



User Manual Wireless Multi-Function Print Server

Model No.: SP781W

World Wide Web: www.micronet.com.tw ; www.micronet.info

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

2

1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio technician for help.

FCC Caution

This equipment must be installed and operated in accordance with provided instructions and a minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

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.

3

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive

98/13/EEC

(Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not intended for use

None.

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1. Introduction

Thank you for purchasing and using Micronet 802.11g Wireless MFP server. This MFP server allows your Multi-function, all-in-one printer (called for short: MFP) or printer to become a shared device on the network. There are many technical breakthroughs on the product design. Unlike traditional print servers, it communicates with MFP and printer as if it is connected directly to your computer. Because of that, all users can share print, scan, card reader and fax functions through the network. Furthermore, this device can build the bi-directional communication with MFPs and Printers to monitor important information such as ink levels and paper levels.

The MFP server supports print, scan and card reader sharing functions in the most popular operating systems: Windows 2000 SP4 above and XP SP1 or above. It also suppots 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 be a MFP Server, this device can also be a traditional print server. It supports TCP/IP network protocol and LPR, RAW and IPP printing protocols, and share print function in the various common

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network operating systems including Windows 98SE/Me/NT/2000/ XP/2003, Unix, Linux and MAC OS 9.x above.

This MFP Server provides IEEE 802.11g/b wireless LAN (up to 54Mbps data transfer rate), an Ethernet network port (10/100Mbps Ethernet) and one USB 2.0/1.1 port for MFP or printer. The MFP Server can be connected to your 802.11g/b wireless network or wired network. It is very convenient and flexible to build up the MFP Server to your network environment.

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 on your Local Area Network at an extremely low cost and with an absolute minimum setup and maintenance required.

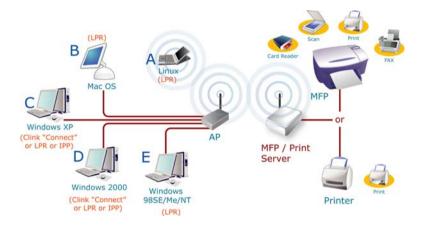
1.1 Product Package

This package contains the following components:

- One MFP Server
- One Antenna
- One Quick Installation Guide
- One Utility/Manual CD
- One Power Adapter

1.2 How to use this manual

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 and printer as if it is connected directly to your computer. This enables users to connect to MFP for sharing print, scan, card reader and fax functions. 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 Server Control Manager

Print Server Mode:

The MFP Server also supports LPR, IPP and RAW printing protocols, which enable users to share print function from 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

2. MFP Server Installation in Windows 2000/XP

Before you start, you should have:

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

2.1 Hardware Installation Procedure

- Unpack the MFP Server package and verify that all the items listed in the previous section are provided.
- Plug the USB cable to the MFP Server with the MFP or printer that you want to share on the network.
- Connect the MFP Server to your network by attached the network cable to the network port of the MFP server.
- 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 unlighted, the MFP Server is ready.

Note:

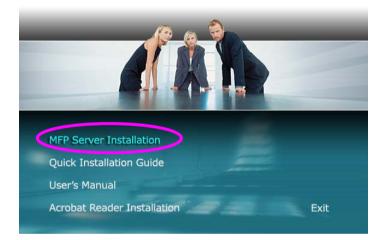
- 1. You must use the power adapter shipped along with the MFP Server, do NOT use any other power adapter from other sources.
- 2. To prevent the compatibility problem between MFP Server and a few MFP or printer, it is recommended that you power on the MFP Server before the MFP or printer.

2.2 Software Installation Procedure

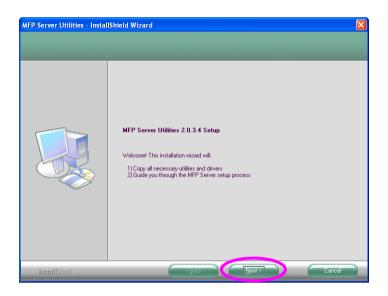
Before you start, you should check your computer's operating system. This program can be run in Windows 2000 SP4, Windows XP SP1 or above. Please follow the steps below to start installation.

<u>**Tip:**</u> Any time, install a newer MFP server driver/utility, the utility will uninstall the former software in the computer and reboot the system. Install the new program after reboot.

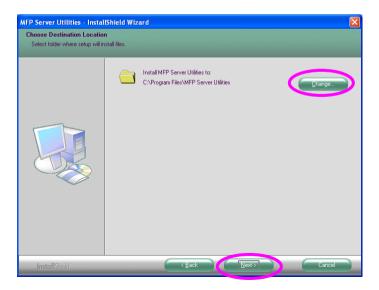
- Insert the CD shipped along with the MFP Server into your CD drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD drive's root directory
- The following screen will be displayed. Click "MFP Server Installation".



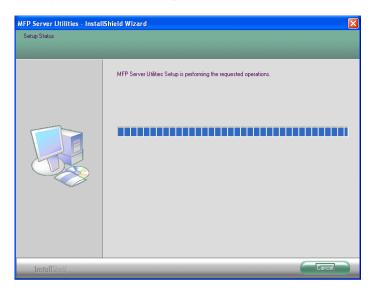
 The "MFP Server Utilities - InstallShield Wizard" is displayed, click "Next".



 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.



5. The system starts installing the MFP Server Utilities.



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



7. 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.

MFP Server Utilities - InstallShield Wizard		
Configuration		
	Please choose to start the configuration right now or later.	
InstallShield	C Sack Next > Cancel	

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

MFP Server List	
Choose MFP Server	If the MFP Server is installed for the first time, the "MFP Server Name" is the last 6 digits of MAC ID of the MFP Server with a "MF" prefix. Refresh
	< Back Next > Cancel

 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."

User Name and Password 🛛 🔀		
User Name	admin	
Password	1234	
OK Cancel		

10. Set the "Alias Name" and the "MFP Server Description" to the MFP Server here. Click on "Next".

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

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
< <u>B</u> ack <u>Next</u> Cancel

11. Setup the IP address of the MFP Server and click "Next".

Note: The MFP Server IP Address should be in the same network segment with the connected computer. If you are not sure how to set up the IP Address, you are recommended to select "Assign MFP Server IP Address" and choose "Assigned by Wizard", and then the program will assign a valid IP Address to you.

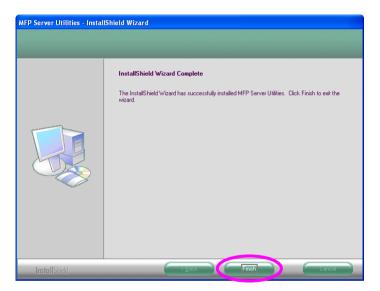
IP Address Configuration
You can configure later by the Server Configuration
Assign MFP Server IP address
MFP Server IP Address
Assigned by User Assigned by Wizard
IP Address: 192 . 168 . 4 . 88
< <u>B</u> ack Next > Cancel

 The configurations are finished. Please click "Finish" to apply new settings.

Preview Settings	×
Device Name: MFCA1719 MFP Server Description: Alias Name: MFCA1719 IP Address Assignment: Manual IP Address: 192.168.4.88	Click "Finish", the program will save the settings to the MFP Server and reset the MFP Server.
	Back Finish Cancel

13. 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.



2.3 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.

MFP Admin – 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.

2.4 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**". To start installing the MFP Driver/Utility, please follow the steps below.

📥 MFP Manager			
Option Help			
MFP Server List My Favorite Auto Connect List			
MFP Server List	MFP Information		
- MFCAB3EB (MAC: 00:00:B4:CA:B3:EB IP: 192.168.2.2)	Status: Idle		
Port 1: HP Officejet 5600 series	Computer Name:		
	Contact Information:		
Refresh Connect Disconnect Add to	o My <u>F</u> avorite		
Auto release when idle time is over 0 minutes(5~255).			

- Select the MFP which you want to install in the "MFP Sever List" and click "Install Wizard".
- The following message is displayed to warn you that you have to follow the installation instructions in the manual of the MFP. If the MFP is requiring you to connect the MFP to your computer directly, please click "Connect".

Tip: Some MFP requires users to install the drivers/utilities before connecting the MFP to your computer, please make sure you have followed the instructions of MFP. When the MFP requires checking if you have connected the USB cable to MFP and your computer, please click "**Connect**" to create the connection. Please refer to the below illustration of "**HP ALL-In-One Series**" as an example.





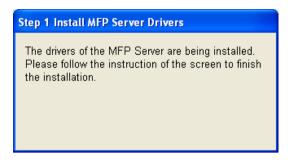
 If the MFP has required you to plug the USB cable between the MFP and your computer, please click "Yes".



 Before creating the connection, you have to install two kinds of drivers: the drivers for MFP Server and the drivers for MFP. Please click "Next" to start the installation.

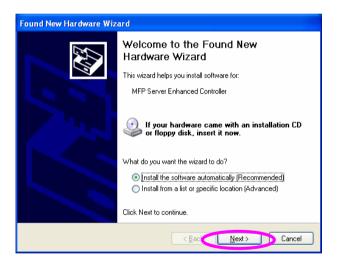


 When you are installing the MFP Server Drivers, the following message will be displayed to notify you. When the MFP Server drivers are all installed, the message will be disappeared automatically.



6. Select "Install the software automatically (Recommended)"

to auto install the "**MFP Server Enhanced Controller**" driver, then click "**Next**".



7. The driver is installed automatically. Click "**Finish**" to complete this driver installation.

Found New Hardware Wizard		
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: WFP Server Enhanced Controller	
	< Back Finish Cancel	

 The following message is displayed to remind you that you are now installing the MFP Drivers. When you are sure that the MFP has been installed completely, please click "Finish".

Tip 1: The Windows system will auto detect the MFP drivers need to be installed. Please follow the pop-up screens to install the drivers, when the system stops prompting the drivers are all installed.

Tip 2: When the two steps have finished, the MFP is now connected to your computer directly. Please continue to install the MFP by following the steps in the manual of MFP.

Step2 Install the MFP Drivers

The system will prompt you to install drivers for the MFP. The drivers are located in the MFP Driver CD. The drivers are completely installed when the system stops the prompt.

When the drivers for MFP Server and MFP are installed completely, the MFP is now operating in the mode which connects to your computer directly through the USB cable. Please continue to install the MFP.

When you are sure that the MFP has been installed completely. Please click "Finish".



×

3. Using the MFP

After you have followed the install wizard to finish the MFP installation, 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 until the MFP is released.

Tip 2: It doesn't always have to manually click "Disconnect" to release the MFP. There is alternative of releasing device by enabling "Idle Timeout Setting". The device will be released after a period of idle time. Please refer to Section 6.5.1 for more information.

📥 MFP Manager	
Option <u>H</u> elp	
MFP Server List My Favorite Auto Connect List	
MFP Server List	MFP Information
- MFCAB3EB (MAC: 00:00:B4:CA:B3:EB IP: 192.168.2.2)	Status: Connected
Port 1: HP Officejet 5600 series	Computer Name: FAE
	Contact Information:
Refresh Disconnect Add to My Eavorite	
Auto release when idle time is over 0 minutes(5~255).	

3.1 Share Print

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

<u>**Tip:**</u> 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.



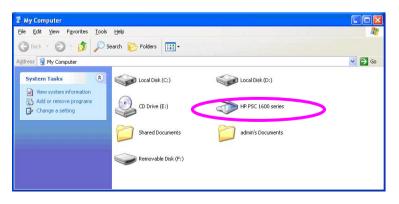
3.2 Share Scan

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. You can also use third party scanning utilities such as Photoshop, Photoimpact, Paint Shop Pro, etc.

An example: HP 1600 Series Utilities

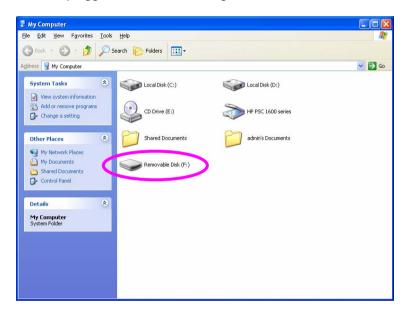


Windows XP Scanning Utility



3.3 Share Card Reader

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



3.4 Fax a File

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

An example: Fax through HP Officejet 5600 Series

After the MFP is installed, there is a fax device will be added to "**Printers and Faxes**" in the Windows. When you have connected to the MFP by clicking "**Connect**" in the "**MFP Manager**", you can fax a file through the MFP Server and the fax device to the destination.

The fax procedures

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

Print	? 🛛
General	
Select Printer	
Add Printer	General Sector S
HP Officejet 5600 series fax	Samsung SCX-4x20 Series PCL 6
<	
Status: Ready	Print to file Preferences
Location:	
Comment:	Find Printer
Page Range	
⊙ AļI	Number of <u>c</u> opies: 1
◯ Selection ◯ Current Page	
Pages: 1-65535	
Enter either a single page number or a sin page range. For example, 5-12	
	Print Cancel Apply

3. The "Send Fax" screen is popped up, please configure the

file and enter the fax number. Click "Send Fax" to fax the file.

🍪 HP Officejet 560	0 series - Send Fax		
Address Book	Fax To Title First Name	Last Name	
Select From			•
A <u>d</u> d To	Fa <u>x</u> Number	Voice Number 0	Company
Include with Fax PC-Generated Cover Page	Clear <u>E</u> ntry	<u>R</u> ecent Faxes	Log and Settings
Edi <u>t</u> Contents	Add to List	Name F	ax Number
Page(s) in unit	Remo <u>v</u> e		
_ <u>Q</u> uality	Photo Color Color Color	and White	Darken
Send Fax	<u>Preview Fax</u>	<u>H</u> elp	Cancel

4. MFP Manager

4.1 MFP Server List

The "**MFP Manager**" can automatically find the MFP server on 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 have directly connected the MFP to your computer through USB port. It also displays the information of the connection status.

When you don't want to use the MFP or Printer, please click "**Disconnect**" so that other users can use the device. 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 Server Control Manager**" to recover the connection.

📥 MFP Manager	
<u>O</u> ption <u>H</u> elp	
MFP Server List My Favorite Auto Connect List	
MFP Server List	MFP Information
- MFCAB3EB (MAC: 00:00:B4:CA:B3:EB IP: 192.168.2.2)	Status: Connected
Port 1: HP Officejet 5600 series	Computer Name: FAE
	Contact Information:
Refresh Connect Disconnect Add to) My <u>F</u> avorite
Auto release when idle time is over 0 minutes(5~255).	

Hereunder explain the function in MFP Manager

MFP Server List

- 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 Addres and the device that is connected to the MFP Server.
- 2. It will show the related information of the MFP Server when click on the specified MFP Server in the **MFP Server List.**
- 3. Idle Timeout –

It avoids user to occupy the device and do nothing. The "Auto Release" setting will automatically cut the connection if the MFP is idle for a specified period of time. It is never released in default.

MFP Information

Status –

It displays the status of the MFP including Connected, Idle and Busy. When the status is "**Connected**", it indicates that the MFP is connected to your computer. 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.

Computer Name -

It displays the computer name which is connecting to the MFP.

Contact Information –

It shows the user which is occupied the MFP at current time. You can ask him to release the device ASAP.

The four click boxes

Refresh -- Refresh the "MFP Server List" immediately.

Connect -- Let the MFP be connected to your computer.

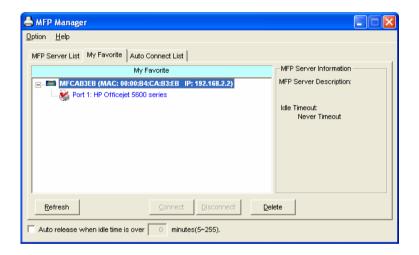
Disconnect -- Disconnect the selected MFP.

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.

4.2 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 4.4 to know more about the quick setup functions.



Hereunder explain the function in My Favorite.

My Favorite --

The favorite MFP Servers will be shown in the left margin. It includs **MFP Server Name**, **MAC ID**, **IP Address** and the device that is connected to the MFP Server. The right margin shows the status.

4.3 Auto Connect List

To let the system occupy the MFP server automatically when you want to print a document just like the behavior of 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.

<u>**Tip:**</u> 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. It also happens in some MFPs or printers even though the MFP is not connecting by a user. Please follow the message to retry then 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.

📥 MFP Manager			
<u>O</u> ption <u>H</u> elp			
MFP Server List My Favorite	Auto Connect List		
	Auto Connect List		
Printer Name In Computer	MFP Server Name	Mac I	Add
			Delete
			Edit
<			
Auto release when idle time i	s over 5 minutes(5~255)		,

 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.

A	uto Connect Settings		×
Г	Select a Printer		
	MFP Server Name	MFP	Ōĸ
	MFCA1719-P1	HP PSC 1600 series	Cancel
			<u>R</u> efresh
	Select a Printer Queue		
		-	
	Keep connecting for 30	second(s) after printing has been	finished(5~60).

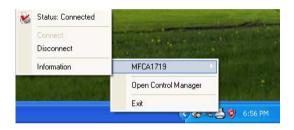
3. Select the MFP that is connected to the selected MFP Server. Click "OK". Note that in some cases, new coming printing jobs cannot be printed because the MFP is already disconnected. It will cause unformatted messages to be printed out. "Keep connecting for 30 second(s) after printing has been finished (5-60)" is enabled by default. It will avoid this situation.

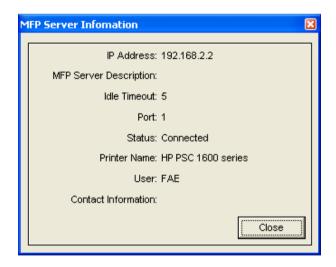
	1	
MFP Server Name	MFP	<u></u> r
MFCA1719-P1	HP PSC 1600 series	Cancel
		Refresh
electio Printer Queue		
IP PSC 1600 series		•

4. The setup is finished.

4.4 Quick Setup

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





Status --

The current status of the MFP will be displayed here.

"**Connected**" indicates that the MFP is connected to your computer.

"Busy" indicates the MFP is being used.

"Idle" indicates that the MFP is free to use by any users. At this moment, you can click the "Connect" to setup the linkage to your computer.

Disconnect --

Disconnect the selected MFP. The "Disconnect" will be 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 listed as the illustration above.

4.5 Option Settings

4.5.1 General Setting

General Settings
General Settings
Start Control Manager on Windows startup
Minimized when start Control Manager
Refresh status every 5 seconds.(5~300)
Auto release when idle time is over 5 minutes(5~255).
Vour Contact Information
<u>Q</u> K <u>C</u> ancel

Start Control Manager on Windows startup --

Execute the "MFP Server Control Manager" when

Windows starts every time. By default, it is enabled.

Minimized when start MFP Manager --

Minimized the "MFP Server Control Manager" to an icon

in the system tray when you start the "MFP Server Control

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.

Auto Release when idle time is over xx minutes (5-255)

To avoid you occupy the MFP overtime; you can setup idle timeout. It is used to disconnect the current connection after the MFP is idle for a specified period of time. By default, it is never timeout. It is recommended to enable idle timeout setting after the MFP and MFP Server are installed completely so that the MFP resource will not be occupied easily.

Your Contract 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.

4.5.2 Installed MFP List

The MFPs that have been installed will be displayed in the list. If you have removed the MFP from your computer, please delete the MFP from the list. The "**MFP Server Control Manger**" will guide you to install the MFP when you want to install the same MFP next time.



4.5.3 Search for MFP Server

If there is an MFP Server is not in the network as your computer, you can enter the IP Address of the MFP Server to do 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 have searched is behind NAT Router, the MFP Server may not operate normally.

Re	mote MFP Serve	r List		X
ſ	Remote MFP Server L	.ist		
	IP Address	Mac Address	N	Add
				Delete
	<		>	Close

5. Server Configuration

5.1 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 side. It provides configuration functions for MFP Server itself; it does not include configuration functions for client side or other file server in the network environment. It provides the following configuration and management functions:

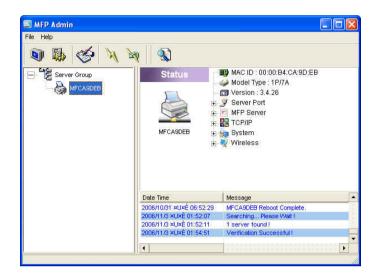
- Search MFP Server: Search All Available MFP Servers on the Network.
- Status: Display MFP Server Network Status.
- General Configuration: Configure general settings about the MFP Server such as Server Name, Password, etc.
- TCP/IP Configuration: IP Address and DHCP Server Configuration.
- System Configuration: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

current connection of the MFP Server.

 Report: List the some information of All Available MFP Servers on the Network.

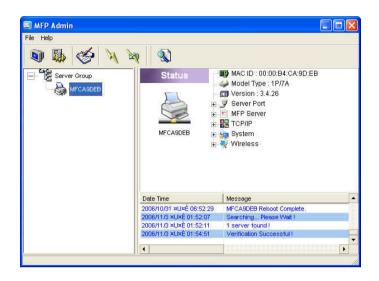
We will explain each function separately in the following section.

5.2 Searching MFP Server



Every time when you run the "**MFP Admin**" configuration utility, click the "**Search**" icon on the tool bar. The configuration utility will delay for several seconds because the utility is using 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 margin of the window. You must select the MFP Server you would like to configure from the list. The system will display the selected MFP Server's status on the right side of the window simultaneously.

5.3 Status of MFP Server

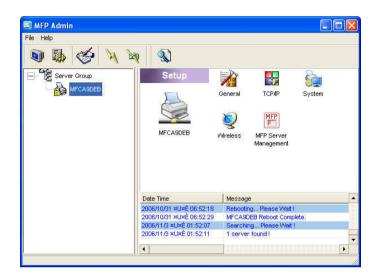


Click "**Status**" icon on the tool bar, the status of the currently selected MFP Server will be showed on the right side of the window. The information of the MFP Server displayed are including MAC ID, Model Type, Firmware Version, status of each server port, IP address, subnet mask, default gateway 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 .

5.4 Setup the MFP Server



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

Double click one of the icons 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.

<u>**Tip:</u>** When you have finished the settings, please click ⁽¹⁾ " to restart the MFP Server to let the settings take effect.</u>

5.5 General Configuration

General - MFC	CA9DEB	
	General	
General Setting	js Device Info	
	MAC ID : 00:00:B4:CA:9D:EB Type : 1P/7A Version : 3.4.26 Port No : 1	
- Coultary	Server Name : MFCASDEB	
1 Sei User	User Name : Password : Password : Retype Password :	
	Save	incel

Double Click "**General**" icon and the General configuration window will pop-up. You can see basic MFP Server information in this page and 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 are searching for the MFP Server by the "MFP Admin" utility.

User Name/Password is used to authenticate the administrator to login the MFP Server for configuring it from the "**MFP Admin**" utility or the Web Management tool.

5.6 TCP/IP Configuration

TCP/IP - MFCA9DEB						X
	TCP/IP					
TCP/IP Settings						
IP DHCP S	erver					
Auto IP	 Stational 	itic IP				
	P Address :	192	168	2	2	
St	ubnet Mask :	255	255	255	0	
	Gateway :	0	0	0	0	
		~~				
1 m 						
			Sa	ve)	Cano	el

Double Click "**TCP/IP**" icon and the TCP/IP configuration window will pop-up. This device supports DHSP server/client and fixed IP. Select the one which is suitable for your network.

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. The default setting is "**Static IP**" and the settings are as follows.

IP Address: 192.168.2.2

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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.

	TCP/IP				
WP Settings					
	IP DHCP Server				
	C Auto G Enable	C	Disable	;	
	Starting Address :	192	168	2	11
	- Range :		-	112	31.272
	Nange .	1.0			
	Subnet Mask :	a de c	255	255	0
	20082 7 80	255	255	255	0

DHCP Server -- Click the "**DHCP Server**" button to enter into the DHCP server's setting page.

 Auto – The MFP Server will detect DHCP server within the network automatically. If the DHCP server doesn't exist, the MFP Server will turn on his own DHCP server and assign IP Address to client. 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.

- 2. 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.

5.7 System Configuration

	S	ystem		
em Settings	IF Enable LPR IF Enable TCP IF Enable IPP F	RAVV Printing	- 11	
Update :				Upgrade Load Default
	inction : (Auto	C Enable	0	Disable

Double Click "**System**" icon and the System configuration window will pop-up. In this 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.

<u>**Tip:</u>** 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.</u>

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

Wireless Function: You can select to "Enable" or "Disable" the wireless function manually. If you manually enable wireless function, the MFP Server's wireless LAN will be always enabled and Ethernet will be always disabled. If you manually disable the wireless function, the MFP Server's wireless LAN will be always disabled and Ethernet will be always enabled. You can also select "Auto" to let the MFP Server automatically decide to enable or disable the wireless function. The MFP Server only can work in either Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the MFP Server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the MFP Server is connected to an active network by Ethernet cable when starting up, the MFP Server will run in Ethernet mode. If the MFP Server is not connected to an active network by Ethernet cable when starting up, the MFP Server will run in wireless LAN mode. The MFP Server default is in "Auto" mode.

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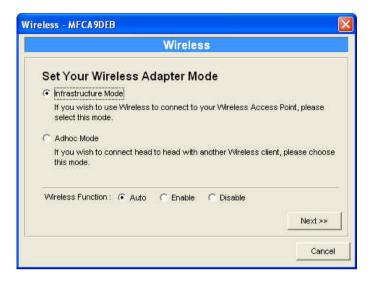
Domain Country: The wireless channels are different from country to country. Generally, the channels are from 1 to 11 in USA and from 1 to 13 in Europe. The operating channel will be set to the MFP Server before importing. If you are in different country, please make sure that you have set the available channels according to your location.

5.8 Wireless Configuration

If you want to use the MFP Server through wireless LAN, please set up the MFP Server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the MFP Server, then you can start to use the MFP Server through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, restart the MFP Server and configure the MFP Server through Ethernet until the wireless LAN settings are correct.

The default settings of the MFP Server wireless function are as follows.

- Mode: Ad-Hoc
- SSID: Default
- Channel: 11



Double Click "**Wireless**" icon and the wireless configuration window will pop-up. If you use access point to build up wireless network, you have to select "**Infrastructure Mode**". If you do not have any access point and want to use peer-to-peer connection to build up wireless network, you have to select "**Ad-Hoc Mode**".

After selecting the operation modes of the wireless function, click "**Next**" to go to further detailed configuration.

Infrastructure Mode:

Wireless - MFCA9DEB	×
Wireless	
Connect to Your Wireless Network	
C Scan For Your local Wireless Network	
Let the Wizard automatically scan for your Wireless Network(SSID)	
Assign Your Wireless Network Manually	
default	
Enter your own Wireless Network ID (SSID)Manually	
<< Back Next >>	14 10 10
Cancel	1

In the Infrastructure mode, you have to let the MFP Server associate with an access point. You let the MFP Server scan for an available access point automatically or manually assign the SSID of the access point you want to use.

If you select to let the MFP Server scan for an available access point, the following window will pop up.

	Wireless		
Wireless Netv	vork Name(SSID)		
SSID	BSSID	Channel	
WLAN Unixtar	00:50:fc:d7:8f;c4 00:02:2d:55:1b:cd	1 11	
the l	se scan and select the name of your ist above: u do not see your Wireless Network Wireless Network is setup correctly	please check to	
1000			

The table will list the available access points near the MFP Server. Select an access point in the list and click "**Next**". If you cannot find the access point that you want to use, click "**Scan**" to let the MFP Server scan again.

Ad Hoc Mode:

Wireless - MFCA9DEB
Wireless
Connect to Your Wireless Network
 Scan For Your local Wireless Network Let the Wizard automatically scan for your Wireless Network(SSID)
Assign Your Wireless Network Manually default
Enter your own Wireless Network ID (SSID)Manually
<< Back Next >>
Cancel

In the Ad-Hoc mode, you can let the MFP Server automatically associate with other wireless station or manually assign the SSID of your wireless network. You can let the MFP Server automatically select the channel that is the same with the wireless station that you want to connect or manually assign a channel.

If you select to let the MFP Server scan for an active wireless station, the following window will pop up.

	Wireless		
Wireless Net	work Name(SSID)		
SSID	BSSID	Channe	9
WLAN Unixtar	00:50:fc:d7:8f:c4 00:02:2d:55:1b:cd	1 11	
the If y	ase scan and select the name of your list above. ou do not see your Wireless Network ir Wireless Network is setup correctly	please check	to see if

The list is the scanned active wireless stations. Select a wireless station in the list and click "**Next**". If you cannot find the wireless station that you want the MFP Server to communicate with, click "**Scan**" to let the MFP Server scan again.

Both "**Infrastructure**" and "**Ad-Hoc**" mode have to go through the following procedure:

	Wirele	35	
Wireless Se	curity		
Security Mode :	Disable	 If you wish to activity or your with the security or your with the secure with the security or your with the security or your with the	
PassPhrase 🔽	Disable WEP(ASCII) WEP(HEX) ¢WPA-shared key	network is already wireless security configure your set (Note)All Wireless	running /ou may lings here. Devices on
Key 1:		 your network must key to function cor 	
C Key 2:		i I	
C Key 3:			

This MFP Server supports **WEP** and **WPA-PSK** security mode. If you want to use **WEP** encryption to protect your wireless network, you have to select "**WEP(ASCII)**" or "**WEP(HEX)**". If you want to use **WPA-PSK**, you have to select "**WPA-shared key**". The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

Wireless - MFCA1719	X
Wireless	
Wireless Security(WEP) Security Mode : WEP(ASCII)	If you wish to activate (WEP) wireless security or your wireless network is already
PassPhrase ● 64 bit ○ 128 bit	running wireless security you may configure your settings here. (Note)All Wireless Devices
• Key 1:	on your network must use the same WEP key to function
C Key 2:	correctly.
C Key 3:	
С Кеу 4:	<< Back Next >>
	Cancel

Wireless - MFCA1719	X
Wireless	
Wireless Security(WEP) Security Mode:	If you wish to activate (WEP)
PassPhrase 64 bit C 128 bit	wireless security or your wireless network is already running wireless security you may configure your settings here. (Note)All Wireless Devices
• Key 1 :	on your network must use the same WEP key to function
C Key 2:	correctly.
C Key 3:	
С Кеу 4:	<< Back Next >>
	Cancel

You can select "64 bit" or "128 bit" length and "Hexadecimal" or "ASCII" format for the encryption key. Longer key length can provide stronger security but worth communication performance.

PassPhrase – A "**PassPhrase**" simplifies the WEP encryption process by automatically generating the WEP encryption keys for the MFP Server. This setting is only valid when the security mode is in "**WEP(HEX)**".

Key 1 to Key 4 – Enter four key values by following the rules below and select one key as the default key.

If the key length is 64-bit, enter 10-digit Hex values or 5-digit ASCII values as the encryption keys. For example: "**0123456aef**" or "**Guest**".

If the key length is 128-bit, enter 26-digit Hex values or 13-digit ASCII values as the encryption keys. For example:

"01234567890123456789abcdef" or "administrator".

WPA-shared key Security Mode:

Wireless - MFCA1719	
Wireless	
Wireless Security(WEP)	
Security Mode : WPA-shared key	If you wish to activate (WEP) wireless security or your wireless network is already running wireless security you
WPA Algorithms : TKIP	may configure your settings here. (Note)All Wireless Devices on your network must use the same WEP key to function
Shared Key :	correctly.
	<< Back Next >>
	Cancel

When "**WPA-shared key**", also named "**WPA-PSK**" requires users to select the advanced encryption methods, i.e. TKIP and enter a set of shared key.

TKIP – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

Shared Key – Enter 8 to 63 digits of ASCII format to be the key for the authentication within the network.

When you finish configuring the wireless security, click "**Next**" to go to next step.

		Wir	eless		
Configure You	ır Ada	pters	IP Add	ress	
C Automatically O	btain IP	Settins(DH	ICP)		
				Access Point/Router.	
(DHCP must be	enabled	on your V	Vireless A	ccess Point/Router)	
Set Your IP Man					
	192	168	2	2	
IP Address :					
IP Address : Subnet Mask :	255	255	255	0	
son man o	255 0	255 0	255 0	0	
Subnet Mask :	-	_	_	0	ext >>

You can select to let the MFP Server automatically obtain IP settings with DHCP client or manually assign the IP settings.

If you manually assign the IP settings, you have to enter IP address, subnet mask and default gateway address.

When you finish configuring the IP settings, click "**Next**" to confirm the IP Address configuration.



Click "Save" to save the wireless configuration.

5.9 MFP Server Management

	MFP Se	erver Manage	ment
Force Releas	e		
Port 1	C Port 2	C Port 3	Force Release
Settings			
Settings	MFP Se	erver Description :	

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 15 digits description of the MFP Server such as location or other information to help user to find the MFP Server easily.

5.10 Report

Device Name	MACID	Model Type	Version	Status
MFCA9DEB	00:00:B4:CA:9D	1P/7A	3.4.26	

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

6. Web Management

6.1 Introduction

MFP Server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage MFP Server's various main functions in browsers. Simply enter MFP Server's IP address into your browser's address field to manage a MFP Server by MFP Server's built-in Web Server.

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

6.2 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".

Connect to 192	2.168.2.2	? 🔀
	L.	
Default password	:1234	
<u>U</u> ser name:	🖸 admin	*
Password:	••••	
	<u>R</u> emember my passwo	rd Cancel

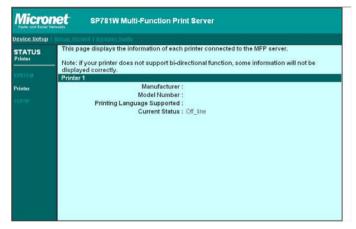
6.3 Device Setup

6.3.1 System

Device Setup	Secon Wisand T Rystem, Tonly			
STATUS SYSTEM	This page displays the cu	urrent system settings	of the MFP server.	
	System Information			
SYSTEM	Device Name :	MFCA9DEB	Raw Printing :	Enable
	MFP Server Name :	MECA9DEB	IPP Printing :	Enable
	Model Type :	1UW MEP Server	LPR Printing :	Enable
	Firmware Version :	3.4.26		
	MAC Address :	00.00 B4 CA 9D EI	3	
	USB Port Number :	1		
	LPT Port Number :	No		
	Wireless Lan Status :	Auto		
	Wireless Configuration			
	Mode :	Infrastructure	ESSID :	00 00 00 00 00 00 00
	Channel Number :	0	WEP :	Disable
	Status :	Disconnected	BSSID :	
	Status :	Disconnected	BSSID :	

System Information includes "Device Name", "MFP Server Name", "Model Type", "Firmware Version", "MAC Address", "Wireless Configuration", and the protocols enabled status, etc.

6.3.2 Printer



This page lists 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.**

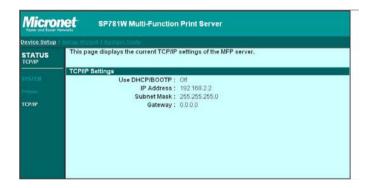
Connected -- a user clicks "**Connect**" button in the "**MFP Manager**" utility, and the connection between the user's computer and the MFP is built.

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 not connected by a user and is paper out.

6.3.3 TCP/IP



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**".

6.4 Setup Wizard

6.4.1 System

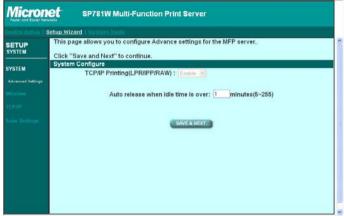
nevice.Retup 1 80	tup Wizard Rystem Jonb
SYSTEM	This Menu allows you to configure general system settings of the MFP server. Click "Save and Next" to continue.
SYSTEM	System Settings
MARKET	MFP server Name : MFCA9DEB
Nicoloss	Password : ••••
ICP/MP	Re-type Password : ••••
Save Settings	SAVE & NEXT

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

MFP Server Name identifies the MFP Server when you are searching for the MFP Server by the "MFP Admin" utilities. Password, enter the password you want to change to the MFP Server. It accepts up to 7-digit alphanumeric format. The default password is "1234".

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

Advanced Settings



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

TCP/IP Printing (LPR/IPP/RAW): This MFP Server

supports TCP/IP network protocol and LPR/IPP/RAW printing protocols. By default these protocols are enabled.

6.4.2 Wireless

If you want to use the MFP Server through wireless LAN, please set up the MFP Server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the MFP Server, then you can start to use the MFP Server through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, restart the MFP Server and configure the MFP Server through Ethernet until the wireless LAN settings are correct.

evice Setup 1 Se	tup Wizard Eystem Tonb	New Art Constant and Art
SETUP WIRELESS		ID, Wireless Mode and Channel Number. Note, all rk must have the same ESSID to communicate with one
SYSTEM	Click "Save and Next" to continue.	
Niceless	Wireless Setting	
Inchester.	Function : A	uto 👻
Depuglion	ESSID : de	
rcP/IP	Channel Number : 1	
Suve Sellings		
		SAVE & NEXT

You can enable/disable the wireless function and set up the wireless parameters for the MFP Server from here. The

parameters include "Function", "Mode", "ESSID" and "Channel Number". You can manually set the wireless network that you want to connect in this page or use the "Site Survey" function to automatically search for an available wireless network and associate with it.

Function is for user to disable, enable or let the MFP Server auto select to connect to the wired or wireless network. If "Disable" is selected, the MFP Server can only connect to the network through wired Ethernet. If "Enable" is selected, the MFP Server can only connect to the network through Wireless LAN. If "Auto" is selected, the MFP Server can automatically decide to enable or disable the wireless function. The MFP Server only can work in either Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the MFP Server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the MFP Server is connected to an active network by Ethernet cable when starting up, the MFP Server will run in Ethernet mode. If the MFP Server is not connected to an active network by Ethernet cable when starting up, the MFP Server will run in wireless LAN mode. The MFP Server default is in "Auto" mode.

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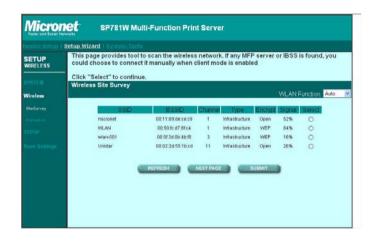
Mode is the operation mode of wireless station. You can choose either "**Ad Hoc**" or "**Infrastructure**" mode. If you do not have any access point and want to use peer-to-peer connection, you have to choose "**Ad Hoc**" mode. If you have an access point as the wireless LAN infrastructure, you have to choose "**Infrastructure**" mode.

ESSID is the unique name identified by in a wireless LAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations and access points in the same WLAN network are the same.

Channel Number is the channel number of your wireless LAN. Please make sure that the channel number of all stations and access points in the same WLAN network are the same.

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Site Survey



You can use this "**Site Survey**" function to search for available access points in you location. In the list is the information of all available access points or wireless stations, includes **SSID**, **BSSID**, **Channel**, **Type**, **Encryption** and **Signal Strength**. You can select one wireless device in the list for this MFP Server to associate with or you have to use General Setting to manually setup the wireless parameters.

There is "**WLAN Function**" setting for you to setup Auto/Disable/Enable wireless function of the MFP Server here. Please refer to section 6.4.2 to know more about the setting.

Encryption

This MFP Server supports WEP and WPA-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select "WEP". If you want to use WPA-PSK, you have to select "WPA-PSK". The wireless security setting should be the same with other wireless devices in the same network.

WEP Security Mode:

SETUR-		Setup Wizard Statuto Tonbr
Vireless Vir	SETUP WIRELESS	
Mode : WEP Key length : 64bit w Key length : 1 Hex (10 characters) w Constant Key Service Default key : [Key] : Key 1 : Key 2 : Key 3 :		Click "Save and NEXT" to continue.
Key length: 6468 Borryston Key length: Borryston Key format: Passphrase: Generate Enter a key into the table Default key : Key 1 Key 1: Key 2: Key 3: Key 3:	Viceless	
toorgeton toorgeton Contro Ver Settings Setting Settings Settings Settings Set		
Comp Passphras: Cenerate Enter a key into the table Default key 1 : Key 1 : Key 2 : Key 3 :		
Enter a key into the table Default key 1 [key] ¥ Key 1 : Key 2 : Key 3 :	Bhoryptics	
Key 1 Key 1 Key 2 : Key 3 :		
Key 1 :		
Key 2 :		
Key 3 :		
		Key 2 :
Key 4		Key 3 :
		Key 4 :
		SAVE & NEXT

Key Length – You can choose "**64-bit**" to use WEP with 64-bit key length encryption or choose "**128-bit**" to use WEP with 128-bit key length encryption. The longer key length can provide better security but worse transmission throughput.

Key Format – You may select to use ASCII Characters (alphanumeric format) or Hexadecimal digits (in the "**A-F**", "**a-f**" and "**0-9**" range) to be the WEP Key.

PassPhrase – A "**PassPhrase**" simplifies the WEP encryption process by automatically generating the WEP encryption keys for the MFP Server.

Default Key – Select one of the four keys to encrypt your data. Only the key you select it in the "**Default key**" will take effect.

Key 1 – Key 4 – The WEP keys are used to encrypt data transmitted within the wireless network. Fill the text box by following the rules below.

64-bit WEP: input 10-digit Hex values (in the "**A-F**", "**a-f**" and "**0-9**" range) or 5-digit ASCII character as the encryption keys. For example: "**0123456aef**" or "**Guest**".

128-bit WEP: input 26-digit Hex values (in the "**A-F**", "**a-f**" and "**0-9**" range) or 10-digit ASCII characters as the encryption keys. For example:

"01234567890123456789abcdef" or "administrator".

WPA-PSK Security Mode:



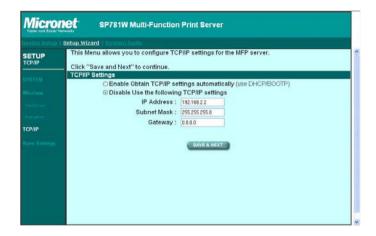
"WPA-PSK", also named "WPA-shared key" requires users to select the advanced encryption methods, i.e. TKIP and enter a set of shared key.

TKIP – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

WPA Pre-Shared Key – Enter 8 to 63 digits of ASCII format to be the key for the authentication within the network.

When you finish configuring the wireless security, click "Save & Next" to confirm the configuration.

6.4.3 TCP/IP

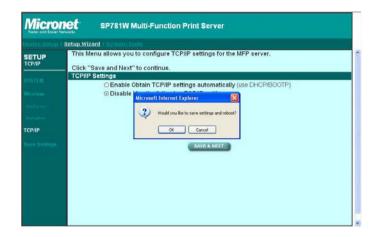


You can configure the MFP Server to automatically get IP from DHCP server or manually specify static IP.

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.

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

6.4.4 Save Settings



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

6.5 System Tools

6.5.1 Load Default



You can use this page to restore the factory default settings.

All of your previous setup will be cleared.

6.5.2 Upgrade Firmware from Browser



You can upgrade new firmware for this MFP Server in this page. Click "**Browse**" to select the new 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 or the MFP Server can't turn back to normal configuration.

7. 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 on the network. MFP Server can support LPR printing by default.

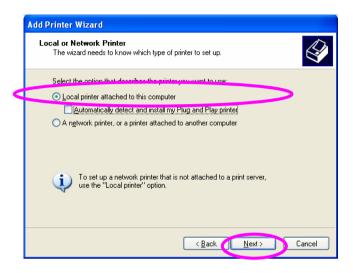
If you install the MFP Server in Windows 98SE/Me/NT, the MFP Server provides a tool "**Network Port Setup**" that helps to add the LPR protocol to users' computer easily. Please refer to Chapter 10. To configure the LPR setting in Windows 2000/XP/2003, please follow the steps below.

- Click "Start", choose "Settings" and select "Printers and Faxes". Click "Add a Printer".
- 2. The "The computer with Windows 98SE/Me/NT/2000/XP/2003

operating system" is displayed. Click "Next".

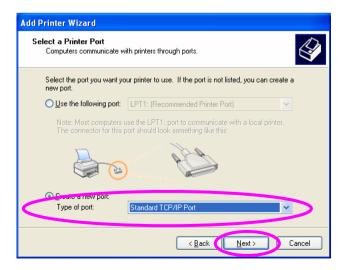


 Select "Local Printer attached to this computer" and click "Next".



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

"Next".



 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".



6. Enter the IP Address of the MFP Server in the "Printer Name or

IP Address". Click "Next".

Add Standard TCP/IP Printer F	Port Wizard	×
Add Port For which device do you want	to add a port?	
Enter the Printer Name or IP ac	dress, and a port name for the desired device.	
Printer Name or IP <u>Address</u> :	192.168.2.2	
Port Name:	IP_192.168.2.2	
	< <u>B</u> ack N ext > →	Cancel

 Select "Custom" and click "Settings". When you have finished the settings at step 8, click "Next" to continue.

Add Standard TCP/IP Printer Port Wizard	×
Additional Port Information Required The device could not be identified.	
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct. Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.	3
Device Type	
O Standard Generic Network Card	~
© Lustom Settings	
<u> < B</u> ack (<u>N</u> ext >) (Cancel

Select "LPR" and enter "Ipt1" in the "Queue Name", click "OK".
 By default the queue name of the MFP Server is "Ipt1".

Configure Standard TCP/IP	Port Monitor 🛛 🛛 🛛 🛛
Port Settings	
Port Name:	IP_192.168.2.2
Printer Name or IP <u>A</u> ddress:	192.168.2.2
Protocol O <u>B</u> aw	<u>⊙ </u> <u>L</u> PR
Raw Settings	
Port Number: 9100	
Queue Name: Ipt1	
LPR Byte Counting Enabled	d
SNMP Status Enabled	
<u>C</u> ommunity Name: public	2
SNMP <u>D</u> evice Index: 1	
	OK Cancel

9. Click "Finish".

Add Standard TCP/IP Printer Port Wizard		×	
	тср/ір	ting the Add Standard Printer Port Wizard ected a port with the following characteristics.	
	SNMP: Protocol: Device: Port Name: Adapter Type:	Yes LPR, lpt1 192168.2.2 IP_192168.2.2	
	To complete t	his wizard, click Finish.	
		< Back Finish Cancel)

10. 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.

Add Printer Wizard		
Install Printer Software The manufacturer and model determine which printer software to use.		
	d model of your printer. If your printer came with an installation Ir printer is not listed, consult your printer documentation for	
Manufacturer 🔼	Printers 🔼	
Gestetner HP IBM	HP LaserJet IIP PostScript Cartridge v52.2 HP LaserJet HP LaserJet HP LaserJet Plus	
infotec Iwatsu 🗸	🛱 HP LaserJet Series II	
This driver is digitally signed.	Windows Update Have Disk	
	< Back Next > Cancel	

Choose to set the print whether as a default printer or not. Click
 "Next".

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name: HP LaserJet
Do you want to use this printer as the default printer?
⊙Yes
O №
<u>⟨B</u> ack <u>N</u> ext > Cancel

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

Add Printer Wizard		
	Wizard You have suc	ccessfully completed the Add Printer Wizard.
	Name:	
	To close this	wizard, click Finish.

8. 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.

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



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

Add Printer Wizard	
Local or Network Printer The wizard needs to know which type of printer to set up.	
Select the option that describes the printer you want to use:	
Local printer attached to this computer	
Automatically detect and install my Plug and Play printer	
A network printer, or a printer attached to another computer	
To set up a network printer that is not attached to a print server, use the "Local printer" option.	
< <u>B</u> ack ↓ <u>N</u> ext > ↓ Car	ncel

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

Add Printer Wizard		
Select a Printer Port Computers communicate with printers through ports.		
Select the port you want your printer to use. If the port is not listed, you can create a new port.		
◯ Use the following port: LPT1: (Recommended Printer Port)		
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:		
Croate a new port: Type of port:		
< Back Next > Cancel		

 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".



 Enter the IP Address of the MFP Server in the "Printer Name or IP Address". Click "Next".

Add Standard TCP/IP Printer Port Wizard		
Add Port For which device do you want to add a port?		
Enter the Printer Name or IP add	dress, and a port name for the desired device.	
Printer Name or IP <u>A</u> dd.ess:	192.168.2.2	
<u>P</u> ort Name:	IP_192.168.2.2	
	< Back	Cancel

 Select "Custom" and click "Settings". When you have finished the settings at step 9, click "Next" to continue.

	Add Standard TCP/IP Printer Port Wizard		
	Additional Port Information Required The device could not be identified.		
	The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct.		
	Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.		
	Device Type		
4	○ Standard Generic Network Card ○ Lustom Settings		
	< <u>B</u> ack Next > Cancel		

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

Configure Standard TCP/IP Port Monitor			
Port Settings			
Port Name:	IP_192.168.2.2		
Printer Name or IP <u>A</u> ddress:	192.168.2.2		
Protocol	● LPR		
Raw Settings Port <u>N</u> umber:	9100		
LPR Settings			
Queue Name:	pt1		
LPR Byte Counting En	abled		
SNMP Status Enabled			
<u>C</u> ommunity Name:	public		
SNMP <u>D</u> evice Index:	1		
OK Cancel			

10. Click "Finish".

Add Standard TCP/IP Printer Port Wizard			
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type:	No RAW, Port 9100 192.168.2.2 IP_192.168.2.2	
	To complete t	his wizard, click Finish.	
		< <u>B</u> ack Finish Cancel	

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.

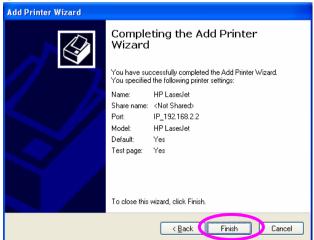
Add Printer Wizard		
Install Printer Software The manufacturer and model de	etermine which printer software to use.	
	model of your printer. If your printer came with an installation printer is not listed, consult your printer documentation for	
Manufacturer 🔼	Printers	
Gestetner	HP LaserJet IIP PostScript Cartridge v52.2	
IBM	🖼 HP LaserJet 🖼 HP LaserJet Plus 🧰	
infotec Iwatsu	W HP LaserJet Series II	
This driver is digitally signed.	Windows Update Have Disk	
Tell me why driver signing is important		

12. Choose to set the print whether as a default printer or not. Click

dd	Printer Wizard
N	ame 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?
	⊙ <u>Y</u> es
	< Back Next > Canc

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





9. IPP Printing

9.1 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.

9.2 System Setup

9.2.1 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 real 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.

9.2.2 Client Side

You only need to perform Window's standard $\boldsymbol{Add}~\boldsymbol{New}$

Printer procedure.

- 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".

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use: Local printer attached to this computer A second printer attached to another computer A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back Next >>> Cancel

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 "Ipt1". One example of the URL is http://192.168.2.2:631/Ipt1. 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? Bro <u>w</u> se for a printer <u>C</u> onnect 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 Interpret or on a home or office network: URL: http://192.168.2.2:631/lpt1
Example: http://www.prinkers/myplinker/.printer
< Back

 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.

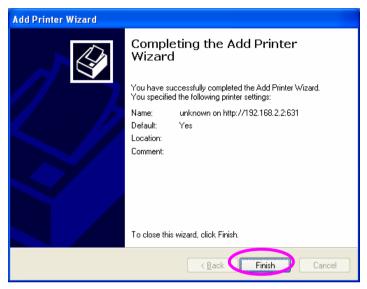
Add Printer Wizard			
Install Printer Software The manufacturer and model determine which printer software to use.			
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.			
Manufacturer Printers Generic HP LaserJet IIP Plus Gestether HP LaserJet IIP PostScript Cartridge v52.2 HBM HP LaserJet infotec HP LaserJet Plus			
This driver is digitally signed. <u>Tell me why driver signing is important</u>			
< <u>B</u> ack Next> Cancel			

7. Choose to set the print whether as a default printer or

not. Click "Next".

Add Pri	nter Wizard
Y	ult Printer 'our computer will always send documents to the default printer unless you specify therwise.
D	o you want to use this printer as the default printer?
0	DYes
C	No
	< Back Next > Cancel

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



10. 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 7, 8 and 9.

This chapter will introduce you how to install the MFP Server to be 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

10.1 Procedure

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

- 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 "MFP Server Installation".



 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".



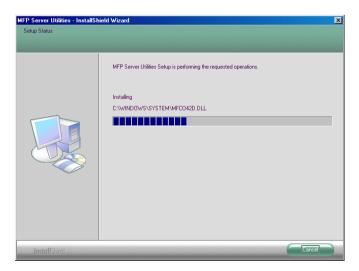
 The "MFP Server Utilities - InstallShield Wizard" will be displayed. Click "Next".

MFP Server Utilities - InstallSh	ield Wizard
	Print Server Utilities 1.1.2.8 Setup Welcome! This installation wizard will: 1) Copy all necessary utilities and drivers 2) Guide you through the MFP Server setup process
InstallShield	Cancel

 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.

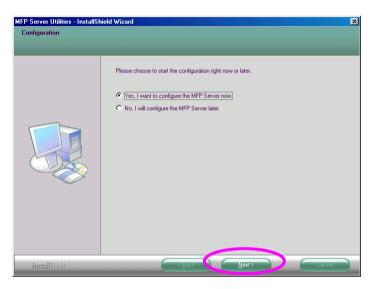
MFP Server Utilities - InstallSP Choose Destination Locatio Select folder where setup will in	
	Install MFP Server Utilities to: C: VProgram Files WHFP Server Utilities
Install Shield	

6. 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.



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

MFP Server List		×
Choose MFP server		
MFCA1719	If the MFP Server is installed for the first time,	
	the "MFP Server Name" is the last 6 digit of	
	MAC ID of the MFP Server with a "MF" prefix	
	Refresh	
	< Back Next> Cancel	

 Set the "Alias Name" and the MFP Server here. Click on "Next".

Name the MFP Se	rver X
Device name :	MFCA171C The unique serial number ot the MFP server
Alias Name :	MFCA1719 An alternative name for easy management
	< <u>B</u> ack Next > Cancel

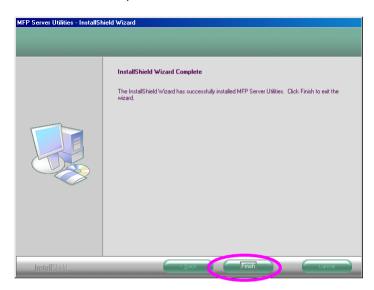
10.Setup the IP address of the MFP Server and click "Next".

Network Protocol and IP Address Configuration	×
_ TCP/IP	
C Assign the MFP Server an IP address	
IP Address 192.168.2.2	
Don't change	
Configure the IP Address later.	
< <u>B</u> ack <u>N</u> ext > Ca	ncel

11. The settings are finished click "Finish" to apply new settings.

Add Network Port	×
Device Name : PSCA171C Alias Name : MFCA1719 TCP/IP suppot : Enable IP Address Assignment : Manual IP Address : 192,168,2,2	Click "Finish", the program will add the Nerwork Port of the MFP Server to your PC automatically.
< <u>B</u> ack	Finish Cancel

12.Click "Finish" to complete the installation.



10.2 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 to your PC.

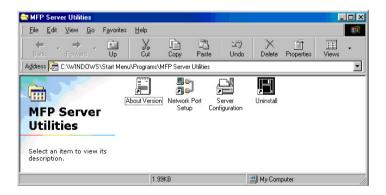
Server Configuration - Allows you to configure IP Address,

network protocols and other advanced functions. Please refer to

Chapter 6 for the detail instruction of the configuration.

Uninstall - Assistant for removing all installed software.

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



10.3 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 have just installed another new MFP Server on 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 procedure then 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

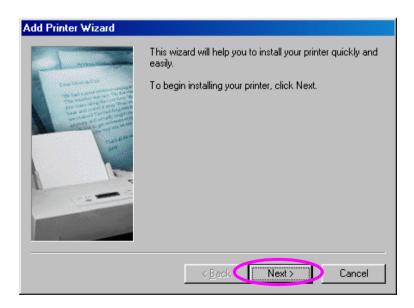
Network Ports Quick			
Available Ports	Chos	en Ports	
	> MFC	A1719-P1	OK
	>>>		Cancel
	<		
	<<		
Refresh	Que	le	_

across network segments.

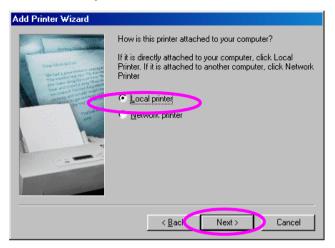
10.4 Add Printer

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 that 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".



 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.

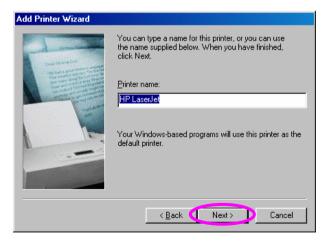
Add Prin	ter Wizard
I	Click the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Manufad Generic Gestetr Hermes IBM Kodak Kuncer	HP LaserJet IIP HP LaserJet IIP Plus HP LaserJet IIP PS Cartridge HP LaserJet IIP PS Cartridge HP LaserJet Plus HP LaserJet Plus
	< Back Next > Cancel

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

Add Printer Wizard	
	Click the port you want to use with this printer, and then click Next. <u>Available ports:</u> CDM1: Communications Port CDM4: Infrared Serial (CDM) Port FILE: Creates a file on disk LPT1: Printer Port LPT3: Infrared Printing (LPT) Port <u>MFCA1713-P1</u> <u>PrintServer Network Port</u>
	<pre> Configure Port < Back Next > Cancel </pre>

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

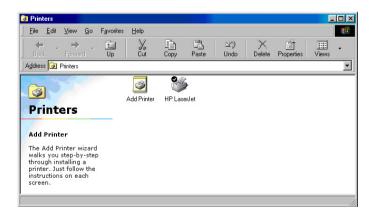
keep the default printer name.



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

Add Printer Wizard	
	After your printer is installed, Windows can print a test page so you can confirm that the printer is set up properly. Would you like to print a test page? Yes (recommended) No
	< Back Finish Cancel

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



11. UNIX System Network

11.1 Introduction

The MFP Server is available for TCP/IP printing by Unix LPD (Line Printer Daemon) protocol. The LPD protocol originated with Unix release is based on the BSD version of Unix and supported under most versions of Unix.

This chapter explains how to configure the MFP Server for TCP/IP operation, and how to modify configuration files on your Unix system to allow printing to the MFP Server. The configuration examples in this manual follow the syntax for BSD based Unix systems. Please refer to the related system documentation for the correct syntax of your systems. 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.

11.2 Enable TCP/IP Support

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

11.3 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 systems using any one of the following methods:

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

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

11.3.1 DHCP

There are many Unix systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. Please refer to the manual of Unix 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.

11.3.2 BOOTP

If you have the BOOTP daemon, bootpd, running on your UNIX 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,

 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

 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 specifies 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:

11.4 Verify The IP Address

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

ping ip-address

11.5 Configure Remote LPD Printing on the Host

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

- 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.
- 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 host for printing,

 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

 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

 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 host.

12. 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.

To enable LPR Printing in Macintosh, 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...".

Printing	Faxing	
Cset Up P	rinters)	
l printer in Print Dialog:	Last printer used	+
aper size in Page Setup:	US Letter	•
	Set Up F	Printing Faxing Set Up Printers I printer in Print Dialog: Last printer used aper size in Page Setup: US Letter

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

 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 "Ipt1". Printer Model: Select the MFP or Printer Model that is attached to the MFP Server.

00	Printer Setup U	Itility Edit View Printers Wi Printer List	ndow Help
Make		IP Printing	
In Men	Printer Type:	(LPD/LPR	
2	Printer Address:	192.168.1.227	
	Queue Name:	Complete and valid address.	e
	Queue Maine.	Leave blank for default queue	
	Printer Model:	EPSON	
	Model Name	20, 20121 0mp 1101 102.2	
	EPSON Stylus C	51, CUPS+Gimp-Print v4.2.5	6
		2, CUPS+Gimp-Print v4.2.5	
		70, CUPS+Gimp-Print v4.2.5 80, CUPS+Gimp-Print v4.2.5	A Y
		Cancel	Add

 The MFP Server is installed completely. You can see it in the "Printer List".

00						Printer List		C
000						Filitter List		~
H	<u> </u>	0	8-3	1 No.	6			
Make Defau	lt Add	Delete	Utility	ColorSync	Show Info			
Menu Na				Jacus		NIIU	Host	
V	a LPT1 on	192.16	8.1.227	15. C		EPSON Stylus C61, CUPS+Gimp-Print v4.2.5		>
		0.1041				EPSON Stylus Color 740 CUPS - Cimp. Print - HELD		
	🖶 PS12348	7_lpt1				EPSON Stylus Color 740, CUPS+Gimp-Print v4.2.5		

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

000	LPT1 on 192.168.1.227	0
Delete Hold	Resume Stop Jc Stop Jobs	
	SuperMario.jpg	
A WALL	Spooling LPR job, 55% complete	
Status	A Name	
Printing	SuperMario.jpg	
		1

13. Troubleshooting

- 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 turned 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 "MFP Admin".
- 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 setup to let the MFP
 Server get IP Address from the DHCP Server automatically.
 - 1. Open "MFP Admin" 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 "MFP Admin" and then select "TCP/IP" setting.

- 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 dramatically change the IP Address for MFP Server.

TCP/IP - MFCA1	719					
	Т	CP/IP				
TCP/IP Settings						
1 71 1 2	C Auto IP		,			
	IP Address :	192	168	2	2	-
	Subnet Mask :	255	255	255	0	
	Gateway :	0	0	0	0	
				Save		Cancel

- 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 as 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.
- 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. Printing from all PC connected to MFP server will be performed when the MFP Server is not being connected. The printing jobs are been queuing in the Windows spooler when there is a PC which is under connected with MFP Server.

- Disable "Bi-Directional Support". Please follow the steps below.
 - Right click the printer from "Printer and Faxes" in the Windows.
 - 2. Select "Properties" and select "Ports".
 - 3. Uncheck the "Enable bidirectional support ".

KONICA MINOLTA magicolor 2480MF Properties	? 🛛
General Sharing Ports Advanced Color Management A	bout
KONICA MINOLTA magicolor 2480MF	
Print to the following port(s). Documents will print to the first free checked port.	
Port Description Printer	<u>~</u>
LPT2: Printer Port	
LPT3: Printer Port	
COM1: Serial Port	
COM2: Serial Port	
COM3: Serial Port	
COM4: Serial Port	-
FILE: Print to File	<u> </u>
Add Port Delete Port Configur	e Port
Enable bidirectional support	
Enable printer pooling	
OK Cancel	Apply

• 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 June 2006. For the latest information, please contact with your dealer.

No.	Brand Name	١	Windows 2000 & XP				
	MFP Model	Print	Scan	Fax	Card Reader		
	EPSON						
1.	CX1500	\checkmark	\checkmark	N/A	N/A		
2.	CX3700	\checkmark	\checkmark	N/A	N/A		
3.	CX4700	\checkmark	\checkmark	N/A	\checkmark		
4.	PHOTO 4990 Scanner	N/A	~	N/A	N/A		
5.	RX430	\checkmark	\checkmark	N/A	\checkmark		
6.	RX510	\checkmark	\checkmark	N/A	\checkmark		
7.	RX520	\checkmark	\checkmark	N/A	\checkmark		
8.	RX530	\checkmark	\checkmark	N/A	\checkmark		
9.	RX630	\checkmark	\checkmark	N/A	\checkmark		
	LEXMARK						
10.	X3330	\checkmark	\checkmark	N/A	N/A		
11.	X3350	\checkmark	\checkmark	N/A	N/A		
12.	X5150	\checkmark	\checkmark	N/A	N/A		
13.	X6150	\checkmark	\checkmark	\checkmark	N/A		
14.	X6170	\checkmark	\checkmark	\checkmark	N/A		
	Konica Minolta						
15.	2480	\checkmark	\checkmark	N/A	N/A		

No.	Brand Name		Windows 2000 & XP				
		MFP Model	Print	Scan	Fax	Card Reader	
	HP						
16.		Laser Jet 1020 (GDI)	\checkmark	N/A	N/A	N/A	
17.		PSC 1210	\checkmark	\checkmark	N/A	N/A	
18.		PSC 1350	\checkmark	\checkmark	N/A	N/A	
19.		PSC 1410	\checkmark	\checkmark	N/A	N/A	
20.		PSC 1510	\checkmark	\checkmark	N/A	N/A	
21.		PSC 1610	\checkmark	\checkmark	N/A	\checkmark	
22.		PSC 2210	\checkmark	\checkmark		\checkmark	
23.		PSC 2310	\checkmark	\checkmark	N/A	\checkmark	
24.		PSC 2355	\checkmark	\checkmark	N/A	\checkmark	
25.		PSC 2410	\checkmark	\checkmark	N/A	\checkmark	
26.		PSC 2510	\checkmark	\checkmark	N/A	\checkmark	
27.		PhotoSmart 2575	\checkmark	\checkmark	N/A	\checkmark	
28.		PhotoSmart 2610	\checkmark	\checkmark		\checkmark	
29.		PhotoSmart 2710	\checkmark	\checkmark		\checkmark	
30.		PhotoSmart 3110	\checkmark	\checkmark		\checkmark	
31.		PhotoSmart 3310	\checkmark	\checkmark		\checkmark	
32.		Office Jet 4255	\checkmark	\checkmark		N/A	
33.		Office Jet 5510	\checkmark	\checkmark		N/A	
34.		Office Jet 5610	\checkmark	\checkmark		N/A	
35.		Office Jet 6110	\checkmark	\checkmark		N/A	
36.		Office Jet 6210	\checkmark	\checkmark		N/A	
37.		Office Jet 7210	\checkmark	\checkmark		\checkmark	
38.		Office Jet 7410	\checkmark	\checkmark		\checkmark	
39.		Office Jet 9100	\checkmark	\checkmark		\checkmark	

No.	Brand Name	Windows 2000 & XP				
	MFP Model	Print	Scan	Fax	Card Reader	
	CANON					
40.	MPC 190	\checkmark	\checkmark	N/A	N/A	
41.	PLXMA MP110	\checkmark	\checkmark	\checkmark	N/A	
42.	PLXMA MP130	\checkmark	\checkmark	\checkmark	N/A	
43.	PLXMA MP150	\checkmark	\checkmark	N/A	N/A	
44.	PLXMA MP170	\checkmark	\checkmark	N/A	\checkmark	
45.	PLXMA MP450	\checkmark	\checkmark	N/A	\checkmark	
46.	PLXMA MP700	\checkmark	\checkmark		\checkmark	
47.	PLXMA MP730	\checkmark	\checkmark		\checkmark	
48.	PLXMA MP780	\checkmark	\checkmark		\checkmark	
	Brother					
49.	MFC-210C	\checkmark	\checkmark	\checkmark	\checkmark	
50.	MFC-215C	\checkmark	\checkmark	\checkmark	\checkmark	
51.	MFC-2820	\checkmark	N/A	\checkmark	N/A	
52.	MFC-420CN	\checkmark	\checkmark	\checkmark	\checkmark	
53.	MFC-425CN	\checkmark	\checkmark	\checkmark	\checkmark	
54.	MFC-3240C	\checkmark	\checkmark	\checkmark	N/A	
55.	MFC-7420	\checkmark	\checkmark	\checkmark	N/A	
56.	MFC-7820N	\checkmark	\checkmark	\checkmark	N/A	
57.	MFC-8840D	\checkmark	\checkmark	\checkmark	N/A	
	Samsung					
58.	SF-565P	\checkmark	\checkmark	\checkmark	N/A	
59.	SCX-4100	\checkmark	\checkmark	N/A	N/A	
60.	SCX-4720F	\checkmark	\checkmark	\checkmark	N/A	

Note: "N/A" means that the MFP doesn't support the function.

"-- " means that the function is not being tested yet.