



Operating Instructions

Printer Driver Installation Guide

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1. Introduction

This chapter explains the software included on the supplied printer driver CD-ROM.

Start Installer

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

The installer starts automatically when you insert the provided printer driver 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:

Quick Install

Installs the PCL 6 printer driver, and configures the Standard TCP/IP port to establish a connection with a network printer.

For details, see page 11 "Quick Install".

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".

PostScript 3 Printer Driver

Installs the PostScript 3 printer driver.

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

Select Language

Changes the interface language.

Browse This Disk

Browses the contents of this Disk.

Exit

Quits 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, located on the CD-ROM root directory.
- For the latest information on Windows Terminal Service, Citrix Presentation Server, and Citrix XenApp, 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 R2 Foundation/Microsoft Windows
Server 2012 R2 Essentials/Microsoft Windows Server 2012 R2 Standard
- *9 Mac OS X 10.7 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.

↓ 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".

Supported languages

The languages supported in each printer driver are as follow:

Supported languages	Printer Language			
	PCL 5c ^{*1}	PCL 6 ^{*2}	PostScript 3 ^{*2}	PPD (Mac OS X)
English	○	○	○	○
German	○	○	○	○
French	○	○	○	○
Italian	○	○	○	○
Spanish	○	○	○	○
Dutch	○	○	○	○
Swedish	○	○	○	○

Supported languages	Printer Language			
	PCL 5c ^{*1}	PCL 6 ^{*2}	PostScript 3 ^{*2}	PPD (Mac OS X)
Norwegian	○	○	○	○
Danish	○	○	○	○
Finnish	○	○	△	△
Hungarian	○	○	△	△
Czech	○	○	△	△
Polish	○	○	△	△
Portuguese	○	○	△	△
Russian	○	○	△	△
Catalan	○	○	△	△
Turkish	○	○	△	△
Brazilian Portuguese	△	○	△	△
Greek	△	○	△	△

○: Supported

△: Supported, but the printer language is displayed in English

*1 The PCL 5c printer driver does not support Brazilian Portuguese and Greek. Use the English version of the driver.

*2 The PCL 6 and PostScript 3 printer drivers use the same interface language as the one specified by your operating system. However, the PostScript 3 printer will be displayed in English if your operating system uses one of the following languages: Finnish, Hungarian, Czech, Polish, Portuguese, Russian, Catalan, Turkish, Brazilian Portuguese, Greek.

2. Installing the Printer Driver

This chapter explains how to install and configure the printer drivers for use on the Windows operating system. Installing procedures on Windows 7 is shown as an example except where indicated.

Confirming the Connection Method

2

This machine supports only network connection.

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

Using the Windows printing port

Network connections can be established through Ethernet.

Available ports are determined based on the Windows operating system version.

Windows Server 2003/2003 R2

- Standard TCP/IP port
- IPP port
- LPR port
- SmartDeviceMonitor for Client port

Windows Vista/7/8/8.1, Windows Server 2008/2008 R2/2012/2012 R2

- Standard TCP/IP port
- IPP port
- LPR port
- WSD port
- SmartDeviceMonitor for Client 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
<ul style="list-style-type: none"> • Windows Server 2003/2003 R2 	<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • Windows Vista • Windows 7 • Windows 8 • Windows 8.1 • Windows Server 2008/2008 R2 • Windows Server 2012/2012 R2 	<ul style="list-style-type: none"> • 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 22 "Using as a Network Printer".

Quick Install

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

Using Quick Install, the PCL 6 printer driver is installed under network environment, and the Standard TCP/IP port will be set.

★ Important

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

1. Click [Quick Install] on the installer screen.
2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next >].
3. Click [Next >].
4. Select the machine model you want to use in the [Select Printer] dialog box.
5. Click [Install].
6. Configure the user code, default printer, and shared printer as necessary.
7. Click [Continue].

The installation starts.

8. Click [Finish].

When you are prompted to restart your computer, restart it by following the instructions that appear.

9. Click [Exit] in the first window of the installer, and then take out the CD-ROM.

↓ 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 29 "Messages Displayed When Installing the Printer Driver".
- The [AutoPlay] dialog box is displayed only for a few seconds under Windows 8/8.1 and Windows Server 2012/2012 R2. If the [AutoPlay] dialog box disappears, use the following procedure to replay the CD-ROM:
 - Windows 8, Windows Server 2012
 1. On the Charm Bar, click [Search], and then click [Computer].

2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
- Windows 8.1, Windows Server 2012 R2
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".

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 29 "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.

★ Important

- **To use the SmartDeviceMonitor for Client port, you must first download SmartDeviceMonitor for Client from the manufacturer's Web site and install it on your computer. Contact your local dealer for information on downloading SmartDeviceMonitor for Client. For details about SmartDeviceMonitor for Client, see "Software that You Can Download", Getting Started.**

Port Type	Printer Driver Type	Reference
Standard TCP/IP port	PCL PS3	page 14 "Using the Standard TCP/IP port"
IPP port	PCL PS3	page 14 "Using the IPP port"
LPR port	PCL PS3	page 16 "Using the LPR port"
WSD port	PCL PS3	page 17 "Using the WSD port"
SmartDeviceMonitor for Client port	PCL PS3	page 20 "Using the SmartDeviceMonitor for Client port"

Using the Standard TCP/IP port

PCL PS3

1. Click [PCL Printer Driver] or [PostScript 3 Printer Driver] on the installer screen.
2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next >].
3. Select a printer driver you want to use, and then click [Next >].
4. Select [Specify a new port], and then click [Next >].
5. Select [Standard TCP/IP Port], and then click [Next >].
6. Click [Next].
7. Enter the machine name or IP address, and then click [Next].

When the device type selection appears, select "RICOH Network Printer C model".

8. Click [Finish].
9. Select the [Printer Name:] check box of the machine model you want to use.
10. Configure the user code, default printer, and shared printer as necessary.
11. Click [Continue].

The installation starts.

12. Click [Finish].

↓ Note

- The [AutoPlay] dialog box is displayed only for a few seconds under Windows 8/8.1 and Windows Server 2012/2012 R2. If the [AutoPlay] dialog box disappears, use the following procedure to replay the CD-ROM:
 - Windows 8, Windows Server 2012
 1. On the Charm Bar, click [Search], and then click [Computer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
 - Windows 8.1, Windows Server 2012 R2
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".

Using the IPP port

PCL PS3

★ Important

- To print via IPP-SSL, use the SmartDeviceMonitor for Client port.
- 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. On the [Start] menu, click [Devices and Printers].

If you are using a computer that is running Windows 8/8.1 or Windows Server 2012/2012 R2, click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].

2. Click [Add a printer].

If you are using a computer that is running Windows 8/8.1 or Windows Server 2012/2012 R2, proceed to Step 4.

3. Click [Add a network, wireless or Bluetooth printer].

4. Click [The printer that I want isn't listed].

5. 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].

6. Click [Have Disk...].

7. 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:\X86\DRIVERS\PCL5C\X86\Language\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
 - 32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3

32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1

64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

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

8. Click [Open].
9. Click [OK] to close the [Install From Disk] window.
10. Select the manufacturer and model name of the machine you want to use, and then click [OK].
The installation starts.
11. Follow the instructions that appear. Modify settings such as printer name and default printer configuration, as necessary. You can also print a test page.
12. Click [Finish].

Using the LPR port

PCL PS3

1. Click [PCL Printer Driver] or [PostScript 3 Printer Driver] on the installer screen.
2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next >].
3. Select a printer driver you want to use, and then click [Next >].
4. Select [Specify a new port], and then click [Next >].
5. Select [LPR Port], and then click [Next >].
6. Enter the machine name or IP address in the [Name or address of server providing lpd:] box.
7. Enter "lp" in the [Name of printer or print queue on that server:] box, and then click [OK].
8. Select the [Printer Name:] check box of the machine model you want to use.
9. Configure the user code, default printer, and shared printer as necessary.
10. Click [Continue].

The installation starts.

11. Click [Finish].

Note

- The [AutoPlay] dialog box is displayed only for a few seconds under Windows 8/8.1 and Windows Server 2012/2012 R2. If the [AutoPlay] dialog box disappears, use the following procedure to replay the CD-ROM:
 - Windows 8, Windows Server 2012

1. On the Charm Bar, click [Search], and then click [Computer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
- Windows 8.1, Windows Server 2012 R2
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".

Using the WSD port

PCL PS3

★ Important

- The WSD port can be used under Windows Vista/7/8/8.1, or Windows Server 2008/2008 R2/2012/2012 R2.
- You can connect to the printer only if both the printer and computer are on the same network segment, or "Network discovery" is enabled. For details, see Windows Help.

Windows Vista, Windows Server 2008

1. On the [Start] menu, click [Network].
2. Right-click the machine's icon, and then click [Install].
3. Click [Locate and install driver software (recommended)].
4. Click [Browse my computer for driver software (advanced)].
5. Click [Browse...], and then specify the location of 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:\X86\DRIVERS\PCL5C\X86\Language\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
 - 32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
 - 32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

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

6. Click [Next].

7. Click [Close].

If installation is successful, the icon of the printer connected to the WSD port will appear in the window for configuring printers.

Note

- The port name that follows "WSD" uses random character strings. It cannot be changed freely.
- To stop the installation, click [Cancel] before the installation is complete. When re-installing the WSD Port, right-click the printer's icon in the [Network] window, and then click [Uninstall].

Windows 7, Windows Server 2008 R2

- 1. On the [Start] menu, click [Computer].**
- 2. Click [Network].**
- 3. Right-click the machine's icon, and then click [Install].**
- 4. On the [Start] menu, click [Devices and Printers].**
- 5. Click [Add a printer].**
- 6. Click [Add a local printer].**
- 7. Select [Use an existing port:], and then select WSD port.**
- 8. Click [Next].**
- 9. Click [Have Disk...].**
- 10. Click [Browse...], and then specify the location of 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:\X86\DRIVERS\PCL5C\X86\Language\DISK1
64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

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

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

If installation is successful, the icon of the printer connected to the WSD port will appear in the window for configuring printers.

Note

- To stop installation of the selected driver, click [Cancel] before the installation is complete. When re-installing the WSD Port, right-click the machine's icon in the [Network] window, and then click [Uninstall].

Windows 8/8.1, Windows Server 2012/2012 R2

1. Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View devices and printers].
2. Click any machine icon, and then click [Print server properties].
3. Click the [Drivers] tab, and then click [Add].
4. Click [Next].
5. Check the [x64] (64 bit) or [X86] (32 bit) check box, and then click [Next].
6. Click [Have Disk...].
7. 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:\X86\DRIVERS\PCL5C\X86\Language\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
 - 32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
 - 32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
 - 64-bit driver D:\X64\DRIVERS\PS\X64\MUI\DISK1

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

8. Click [OK].

9. Select the manufacturer and model name of the machine you want to use, and then click [Next].
10. Click [Finish].
11. Click [Close] to close the print server properties window.
12. Click [Add a Printer] on the [Devices and Printers] window.
13. Click [The printer that I want isn't listed].
14. Select the connection method.
 - Windows 8
[Add a network, wireless or Bluetooth printer]
 - Windows 8.1
[Add a Bluetooth, wireless or network discoverable printer]
15. Click [Next].
16. Select the machine you want to use, and then click [Next].

Using the SmartDeviceMonitor for Client port

PCL PS3

To use this function, you must first download SmartDeviceMonitor for Client from the manufacturer's Web site and install it on your computer. Contact your local dealer for information on downloading SmartDeviceMonitor for Client.

1. Click [PCL Printer Driver] or [PostScript 3 Printer Driver] on the installer screen.
2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next >].
3. Select a printer driver you want to use, and then click [Next >].
4. Select [Specify a new port], and then click [Next >].
5. Select [SmartDeviceMonitor], and then click [Next >].
6. To configure port settings using TCP/IP, click [TCP/IP], and then click [Search].

To configure port settings using IPP, proceed to step 11.

7. Select the machine you want to use, and then click [OK].

Only machines that respond to a broadcast from the computer appear. To use a machine not listed here, click [Specify Address], and then enter the IP address or host name of the machine.

Proceed to step 16.

8. To configure port settings using IPP, click [IPP].

9. In the [Printer URL] box, enter "http://machine's IP address/printer" as the machine's address.

If the server authentication is issued, enter "https://machine's IP address/printer" to enable SSL (a protocol for encrypted communication). Example IP address: 192.168.15.16

http://192.168.15.16/printer

https://192.168.15.16/printer

You can enter "http://machine's IP address/ipp" as the machine's address.

10. Enter a name for identifying the machine in the [IPP Port Name] box. Use a name different from the one of any existing ports.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

11. Click [Detailed Settings] to make necessary settings.

For details about the settings, see SmartDeviceMonitor for Client Help.

12. Click [OK].

13. Select the [Printer Name:] check box of the machine model you want to use.

14. Configure the user code, default printer, and shared printer as necessary.

15. Click [Continue].

The installation starts.

16. Click [Finish].

Changing the port settings for SmartDeviceMonitor for Client

Follow the procedure below to change the SmartDeviceMonitor for Client settings, such as TCP/IP protocol.

Windows Server 2003/2003 R2

1. On the [Start] menu, click [Printers and Faxes].
2. Click the icon of the machine you want to use. On the [File] menu, click [Properties].
3. Click the [Ports] tab, and then click [Configure Port].

The [Port Configuration:] window appears.

Windows Vista, Windows Server 2008:

1. On the [Start] menu, click [Control Panel].
2. Click [Printer].
3. Right-click the icon of the machine you want to use, and then click [Properties].

4. Click the [Ports] tab, and then click [Configure Port].

The [Port Configuration:] window appears.

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 use, and then click [Printer properties].
3. Click the [Ports] tab, and then click [Configure Port...].

The [Port Configuration:] window appears.

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

1. Click [Settings] on the Charm Bar, and then click [Control Panel].
2. When the [Control Panel] window appears, click [View devices and printers].
3. Right-click the icon of the machine you want to use, and then click [Printer properties].
4. Click the [Ports] tab, and then click [Configure Port...].

The [Port Configuration:] window appears.

Note

- IPP User, Proxy, and Timeout Settings can be configured for IPP.
- For details about these settings, see SmartDeviceMonitor for Client Help.

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.

Server OS	Client OS	Printer Driver Type	Reference
Windows Server	Windows	PCL PS3	page 22 "Using Windows print server"
NetWare	Windows	PCL PS3	page 23 "Using NetWare print server"

Using Windows print server

PCL PS3

1. Click [PCL Printer Driver] or [PostScript 3 Printer Driver] on the installer screen.

2. The software license agreement appears in the [License Agreement] dialog box. After reading the agreement, click [I accept the agreement.], and then click [Next >].
3. Select a printer driver you want to use, and then click [Next >].
4. Select [Specify a new port], and then click [Next >].
5. Select [Network Printer], and then click [Next >].
6. Double-click the computer name you want to use as a print server in the [Browse for Printer] window.
7. Select the machine you want to use, and then click [OK].
8. Select the [Printer Name:] check box of the machine model you want to use.
9. Configure the user code, default printer, and shared printer as necessary.
10. Click [Continue].

The installation starts.

11. Click [Finish].

Note

- The [AutoPlay] dialog box is displayed only for a few seconds under Windows 8/8.1 and Windows Server 2012/2012 R2. If the [AutoPlay] dialog box disappears, use the following procedure to replay the CD-ROM:
 - Windows 8, Windows Server 2012
 1. On the Charm Bar, click [Search], and then click [Computer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
 - Windows 8.1, Windows Server 2012 R2
 1. On the desktop, right-click the [Start] button, and then click [File Explorer].
 2. Double-click the CD-ROM drive in which the provided CD-ROM is set, and then click "Setup.exe".
- If you print with a print server connected to the machine using the SmartDeviceMonitor for Client port, Recovery Printing and Parallel Printing cannot be used from the client computer.
- If you print under a print server, notification functions of SmartDeviceMonitor for Client may not be used with the client computer.

Using NetWare print server

PCL PS3

1. Click [PCL Printer Driver] or [PostScript 3 Printer Driver] on the installer screen.

2. 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, proceed to step 7.

3. Select a printer driver you want to use, and then click [Next >].
4. Select [Specify a new port], and then click [Next >].
5. Select [Network Printer], and then click [Next >].
6. Double-click the name of the NetWare file server on the network tree.

The created queue is displayed.

7. Select the print queue, and then click [OK].
8. Check that the port of the selected printer is displayed in [Port :].
9. Click [Continue].

The installation starts.

10. Click [Finish] in the [Select Program] dialog box.
11. 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.

12. After restarting the computer, on the [Start] menu, select [Devices and Printers].
13. Right-click the machine's icon, and then click [Properties].
14. Click the [NetWare Settings] tab.
15. 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.

16. Click [OK].

Note

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

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.

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.

★ Important

- **Manage Printers permission is required to enable bidirectional communication or to configure the option settings. Log on as an Administrators group member.**

Conditions for Bidirectional Communication

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

- The Standard TCP/IP port must be used.
- The TCP/IP protocol or the IPP protocol is used. (When using the IPP protocol, the IPP port name must include the IP address.)

↓ 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 select the [Automatically Update Printer Information] check box on the [Accessories] 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, paper size and paper feed direction settings on your computer manually.

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:
Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [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.

If options in the [Accessories] tab are disabled, bidirectional connection is enabled. In this case, no change is necessary for option settings.

4. Select options installed from the [Options] area, and then make the necessary settings.

5. Click [Change Input Tray Settings...].

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 [Modify Input Tray/Paper Size] to apply the setting for each tray.

7. Click [OK].

8. Click [Apply].

9. 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 26 "Configuring Option Settings for the Printer".

3. Troubleshooting

This chapter provides solutions for driver installation 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.

3

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:
Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [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:\X86\DRIVERS\PCL5C\X86\Language\DISK1
64-bit driver D:\X64\DRIVERS\PCL5C\X64\Language\DISK1
- PCL 6
32-bit driver D:\X86\DRIVERS\PCL6\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PCL6\X64\MUI\DISK1
- PostScript 3
32-bit driver D:\X86\DRIVERS\PS\X86\MUI\DISK1
64-bit driver D:\X64\DRIVERS\PS\X64\MUI\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".

4. Installing the Printer 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.

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, located on the CD-ROM root directory.

1. Double-click the [Mac OS X] folder.
2. Double-click the [(brand name)] folder.
3. Double-click the [MacOSX PPD Installer] folder.
4. Double-click the package file icon.
5. Follow the instructions on the screen.

↓ Note

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

Registering the Printer

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

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

For details about how to connect the machine to the computer, see "Connecting the Machine", Connecting the Machine/ System Settings.

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.

4

1. Start System Preferences.

2. Click [Print & Scan] or [Printers & Scanners].

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:] or [Use:] pop-up menu.

If the printer you are using is not selected in [Print Using:] or [Use:], 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 31 "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 & Scan] or [Printers & Scanners].
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.

5. Appendix

Updating or Deleting the Printer 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 Printer Driver

Windows

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:
Click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [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].
9. Click [Finish].

The driver update starts.

10. Click [OK] to close the printer properties window.
11. Restart the computer.

5

Mac OS X

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 36 "Deleting the Printer Driver".

Deleting the Printer Driver

Windows

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 7/8/8.1, Windows Server 2008 R2/2012/2012 R2

1. On the [Start] menu, click [Devices and Printers].

If you are using a computer that is running Windows 8/8.1 or Windows Server 2012/2012 R2, click [Settings] on the Charm Bar, and then click [Control Panel]. When the [Control Panel] window appears, click [View 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.

Mac OS X

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

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The proper names of the Windows operating systems are as follows:

- The product names of Windows Vista are as follows:

Microsoft® Windows Vista® Ultimate

Microsoft® Windows Vista® Business

Microsoft® Windows Vista® Home Premium

Microsoft® Windows Vista® Home Basic

Microsoft® Windows Vista® Enterprise

- The product names of Windows 7 are as follows:

Microsoft® Windows® 7 Home Premium

Microsoft® Windows® 7 Professional

Microsoft® Windows® 7 Ultimate

Microsoft® Windows® 7 Enterprise

- The product names of Windows 8 are as follows:

Microsoft® Windows® 8

Microsoft® Windows® 8 Pro

Microsoft® Windows® 8 Enterprise

- The product names of Windows 8.1 are as follows:

Microsoft® Windows® 8.1

Microsoft® Windows® 8.1 Pro

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- The product names of Windows Server 2003 are as follows:

Microsoft® Windows Server® 2003 Standard Edition

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- The product names of Windows Server 2003 R2 are as follows:

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- The product names of Windows Server 2012 are as follows:

Microsoft® Windows Server® 2012 Foundation

Microsoft® Windows Server® 2012 Essentials

Microsoft® Windows Server® 2012 Standard

- The product names of Windows Server 2012 R2 are as follows:

Microsoft® Windows Server® 2012 R2 Foundation

Microsoft® Windows Server® 2012 R2 Essentials

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