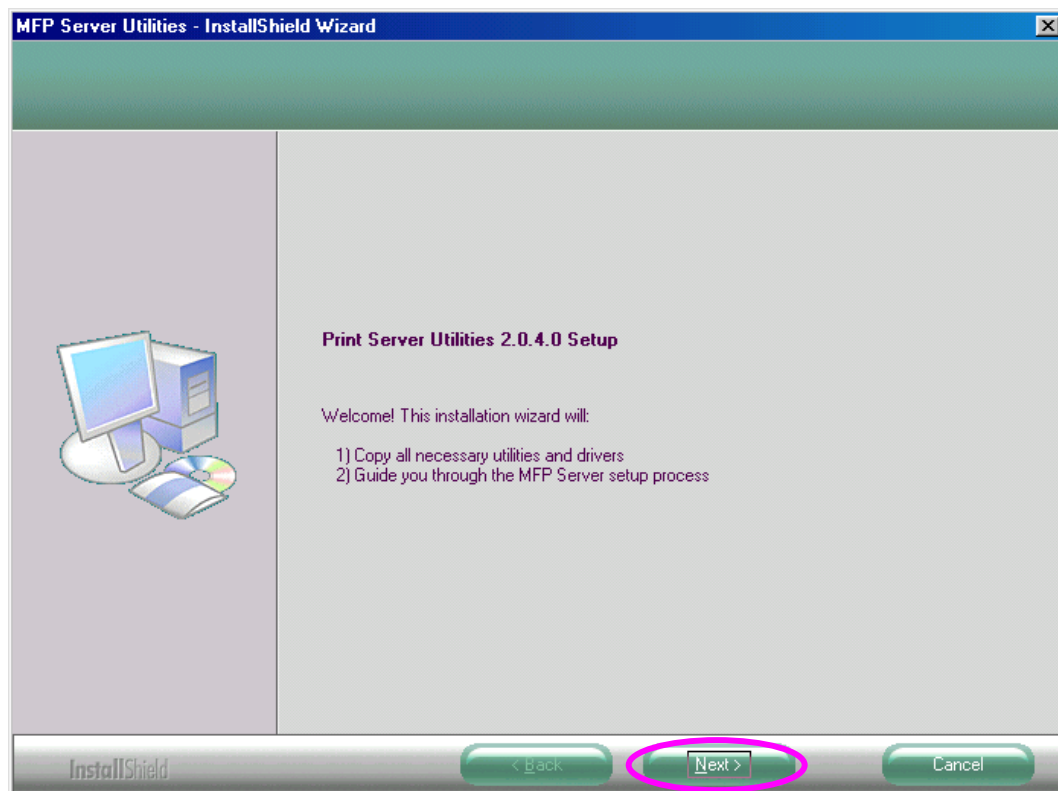
1. Insert the CD shipped along with the MFP server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.
2. The "Installation Manager" will be displayed on the screen as following. Click "Setup Utility".



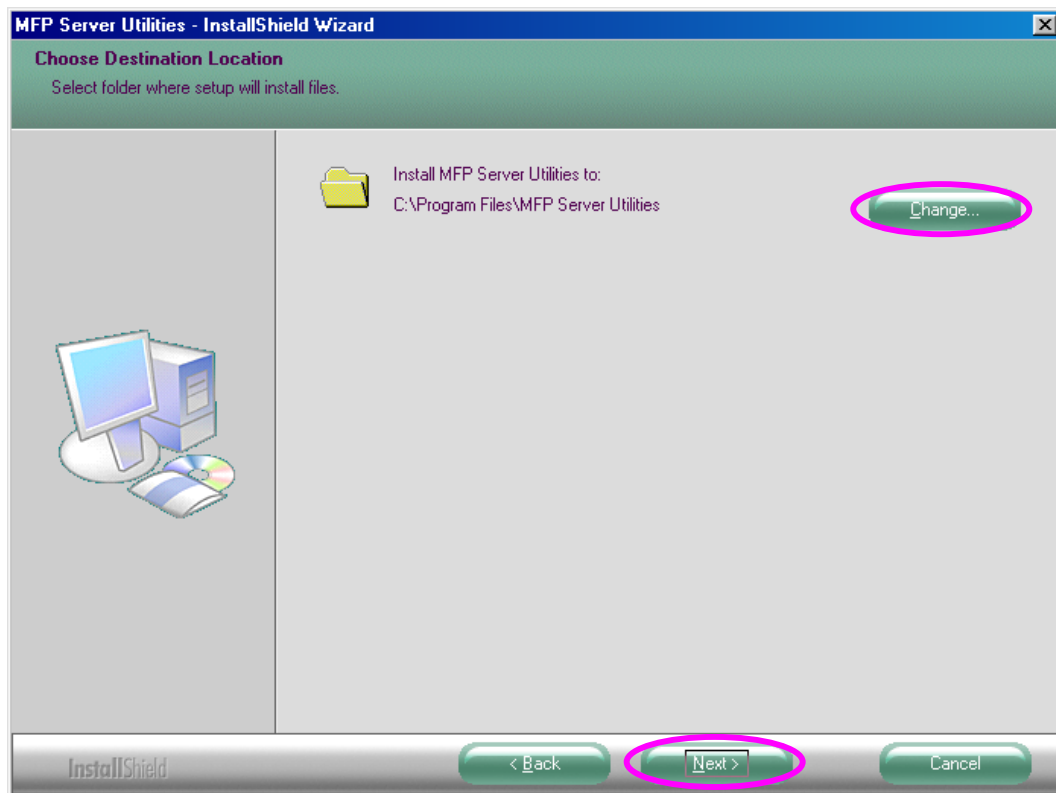
3. The message is prompted to remind you that the MFP Server will only support print sharing function since the operation system of your computer is Windows 98SE/Me/NT. Click “OK”.



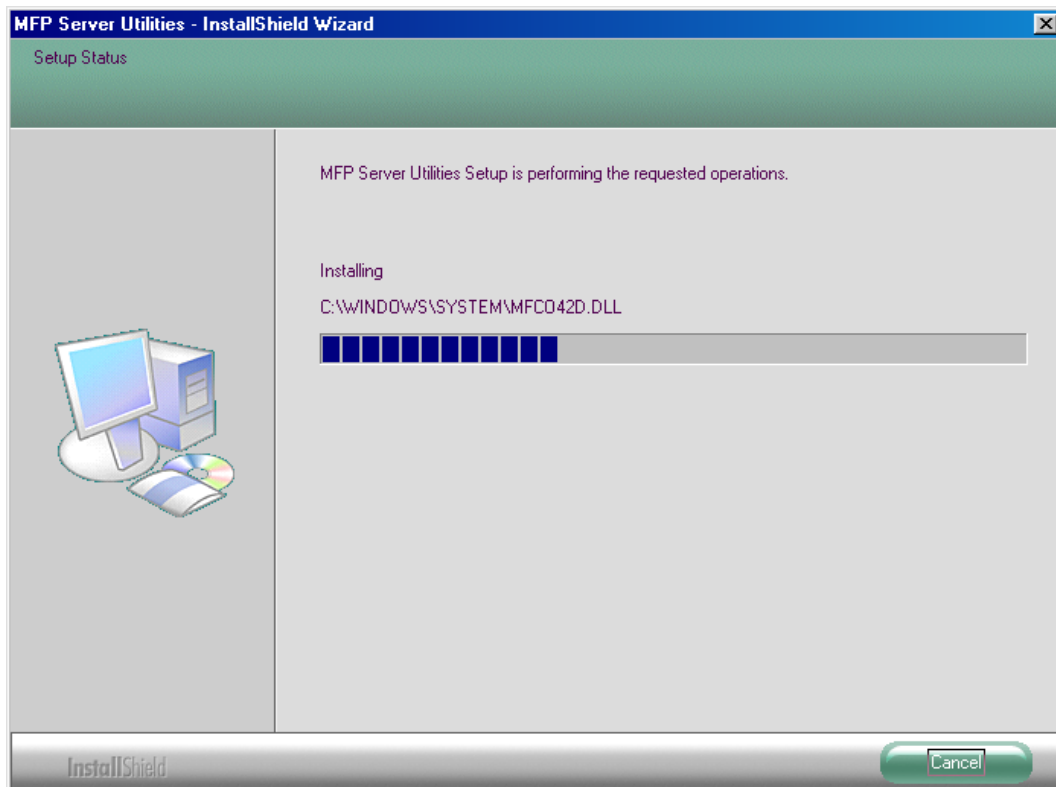
4. The “MFP Server Utilities - InstallShield Wizard ” will be displayed. Click “Next”.



- Click "Next" to install the MFP Server utilities in the default folder or click "Change" to specify the destination folder where you would like to install the MFP Server utilities.

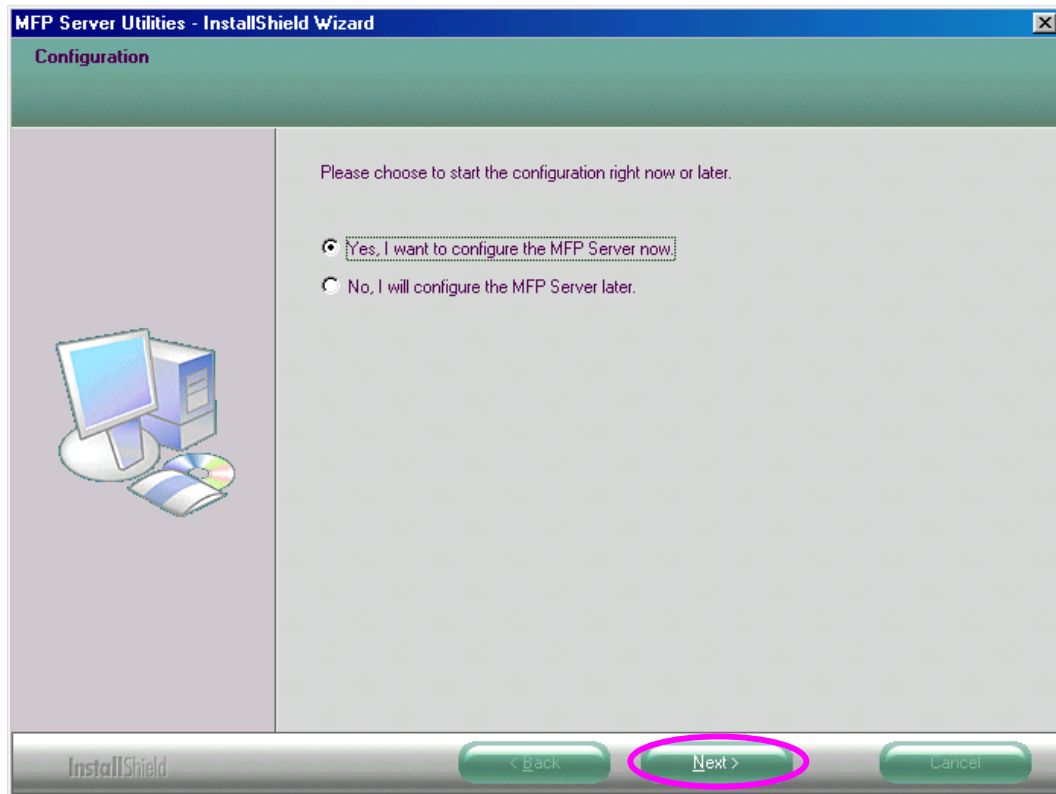


- The MFP Server Utilities are being installed.

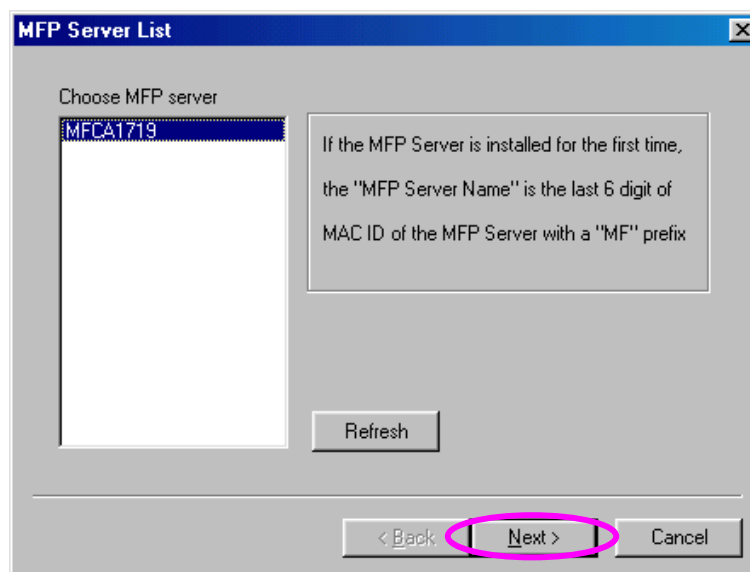


7. The "Configuration" screen is displayed. If you want to configure the MFP Server, please click ""Next" directly. Or you can select "No, I will configure the MFP Server later" and click "Next" to complete the installation.

The following steps are for the MFP Server Configuration.

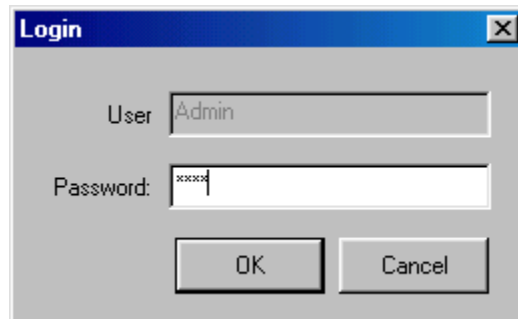


8. The MFP Server List will auto search the MFP Servers in the network. Select the MFP Server you want to setup and click "Next" to continue.



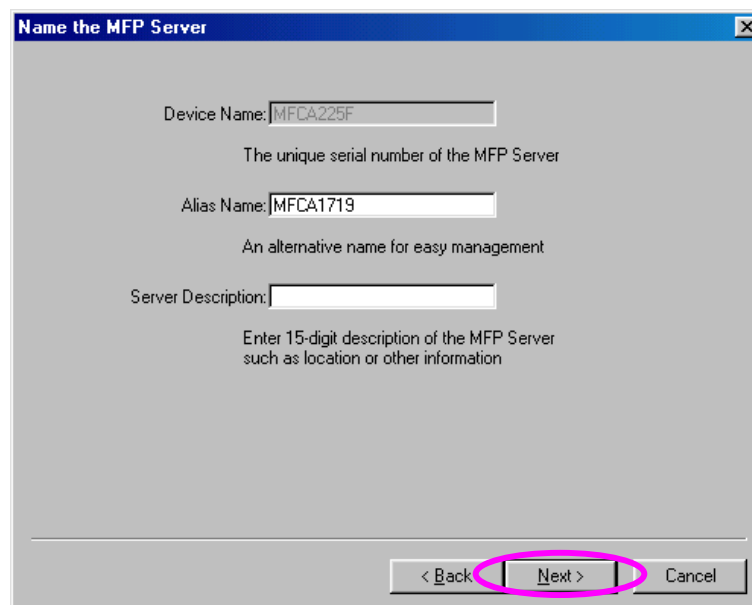


9. Enter the “User Name” and “Password” of the MFP Server you have selected to login the MFP Server. The default “User Name” is “admin”; default “Password” is “1234.”

A Windows-style dialog box titled "Login" with a close button (X) in the top right corner. It contains two text input fields: "User" with the text "Admin" and "Password:" with masked characters "xxxx". Below the fields are two buttons: "OK" and "Cancel".

10. Set the “Alias Name” and the “Server Description” here. Click on “Next”.

**Note:** You can type the location or other information of the MFP Server for easy to find the MFP by filling “Server Description”.

A Windows-style dialog box titled "Name the MFP Server" with a close button (X) in the top right corner. It contains three text input fields: "Device Name:" with the text "MFCA225F", "Alias Name:" with the text "MFCA1719", and "Server Description:" which is empty. Below each field is a descriptive text: "The unique serial number of the MFP Server", "An alternative name for easy management", and "Enter 15-digit description of the MFP Server such as location or other information". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a pink oval.

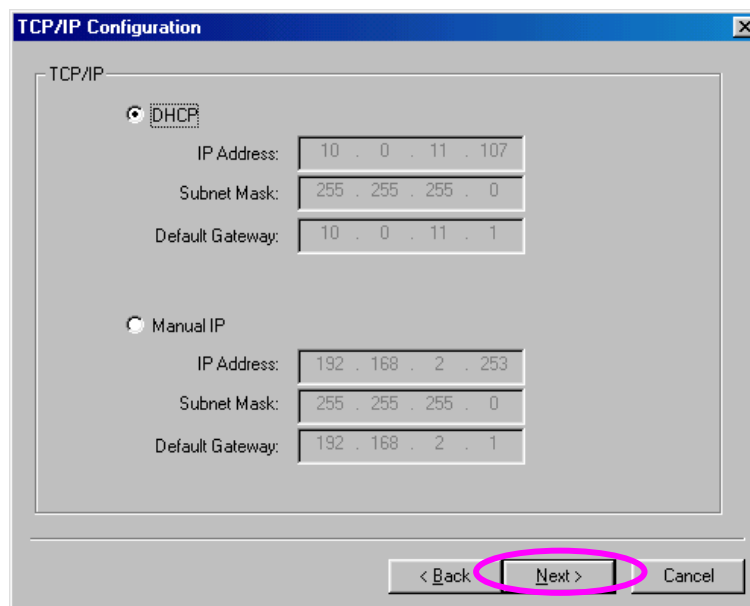
11. The MFP Server will try to determine your network settings. If a DHCP Server is present, the MFP Server will automatically obtain the network settings assigned by the DHCP Server. If no DHCP Server is present, please assign the network settings of the MFP Server manually. By default, the network settings of the MFP Server in “Manual IP” selection are as below.

**IP Address: 192.168.2.2**

**Subnet Mask: 255.255.255.0**

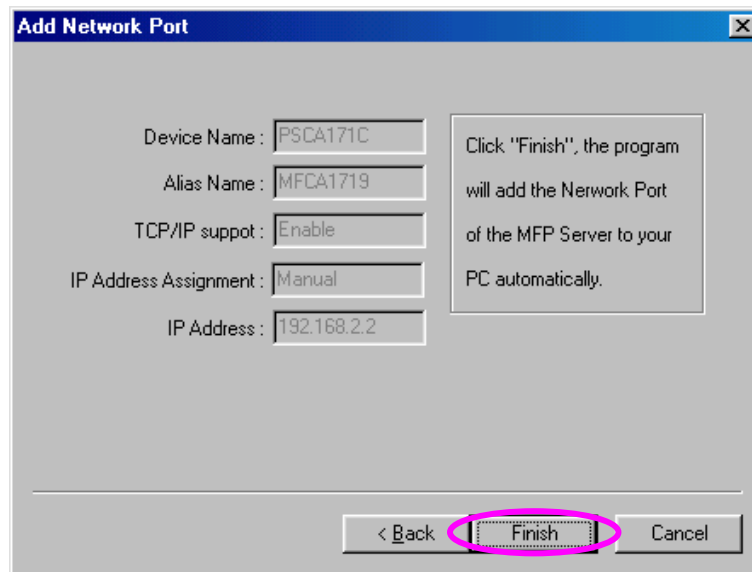
Please click “Next” once you have found appropriate network settings for the MFP Server.

**Note:** The MFP Server IP Address should be in the same network segment with the networking computers. If the network settings are incorrect, a message will be prompted to remind you after you click “Next”. Please make sure that you have set the right settings before going to the next step. If you don’t want to set it now, please click “Cancel” to finish the installation. You can then use the “Server Manager” utility to configure the MFP Server.

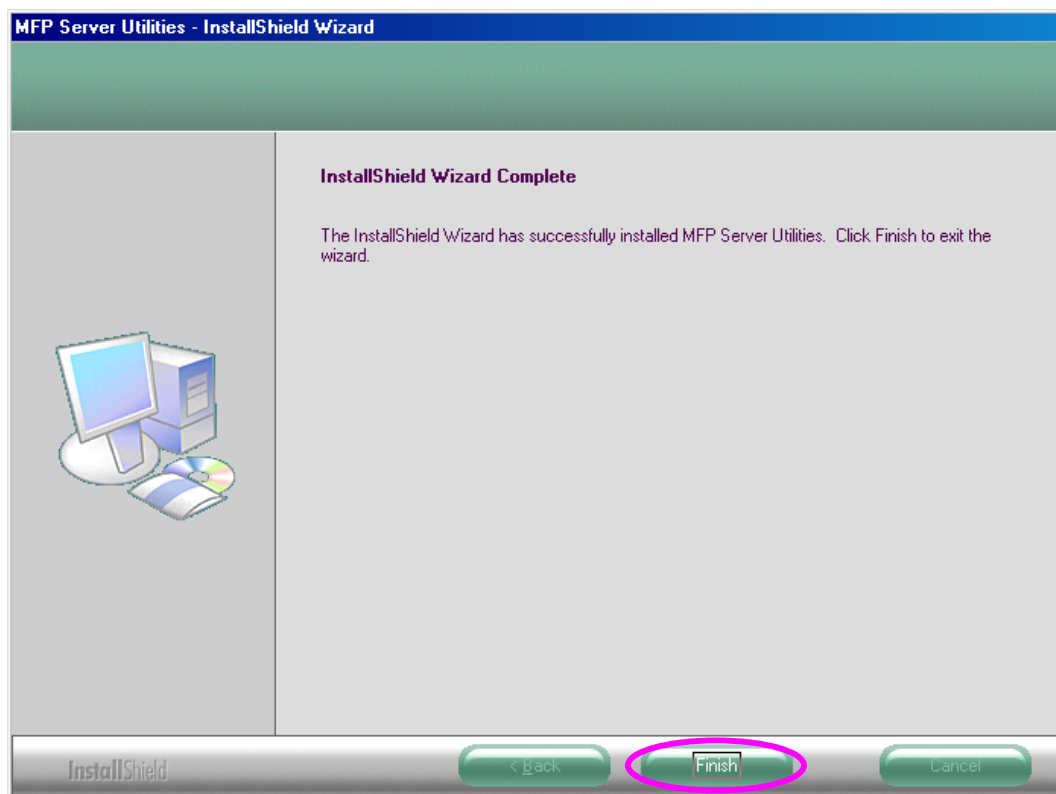


The screenshot shows a window titled "TCP/IP Configuration" with a close button in the top right corner. Inside the window, there is a section labeled "TCP/IP" with two radio button options: "DHCP" (which is selected) and "Manual IP". Below the "DHCP" option, there are three input fields: "IP Address:" with the value "10 . 0 . 11 . 107", "Subnet Mask:" with the value "255 . 255 . 255 . 0", and "Default Gateway:" with the value "10 . 0 . 11 . 1". Below the "Manual IP" option, there are three input fields: "IP Address:" with the value "192 . 168 . 2 . 253", "Subnet Mask:" with the value "255 . 255 . 255 . 0", and "Default Gateway:" with the value "192 . 168 . 2 . 1". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a pink oval.

12. Click “Finish” to apply the settings.



13. Click “Finish” to complete the installation.



## 12.2 Server Utilities

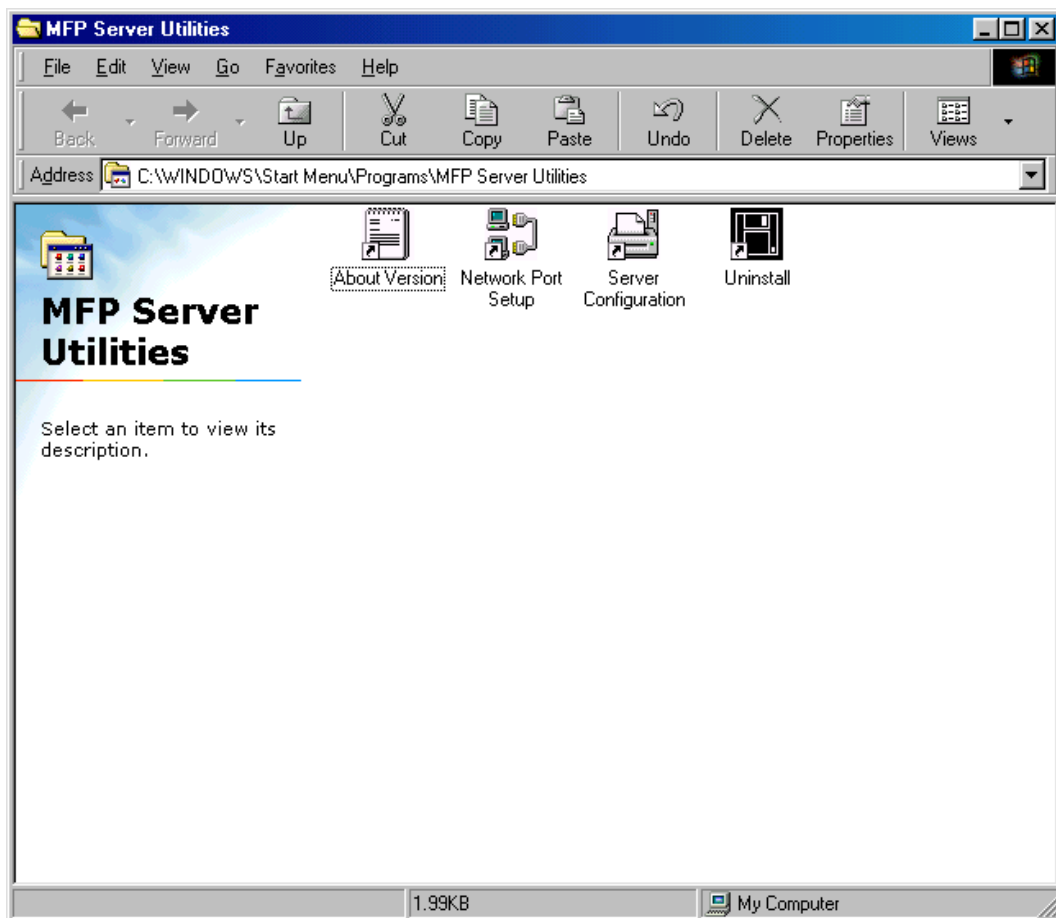
After the installation is completed, there will be three utilities and a text file in the MFP Server's Program folder.

**Network Port Setup** – Add the network ports of MFP Server within the network.

**Server Configuration** – Allows you to configure IP Address, network protocols and other advanced functions. Please refer to Chapter 6 for the detail instruction of the configuration.

**Uninstall** –Remove all installed software.

**About Version** – Display the version of each utility including in the MFP Server software programs.



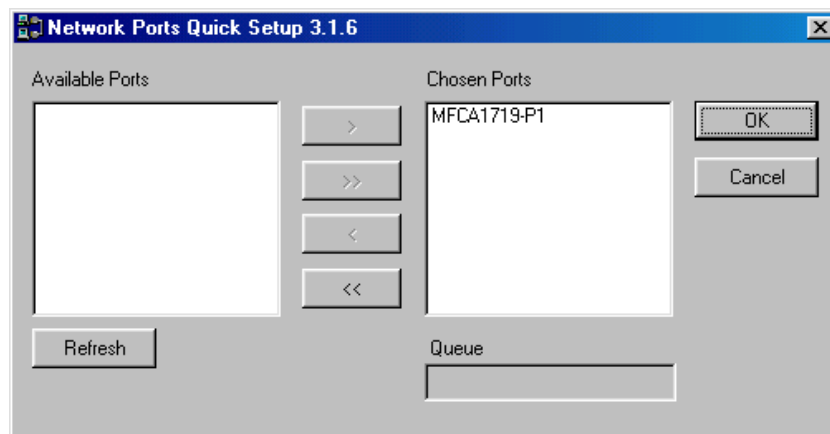
## 12.3 Network Port Setup

“Network Port Setup” Utility offers a very simple method to add or remove MFP Server’s printer port from the client’s computer.

During the MFP Server’s installation procedure, the system will automatically search for all MFP Servers on the network, and add the printer port of the MFP Server you have selected to user’s computer (see below).

If you install another new MFP Server in the network, you must run this program first. This program will search for new MFP Servers and allow you to add the new network printer port into your computer conveniently. Perform the standard Add Printer procedures. After you can print directly to the printer through the newly installed MFP Server.

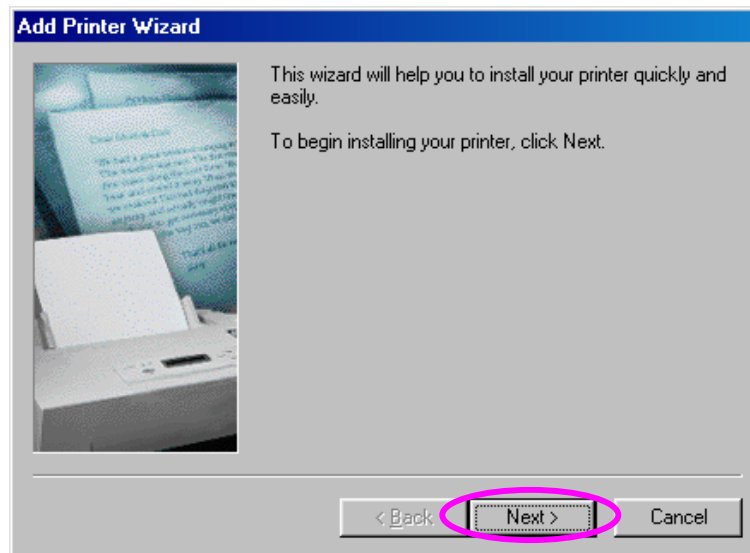
**Note:** Please be aware that Network Port Setup Utility can only detect and configure all MFP Servers within the same network; it cannot search and configure the MFP Servers on other subnets across network segments.



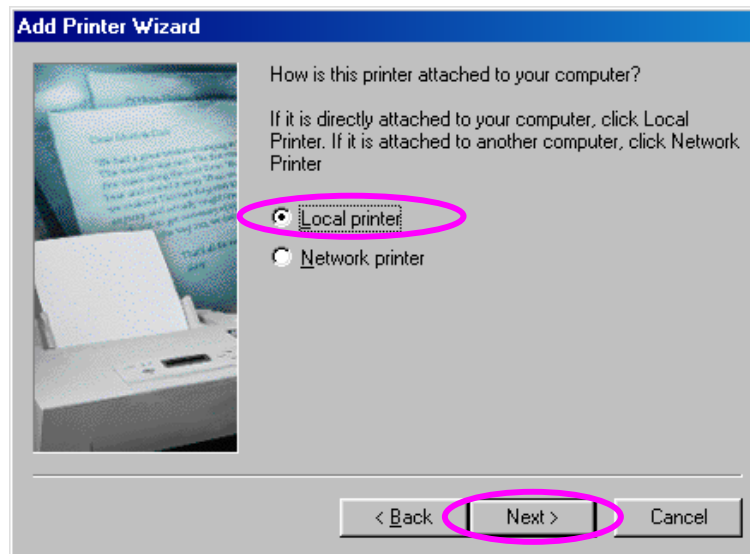
## 12.4 Add Printer

After adding a “Network Port” of the MFP Server to your computer, you can follow the procedure described below to add printer to the Windows. Note the following “Add Printer” steps are running in Windows 98SE. The steps in other Operating Systems are similar.

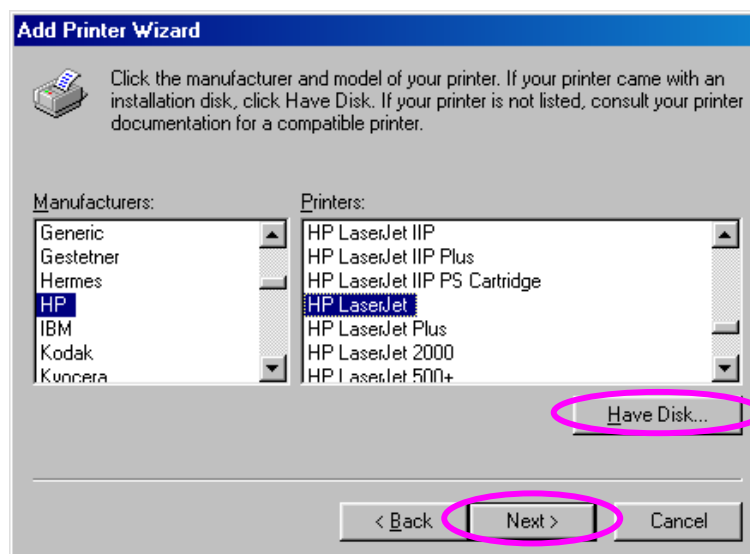
1. Click “Start”, choose “Settings” and select “Printers”.
2. Click “Add Printer”.
3. The “Add Printer Wizard” is displayed. Click “Next”.



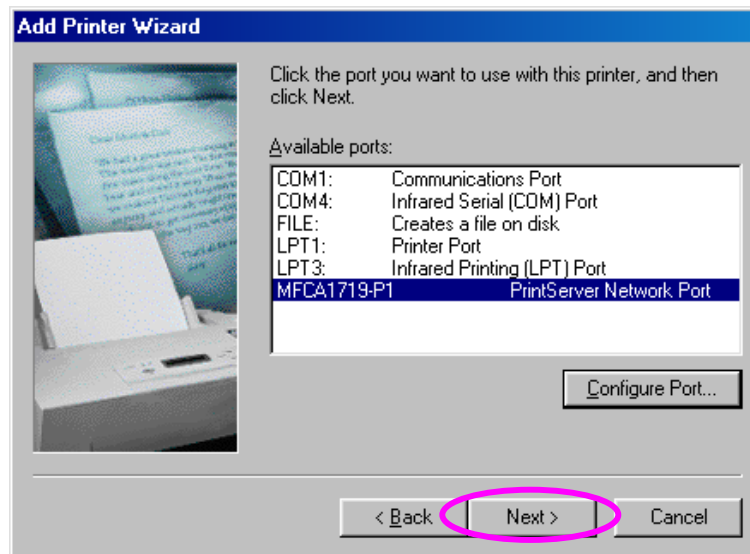
4. Select "Local printer" and click "Next".



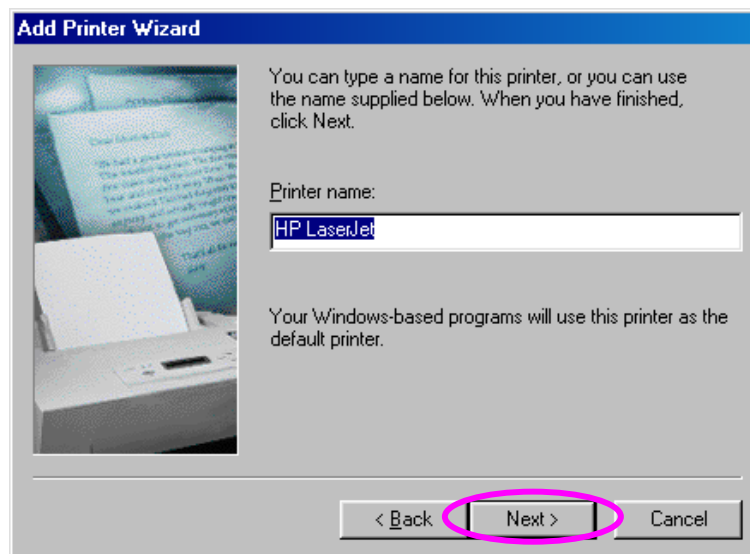
5. Select a suitable printer manufacturer and the printer model and click "Next". If your printer is not in the list, click "Have Disk..." to install the driver of the printer. After installation, the printer model will be added to the list.



6. Choose the suitable "Print Server Network Port" and click "Next".

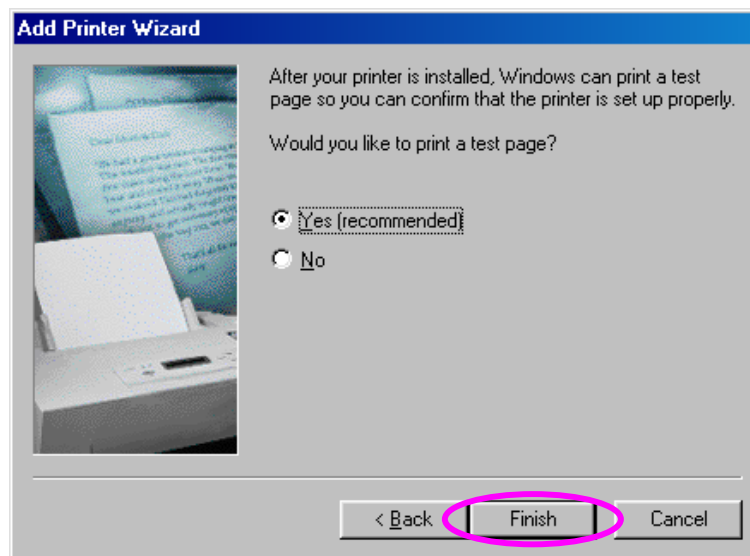


7. Please enter the new name for the printer or click "Next" to keep the default printer name.

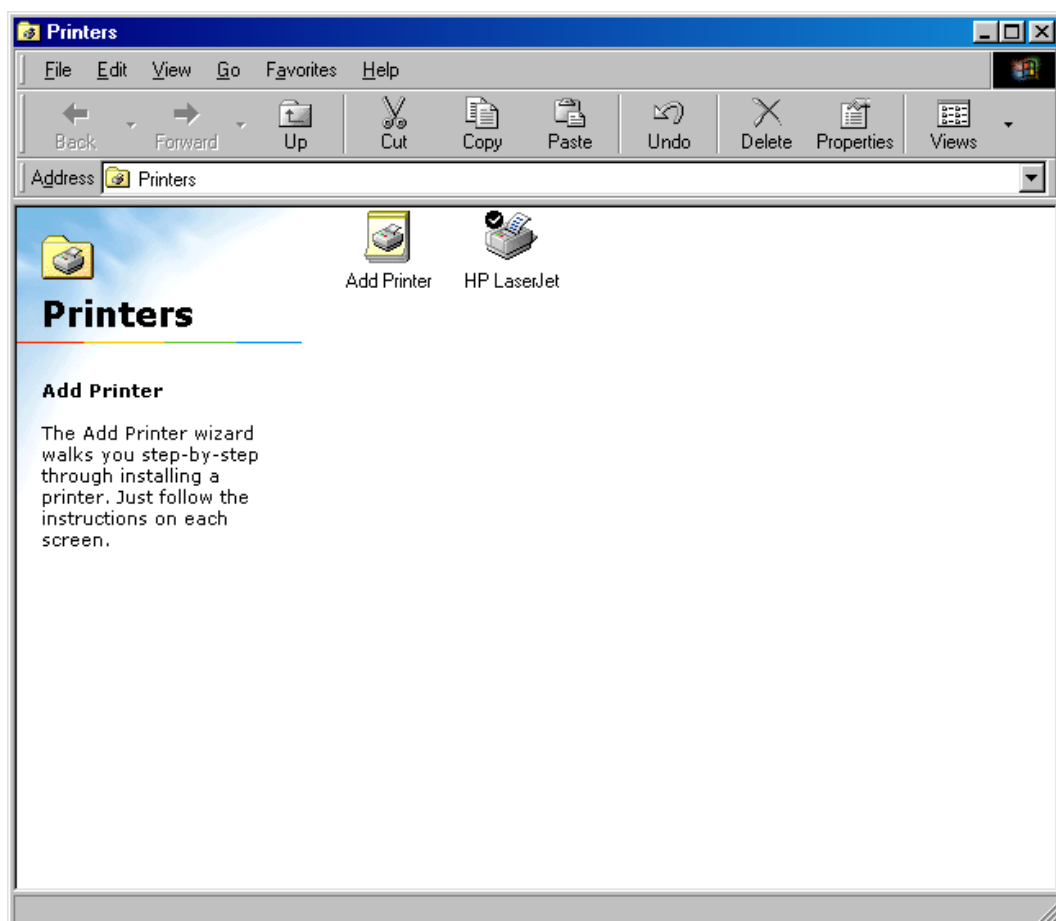




8. Choose to print the test page or not. It is recommended to print a test page. Click "Finish".



9. The drivers of the printer will be installed. After complete the installation, the printer is added to your computer.

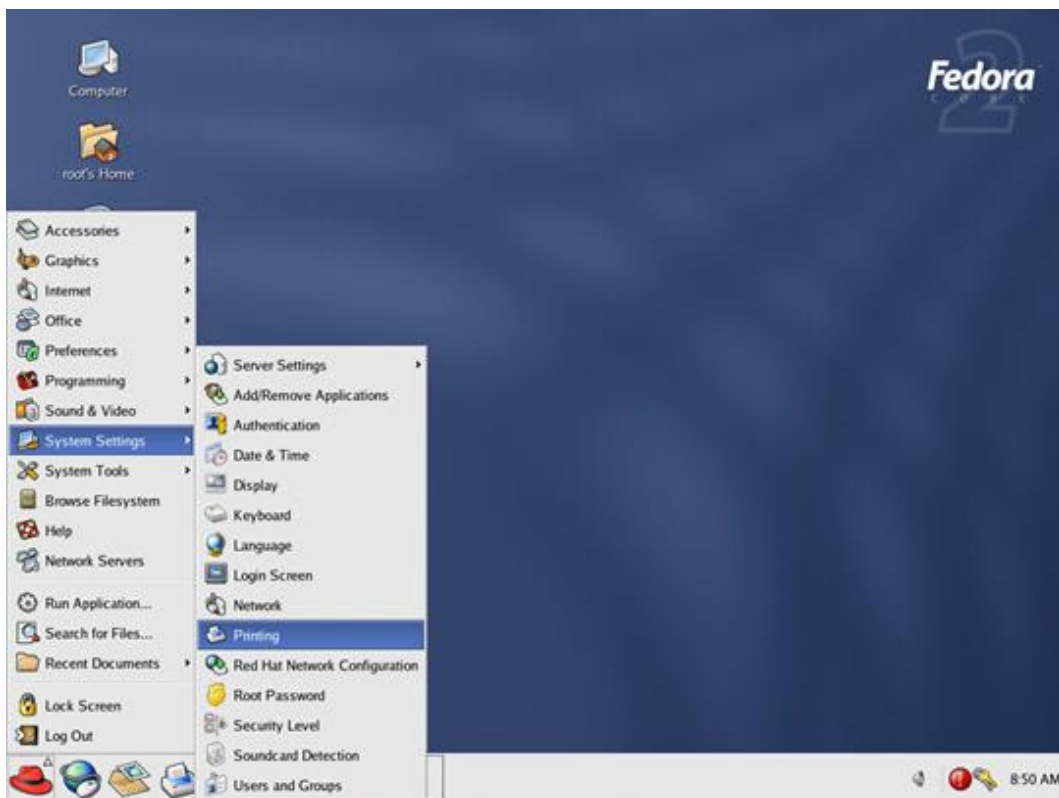


# 13.UNIX/Linux System Network

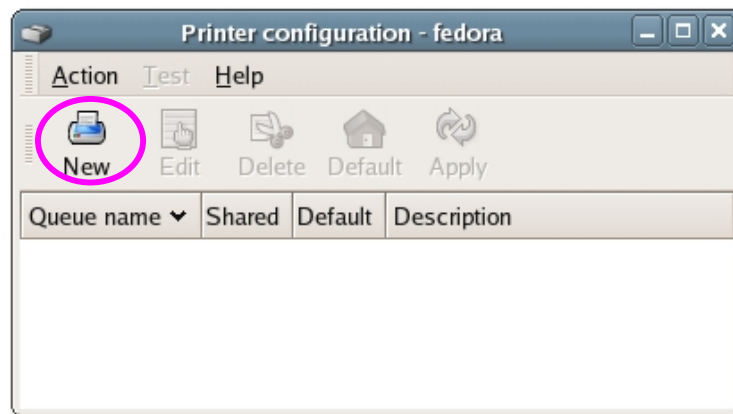
The MFP Server is available for TCP/IP printing by Unix/Linux LPD (Line Printer Daemon) protocol. This chapter explains how to set the MFP Server with the LPD protocol in the Unix/Linux system. Here describes two modes to configure the MFP Server. In the GUI Mode, we follow the settings in the Fedora Core 4 system. If you are in different system, you can refer to the configurations in the Console Mode.

## 13.1 GUI Mode

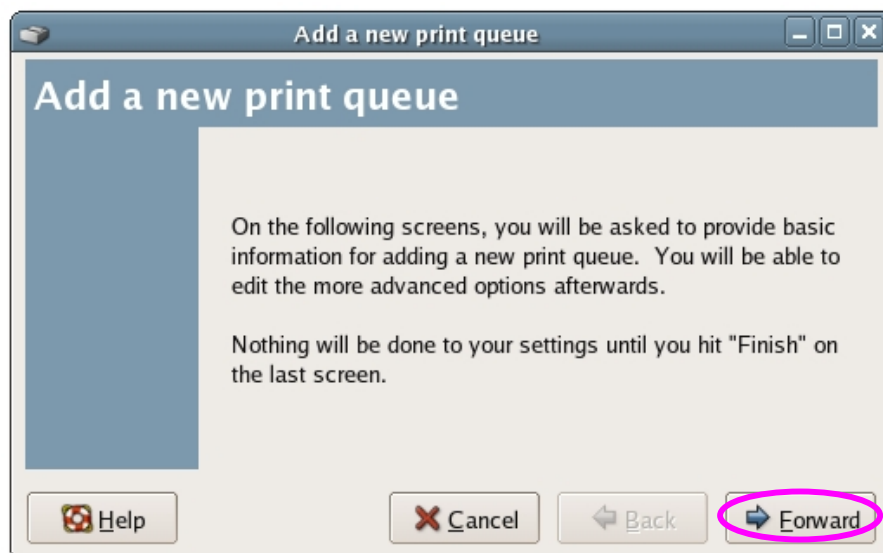
1. Select “Printing” from “System Settings”.



2. Click "New" to add the MFP or printer connected to the MFP Server.



3. Click "Forward".



4. Set the printer queue name and the short description of the MFP or printer and click “Forward”.

The screenshot shows a window titled "Add a new print queue" with a tab labeled "Queue name". The window contains the following elements:

- A text area with the instruction: "Please enter a name for this queue. Choose a short name that begins with a letter and contains no spaces."
- A text input field labeled "Name:" containing the text "printer".
- A section titled "About" with the text: "If you like, you can enter a description of the printer to help you identify it more easily."
- A text input field labeled "Short description:" containing the text "HP PSC 1210".
- At the bottom, there are four buttons: "Help" (with a question mark icon), "Cancel" (with a red X icon), "Back" (with a left arrow icon), and "Forward" (with a right arrow icon). The "Forward" button is circled in pink.

5. In the following screen, please configure as below. Then click “Forward” to continue.

Select a queue type: Select “Network Unix (LPD)” as the queue type.

Server: Enter the IP Address of the MFP Server, for example:

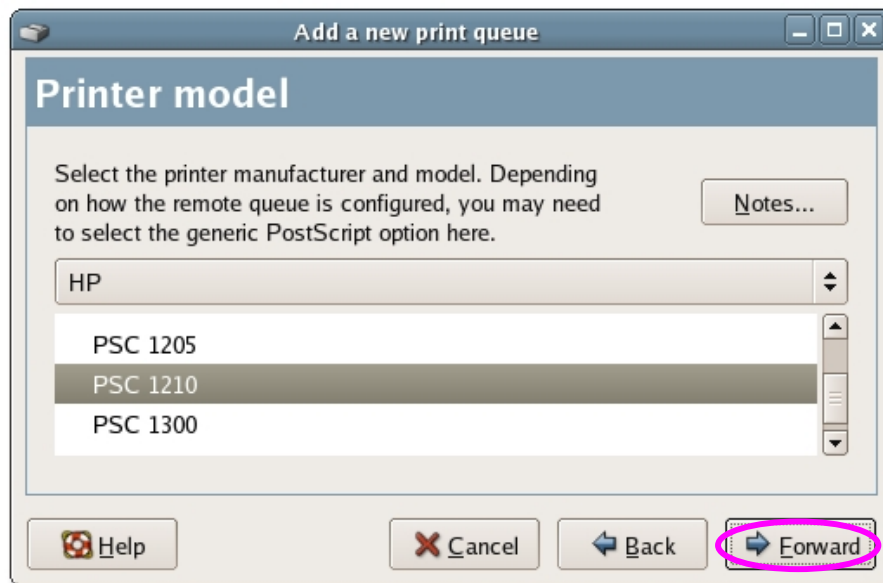
192.168.2.253.

Queue: Set the queue name to lpt1.

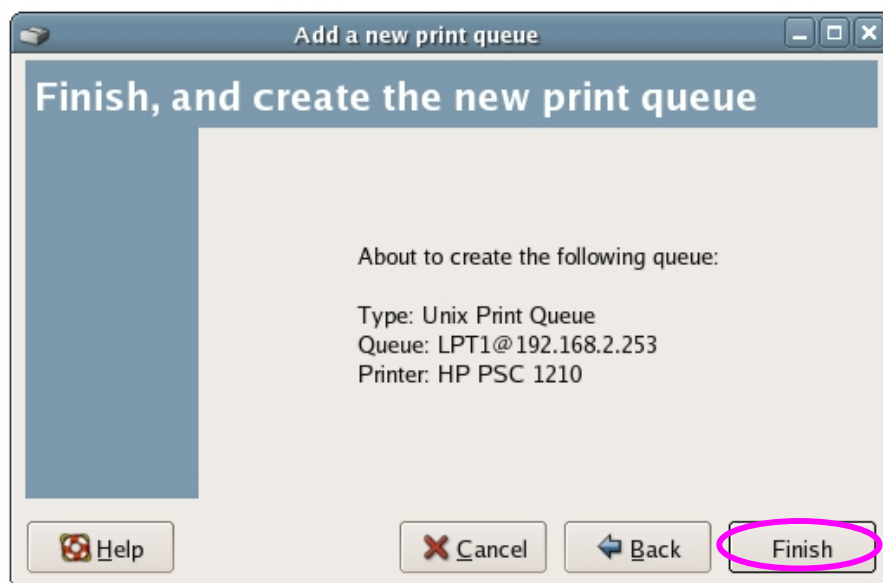
The screenshot shows a window titled "Add a new print queue" with a tab labeled "Queue type". The window contains the following elements:

- A dropdown menu labeled "Select a queue type:" with "Networked UNIX (LPD)" selected.
- A section with two input fields: "Server:" containing "192.168.2.253" and "Queue:" containing "LPT1".
- At the bottom, there are four buttons: "Help" (with a question mark icon), "Cancel" (with a red X icon), "Back" (with a left arrow icon), and "Forward" (with a right arrow icon). The "Forward" button is circled in pink.

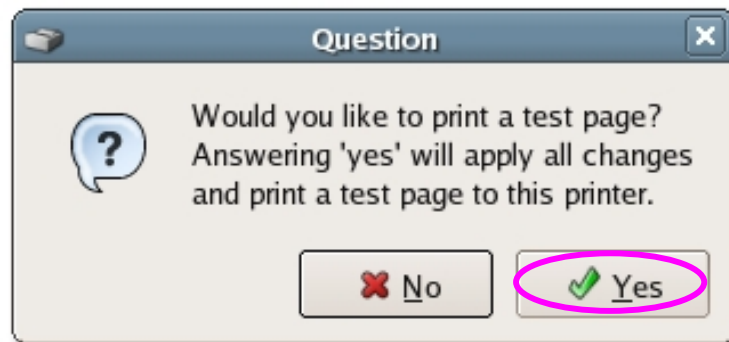
6. Select the MFP or printer manufacturer and model and click “Forward”.



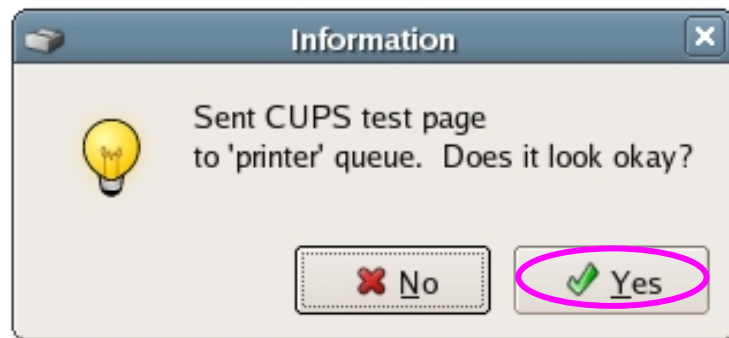
7. Please review the settings. If the settings are correct, click “Finish”



8. To print a test page and apply all the settings, please click “Yes”.



9. If the test page is printed without problem, please click “Yes”. If it is failed to print, please click “No” to go back to “Printer configuration - fedora” screen and configure again.



## 13.2 Console Mode

To configure the MFP Server for LPD printing, perform the procedures below:

1. Enable MFP Server's TCP/IP Support.
2. Set up MFP Server's IP address.
3. Verify MFP Server's IP Address.
4. Configure remote LPD printing on the host.
5. Print a test page.

In the next sections, we will describe these five procedures step by step.

### **13.2.1 Enable MFP Server's TCP/IP Support**

The default configuration of the MFP Server is with TCP/IP support enabled. You can configure the MFP Server to enable TCP/IP support using the configuration program.

### **13.2.2 Setup MFP Server's IP Address**

The MFP Server must have a unique IP address in order to be recognized by the network.

You can set up the IP address on the various Unix/Linux systems using any one of the following methods:

1. DHCP (Dynamic Host Configuration Protocol)
2. BOOTP (Bootstrap Protocol)

The MFP Server will use these two methods to obtain IP address automatically if its IP address is configured as Auto (0.0.0.0).

#### **13.2.2.1 DHCP**

There are many Unix/Linux systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. Please refer to the manual of Unix/Linux for the way to use different DHCP Server. It is highly recommended that the DHCP server should be located on the same network as the MFP Server.

### 13.2.2.2 BOOTP

If you have the BOOTP daemon, `bootpd`, running on your UNIX/LINUX system that is accessible by the MFP Server, you can use the BOOTP protocol to set up the IP address of the MFP Server. We recommend that the BOOTP server should be located on the same subnet as the MFP Server. If you use Network Information Services (NIS) in your system, you may need to rebuild the NIS map with the BOOTP services before doing the following BOOTP configuration. To rebuild the NIS map, please refer to your system documentation.

To configure the IP address data for the BOOTP server, you will need to log in the host of BOOTP server as the superuser (root). Perform the following steps to add address entries,

1. Optionally, assign a name corresponding to the MFP Server's IP address.

You can add this address to the `/etc/hosts` file, by adding a line such as:

```
203.66.191.12          pserver
```

2. Add an entry to the host's `/etc/bootptab` file, similar to the following:

```
hostname:\  
:ht=1:\  
:ha=MFP_Server_ethernet_address:\  
:ip=MFP_Server_ip_address:
```

Lines should be indented with tabs.

Where `hostname` is the device name of a MFP Server, the `ht=1` tag specifying the hardware type is Ethernet, the `ha=` tag specifies the Ethernet address of a MFP Server, which is the Node ID located on the MFP Server. The `ha` tag must be preceded by the `ht` tag. The `ip=` tag should correspond to the IP address you want to assign to the MFP Server.

For example, a MFP Server with the following configuration:



Node ID: 0000B4010101 (this implies Ethernet address is 0000B4010101),

IP address: 203.66.191.12

The entry for this MFP Server in the /etc/bootptab file should be:

```
MF010101:\  
:ht=1:\  
:ha=0000B4010101:\  
:ip=203.66.191.12:
```

### **13.2.3 Verify MFP Server's IP Address**

To verify your MFP Server is responding to the newly assigned IP address using a PING command:

```
ping ip-address
```

## 13.2.4 Configure Remote LPD Printing on the Host

The procedure you use to configure your Unix/Linux host(s) to allow printing to your network remote MFP Server varies between different varieties of Unix/Linux. The procedures below can be used for Unix/Linux variants that are related to BSD Unix, such as SunOS or Linux. For other versions of Unix/Linux, consult your system documentation, keeping in mind that:

1. The MFP Server should be treated as a BSD networked MFP Server host.
2. The host name should be the name (or IP address) that you have assigned to the MFP Server.
3. The printer name (or queue name) on the remote host should be lpt1, lpt2 or lpt3, the name of the printer port on the MFP Server.

You will need to perform the tasks below, logged in as the superuser (root). To configure your Unix/Linux host for printing,

1. Optionally, assign a name corresponding to the MFP Server's IP address. You can add this address to the `/etc/hosts` file, by adding a line such as:

**203.66.191.186                      pserver**

2. Create a spool directory for the printer in the same directory where spool directories are normally kept on the machine, such as `/var/spool` or `/var/spool/lpd`:

```
mkdir /var/spool/lpd/pserverd  
chown daemon /var/spool/lpd/pserverd  
chgrp daemon /var/spool/lpd/pserverd  
chmod 775 /var/spool/lpd/pserverd
```

3. Add an entry to the host's /etc/printcap file, similar to the following:

```
printer-name:\  
    :lp=:\  
    :rm=203.66.191.186:\  
    :rp=lpt1:\  
    :lf=/var/spool/lpd/pserverd.log:\  
    :sd=/var/spool/lpd/pserverd:\  
    :mx#0:
```

Lines should be indented with tabs. More than one printer name can be used, with variants separated by vertical bars (name1|name2).

The rm= entry should correspond to the IP address you have assigned to the MFP Server. You can also use a host name if you have assigned one in the /etc/hosts file.

The sd= entry should correspond to the spool directory you created in the previous step.

The rp= entry should correspond to the port name of the remote printer. The values should be one of lpt1, lpt2 or lpt3 depends on the printer port.

The MFP Server should now be available for printing from your Unix/Linux host.

# 14.MFP Server Installation in MAC OS

LPR Printing (Line Printer Remote technology) allows Macintosh computers to connect to MFPs or printers via TCP/IP. LPR Printing can be set up on any Macintosh with version 9.x above.

## 14.1 MAC 10.4.x

To enable LPR Printing in Macintosh 10.4.x, please follow the procedures below.

1. Open Print and Fax from the System Preferences.
2. With the Printing tab selected, click the “Add” button.
3. When the Printer Browser opens, select “IP Printer”.
4. In the “IP Printer” screen, please configure as below.

Protocol: Select Line Printer Daemon - LPD as the Protocol.

IP Address: Set the address to the MFP Server’s IP Address, for example:  
192.168.2.3.

Queue: Set the queue name to lpt1.

Name: You can set a name for the MFP or printer.

Location: You can enter the location of the MFP or printer.

Printer: Select the MFP or printer model that is attached to the MFP Server.

5. Click “Add” to complete the MFP or printer installation.

## 14.2 MAC 10.3.x

To enable LPR Printing in Macintosh 10.3.x, please follow the procedures below.

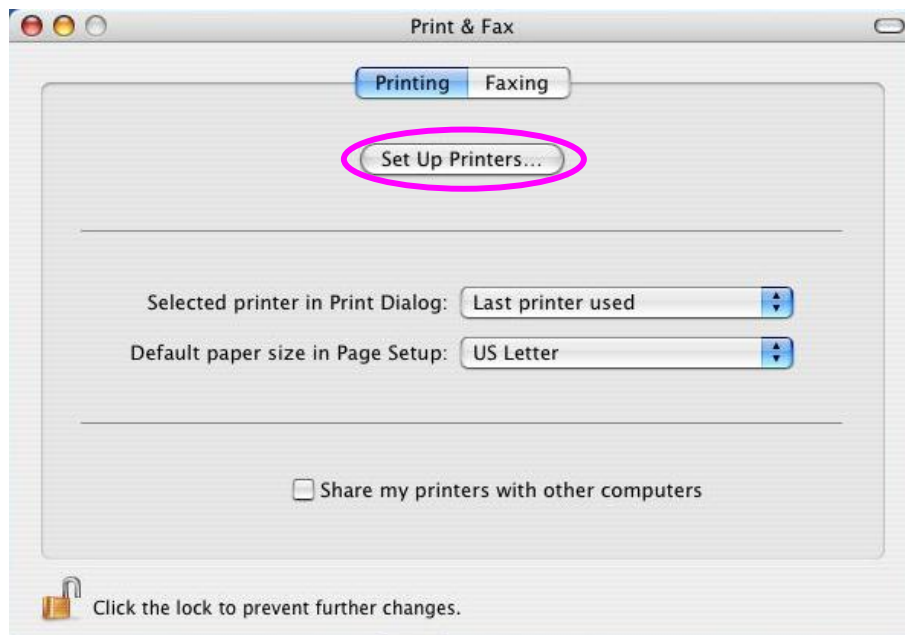
1. In the Desktop, click “System Preferences”.



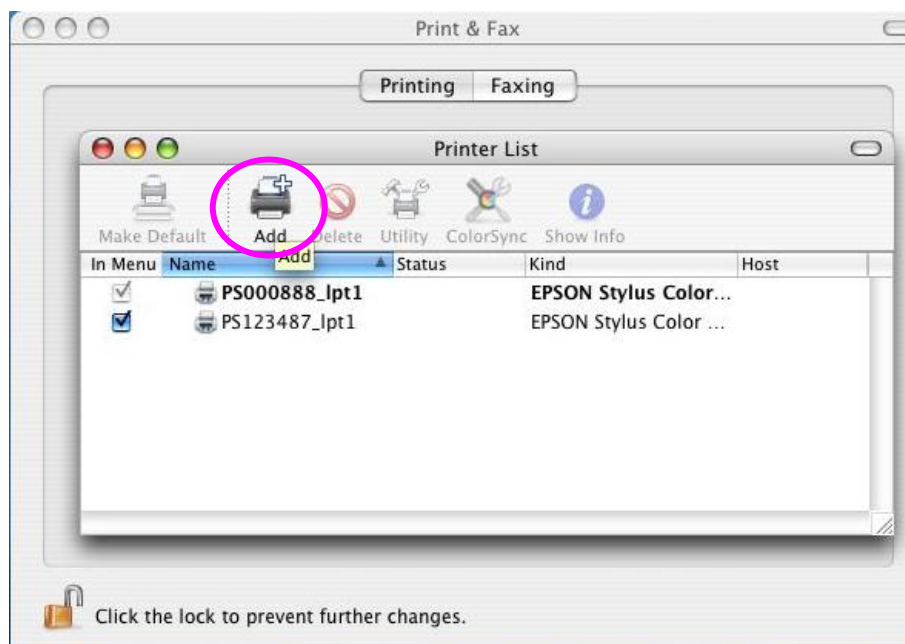
2. Click “Print & Fax”.



3. From the “Print & Fax” screen, click “Set Up Printers...”.



4. Click “Add” to add the new MFP Server through TCP/IP.



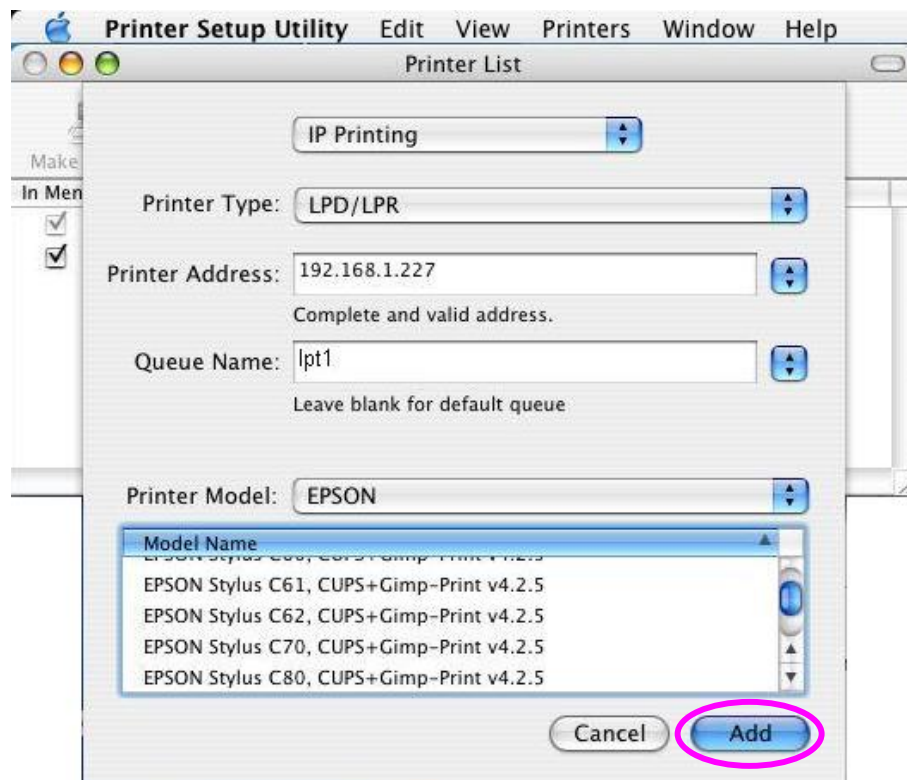
5. Enter the “Printer Type”, “Printer Address” and “Queue Name” and select the “Printer Model” to setup the MFP Server. Click “Add” to continue.

Printer Type: LPD/LPR

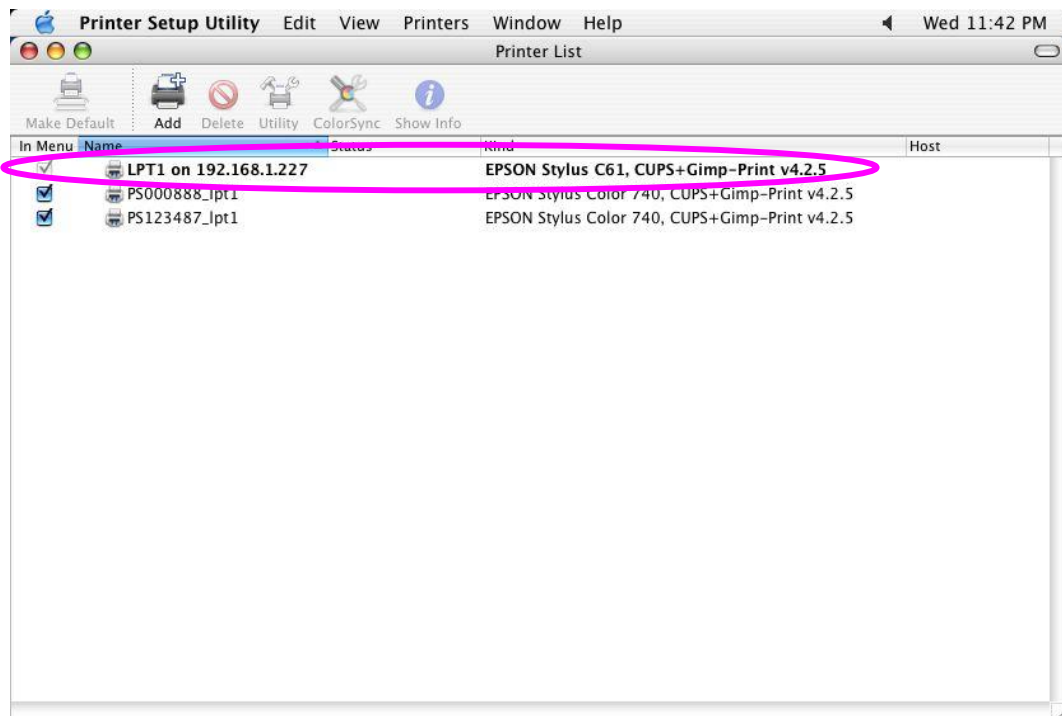
Printer Address: Input the IP Address of the MFP Server

Queue Name: The queue name of the MFP Server is “lpt1”.

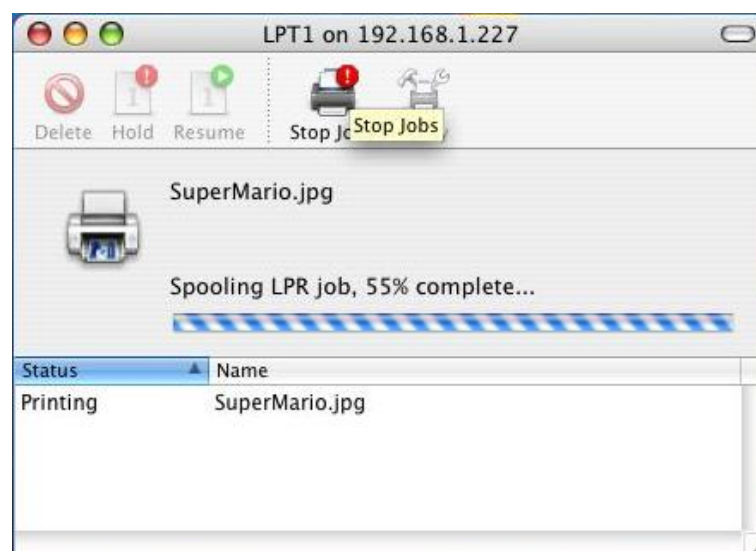
Printer Model: Select the MFP or Printer Model that is attached to the MFP Server.



6. The MFP Server is installed completely. You can see it in the “Printer List”.



7. You can print a file to check whether the MFP Server is installed successfully.





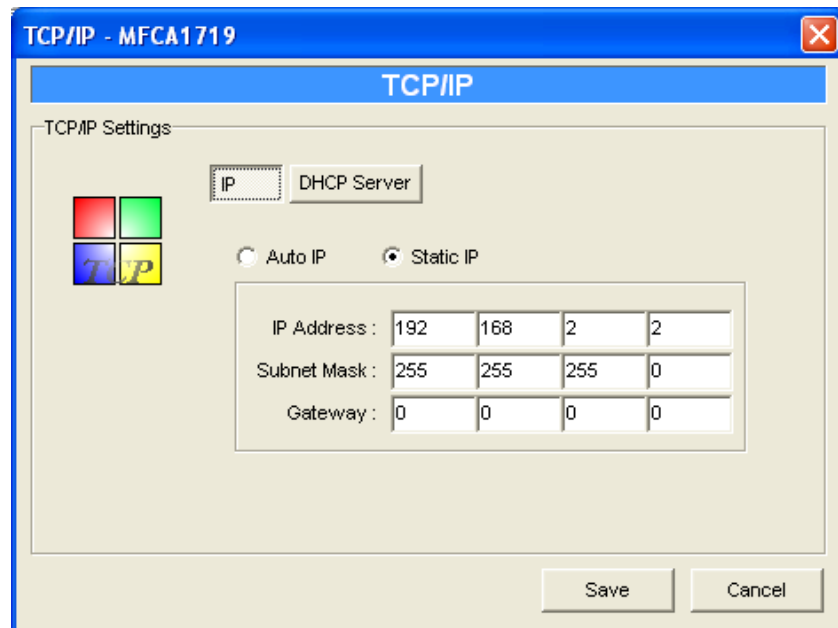
# 15.Troubleshooting

1. This product is not found even after searching by the “MFP Manager”.
  - Check if the power adapter and the network cable are connected to the MFP Server properly.
  - Check if the LAN and Ready LEDs are on.
  - Check if the IP Address of the MFP Server is in the network segment as your computer.
    - If you are not sure the IP Address setting of the MFP Server, please check the TCP/IP setting of the MFP Server from the “Server Manager”.
2. The ways to change the IP Address of the MFP Server.
  - A DHCP Server is installed in the network

If a DHCP Server is installed, you can set the MFP Server to get IP Address from the DHCP Server automatically.

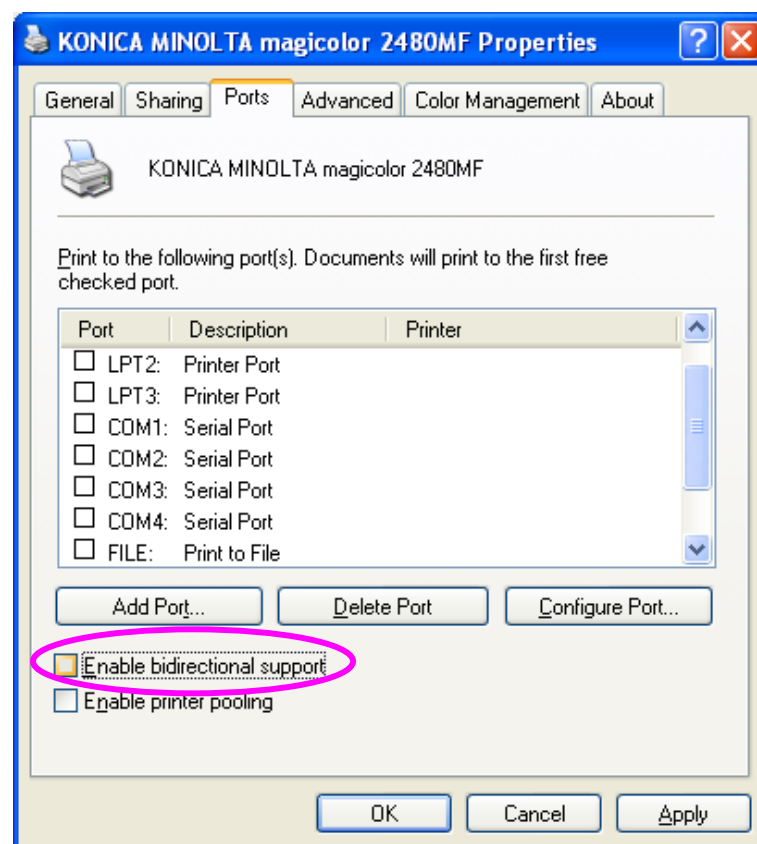
    1. Open “Server Manager” and then select “TCP/IP” setting.
    2. Select “Auto IP” and click “Save”.
    3. Reboot the MFP Server.
  - Set up the IP Address Manually
    1. Open “Server Manager” and then select “TCP/IP” setting.
    2. Select “Static IP” and enter the IP Address and Subnet Mask as your computer. Click “Save”.
    3. Reboot the MFP Server.

**Note:** Set a static IP Address to MFP Server is recommended since DHCP assignment may change occasionally the IP Address for MFP Server.



3. A user always connects the MFP Server.
  - Contact with the current user and ask the user to disconnect the device.
  - If the user forgets to disconnect the device, you can inform the administrator to release the device.
4. I can't use the MFP to scan, print, read the card reader or fax a file even I have followed the installation of MFP in the manual.
  - Check if the MFP you are using is in the "Compatibility List" in Appendix.
  - Attached the MFP to PC directly and try if the MFP is able to use.
5. My computer has installed the firewall and the MFP Server can't work normally in my computer.
  - Some firewalls, for example, the "Network Access Manager" firewall program attached with nVidia network card may block the communication between MFP Server and your computer; you have to add the MFP Server programs to the exception list of your firewall. The programs are as follows.
    1. Add "servoap.exe" program to the exception list.
    2. Add "mfpagent.exe" program to the exception list.

6. When I use LPR, IPP or RAW printing, the printing jobs are not able to print to the MFP or printer.
- Check if the MFP is “Idle” but not being connected. When MFP server is connected by other user, the printing jobs are been queuing in the Windows spooler.
  - Disable “Bi-Directional Support”. Please follow the steps below.
    1. Right click the printer from “Printer and Faxes” in the Windows.
    2. Select “Properties” and select “Ports”.
    3. Uncheck the “Enable bidirectional support “.



- Check if the MFP you are using is in the “Compatibility List” in Appendix or contact your dealer.

# Appendix: MFP Server Compatibility List

The compatibility information is the first released in August 2006. For the latest information, please contact with your dealer.

**Note:**

“N/A” means that the MFP doesn’t support the function.

“ -- ” means that the function is not being tested yet.

No.	Brand Name	MFP Model	Windows 2000 & XP			
			Print	Scan	Fax	Card Reader
1.	HP	Laser Jet 1020 (GDI)	✓	N/A	N/A	N/A
2.	HP	Laser Jet 1022 (GDI)	✓	N/A	N/A	N/A
3.	HP	Laser Jet 3020	✓	✓	✓	N/A
4.	HP	Laser Jet 3055	✓	✓	N/A	N/A
5.	HP	Laser Jet 3380	✓	✓	✓	N/A
6.	HP	PSC 750	✓	✓	N/A	N/A
7.	HP	PSC 1210	✓	✓	N/A	N/A
8.	HP	PSC 1350	✓	✓	N/A	N/A
9.	HP	PSC 1410	✓	✓	N/A	N/A
10.	HP	PSC 1510	✓	✓	N/A	N/A
11.	HP	PSC 1610	✓	✓	N/A	✓
12.	HP	PSC 2210	✓	✓	--	✓
13.	HP	PSC 2310	✓	✓	N/A	✓
14.	HP	PSC 2355	✓	✓	N/A	✓
15.	HP	PSC 2410	✓	✓	N/A	✓
16.	HP	PSC 2510	✓	✓	N/A	✓
17.	HP	PhotoSmart 2575	✓	✓	N/A	✓
18.	HP	PhotoSmart 2610	✓	✓	--	✓
19.	HP	PhotoSmart 2710	✓	✓	--	✓
20.	HP	PhotoSmart 3110	✓	✓	--	✓
21.	HP	PhotoSmart 3310	✓	✓	--	✓
22.	HP	PhotoSmart 475	✓	N/A	N/A	✓
23.	HP	PhotoSmart 7450	✓	N/A	N/A	✓
24.	HP	PhotoSmart 7830	✓	N/A	N/A	✓
25.	HP	PhotoSmart 8030	✓	N/A	N/A	✓

No.	Brand Name	MFP Model	Windows 2000 & XP			
			Print	Scan	Fax	Card Reader
26.	HP	PhotoSmart 8230	✓	N/A	N/A	✓
27.	HP	PhotoSmart 8250	✓	N/A	N/A	✓
28.	HP	PhotoSmart 8450	✓	N/A	N/A	✓
29.	HP	PhotoSmart 8750	✓	N/A	N/A	✓
30.	HP	Office Jet 4255	✓	✓	--	N/A
31.	HP	Office Jet 5510	✓	✓	--	N/A
32.	HP	Office Jet 5610	✓	✓	--	N/A
33.	HP	Office Jet 6110	✓	✓	--	N/A
34.	HP	Office Jet 6210	✓	✓	--	N/A
35.	HP	Office Jet 7210	✓	✓	--	✓
36.	HP	Office Jet 7410	✓	✓	--	✓
37.	HP	Office Jet 9100	✓	✓	--	✓
38.	EPSON	CX1500	✓	✓	N/A	N/A
39.	EPSON	CX3700	✓	✓	N/A	N/A
40.	EPSON	CX4100	✓	✓	N/A	N/A
41.	EPSON	CX4700	✓	✓	N/A	✓
42.	EPSON	PHOTO 4990 Scanner	N/A	✓	N/A	N/A
43.	EPSON	R340	✓	N/A	N/A	✓
44.	EPSON	R350	✓	N/A	N/A	✓
45.	EPSON	RX430	✓	✓	N/A	✓
46.	EPSON	RX510	✓	✓	N/A	✓
47.	EPSON	RX520	✓	✓	N/A	✓
48.	EPSON	RX530	✓	✓	N/A	✓
49.	EPSON	RX630	✓	✓	N/A	✓
50.	EPSON	RX650	✓	✓	N/A	✓
51.	CANON	MPC 190	✓	✓	N/A	N/A
52.	CANON	PIXMA MP110	✓	✓	✓	N/A
53.	CANON	PIXMA MP130	✓	✓	✓	N/A
54.	CANON	PIXMA MP150	✓	✓	N/A	N/A
55.	CANON	PIXMA MP170	✓	✓	N/A	✓
56.	CANON	PIXMA MP450	✓	✓	N/A	✓
57.	CANON	PIXMA MP700	✓	✓	--	✓
58.	CANON	PIXMA MP730	✓	✓	--	✓
59.	CANON	PIXMA MP780	✓	✓	--	✓
60.	LEXMARK	P4350	✓	✓	N/A	✓

No.	Brand Name	MFP Model	Windows 2000 & XP			
			Print	Scan	Fax	Card Reader
61.	LEXMARK	P6210	✓	✓	N/A	✓
62.	LEXMARK	X3330	✓	✓	N/A	N/A
63.	LEXMARK	X3350	✓	✓	N/A	N/A
64.	LEXMARK	X4270	✓	✓	--	N/A
65.	LEXMARK	X5150	✓	✓	N/A	N/A
66.	LEXMARK	X6150	✓	✓	✓	N/A
67.	LEXMARK	X6170	✓	✓	✓	N/A
68.	Brother	MFC-210C	✓	✓	✓	✓
69.	Brother	MFC-215C	✓	✓	✓	✓
70.	Brother	MFC-2820	✓	N/A	✓	N/A
71.	Brother	MFC-420CN	✓	✓	✓	✓
72.	Brother	MFC-425CN	✓	✓	✓	✓
73.	Brother	MFC-3240C	✓	✓	✓	N/A
74.	Brother	MFC-7420	✓	✓	✓	N/A
75.	Brother	MFC-7820N	✓	✓	✓	N/A
76.	Brother	MFC-8840D	✓	✓	✓	N/A
77.	Konica Minolta	2480	✓	✓	N/A	N/A
78.	Samsung	SF-565P	✓	✓	✓	N/A
79.	Samsung	SCX-4100	✓	✓	N/A	N/A
80.	Samsung	SCX-4720F	✓	✓	✓	N/A
81.	Dell	944	✓	✓	N/A	✓
82.	BenQ	CM3000	✓	✓	N/A	N/A