lenovo

CF2090DWA

Operating Instructions

Driver Installation Guide

For safe and correct use, be sure to read "Safety Information" before using the machine.

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1. Introduction

This chapter explains the software included on the provided CD-ROM.

Start Installer

To connect this machine to a client computer and use its printer, scanner, and fax functions, the software included on the provided CD-ROM must be installed on the client computer.

The installer starts automatically when you insert the provided CD-ROM into the CD-ROM drive of a client computer running under Windows or Windows Server. You can then install the various software included on the CD-ROM.

The contents (display item) of the installer are as follows:

USB Quick Install

Install the PCL 6 printer driver, and configure the PC to establish a connection with a printer using USB. The USB TWAIN driver is also installed by USB Quick Install.

For details, see page 11 "Quick Install for USB".

Network Quick Install

Install the PCL 6 printer driver, and configure the Standard TCP/IP port to establish a connection with a network printer. The Network TWAIN driver is also installed by Network Quick Install.

For details, see page 12 "Quick Install for Network".

PCL Printer Driver

Installs the PCL 6 and/or PCL 5c printer drivers.

For details about installing the driver, see page 13 "Installing the Printer Driver for a Network Connection" or page 20 "Installing the Printer Driver for a Local Connection".

PostScript 3 Printer Driver

Install the PostScript 3 printer driver.

For details about installing the driver, see page 13 "Installing the Printer Driver for a Network Connection" or page 20 "Installing the Printer Driver for a Local Connection".

LAN-Fax Driver

This software enables you to fax documents directly from your computer. LAN-Fax Address Book and LAN-Fax Cover Sheet Editor will also be installed.

For details about installing the driver, see page 31 "Installing the LAN-Fax Driver".

Network TWAIN Driver

This software enables you to utilize image data from other TWAIN compliant applications.

For details about installing the driver, see page 29 "Installing the Network TWAIN Driver".

Select Language

Change the interface language.

Browse This CD-ROM

Browse the contents of this CD-ROM.

Readme

Display the Readme file.

Driver Installation Guide

Display the Driver Installation Guide.

Read PDF manuals

Display PDF manuals.

Exit

Quit Installer.

Note

- Manage Printers permission is required to install the driver. Log on as an Administrators group member.
- Auto Run might not work automatically with certain OS settings. If this is the case, double-click "SETUP.EXE", located on the CD-ROM root directory, or click [Run SETUP.EXE] in the [AutoPlay] dialog box.
- If you want to cancel Auto Run, hold down the left [Shift] key while inserting the CD-ROM. Keep the [Shift] key held down until the computer stops reading the CD-ROM.

Software and Utilities Included on the CD-ROM

This section explains the software and utilities CD-ROM provided with this machine.

Note

- For the latest information on the corresponding operating system, see "Readme.txt" file in the root directory of the CD-ROM drive.
- For the latest information on Windows terminal service, Citrix Presentation Server, and Citrix Xen App, see the manufacturer's Web site.

Printer Drivers

Printing requires installation of a printer driver for your operating system. The following drivers are included on the CD-ROM.

Operating System *1	Printer Language		
	PCL 5c	PCL 6	PostScript 3
Windows Vista *2	OK	OK	OK
Windows 7 *3	OK	OK	OK
Windows 8 *4	OK	OK	OK
Windows 8.1 *5	OK	OK	OK
Windows Server 2003 *6	OK	OK	OK
Windows Server 2008 *7	OK	OK	OK
Windows Server 2012 *8	OK	OK	OK
Mac OS X *9	–	–	OK

*1 Windows operating system supports both versions (32/64 bit)

*2 Microsoft Windows Vista Ultimate/Microsoft Windows Vista Enterprise/Microsoft Windows Vista Business/Microsoft Windows Vista Home Premium/Microsoft Windows Vista Home Basic

*3 Microsoft Windows 7 Home Premium/Microsoft Windows 7 Professional/Microsoft Windows 7 Ultimate/Microsoft Windows 7 Enterprise

*4 Microsoft Windows 8/Microsoft Windows 8 Pro/Microsoft Windows 8 Enterprise

*5 Microsoft Windows 8.1/Microsoft Windows 8.1 Pro/Microsoft Windows 8.1 Enterprise

*6 Microsoft Windows Server 2003 Standard Edition/Microsoft Windows Server 2003 Enterprise Edition/ Microsoft Windows Server 2003 R2 Standard Edition/Microsoft Windows Server 2003 R2 Enterprise Edition

*7 Microsoft Windows Server 2008 Standard/Microsoft Windows Server 2008 Enterprise/Microsoft Windows Server 2008 R2 Standard/Microsoft Windows Server 2008 R2 Enterprise

*8 Microsoft Windows Server 2012 Foundation/Microsoft Windows Server 2012 Essentials/Microsoft Windows Server 2012 Standard/Microsoft Windows Server 2012 Datacenter/Microsoft Windows Server 2012 R2 Foundation/Microsoft Windows Server 2012 R2 Essentials/Microsoft Windows Server 2012 R2 Standard

*9 Mac OS X 10.6 or later

PCL printer drivers

Two kinds of PCL printer driver (PCL 5c and PCL 6) are included. These drivers allow your computer to communicate with this machine via a printer language.

Adobe® PostScript® printer driver and PPD files

Adobe PostScript printer driver allows the computer to communicate with the printer using a printer language. PPD files allow the printer driver to enable specific printer functions.

Depending on the machine you are using, PostScript 3 unit must be installed.

Note

- Some applications may require installation of the PCL 5c printer driver. In this case, you can install PCL 5c without having to install PCL 6.
- For details about installing the driver, see page 13 "Installing the Printer Driver for a Network Connection" or page 20 "Installing the Printer Driver for a Local Connection".

Supported languages

The interface language is supported in English or Simplified Chinese.

Network TWAIN Driver

This driver is required to scan an original using a scanner. To use the machine as a network TWAIN scanner, this driver must be installed.

File path

The driver is included in the following folder on the CD-ROM:

`\DRIVERS\TWAIN`

System requirements

- Operating system *1

  Windows Vista/7/8/8.1

Windows Server 2003/2003 R2/2008/2008 R2/2012/2012 R2

Mac OS X 10.6 or later

*1 TWAIN scanner runs on a 64-bit operating system, but is not compatible with 64-bit applications. Use it with 32-bit applications.

- Display resolution

  800 × 600 pixels, 256 colors or higher

Supported languages

The interface language is supported in the language specified when installing driver.

Note

- For details about installing the driver, see page 29 "Installing the Network TWAIN Driver".

LAN-Fax Driver

This driver is required to use LAN-Fax functions.

File path

The driver is included in the following folder on the CD-ROM:

- 32-bit driver

  `\DRIVERS\LAN-FAX\XP_VISTA`

- 64-bit driver

  `\DRIVERS\LAN-FAX\X64`

System requirements

- Operating systems

  Windows Vista/7/8/8.1

  Windows Server 2003/2003 R2/2008/2008 R2/2012/2012 R2

- Display

  VGA 640 × 480 pixels or more

Supported languages

The interface language is supported in the language specified when installing driver.

Note

- For details about installing the driver, see page 31 "Installing the LAN-Fax Driver".

For Mac OS X Users

If you are using Mac OS X, the following limitations apply to each function:

- When using the scanner function, the TWAIN Driver cannot be used.
- When using the fax function, the LAN-Fax Driver cannot be used.
- When using the printer function, use the printer driver for Mac OS X.

  For details, see page 39 "Installing the Driver Under Mac OS X".

2. Installing the Printer Driver

This chapter explains how to install and configure the printer drivers for use on the Windows operating system.

Confirming the Connection Method

This machine supports network and local connection.

Before installing the printer driver, check how the machine is connected. Follow the driver installation procedure that is appropriate to the connection method.

Network Connection

This machine can be used as a Windows printing port or network printer.

Using the Windows printing port

Network connections can be established over Ethernet and Wireless LAN.

Connection Method	Available Ports
• Ethernet • Wireless LAN	• Standard TCP/IP port • IPP port

Note

- For details about how to install the printer driver for each type of port, see page 13 "Installing the Printer Driver for the Selected Port".

Using as a network printer

This machine can be used as a remote printer using the Windows or NetWare print server function.

Client OS	Using Server
• Windows Server 2003/2003 R2	• Windows Vista print server • Windows 7 print server • Windows 8 print server • Windows 8.1 print server • Windows Server 2003/2003 R2 print server • Windows Server 2008/2008 R2 print server • Windows Server 2012/2012 R2 print server • NetWare print server (using IPv4 only) • NetWare file server (using IPv4 only)
• Windows Vista • Windows 7 • Windows 8 • Windows 8.1 • Windows Server 2008/2008 R2 • Windows Server 2012/2012 R2	• Windows Vista print server • Windows 7 print server • Windows 8 print server • Windows 8.1 print server • Windows Server 2003/2003 R2 print server • Windows Server 2008/2008 R2 print server • Windows Server 2012/2012 R2 print server

Note

- For details about how to install the printer driver to print server, see page 16 "Using as a Network Printer".

Local Connection

Local connections can be established over USB.

Note

- For details about how to install the printer driver for each method of connections, see page 20 "Installing the Printer Driver for a Local Connection".

Quick Install for USB

You can install the printer drivers easily from the CD-ROM provided with this machine.

Using USB Quick Install, the PCL6 printer driver is installed for use with a USB connection with the printer.

The USB TWAIN driver is also installed by USB Quick Install.

Important

- **Manage Printers permission is required to install the drivers. Log on as an Administrators group member.**
- **Do not turn the machine on until you have read how to do so.**
- **Do not connect the USB cable to the machine until a message to do so appears.**

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".
4. **Click [USB Quick Install].**
5. **The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].**
6. **Click [Install this driver software anyway].**
7. **Select the method to install a printer driver, and then click [Next].**
8. **Select the machine model you want to use, and then click [Next].**
9. **Make sure the machine is turned off and not connected to the computer, and then click [Next].**

   Wait for a moment until file copying is complete.
10. **Connect the machine and the computer with a USB cable, and then turn on the machine.**

    The auto-detecting starts.

    To cancel the auto-detecting, click [Stop Auto-detecting].
11. **In the confirmation dialog box, select [Yes] if you want to use the machine as your default printer.**
12. **Click [Finish].**

    When you are prompted to restart your computer, restart it by following the instructions that appear.
13. **Click [Exit] in the first window of the installer, and then take out the CD-ROM.**

Quick Install for Network

You can install the printer drivers easily from the CD-ROM provided with this machine.

Using Network Quick Install, the PCL6 printer driver is installed under network environment, and the Standard TCP/IP port will be set.

The Network TWAIN Driver is also installed by Network Quick Install.

Important

- **Manage Printers permission is required to install the drivers. Log on as an Administrators group member.**

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".
4. **Click [Network Quick Install].**
5. **The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].**
6. **Select the method to install a printer driver, and then click [Next].**
7. **Select the method to add a printer driver, and then click [Next].**

   Make sure select [Search for printers automatically].

   You can select the other Items.
8. **Make sure the machine is turned on and connected to the network, and then click [Next].**
9. **Select the printer, and then click [Next].**
10. **Make sure the printer settings, and then click [Continue].**
11. **Click [Install this driver software anyway].**
12. **Click [Finish].**

    When you are prompted to restart your computer, restart it by following the instructions that appear.
13. **Click [Exit] in the first window of the installer, and then take out the CD-ROM.**

Installing the Printer Driver for a Network Connection

This section describes the installation procedure of the printer drivers for network connection.

Important

- **Manage Printers permission is required to install the driver. Log on as an Administrators group member.**

Note

- If the [User Account Control] dialog box appears during the driver installation procedure, click [Yes] or [Continue].
- If the [Windows Security] dialog box appears during the driver installation procedure, click [Install this driver software anyway].
- A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [Add Printer]. See page 35 "Messages Displayed When Installing the Printer Driver".

Installing the Printer Driver for the Selected Port

Describes the driver installation procedure for each printer port. See the installation procedure for the printer port you are using.

Port Type	Printer Driver Type	Reference
Standard TCP/IP port	PCL PS3	page 13 "Using the Standard TCP/IP port"
IPP port	PCL PS3	page 14 "Using the IPP port"

Using the Standard TCP/IP port

PCL PS3

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".
4. **Click [PCL Printer Driver] or [PostScript 3 Printer Driver].**

5. **The software license agreement appears in the [License Agreement]] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].**

   If installing the PostScript 3 printer driver, click [Add a network, wireless or Bluetooth printer]. And then follow the instructions on the screen.

6. **Select the check box of a printer driver you want to use, and then click [Next].**
7. **Select the method to install a printer driver, and then click [Next].**
8. **Select the method to add a printer driver, and then click [Next].**

   Make sure select [Connect to a printer port or LAN] and [Search for printers automatically].

   You can select the other Items.

9. **Make sure the machine is turned on and connected to the network, and then click [Next].**
10. **Select the printer, and then click [Next].**
11. **Make sure the printer settings, and then click [Continue].**
12. **Click [Finish].**

    If you can install the other printer driver, select the other printer driver, and then click [Next].

13. **Click [Finish].**

    If [Yes. Restart right now.] is selected, your computer restarts.

    If you do not want to restart your computer, select [No. Restart later.].

Using the IPP port

PCL | PS3

Important

- Installation of the certificate is especially necessary for users who want to print via IPP-SSL from Windows Vista/7/8/8.1 or Windows Server 2008/2008 R2/2012/2012 R2. For details, consult your administrator.
- If a certificate authority issues a certificate that must be authenticated by an intermediate certificate authority, and the certificate is installed on this machine, an intermediate certificate must be installed on the client computer. Otherwise, validation by the certificate authority will not be performed correctly.
- If validation cannot be performed properly, a warning message informing you that installation is not possible might appear when you try to add a printer using IPP-SSL under Windows Vista/7/8/8.1 or Windows Server 2008/2008 R2/2012/2012 R2. To enable authentication from the client computer, install the intermediate certificate on the client computer, and then reestablish connection.
- Intermediate certificates cannot be installed on this machine.

1. **Quit all applications. (Do not close this manual.)**

2. **On the [Start] menu, click [Devices and Printers].**
3. **Click [Add a printer].**
4. **Click [Add a network, wireless or Bluetooth printer].**
5. **Click [The printer that I want isn't listed].**
6. **In the [Select a shared printer by name] box, enter "http://(machine's IP address or host name)/printer (or ipp)" as the printer's address, and then click [Next].**
7. **Click [Have Disk...].**
8. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Close].
9. **Click [Browse...], and then specify a location for the INF file.**

   If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:

   - PCL 5c

     32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1
   - PCL 6

     32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1
   - PostScript 3

     32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".
10. **Click [Open].**
11. **Click [OK] to close the [Install From Disk] window.**
12. **Select the manufacturer and model name of the machine you want to use, and then click [Next].**

    The installation starts.
13. **Follow the instructions that appear. Modify settings such as printer name and default printer configuration, as necessary. You can also print a test page.**
14. **Click [Finish].**

    If a check box for setting the machine as a default printer appears, configure as necessary.

Using as a Network Printer

Describes the driver installation procedure for each print server. See the installation procedure for the print server you are using.

Important

- **When using NetWare, an optional NetWare unit is required.**

Server OS	Client OS	Printer Driver Type	Reference
Windows Server	Windows	PCL PS3	page 16 "Using Windows print server"
NetWare	Windows	PCL PS3	page 17 "Using NetWare print server"

Using Windows print server

PCL PS3

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".
4. **Click [PCL Printer Driver] or [PostScript 3 Printer Driver].**
5. **The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].**

   If installing the PostScript 3 printer driver, click [Add a network, wireless or Bluetooth printer]. And then follow the instructions on the screen.
6. **Select the check box of a printer driver you want to use, and then click [Next].**
7. **Select the method to install a printer driver, and then click [Next].**
8. **Make sure select [Connect to a printer port or LAN], and select [Select a port or specify a new port], and then click [Next].**
9. **Click [Specify a new port], and then click [Next].**
10. **Click [Network Printer], and then click [Next].**
11. **Double-click the computer name you want to use as a print server in the [Browse for Printer] window.**

12. **Select the printer you want to use, and then click [OK].**
13. **Check that the port of the selected printer is displayed in [Port :].**
14. **Configure the user code, default printer, and shared printer as necessary.**
15. **Click [Continue].**

    The installation starts.
16. **Click [Finish].**

    Select one of the options to restart the computer either now or later, and then click [Finish].

Using NetWare print server

PCL PS3

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".
4. **Click [PCL Printer Driver] or [PostScript 3 Printer Driver].**
5. **The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].**

   If installing the PostScript 3 printer driver, click [Add a network, wireless or Bluetooth printer]. And then follow the instructions on the screen.
6. **Select the check box of a printer driver you want to use, and then click [Next].**
7. **Select the method to install a printer driver, and then click [Next].**
8. **Make sure select [Connect to a printer port or LAN], and select [Select a port or specify a new port], and then click [Next].**
9. **Click [Specify a new port], and then click [Next].**
10. **Click [Network Printer], and then click [Next].**
11. **Double-click the name of the NetWare file server on the network tree.**

    The created queue is displayed.
12. **Select the print queue, and then click [OK].**
13. **Check that the port of the selected printer is displayed in [Port :].**
14. **Click [Continue].**

    The installation starts.
15. **Click [Finish] in the [Select Program] dialog box.**

16. **After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].**

    Restart the computer to complete installation.

17. **After restarting the computer, on the [Start] menu, open the printer window.**
18. **Right-click the machine's icon, and then open the printer properties dialog box.**
19. **Click the [NetWare Settings] tab.**
20. **Clear the [Form Feed] and [Enable Banner] check boxes.**

    Do not select these check boxes since they are automatically selected by the printer driver. If you select the check boxes, the printer may not print correctly.

21. **Click [OK].**

Note

- The protocol is set to inactive as default. Enable the protocol on the control panel, using Web Image Monitor or telnet.

Notes when using NetWare

Form Feed

Do not use NetWare to configure form feed. Form feed is controlled by the printer driver on Windows. If NetWare form feed is configured, the printer may not print properly.

Follow the procedure below to disable form feed according to the operating system used:

- Clear the [Form feed] check box on the [NetWare Settings] tab in the printer properties dialog box.

Banner Page

Do not use NetWare to configure banner page.

Follow the procedure below to disable banner page according to the operating system used:

- Clear the [Enable banner] check box on the [NetWare Settings] tab in the printer properties dialog box.

When using the PostScript 3 Printer Driver

Follow the procedure below to set up the PostScript 3 printer driver.

1. On the [Start] menu, select [Printers and Faxes].
2. Right-click the printer's icon, and then click [Properties].
3. Click the [Device Settings] tab.
4. Select [No] on the [Send CTRL-D Before Each Job:] and [Send CTRL-D After Each Job:], and then click [Apply].
5. Click [OK].

Printing after Resetting the Printer

Printer to print server connection requires 30–40 seconds to resume after the printer is reset. During this period, jobs may be accepted (depending on NetWare specifications) but not printed.

To print after resetting the printer as the remote printer, check on the print server that the remote printer is disconnected, or wait for two minutes before trying to print.

Installing the Printer Driver for a Local Connection

This section describes the installation procedure of the printer drivers for USB connection.

Important

- **Manage Printers permission is required to install the driver. Log on as an Administrators group member.**

Note

- If the [User Account Control] dialog box appears in driver installation procedure, click [Yes] or [Continue].
- If the [Windows Security] dialog box appears in driver installation procedure, click [Install this driver software anyway].
- A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use [Add Printer]. See page 35 "Messages Displayed When Installing the Printer Driver".

USB Connection

This section explains how to install the printer drivers using USB.

Before installing, check that only the operating system is running on the computer and no print jobs are in progress.

If the printer driver has already been installed, and plug and play is enabled, the icon of the printer connected to the "USB" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

If the printer driver is not installed, follow the plug-and-play instructions of the machine to install it from the CD-ROM provided with this machine.

Note

- To disable Auto Run, press the left Shift key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.

Windows Server 2003/2003 R2

1. **Quit all applications. (Do not close this manual.)**
2. **Check that the power of the machine is off.**
3. **Connect the machine and computer using the USB cable.**

   Connect the USB cable firmly.

4. **Turn on the power of the machine.**

   Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

5. **Select [No, not this time], and then click [Next].**
6. **Click [Install from a list or specific location [Advanced]], and then click [Next].**
7. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If Auto Run starts, click [Cancel] and then [Exit].

8. **Select the [Search removable media (floppy, CD-ROM...)] check box under [Search for the best driver in these locations.], and then click [Next].**
9. **Select the name of the machine whose driver you want to install.**

   Check the location where the source files of the printer driver is stored.

   If the CD-ROM drive is D, the source files are stored in the following locations:

   - PCL 5c

     32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1

   - PCL 6

     32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1

   - PostScript 3

     32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".

10. **Click [Next].**

    The installation starts.

11. **Click [Finish].**

    If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

    The number after "USB" varies depending on the number of printers connected.

Windows Vista, Windows Server 2008

1. **Quit all applications. (Do not close this manual.)**
2. **Check that the power of the machine is off.**

3. **Connect the machine and computer using a USB cable.**

   Connect the USB cable firmly.

4. **Turn on the power of the machine.**

   Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

5. **In the [Found New Hardware] window, click [Locate and install driver software (recommended)].**

6. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Close].

7. **Select the name of the machine whose driver you want to install.**

   Check the location where the source files of the printer driver is stored.

   If the CD-ROM drive is D, the source files are stored in the following locations:

   - PCL 5c

     32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1

   - PCL 6

     32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1

   - PostScript 3

     32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1

   For details about the languages supported in the printer drivers, see page 6 "Supported languages".

8. **Click [Next].**

   The installation starts.

9. **Click [Close].**

   If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

   The number after "USB" varies depending on the number of printers connected.

Windows 7, Windows Server 2008 R2

1. **Quit all applications. (Do not close this manual.)**
2. **Check that the power of the machine is off.**

3. **Connect the machine and computer using a USB cable.**

   Connect the USB cable firmly.

4. **Turn on the power of the machine.**

   Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

5. **Click [Devices and Printers] from the [Start] menu.**
6. **Double-Click the icon of machine you want to use in the [Unspecified] category.**
7. **Click the [Hardware] tab.**
8. **Click [Properties].**
9. **Click the [General] tab.**
10. **Click [Change settings].**
11. **Click [Driver] tab.**
12. **Click [Update Driver...].**
13. **Click [Browse my computer for driver software].**
14. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

    If the [AutoPlay] dialog box appears, click [Close].

15. **Click [Browse], and then select the printer driver location.**

    If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:

    - PCL 5c

      32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1

      64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1

    - PCL 6

      32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1

      64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1

    - PostScript 3

      32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1

      64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1

    For details about the languages supported in the printer drivers, see page 6 "Supported languages".

16. **Click [Next].**

    The installation starts.

17. **Click [Close].**

    If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

The number after "USB" varies depending on the number of printers connected.

Windows 8/8.1, Windows Server 2012/2012 R2

1. **Quit all applications. (Do not close this manual.)**
2. **Check that the power of the machine is off.**
3. **Connect the machine and computer using a USB cable.**

   Connect the USB cable firmly.
4. **Turn on the power of the machine.**

   Found New Hardware Wizard starts, and USB Printing Support is installed automatically.
5. **Click [Devices and Printers] from the [Start] menu.**
6. **Double-Click the icon of machine you want to use in the [Unspecified] category.**
7. **Click the [Hardware] tab.**
8. **Click [Properties].**
9. **Click the [General] tab.**
10. **Click [Change settings]**
11. **Click [Driver] tab.**
12. **Click [Update Driver...].**
13. **Click [Browse my computer for driver software].**
14. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

    If the [AutoPlay] dialog box appears, click [Close].
15. **Click [Browse], and then select the printer driver location.**

    If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:

    - PCL 5c

      32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1

      64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1
    - PCL 6

      32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1

      64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1
    - PostScript 3

      32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1

      64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1

    For details about the languages supported in the printer drivers, see page 6 "Supported languages".

16. **Click [Next].**

    The installation starts.

17. **Click [Close].**

    If the printer driver has already been installed and plug and play is enabled, the icon of the printer connected to the "USB001" port is added to the [Printers], [Printers and Faxes], or [Devices and Printers] window.

    The number after "USB" varies depending on the number of printers connected.

Configuring Option Settings for the Printer

When bidirectional communication works correctly, your computer obtains information about option, paper size and paper feed direction settings from the machine automatically. Bidirectional communication also allows you to monitor machine status.

When bidirectional communication is disabled, you have to set up option, paper size and paper feed direction settings on your computer manually.

Conditions for Bidirectional Communication

To support bidirectional communication, the following conditions must be met:

When connected with the network

- The Standard TCP/IP port must be used.
- In addition to the above, one of the following conditions must also be met:
  - The TCP/IP protocol or the IPP protocol is used. (When using the IPP protocol, the IPP port name must include the IP address.)

When connected with USB

- The machine must be connected to the computer's USB port using the USB interface cable.
- The computer must support bidirectional communication.
- [Enable bidirectional support] must be selected, and [Enable printer pooling] must not be selected on the [Ports] tab with the printer driver.

Note

- The PCL 6 and PostScript 3 printer drivers support bidirectional communication and automatic printer status updates.
- To obtain printer information automatically using the bidirectional communication function of the PCL 6 or PostScript 3 printer driver, you must click the [Update Now] on the [Accessories] or [Paper Size Settings] tab in the printer driver's properties window.
- The PCL 5c printer driver supports bidirectional communication. You can update the printer status manually.

If Bidirectional Communication is Disabled

This section describes how to set up option and setting of paper size for each tray on your computer manually.

Important

- **Manage Printers permission is required to change the printer properties. Log on as an Administrators group member.**

1. **Open the printer window.**
   - Windows Server 2003:

     On the [Start] menu, select [Printers and Faxes].
   - Windows Vista, Windows Server 2008:

     On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.
   - Windows 7, Windows Server 2008 R2:

     On the [Start] menu, select [Devices and Printers].
   - Windows 8/8.1, Windows Server 2012/2012 R2:

     On the desktop, point to the bottom-right corner, click [Settings], [Control Panel], and then [View devices and printers].
2. **Open the printer properties dialog box.**
   - Windows Vista, Windows Server 2003/2008:

     Right-click the machine's icon, and then click [Properties].
   - Windows 7/8/8.1, Windows Server 2008 R2/2012/2012 R2:

     Right-click the machine's icon, and then click [Printer properties].
3. **Click the [Accessories] tab.**
4. **Select options installed from the [Options] area, and then make the necessary settings.**
5. **Click [Paper Size Settings] tab.**
6. **In [Input Tray:] select which trays to use, and then, in [Paper Size:] select the size of the paper that you want to load in each tray.**

   Click [Update] to apply the setting for each tray.
7. **Click [Apply].**
8. **Click [OK] to close the printer properties window.**

Note

- For details about making option settings for the machine using a Mac OS X, see page 43 "Configuring Option Settings for the Printer Under Mac OS X".

3. Installing the Scanner Driver

This chapter explains how to install the scanner driver on a client computer.

Installing the Network TWAIN Driver

This section explains how to install the Network TWAIN Driver only.

To use the network TWAIN scanner, you must install the Network TWAIN Driver on a client computer.

Note

- Using USB Quick Install, both the printer driver and USB TWAIN driver are installed. For details about quick install, see page 11 "Quick Install for USB".
- Using Network Quick Install, both the printer driver and Network TWAIN Driver are installed. For details about quick install, page 12 "Quick Install for Network".

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the Network TWAIN Driver, see page 6 "Network TWAIN Driver".
4. **Click [Network TWAIN Driver].**
5. **The installer of the Network TWAIN Driver starts. Follow the instructions.**

Note

- Before you start the installation, check the system requirements for the Network TWAIN Driver. For details about the system requirements, see page 5 "Software and Utilities Included on the CD-ROM".
- When the installation is complete, a message about restarting the client computer may appear. In this case, restart the client computer.
- After the installation is complete, a folder with the name of the machine in use is added in [Programs] or [All Programs] on the [Start] menu, or in [Default Programs] on the [Apps] screen. Help can be displayed from here.
- Notes on using the network TWAIN scanner are provided in "Readme.txt". Be sure to read them before use.

4. Installing the Facsimile Driver

This chapter explains how to install and configure the facsimile driver on a client computer.

Installing the LAN-Fax Driver

LAN-Fax Address Book and LAN-Fax Cover Sheet Editor are installed with the LAN-Fax Driver. LAN-Fax Address Book helps you edit LAN-Fax transmission destinations. LAN-Fax Cover Sheet Editor helps you edit LAN-Fax cover sheets.

Important

- **Manage Printers permission is required to install the drivers. Log on as an Administrators group member.**
- **In an IPv6 environment, you cannot use the Standard TCP/IP port.**

Specifying the Same Port as the Printer Driver

If a port name that is the same as one that is already in use by the existing driver is specified, the LAN-Fax Driver installation may fail. If the printer driver is already installed, make sure that the port numbers of the LAN-Fax Driver and the printer driver match.

1. **Quit all applications. (Do not close this manual.)**
2. **Insert the provided CD-ROM into the computer's CD-ROM drive.**

   If the [AutoPlay] dialog box appears, click [Run SETUP.EXE].
3. **Select an interface language, and then click [OK].**

   For details about the languages supported in the LAN-Fax Driver, see page 7 "LAN-Fax Driver".
4. **Click [LAN-Fax Driver].**
5. **The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next].**
6. **Click [Next].**
7. **Select a port to set, and then click [Next].**
8. **Click [Port:].**
9. **Select the same port as the one selected in the printer driver from the [Change settings for 'Port'] drop-down list.**
10. **Click [Continue].**

    The installation starts.
11. **Click [Finish].**

    Select one of the options to restart the computer either now or later, and then click [Finish].

Specifying the Port When Installing the LAN-Fax Driver

To specify a port that is different from the printer driver when installing the LAN-Fax Driver, see the installation procedure of the printer driver.

If places where the procedure or description differs depending on the driver to be installed, replace the corresponding procedure or description accordingly, and install the driver.

Installation procedures	Corresponding items to replace
page 13 "Using the Standard TCP/IP port"	1, 2
page 14 "Using the IPP port"	3

List of Items to Replace

No.	Items to be replaced	Procedure/description in the printer driver	Procedure/description in the LAN-Fax driver
1	The name of the button that starts the installation procedure	Click [PCL Printer Driver] or [PostScript 3 Printer Driver].	Click [LAN-Fax Driver].
2	The procedures in the [Install Printer Driver] dialog box	Select the check box of the machine model you want to use.	Double-click [Printer Name <LAN-Fax M(number)>].

No.	Items to be replaced	Procedure/description in the printer driver	Procedure/description in the LAN-Fax driver
3	The destination folder in which the driver files are stored	If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations: • PCL 5c 32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1 64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1 • PCL 6 32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1 64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1 • PostScript 3 32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1 64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1	If the CD-ROM drive is D, the source files of the LAN-Fax Driver are stored in the following locations: • 32-bit driver D:\DRIVERS\LAN-FAX\XP_VISTA\(Language)\DISK1 • 64-bit driver D:\DRIVERS\LAN-FAX\X64\(Language)\DISK1

Setting LAN-Fax Driver Properties

Note

- Manage Printers permission is required to set the properties for the LAN-Fax driver. Log on as an Administrators group member.
- The method for selecting the LAN-Fax driver will vary according to your operating system. For details, see Windows Help.

Setting Print Properties

This section explains how to make settings such as paper size or resolution.

1. **Open the printer window.**
   - Windows Server 2003/2003 R2:

     On the [Start] menu, select [Printers and Faxes].
   - Windows Vista, Windows Server 2008:

     On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.
   - Windows 7, Windows Server 2008 R2:

     On the [Start] menu, select [Devices and Printers].
   - Windows 8/8.1, Windows Server 2012/2012 R2:

     On the desktop, point to the bottom-right corner, click [Settings], [Control Panel], and then [View devices and printers].
2. **Open the printer properties dialog box.**
   - Windows Vista, Windows Server 2003/2003 R2/2008:

     Right-click the [LAN-Fax Generic] icon, and then click [Printing Preferences...].
   - Windows 7/8, Windows Server 2008 R2/2012:

     Right-click the [LAN-Fax Generic] icon, and then click [Printing preferences].
3. **Set the following properties.**
   - Paper Size
   - Orientation
   - Resolution
4. **Click [OK].**

5. Troubleshooting

This chapter provides solutions for driver installation and USB connection problems.

Messages Displayed When Installing the Printer Driver

This section describes what to do if a message appears when installing the printer driver.

Message number 58 or 34 indicates that the printer driver cannot be installed using Auto Run. Install the printer driver using Add Printer Wizard.

Message number 58 appears if there is a newer version of the printer driver already installed.

1. **Open the printer window.**
   - Windows Server 2003/2003 R2:

     On the [Start] menu, select [Printers and Faxes].
   - Windows Vista, Windows Server 2008:

     On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.
   - Windows 7, Windows Server 2008 R2:

     On the [Start] menu, select [Devices and Printers].
   - Windows 8/8.1, Windows Server 2012/2012 R2:

     On the desktop, point to the bottom-right corner, click [Settings], [Control Panel], and then [View devices and printers].
2. **Click [Add a printer].**
3. **Follow the instructions in Add Printer Wizard.**

   If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:
   - PCL 5c

     32-bit driver D:\DRIVERS\PCL5C\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL5C\X64\(Language)\DISK1
   - PCL 6

     32-bit driver D:\DRIVERS\PCL6\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PCL6\X64\(Language)\DISK1
   - PostScript 3

     32-bit driver D:\DRIVERS\PS\XP_VISTA\(Language)\DISK1

     64-bit driver D:\DRIVERS\PS\X64\(Language)\DISK1

For details about the languages supported in the printer drivers, see page 6 "Supported languages".

4. **Specify a port.**

Note

- Available ports vary according to your Windows operating system or the type of interface. For details, see page 9 "Confirming the Connection Method".

If USB Connection Fails

This section describes how to troubleshoot a problem related to USB connections.

Problem	Causes	Solutions
The machine is not automatically recognized.	The USB cable is not connected properly.	Disconnect the USB cable from the computer, and then turn off the main power switch. Turn on the main power switch again. When the machine has fully booted up, reconnect the USB cable.
Windows has already configured the USB settings.	Check whether the computer has identified the machine as an unsupported device.	Open Windows' Device Manager, and then, under [Universal Serial Bus controllers], remove any conflicting devices. Conflicting devices have a [!] or [?] icon by them. Take care not to accidentally remove required devices. For details, see Windows Help.
The machine does not recognize the USB connection even when a USB cable is inserted.	If the USB cable is connected while the machine is off, the machine might not recognize the USB connection.	Press the operation switch, and then disconnect the USB cable from the computer. When the machine has returned to the ready condition, reconnect the USB cable.

6. Installing the Driver Under Mac OS X

This chapter explains how to install and configure the printer drivers for use on the Mac OS X operating system using Mac OS X 10.6 as an example.

Installing the PPD Files

To print using the printer specific features under Mac OS X, install the PPD files.

Important

- You need an administrator name and a password (phrase). For details, consult your network administrator.
- For the latest information on the corresponding operating system, see the "Readme.txt" file in the root directory of the CD-ROM drive.

1. Quit all applications. (Do not close this manual.)
2. Insert the provided CD-ROM into the computer's CD-ROM drive.
3. Double-click the CD-ROM drive icon.
4. Double-click the [Mac OS X] folder.
5. Double-click the [PS Driver] folder.
6. Double-click the [(brand name)] folder.
7. Double-click the package file icon.
8. Follow the instructions on the screen.

Note

- The PPD files will be automatically installed in the following location: \Library\Printers\PPDs\Contents\Resources\

Installing the TWAIN Driver

Important

- You need an administrator name and a password (phrase). For details, consult your network administrator.
- For the latest information on the corresponding operating system, see the "Readme.txt" file in the root directory of the CD-ROM drive.

1. Quit all applications. (Do not close this manual.)
2. Insert the provided CD-ROM into the computer's CD-ROM drive.
3. Double-click the CD-ROM drive icon.
4. Double-click the [Mac OS X] folder.
5. Double-click the [TWAIN Driver] folder.
6. Double-click the [(brand name)] folder.
7. Double-click the package file icon.
8. Follow the instructions on the screen.

Registering the Device

To use the machine, the device must be registered in the printer list.

Make sure the machine and computer are connected and turned on, and perform the following procedure.

Note

- The operating procedure under Mac OS X differs depending on the version of the operating system. Consult the procedure described in this manual, and make the necessary settings according to the manual of each version.

USB Connection

This section explains how to register devices via a USB connection.

Using the printer as an example, the scanner can be registered by means of the same procedure.

Important

- **Make sure the computer and the printer are connected using the USB cable, and the power of the devices are turned on beforehand.**

1. **Start System Preferences.**
2. **Click [Print & Fax] or [Print & Scan].**

   Check that the machine automatically recognized by plug-and-play appears in the printers list.
3. **Click the [+] button.**
4. **Click [Default].**
5. **Select the printer that has "USB" indicated in the [Kind] column.**
6. **Select the printer you are using from the [Print Using:] pop-up menu.**

   If the printer you are using is not selected in [Print Using:], select its manufacturer, [Select a driver to use...], or [Select Printer Software...] in the pop-up menu, and then select the PPD file of the printer. For the location of the PPD files, see page 39 "Installing the PPD Files".
7. **Click [Add].**

   If the option settings need to be configured, click [Configure...] in the dialog box that appears, and then configure the option settings.
8. **Quit System Preferences.**

Network Connection

This section explains how to register devices over a network.

1. **Start System Preferences.**
2. **Click [Print & Fax] or [Print & Scan].**
3. **Click the [+] button.**
4. **Click [Default].**
5. **Select the printer that has "Bonjour" indicated in the [Kind] column.**

   If the printer name is not displayed, select the icon that corresponds to your network environment (TCP/IP, etc.).
6. **Select the printer you are using from the [Print Using:] pop-up menu.**

   If the printer you are using is not selected in [Print Using:], select its manufacturer, [Select a driver to use...], or [Select Printer Software...] in the pop-up menu, and then select the PPD file of the printer. For the location of the PPD files, see page 39 "Installing the PPD Files".
7. **Click [Add].**

   If the option settings need to be configured, click [Configure...] in the dialog box that appears, and then configure the option settings.
8. **Quit System Preferences.**

Configuring Option Settings for the Printer Under Mac OS X

This section explains how to configure the printer driver.

1. **Start System Preferences.**
2. **Click [Print & Fax] or [Print & Scan].**
3. **Select the printer you are using, and then click [Options & Supplies...].**
4. **Click [Driver], and then configure settings as needed.**
5. **Click [OK].**
6. **Quit System Preferences.**

Note

- If the option you want to select is not displayed, PPD files may not be set up correctly. To complete the setup, check the name of the PPD file displayed in the dialog box.

7. Appendix

Updating or Deleting the Driver

Important

- **Administrator permission is required to update or delete the driver in use. Log on as an Administrators group member.**
- **For driver updates, select a driver that is compatible with the printer and driver type you are using. An error may result if you select a driver that is not compatible with the printer and driver type.**

Note

- If the [User Account Control] dialog box appears, click [Yes] or [Continue].
- If the [Windows Security] dialog box appears, click [Install this driver software anyway].

Updating the Driver

Printer driver / LAN-Fax driver

You can download the most recent version of the driver from the manufacturer's Web site. Download the latest driver, and then perform the following procedure.

1. **Open the printer window.**
   - Windows Server 2003:

     On the [Start] menu, select [Printers and Faxes].
   - Windows Vista, Windows Server 2008:

     On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.
   - Windows 7, Windows Server 2008 R2:

     On the [Start] menu, select [Devices and Printers].
   - Windows 8/8.1, Windows Server 2012/2012 R2:

     On the desktop, point to the bottom-right corner, click [Settings], [Control Panel], and then [View devices and printers].
2. **Open the printer properties dialog box.**
   - Windows Vista, Windows Server 2003/2008:

     Right-click the machine's icon, and then click [Properties].
   - Windows 7/8/8.1, Windows Server 2008 R2/2012/2012 R2:

Right-click the machine's icon, and then click [Printer properties].

3. **Click the [Advanced] tab.**
4. **Click [New Driver...], and then click [Next].**
5. **Click [Have Disk...].**
6. **Click [Browse...], and then select the driver location.**
7. **Click [OK].**
8. **Select the machine model, and then click [Next].**

   The driver update starts.
9. **Click [Finish].**
10. **Click [OK] to close the printer properties window.**
11. **Restart the computer.**

PPD files(Mac OS X), TWAIN driver

You can download the most recent version of the drivers from the manufacturer's Web site.

Delete the old version of the driver first, and then install the new driver. For details about how to delete the driver, see page 46 "Deleting the Driver".

Deleting the Driver

Printer driver / LAN-Fax driver

Windows Server 2003/2003 R2

1. **On the [Start] menu, click [Printers and Faxes].**
2. **Right-click the icon of the machine you want to delete, and then click [Delete].**
3. **Click [Server Properties] on the [File] menu.**
4. **Click the [Drivers] tab.**
5. **Select the driver you want to delete, and then click [Remove].**
6. **Click [Yes].**
7. **Click [Close] to close the print server properties window.**

Windows Vista, Windows Server 2008

1. **On the [Start] menu, select [Control Panel], and then click [Printers] in [Hardware and Sound] category.**
2. **Right-click the icon of the machine you want to delete, and then click [Delete].**

3. On the [File] menu, point to [Run as administrator], and then click [Server Properties...].
4. Click the [Drivers] tab.
5. Select the driver you want to delete, and then click [Remove...].
6. Select [Remove driver and driver package.], and then click [OK].
7. Click [Yes].
8. Click [Delete].
9. Click [OK].
10. Click [Close] to close the print server properties window.

Windows 7, Windows Server 2008 R2

1. On the [Start] menu, click [Devices and Printers].
2. Right-click the icon of the machine you want to delete, and then click [Remove Device].
3. Click [Yes].
4. Click any machine icon, and then click [Print server properties].
5. Click the [Drivers] tab.
6. Click the [Change Driver Settings] button if it is displayed.
7. Select the driver you want to delete, and then click [Remove...].
8. Select [Remove driver and driver package.], and then click [OK].
9. Click [Yes].
10. Click [Delete].
11. Click [OK].
12. Click [Close] to close the print server properties window.

Windows 8/8.1, Windows Server 2012/2012 R2:

1. On the desktop, point to the bottom-right corner, and then click [Settings].
2. Click [Control Panel].
3. Click [View devices and printers].
4. Right-click the icon of the machine you want to delete, and then click [Remove device].
5. Click [Yes].
6. Click any machine icon, and then click [Print server properties].
7. Click the [Drivers] tab.
8. Click the [Change Driver Settings] button if it is displayed.
9. Select the driver you want to delete, and then click [Remove...].
10. Select [Remove driver and driver package.], and then click [OK].

11. Click [Yes].
12. Click [Delete].
13. Click [OK].
14. Click [Close] to close the print server properties window.

PPD files(Mac OS X)

1. Start System Preferences.
2. Click [Print & Fax] or [Print & Scan].
3. Select the printer you want to delete, click the [−] button.

TWAIN driver

1. Start uninstaller.
   - Windows Server 2003/2003 R2:

     On the [Start] menu, select [Control Panel], and then click [Add or Remove Programs].
   - Windows Vista/7, Windows Server 2008 R2:

     On the [Start] menu, select [Control Panel], and then click [Uninstall a program].
   - Windows Server 2008:

     On the [Start] menu, select [Control Panel], and then double-click [Programs and Features].
   - Windows 8/8.1, Windows Server 2012/2012 R2:
     1. On the desktop, point to the bottom-right corner, and then click [Search].
     2. On the [Apps] screen, click [Default Programs].
     3. Click [Programs and Features].
2. Remove the TWAIN driver.
   - Windows Server 2003/2003 R2:
     1. Select [(model type) TWAIN Driver Ver.5].
     2. Click [Change/Remove].
   - Windows Vista/7, Windows Server 2008/2008 R2:
     1. Select [(model type) TWAIN Driver Ver.5].
     2. Click [Uninstall/Change].
   - Windows 8/8.1, Windows Server 2012/2012 R2:
     1. Select [(model type) TWAIN Driver Ver.5].
     2. Click [Uninstall].

3. Click [OK].

3. Quit uninstaller.

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