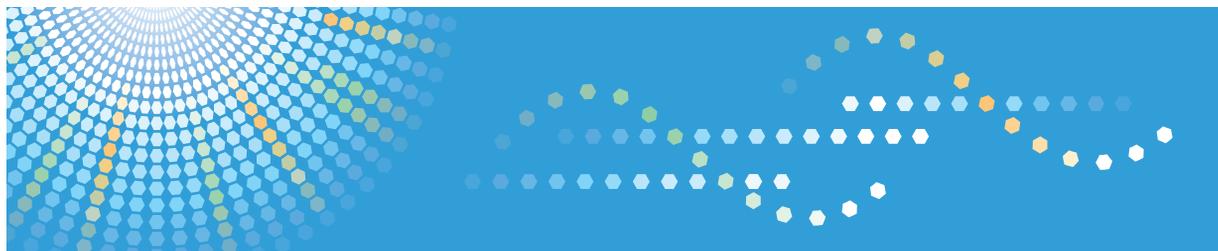


RICOH



Printer Driver Packager NX

Operating Instructions

Operation Guide

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How to Read This Manual

Symbols

This manual uses the following symbols:

 **Important**

Indicates a situation that may result in property damage or malfunction if instructions are not followed. Be sure to read the instructions.

 **Note**

Indicates supplementary relevant information.

[]

Indicates the names of keys that appear on the computer screen.

Terminology

The terms used in this manual are described below.

Installer package

The installer file for the customized printer driver.

Administrator

The person who manages device settings. There are various kinds of administrators depending on the device that is used. For example, a device administrator can configure device settings and a user administrator can manage user information. Both referred to as "administrators" in this manual. Specify an administrator depending on the device you are using or the device's configuration.

Device

A printer or a multifunctional printer (MFP) on the network. The term "device" in this document refers to a printer or an MFP.

Printer information

General name of the printer name and the settings of the port used to send print jobs.

Print configuration file

The template file that contains the customized information of a printer driver. You can change and fix the initial values of the printer driver. You can also set particular settings to be shown or hidden, and select whether or not to display a dialog box in certain situations.

User

A person who uses the device for printing, scanning, etc.

About Viewing This Manual

If you want to view this manual on a computer, note the following:

- You can view the HTML documentation using a Web browser. We recommend the following browsers:
 - Internet Explorer 6 or later
 - Firefox 3.5 or later
 - Safari 4.0 or later
- If JavaScript is disabled or unavailable on your browser, you will not be able to search or use certain buttons in the HTML documentation.

Important

To the maximum extent permitted by applicable laws, in no event will the manufacturer be liable for any damages whatsoever arising out of failures of this product, losses of documents or data, or the use or non-use of this product and operation manuals provided with it.

Make sure that you always copy or have backups of important documents or data. Documents or data might be erased due to your operational errors or malfunctions of the machine. Also, you are responsible for taking protective measures against computer viruses, worms, and other harmful software.

In no event will the manufacturer be responsible for any documents created by you using this product or any results from the data executed by you.

Some illustrations or explanations in this guide may differ from your product due to improvement or change in the product.

Contents of this document are subject to change without notice.



1. Overview of Printer Driver Packager NX

Printer Driver Packager NX creates packages for installing the customized printer driver. By distributing the package containing the customized printer driver, you can integrate the printer driver settings and restrictions for different users.

1

What You Can Do with Printer Driver Packager NX

The following operations can be performed in Printer Driver Packager NX:

Managing Devices and Driver Information to Create Installer Packages

You can register the device and driver information in Printer Driver Packager NX and easily create installer packages with unified settings.

In the installer package, you can include information such as the customized printer driver settings, printer names, and print port settings. You can also combine more than one package into a single package to enable installing of multiple printer drivers at one time and specify the executing user of the installer to enable users to install the driver without logging off and on again as a different user.

Customizing the Printer Driver Settings

You can use Printer Driver Packager NX to customize the following printer driver settings:

Changing the default values of the printer function

You can change the setting values of each printer function from the factory defaults, enabling users to run the devices with the customized setting values.

If necessary, the users can modify the setting values.

The default values you can change vary depending on the type of the device or printer driver you are using.

Locking the setting value of the printer function

You can specify and lock setting values as the default values and prevent other users from changing them on the printer driver.

You can lock functions and setting values to suit your environment needs and device uses.

In the printer driver, the only setting values displayed are the default values.

The printer functions you can lock or unlock vary depending on the type of the device you are using.

Hiding the setting value of the printer function

You can specify the setting values of the printer function to hide or display.

The setting values that are set to "Do not Display" are not displayed in the printer driver. Only the setting values that are set to "Display" are shown.

By hiding setting values to suit your environment needs and device uses, you can restrict the use of settings in the printer driver that can be selected by users.

The setting values you can hide or display vary depending on the type of the device you are using.

Displaying the pop-up dialog

You can specify the optional function to display a pop-up dialog box when printing. This dialog box is used to enter or confirm the authentication information. You can also select the default character strings to be displayed in the pop-up dialog box.

Note that some printer drivers may not support the pop-up display function.

Note

- The printer drivers that can be customized are as follows: new PCL6/PS printer drivers. For the types of the printer driver, see page 11 "Drivers Supported by Printer Driver Packager NX".

Operating Environment

Operating Environment of Printer Driver Packager NX

Item	Minimum	Recommended
CPU	Pentium 4 2.4 GHz or faster (1 core 2 threads)	Core 2 Duo 1.6 GHz or faster
RAM	512 MB or more	1.0 GB or more
Hard Disk Space	100 MB or more free space (required for installing Printer Driver Packager NX) 1 GB or more free space (required for creating a package) ^{*1}	
Operating System	Windows XP Home Edition/Professional Edition Service Pack 3 or later (32-bit) Windows Vista Home Premium/Business/Enterprise/Ultimate Service Pack 2 or later (32-bit) Windows 7 Home Premium/Professional/Enterprise/Ultimate Service Pack 1 or later (32-bit/64-bit) Windows 8/Pro/Enterprise (32-bit/64-bit) Windows Server 2003 Standard Edition/Enterprise Edition Service Pack 2 or later (32-bit) Windows Server 2003 R2 Standard Edition/Enterprise Edition Service Pack 2 or later (32-bit) Windows Server 2008 Standard/Enterprise Service Pack 1 or later (32-bit/64-bit) Windows Server 2008 R2 Standard/Enterprise Service Pack 1 or later (64-bit) Windows Server 2012 Foundation/Essentials/Standard (64-bit)	
Language	English, French, German, Italian, Spanish, Dutch, Simplified Chinese ^{*2}	
Others	Microsoft .NET Framework 2.0	

*1 For storing printer drivers, print configuration files, and installer packages.

*2 Different character codes cannot be used at the same time.

The installer packages created in Printer Driver Packager NX can be used under the following operating systems:

Operating Environment of Installer Packages

Supported Operating Systems

Windows XP Home Edition/Professional Edition (32-bit/64-bit)
Windows Vista Home Premium/Business/Enterprise/Ultimate (32-bit/64-bit)
Windows 7 Home Premium/Professional/Enterprise/Ultimate (32-bit/64-bit)
Windows 8/Pro/Enterprise (32-bit/64-bit)
Windows Server 2003 Standard Edition/Enterprise Edition (32-bit/64-bit)
Windows Server 2003 R2 Standard Edition/Enterprise Edition (32-bit/64-bit)
Windows Server 2008 Standard/Enterprise (32-bit/64-bit)
Windows Server 2008 R2 Standard/Enterprise (64-bit)
Windows Server 2012 Foundation/Essentials/Standard (64-bit)

Drivers Supported by Printer Driver Packager NX

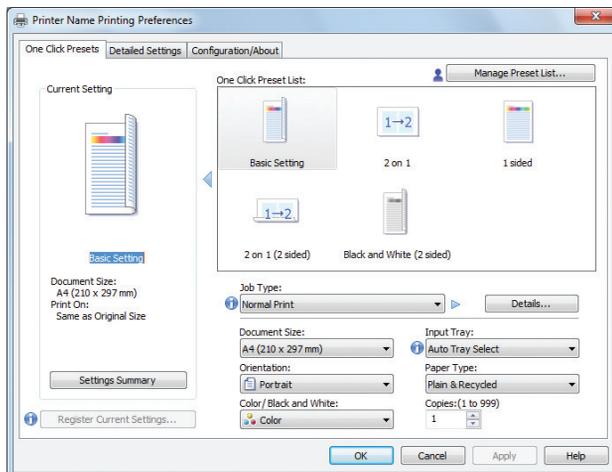
1

Printer Driver Packager NX supports RICOH printer drivers released in 2005 or later.

- PS driver
- PS universal driver (Ver. 3.2.0.0 or later)
- PCL6 driver
- PCL6 universal driver (Ver. 3.2.0.0 or later)
- RPCS raster driver
- LAN-FAX driver

The different types of PCL6/PS drivers and their setting screens.

The printer drivers that have the following setting screens supports the customize function:



Only the printer drivers that have the setting screens shown above are referred to as "new PCL6/PS driver" in this manual. The printer drivers that have different setting screens are referred to as "old PCL/PS driver".

2. Screen Configuration

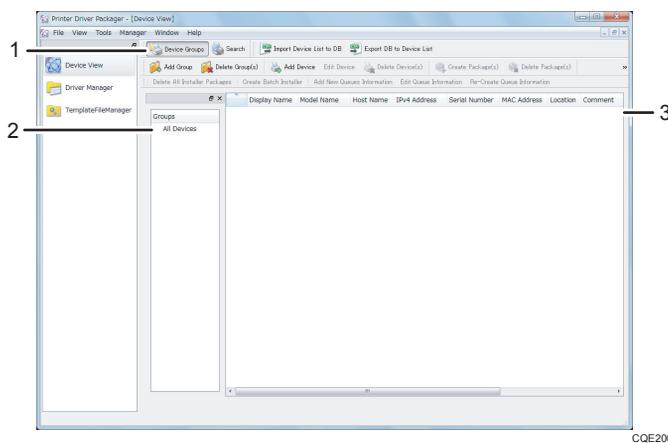
The following section explains the screens and setting items of Printer Driver Packager NX.

In Printer Driver Packager NX, use the view list on the left side of the window to switch screen between "Device View", "Driver Manager", and "Template File Manager".

Device View

2

In Device View, you can manage devices and create installer packages.



1. Tool Bar

For details about the tool bar buttons, see page 13 "Tool Bar Items of Device View".

2. Group Tree

Displays the group hierarchy.

3. Device Information

Displays the information about the device registered to the group that is selected on the group tree.

Tool Bar Items of Device View

By clicking the buttons, you can register groups or devices and create installer packages.

Item	Explanation	Reference
Search	Displays "Search Box" to specify the search condition to search for devices or packages.	-

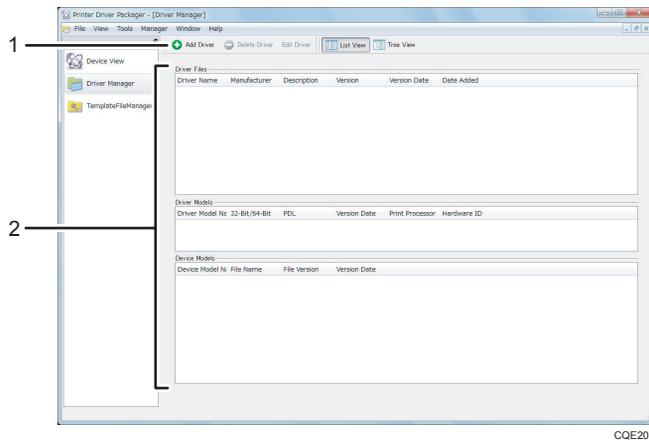
Item	Explanation	Reference
Import Device Information	Imports the device information from a CSV file.	page 25 "Importing Device Information"
Export Device Information	Exports the registered device information to a CSV file.	
Add Group	Adds a new group.	page 18 "Adding a Group"
Delete Group(s)	Deletes the selected group.	
Add Device	Adds a new device.	page 20 "Adding the Device Information Individually"
Edit Device	Select to edit the device information.	
Delete Device(s)	Deletes the selected device.	
Create Installer Packages	Creates the installer package.	page 30 "Creating a Package for Adding a Printer"
Delete Package(s)	Deletes the installer packages that match the specified criteria from the computer.	page 36 "Specifying the Criteria and Deleting the Matching Packages"
Create Cleaner	Creates a package for deleting a printer.	page 34 "Creating a Package for Deleting a Printer"
Delete All Installer Packages	Deletes all installer packages stored locally.	page 36 "Deleting All Packages"
Batch Package Creation	Creates a batch installer package.	page 34 "Creating a Batch Installer Package"
Add New Printer Information	Creates new printer information.	page 25 "Importing Device Information"
Edit Printer Information	Select to edit the printer information.	-
Re-create Printer Information	Recreates the printer information according to the default value specified in the preferences.	

 **Note**

- These operations can also be performed from the [Tool Manager] menu.

Driver Manager

In Driver Manager, you can register printer drivers and view their information.



1. Tool Bar

For details about the tool bar buttons, see page 15 "Tool Bar Items of Driver Manager".

2. Driver Information

Displays the driver information.

Tool Bar Items of Driver Manager

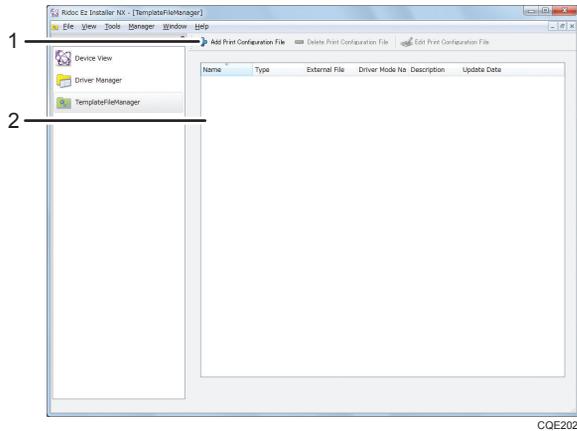
Click the buttons to register drivers and change how the items are displayed in the window.

Item	Explanation	Reference
Add Driver	Adds a driver.	page 19 " Adding a Printer Driver"
Delete Driver	Deletes the selected driver.	
Edit Driver	Click to edit the driver name and its description.	
List View	Displays the driver information as a list.	-
Tree View	Displays the driver information in a hierarchical format.	

Template File Manager

In Template File Manager, you can create and manage the print configuration files to customize printer drivers.

2



1. Tool Bar

For details about the tool bar buttons, see page 16 "Tool Bar Items of Template File Manager".

2. List View

Displays the default print configuration files that have already been created.

Tool Bar Items of Template File Manager

Click the buttons to create, edit, and delete print configuration files.

Item	Explanation	Reference
Add Print Configuration File	Click to create a print configuration file.	page 27 "Adding the Print Configuration File"
Delete Print Configuration File	Deletes the selected print configuration file.	
Edit Print Configuration File	Click to edit a print configuration file.	

3. Creating Installer Packages

This section explains how to create an installer package.

Process Flow of Creating Installer Package

1. Add a new group.

In Device View, add a group to register devices.

For details, see page 18 "Adding a Group".

2. Register a Printer Driver.

Register the printer driver to embed in a package to Printer Driver Packager NX.

For details, see page 19 "Adding a Printer Driver".

3. Add a device information.

Add the device information for creating a package.

For details, see page 20 "Adding the Device Information".

4. Create a template file.

Create a print configuration file, and customize the setting items of the printer driver.

For details, see page 27 "Adding the Print Configuration File".

5. Create the installer package.

To create an installer package, link the device added in step 3 to the printer driver registered in step 2. You can also embed the print configuration file created in step 4.

For details, see page 30 "Creating a Package for Adding a Printer".

6. Select to create a batch installer package.

You can combine more than one packages into a single package.

For details, see page 34 "Creating a Batch Installer Package".

Adding a Group

You can create groups representing different sections or floors. Register devices in those groups to manage them separately for each group. In Device View, add a group to register devices as required.

Up to seven lower-groups in a hierarchy can be created.

- 1. Click [Add Group] in Device View.**

To create a lower group, select a group that is already created, and then click [Add Group].

- 2. Enter the group name.**

- 3. Add a device to the group.**

For how to add devices, see page 20 "Adding the Device Information".

To change the group name

Double-click the group for which you want to change the name.

Do delete a group

Select the group you want to delete, and then click [Delete Group(s)].

When a group is deleted, the devices and lower groups that are registered under the group are also deleted.

Adding a Printer Driver

In Printer Driver Packager NX, register the printer driver to be embedded in the package.

1. Click **[Add Driver]** in **Driver Manager**.
2. Click **[Browse...]**.
3. Specify the folder in which the INF file of the driver you want to add is located, and click **[OK]**.

If you select the parent directory of the sub folders that contains more than one driver, all INF files are displayed in a list.

4. Click **[Search]**.
5. Specify the INF file of the driver you want to add, and click **[Start]**.

If information for more than one driver is contained in a single INF file, the search results will appear on multiple lines.

6. Enter the driver name and its description.
7. Specify PDL and the bit number according to the added driver.

When the driver type has been recognized automatically, those items are automatically selected accordingly and cannot be specified by the user. In this case, proceed to the next step.

Selectable, select the correct bit number for the driver. Otherwise, the driver cannot be installed correctly.

8. Click **[Next]**.
9. Click **[Finish]**.

To edit the driver

You can change the driver name and its description.

Select the driver for which you want to edit the information, and then click **[Edit Driver]**.

To delete the driver

Select the driver you want to delete. Click **[Delete Driver]**, and then click **[Delete]**.

Adding the Device Information

To create a package, you must first add the device information.

Adding the Device Information Individually

Add the device information manually.

3

1. In Device View, select the group for which you want to add a new device, and then click [Add Device].
2. Configure each setting item, and click [OK].

Configurable Settings

Item	Explanation	Setting Required
Display Name	Enter the display name of the device. Up to 25 characters can be entered.	Required
IPv4 Address	Enter IPv4 address of the device with the valid IPv4 syntax.	Either [IPv4 Address] or [Host Name] must be specified.
Host Name	Enter the host name of the device. Up to 255 characters can be entered.	Either [IPv4 Address] or [Host Name] must be specified.
Model Name	Enter the model name of the device. Up to 256 characters can be entered. When you start entering the model name, a list of the registered printers whose name matches the entered string appears. You can also select the model name from the displayed list. Specify the model name that correctly matches the model name registered in the driver. If the specified model name does not match that of the driver, the package cannot be created.	Required
Serial Number	Enter the serial number of the device. Up to 256 characters can be entered.	Optional

Item	Explanation	Setting Required
MAC Address	Enter the MAC address of the device with the valid MAC address syntax.	Optional
Location	Enter the location where the device is located.	Optional
Comment	Enter a comment for the device.	Optional

Serial Number, MAC Address, Location, and Comment are for device identification purposes only. The machine functions normally even if those items do not match the actual device information.

3. Click [Edit Printer Information], and modify the printer information as necessary.

For the printer port information that can be specified, see page 21 "Printer port information that can be individually specified".

4. Click [OK].

Note

- When a device is added, the printer information configured in the preference setting is added.
- When you select a group and click [Delete Group(s)], all devices registered under the group are deleted.
- When you delete a device, the package that is linked to the device is also deleted.

Printer port information that can be individually specified

[TCP/IP Port Information] Tab

Item	Explanation	Setting Required	Default value
Printer Name	Specify the printer name. Up to 31 characters can be entered. *1	Required	\$(displayname)
Add Driver Model Name	Specify whether or not to use driver model name as [Printer Name].	-	On
Add Print Configuration File Name	Specify whether or not to use the name of the print configuration file as [Printer Name].	-	On
Network Address	Specify the network address. Up to 256 characters can be entered.	Required	\$(ipaddress)
Port Number	Specify the port number. Set a value from 1 to 65535.	Required	9100

Item	Explanation	Setting Required	Default value
SNMP Status Enabled	Specify whether or not to obtain the device information via SNMP.	Optional	On
Community Name	Specify the SNMP community name. Enter a value up to 15 bytes. *2	Required *2	public
SNMP Device Index	Specify the SNMP index number. Specify a value from 1 to 10. *2	Required *2	1

*1 More than 31 characters can be entered when using a variable, but the characters after the 31st are ignored when converting printer name.

*2 This is required only when the [SNMP Status Enabled] check box is selected.

[LPR Port Information] Tab

Item	Explanation	Setting Required	Default value
Printer Name	Specify the printer name. Up to 31 characters can be entered. *1	Required	\$(displayname)
Add Driver Model Name	Specify whether or not to use driver model name as [Printer Name].	-	On
Add Print Configuration File Name	Specify whether or not to use the name of the print configuration file as [Printer Name].	-	On
Network Address	Specify the network address. Up to 256 characters can be entered.	Required	\$(ipaddress)
Port Number	Specify the port number. Specify a value from 1 to 65535.	Required	515
LPR Settings	Specify the LPR settings. Up to 32 characters can be entered.	Required	lp
LPR Byte Counting Enabled	Specify whether or not to enable or disable Byte Count. When LPR byte count is enabled, the driver confirms data transmission before transferring print data. This may help avoid errors from occurring.	Optional	On

*1 More than 31 characters can be entered when using a variable, but the characters after the 31st are ignored when converting Printer Name.

[IPP Port Information] Tab

Item	Explanation	Setting Required	Default value
IPP URL	Specify the IPP port. Up to 1,023 characters can be entered; two-byte characters cannot be entered.	Required	http://\$(ipaddress):631/printer

[SMB/Windows Server Queue Information] Tab

Item	Explanation	Setting Required	Default value
UNC Path	Specify the UNC path. Up to 31 characters can be entered.	Required	\\\$(ipaddress)\\$(displayname)
Install Printer Driver	Specify the method of installing the driver when connecting to a shared printer. <ul style="list-style-type: none"> Point & Print: Select this check box to automatically download the printer driver from the shared printer. Install on Local Printer: Select this check box to install the driver in the package created in Printer Driver Packager NX. 	Required	Point & Print

[SmartDeviceMonitor for Client - TCP/IP] Tab

Item	Explanation	Setting Required	Default value
Printer Name	Specify the printer name. Up to 31 characters can be entered. *1	Required	\$(displayname)
Add Driver Model Name	Specify whether or not to use driver model name as [Printer Name].	-	On
Add Print Configuration File Name	Specify whether or not to use the name of the print configuration file as [Printer Name].	-	On

Item	Explanation	Setting Required	Default value
Network Address	Specify the network address. Up to 256 characters can be entered.	Required	\$(ipaddress)
Port Number	Specify the port number. Set a value from 1 to 65535.	Required	9100

3

*1 More than 31 characters can be entered when using a variable, but the characters after the 31st are ignored when converting printer name.

[SmartDeviceMonitor for Client - IPP] Tab

Item	Explanation	Setting Required	Default value
IPP URL	Specify the IPP port. Up to 1,023 characters can be entered.	Required	http://\$(ipaddress):631/printer
IPP user name *1	Specify the IPP user name. Up to 8 alphanumeric characters can be entered; two-byte characters and symbols cannot be entered.	Required	-
IPP password *1	Specify the authentication password for the IPP port settings. Up to 8 alphanumeric characters can be entered; two-byte characters and symbols cannot be entered.	Required	-
Proxy Settings *1	Select whether or not to use the proxy. When the [Proxy Settings] check box is selected, specify [Proxy Server Address] and [Proxy Server Port].	Optional	Off
Proxy Server Address *1	Select the check box to use the proxy without a specific user account.	Optional	-
Proxy Server Port *1	Select the [Proxy Server Port] to use the proxy. When the check box is selected, specify [User Name] and [Password].	Optional	-

Item	Explanation	Setting Required	Default value
User Name *1	Specify the proxy user name. Up to 31 characters can be entered. Two-byte characters and ":" cannot be entered.	Optional	-
Password *1	Specify the proxy password. Up to 8 characters can be entered. Two-byte characters cannot be entered.	Optional	-

*1 This item does not appear in the screen of preferences setting.

Importing Device Information

You can import the device information that was exported from Printer Driver Packager NX or Device Manager NX.

In the CSV file that was exported from Printer Driver Packager NX, the device identification information is stored as "DEVICEID". If the imported device information contains the same "DEVICEID" as already registered, the device information will be overwritten. The device of the same name but with different "DEVICEID" is added separately as a new device.

1. Click **[Import Device Information]** in **Device View**.
2. Click **[Browse...]**.
3. Select the CSV file to import, and then click **[Import]**.

If the first row in the CSV file does not contain the field names, clear the [The first line contains item names] check box.

To overwrite a device ID that already exists with the name, select the [Overwrite the device information with the same ID with the registered device information.] check box.

4. Click **[Import]**.

If the CSV file you want to import was not created by Printer Driver Packager NX, proceed to Step 5.

If the CSV file you want to import was created by Printer Driver Packager NX, proceed to Step 7.

5. Select the setting item in the middle left part of "Import CSV File", and click **[Select]**.

The field name or column number in the imported CSV file is assigned to items such as DISPLAY NAME, MODEL NAME in the middle right part.

Click the item name such as DISPLAY NAME and MODEL NAME to which you want to assign the imported item before clicking [Select].

6. When you are finished allocating all items, click **[Preview]**.

7. Click [Next].

8. Click [Finish].

 **Note**

- New printer information is not created for the device that was added when importing the device information. To add the printer information, select a device and click [Add New Printer Information].

Adding the Print Configuration File

Printer Driver Packager NX manages the customized information of printer drivers using print configuration file

You can specify the customized value for the default settings of the printer function, lock values of setting items, and select to show or hide certain setting items. You can also set a pop-up dialog for entering/confirming the authentication and user information when printing.

1. Click [Add Print Configuration File] in Template File Manager.

2. Select [Display All Available Device Models] or [Display Only Device Models on the Device List in Device View].

- Display All Available Device Models
Displays all device models of the registered driver.
- Display Only Device Models on the Device List in Device View
Displays only the device models of the devices that are registered in the device view.

3. Select the device model and the driver model, and then click [OK].

4. Select [Newly Create] or [Import External File] under [Add Print Configuration File], and click [OK].

- Newly Create
You can select the driver that can be customized.
The printer drivers that can be customized are as follows: new PCL6/PS printer drivers.
- Import External File
 1. Specify the RST or RCF file you want to import.
 - RCF file
Data file containing PS driver or PCL6 driver that was customized in Printer Driver Editor.
 - RST file
Data file containing the print settings of old RPCS raster driver.
 2. Specify the file, and then proceed to Step 8.

5. Customize the print settings of the printer driver.

- Changing the default values
Click the "Default Setting" column of the setting item, and select the value you want to set as its default from the drop down list.
You can change the default value in the screen that appears by clicking the [Details...] button.
- Locking the settings values
Click the "Lock/Unlock" column of the setting item, and select [Lock] from the drop down list.

You can lock the default value in the screen that appears by clicking the [Details...] button.

- Hiding the setting value
 1. Select the setting item name, and click the [Details...] button.
 2. Click the "Display/Do not Display" column of the setting item, and select [Do not Display] from the drop down list.
 3. Click [OK].
- A popup dialog appears.
 1. Click [Option Configuration] tab, and select the check box of the dialog you want to show.
 2. If the dialog that you want to display has the [Option Configuration] setting, select the default value of the text string you want to display in the dialog box from the pop-up menu.

6. Click  (Save).

7. Click  (Exit).

8. Enter the template name, and click [OK].

Note

- For the types of the printer driver, see page 11 "Drivers Supported by Printer Driver Packager NX".
- The functions on the [Option Configuration] tab are not available in the PS and RPCS raster drivers.
- The setting items of the printer function, the name displayed on the screen, and the setting values you can select vary depending on the type of device or printer driver you are using. For details about each printer function, see the manual provided with the device you are using or the printer driver Help.

Setting items of the pop-up dialog box

The following setting items can be displayed in the pop-up dialog box. The setting values that are displayed on the screen vary depending on the type of the device or printer driver you are using. For details about each item, see the manual provided with the device you are using or the printer driver Help.

[Job Type Details] Dialog

Displays a dialog box according to the print method specified when printing. For example, a dialog box displaying the User ID and password appears when sample print or locked print has been selected.

From the pull-down menu, select the initial value of the authentication information that is displayed in the dialog. The following initial values can be selected:

- [Default]

Displays the authentication information that is preconfigured in the printer driver.

- [Blank]

Leaves the input box blank.

- [Login User Name]

Displays the login name of the Windows account.

[User Code] Dialog

Displays the user code confirmation dialog box.

[Classification Code] Dialog

Displays the classification code confirmation dialog box.

[Authentication] Dialog

Displays the authentication information confirmation dialog box.

From the pull-down menu, select the initial value of the authentication information that is displayed in the dialog. The following initial values can be selected:

- [Default]

Displays the authentication information that is preconfigured in the printer driver.

- [Login User Name]

Displays the login name of the Windows account.

[Single Sign-On Authentication] Dialog

Displays the authentication dialog box when the login user name and password of the device do not match the login user name and password of the Windows account.

From the pull-down menu, select the initial value of the authentication information that is displayed in the dialog. The following initial values can be selected:

- [Default]

Displays the authentication information that is preconfigured in the printer driver.

- [Login User Name]

Displays the login name of the Windows account.

↓ Note

- The [User Code] Dialog and the [Single Sign-On Authentication] Dialog cannot be specified simultaneously.

Creating Installer Packages (Output)

The following installer packages can be created in Printer Driver Packager NX:

Packages for adding printers

You can create an installer package that has the customized initial values (default settings) for the printer function. You can also set certain setting items to be displayed or hidden or customize the settings of the optional functions in the installer package.

For details, see page 27 "Adding the Print Configuration File".

Packages for deleting printers

You can create packages for deleting a printer driver from the computer on which the package is executed.

Batch Package

You can create an installer to install multiple packages for installing printers.

Creating a Package for Adding a Printer

1. Select a device for which to create a package in Device View, and then click [Create Installer Packages].
2. Select the items to be embedded in the installer package.
3. Click [OK].
4. Specify the save location of the created package.

A folder representing the hierarchy of the group to which the device belongs is created inside the specified folder.

5. The list of the packages that will be created appears. Check the list and click [Start].
6. Confirm that creating the package is complete, and then click [Close].

Setting items in the Create Installer Packages screen

[Basic] tab

Item	Explanation	Default value
Set as Default Printer	Select whether or not to specify the printer as the default printer.	Off

Item	Explanation	Default value
Operations to Perform When a Printer with the Same Name Exists	<p>Specify how the installer package behaves when a printer of the same name already exists on the destination computer.</p> <p>When [Add a unique suffix to printer name] is selected, the installer adds unique suffix to the printer name when installing the driver.</p> <p>When [Overwrite] is selected, the installer overwrites the existing printer.</p>	Add a unique suffix to printer name
Silent Mode	Select whether or not to create the package in silent install mode.	Off
Pop Up the Installation Completion Dialog Box	Select whether or not to display a pop-up dialog box to confirm installation.	Off
Port Selection	<p>Select the port to be created. If more than one port is selected, a package is created for each selected port.</p> <p>Only when you select [SmartDeviceMonitor for Client (TCP/IP)] or [SmartDeviceMonitor for Client (IPP)] and specify [Installer Path for SmartDeviceMonitor for Client] in [Preferences], you can select [Install SmartDeviceMonitor for Client] on the [Advanced] tab.</p> <p>If you select [USB], you can create a package which installs a printer driver without using the printer's default name.</p>	Only TCP/IP set to On

Item	Explanation	Default value
Package Versioning	<p>Specify the version of the package.</p> <p>By assigning version numbers to packages, you can confirm the package versions installed on different computers and manage the drivers more easily.</p> <p>If [Default] is selected, the package version is set to "V1.0.0" when no package has been created for the selected driver model. The major version number is incremented if the package already exists and the driver has been updated, and the minor version number is incremented if the driver has not been updated.</p> <p>If [Minor upgrade] or [Major upgrade] is selected, the minor or major version number of the package is incremented.</p> <p>If [Specified Version Number] is selected, you can specify any desired version number.</p>	Default
Driver Model Selection	<p>Select the driver for which to create a package. If more than one driver is selected, a package is created for each selected driver.</p>	On
Use Print Configuration File	<p>Select whether or not to embed the print configuration file of the driver in the package. If more than one file is selected, a package is created for each selected file.</p>	Off

[Advanced] tab

Item	Explanation	Default value
Install SmartDeviceMonitor for Client	<p>Configure the printer information related to the [TCP/IP] and [IPP] settings for SmartDeviceMonitor for Client.</p> <p>Only when you select the [Port Selection] check box on the [Basic] tab and specify [Installer Path for SmartDeviceMonitor for Client] in [Preferences], you can enable the [Install SmartDeviceMonitor for Client] setting.</p> <p>If you are not installing SmartDeviceMonitor for Client, clear the [SmartDeviceMonitor for Client (TCP/IP)] or [SmartDeviceMonitor for Client (IPP)], check box.</p>	Off
Share Printer	<p>Select whether or not to share the printer.</p> <p>When sharing the printer, the user name is used as the shared name if [Use Display Name as a Shared Printer Name:] is selected. When [Specify Shared Printer Name] is selected, specify the shared name.</p>	Off
Use CSV File for User Switching	<p>You can set different setting values for each use using the individual configuration file.</p> <p>For details about individual configuration file, see page 44 "Creating the Individual Configuration File".</p>	Off
Use Specified User Account	<p>Specify the user account to use when executing the package to install the printer driver. When creating a driver installation package for users who do not have the appropriate privilege, specify a user account that has the administrative privilege.</p>	Off

Creating a Package for Deleting a Printer

The following section explains how to create a package that deletes the printer name, printer ports, and printer drivers in a batch from the computer on which the package is executed.

1. Click **[Create Cleaner]** in **Device View**.
2. Select whether to uninstall all printer drivers or specify the drivers to be uninstalled.
3. To specify the printer driver to be uninstalled, select the check box for the printer model you want to uninstall.
4. Click **[OK]**.
5. Specify the save location of the created package, and then click **[OK]**.
6. Click **[Close]**.

Note

- If the **[Pop up a dialog box for cleaner completion.]** check box is selected, a completion message will appear when deleting the printer is complete.
- The names of the drivers registered in Printer Driver Packager NX are displayed in the **[Driver Model Name]** list. The names of the drivers that have been already removed from Printer Driver Packager NX are also displayed and a package for deleting those drivers can be created.
- If you execute a package for deleting a printer on a computer where more than one printer is installed, all the printer names that match the driver model specified in the package are deleted.

Creating a Batch Installer Package

The following section explains how to create an installer to install more than one package as a batch.

The package for adding a printer must be created before creating a batch package. For how to create a package for adding printers, see page 30 "Creating a Package for Adding a Printer".

1. Select a device in **Device View**, and then click **[Batch Package Creation]**.
2. On the **[Basic]** tab, select the package to embed in the installer.
3. On the **[Advanced]** tab, select the behavior of the installer.
 - **[Silent Mode]**
Select whether or not create the installer in silent install mode.
 - **[Pop Up the Installation Completion Dialog Box]**
Select whether or not to display a completion message when the installation process is completed.
 - **[Use Specified User Account]**

To specify the executing user of the driver installer, select this item and specify the domain name, user name, and password.

4. Click [OK].
5. Specify the output location of the installer to be created, enter its name, and then click [Save].
6. Confirm that creating the installer file is complete, and then click [Close].

Note

- In the created Batch Installer Package, the [Silent Mode], [Pop Up the Installation Completion Dialog Box], and [Use Specified User Account] settings configured in the procedure above can be enabled. If these settings are enabled, the individual settings of the embedded installer packages are ignored.

Deleting Installer Packages

There are two methods of deleting a package. One is to delete packages that match certain criteria at once, and the other is to delete all packages that are stored locally in a batch.

Specifying the Criteria and Deleting the Matching Packages

3

You can delete packages that match the specified criteria from the devices in the selected group or from the packages that are linked to the selected devices.

1. **Select a device in Device View, and then click [Delete Package(s)].**
2. **Specify the package you want to delete.**
 - **Port Selection**
Specify the protocol of the printer port to narrow down the selection.
 - **Package Versioning**
Specify the version of the package to narrow down the selection. If you select [Or Greater], all packages with the specified version or higher are selected. If you select [Or Less], you can select all packages with the specified version or lower.
 - **Driver Model Selection**
Specify the model name of the printer driver to narrow down the selection.
 - **Installer Package Selection**
Select the packages to be deleted in the list of packages that match the specified criteria.
3. **Click [Delete].**

Deleting All Packages

You can delete all the packages linked to the selected device.

1. **Select a device in Device View, and then click [Delete All Installer Packages].**
2. **Confirm the package to be deleted, and then click [Delete].**

4. Editing the Printer Driver Packager NX Preferences

On the [Preferences] screen, you can configure various settings of Printer Driver Packager NX, such as the initial value of printer information and the location for storing created files.

Click [Preferences] in the [Tools] menu to open the [Preferences] screen.

Setting Items under Preferences

The following setting items are available on the Preferences screen:

- [General]
Configure the general settings of Printer Driver Packager NX.
- [Device View]
Configure the settings for Device View.
- [Installer Package]
Configure the settings for package creation.

Note

- To reset the settings in the currently displayed screen to their initial values, click [Reset to Default].

General

Configure the following items to set the logging and display language settings.

Logging Level

Specify how frequently the log is recorded.

Select from [OFF], [ERROR], or [DEBUG], or use the slider.

All user operations performed in Printer Driver Packager NX are recorded in the log. Select [ERROR] to record log regarding errors. If you want to record a more detailed log, select [DEBUG].

Language

Select the display language of Printer Driver Packager NX.

Also, you can change the language displayed during driver installation or uninstallation by the created installer package.

Device View

You can specify how to edit the device information on the [Device View] screen and the initial settings of the printer information.

Some of the items accept variables. For the available variables, see page 38 "Variables that can be used in Device View".

Enter

Select whether or not to display a pop-up dialog box to edit the device information when editing the information on the Device View screen.

When the [Enable Edit Device Dialog Box] check box is cleared, you can directly enter the information on the device list view.

Port Default Settings

Specify the initial values of the port that is used when creating new printer information.

The settings for [TCP/IP Port], [LPR Port], [IPP Port], [SMB/Windows Server Queue Information], [SmartDeviceMonitor for Client - TCP/IP] and [SmartDeviceMonitor for Client - IPP] can be configured on the corresponding tabs.

When you are finished specifying each item, click [Apply].

Note

- For details about port settings, see page 21 "Printer port information that can be individually specified".

Variables that can be used in Device View

The following variables can be specified in [Device View] under [Preferences]. A variable is replaced by a different value for each device such as its IP address and model name, and the resulting value is registered as the default value in the device information.

Variables are replaced by the values specified when registering the device information. For details about adding device information, see page 20 "Adding the Device Information".

Usable Variable List

Variables	Explanation
\$(ipaddress)	This variable will be replaced by the IP address of the device. If no IP address is assigned to the device, this variable will be replaced by the host name of the device.
\$(hostname)	This variable will be replaced by the host name of the device. If no host name is specified on the device, this variable will be replaced by the IP address of the device.

Variables	Explanation
\$(displayname)	This variable will be replaced by the display name of the device.
\$(modelname)	This variable will be replaced by the model name of the device.
\$(serialnofile)	This variable will be replaced by the serial number of the device.
\$(macaddress)	This variable will be replaced by the MAC address of the device.
\$(location)	This variable will be replaced by the location information of the device.
\$(comment)	This variable will be replaced by the comment of the device.

↓ Note

- An error occurs and the specification fails when a variable other than the ones listed above is specified.

Installer Package

You can specify the settings such as the output destination of the created installer package and the location of the printer driver.

Some of the items accept variables. For the available variables, see page 40 "Usable variables in Installer Package".

Item	Explanation	Setting Required	Default value
Package Name	Specify the generation rule of package file names. Up to 250 characters can be entered.	Required	\$(displayname)_\$(portname)_\$(drivermodelname)_\$(bit)Bit_\$(msiversion)
Output Folder	Specify the destination folder for the package to be managed by Printer Driver Packager NX. Up to 100 characters can be entered. The following subfolder is created directly under the specified folder, and the packages that have been created are output to this folder: \package\RICOH\PRINTER	Required	\$(packagerfolder)

Item	Explanation	Setting Required	Default value
Folder to Save Driver	Specify the folder for storing the printer driver to be managed by Printer Driver Packager NX. Up to 250 characters can be entered. The printer driver will be stored in the following subfolder directly under the specified folder. <code>\system\REGISTERED_DRIVERS</code>	Required	<code>\${packagerfolder}</code>
Max No. of Threads	Specify the maximum number of processes executed (number of threads) when creating a package. A greater value increases the computer's workload but may shorten the process time. Specify a value between 1 and 5.		1
Installer Path for SmartDeviceMonitor for Client	When creating a package that installs SmartDeviceMonitor for Client, specify the path name where the installer (Setup.exe) of SmartDeviceMonitor for Client is located. You can also manually enter the path name. Up to 240 characters can be entered.		

Usable variables in Installer Package

You can use variables when specifying [Installer Package] under [Preferences].

The following variables will be replaced by the corresponding values such as the display name of the device or driver model name according to the different device or driver when creating a package:

Usable Variables in [Package Name]

Variables	Explanation
<code>\${displayname}</code>	This variable will be replaced by the display name of the device.
<code>\${pdlname}</code>	This variable will be replaced by the name of the printer language (PDL) used on the device.
<code>\${drivermodelname}</code>	This variable will be replaced by the driver model name.

Variables	Explanation
\$(bit)	This variable will be replaced by "32bit" or "64bit".
\$(msiversion)	This variable will be replaced by the MSI Version of the package.
\$(portname)	This variable will be replaced by the port name.

The following variables will be replaced by the path name where Printer Driver Packager NX is installed when a package or saving drivers are created:

Usable Variables in [Output Folder] and [Folder to Save Driver]

Variables	Explanation
\$(packagerfolder)	Variables will be replaced by the following path name when a package is created or drivers are saved: C:\Ricoh\Printer Driver Packager NX (If Printer Driver Packager NX is installed in the default location)

⬇ Note

- A blank space in the replacing string will be replaced by an underscore (_).
- An error occurs and the specification fails when a variable other than the ones listed above is specified.

5. Appendix

The following section explains how to create the individual configuration file to be embedded in an installer package. It also explains the troubleshooting procedures.

Supplementary Information

Additional information for installing the drivers on a computer using the installer package is provided below.

Precautions for installation using the installer package

To install drivers on a computer using the installer package, pay attention to the following:

Depending on the contents of the installer package that is created or installation environments, drivers may not work properly.

For the precautions for driver installation, see "Readme" in Printer Driver Packager NX. For details about how to delete the installed driver, see "Readme" provided with the printer driver.

Note

- If the driver you want to install in a package installation destination and the driver that has been installed in the destination is the same and if the version of the driver in the installer package is earlier than that of the driver you want to install, no installation will be performed.
- If the name of the printer you want to install in a package installation destination and the one of the printer that has been installed in the destination is the same, the existing printer is overwritten or the printer to be installed is renamed according to the settings of the package.
- If the name of the printer port you want to create as a package installation destination is the same with that of the printer port already installed in the destination, the existing port name is overwritten.
- When the installer package is installed, the package is added to "Programs and Features" ("Add or remove programs" for Windows XP and Windows Server 2003).
- You cannot delete the installed driver by deleting the printer icon manually. Go to "Programs and Features" ("Add or remove programs" for Windows XP and Windows Server 2003) to delete it.

Creating the Individual Configuration File

About the individual configuration file

The individual configuration file is a file in CSV format containing the settings values that may differ for each device or user such as the user code and user name.

By creating the individual configuration file and embedding the file in the installer package, you can identify and configure the required user settings of the driver when installing it on different computers.

The sample format file of the CSV file that can be imported is stored in the sample folder under the install folder of Printer Driver Packager NX.

The following information can be specified in the individual configuration file:

User Information

- User Code
- User ID
- User Name

Destination device information assigned to each user includes:

- Device's IP address (for TCP/IP port)
- URL (for IPP port)
- UNC path (for SMB/UNC port)

Individual configuration file syntax

The individual configuration file must conform to the following rules:

- The individual configuration file must be a CSV file in the appropriate character code using the language of Windows operating system or those specified in [Regional and Language Options]:
 - Select "Latin-1" for English and other European languages
 - Select "GB2312" for Chinese
- The line that begins with a sharp symbol (#) is treated as a comment. Comments can be entered on any lines in the file.
- The item names in the individual configuration file must be defined in the first line of the file.
- The items "machine" and "account" must be written in this order on the first line of the file.
- When a comma (,) or double-quotation mark (") is included in the data, enclose the entire data with double-quotations.

Items in the individual configuration file

Item name	Setting	Explanation
machine	Computer name	The computer name specified in Windows.
account	Logon user name	The logon user name in Windows.
\$USERCODE\$	User Code	The number for identifying the user of the device. Up to 8 numeric characters can be entered.
\$USERID\$	User ID	The ID for identifying users in the Document Server function. Up to 8 alpha numeric characters can be entered.
\$USERNAME\$	User Name	The name for identifying users in the Document Server function. Up to 16 single byte alpha numeric characters other than double quotation ("") can be entered.
\$ADDRESS\$	IP address or host name of the device	This setting can be enabled only when a TCP/IP port is specified in the package. Otherwise, it is ignored.
\$URL\$	URL of the IPP port	This setting can be enabled only when an IPP port is specified in the package. Otherwise, it is ignored.
\$UNCPATH\$	UNC path	This setting can be enabled only when an SMB/UNC port is specified in the package. Otherwise, it is ignored.

Priority in determining the data to be applied

If an individual configuration file is embedded in the installer package, the data to be applied is determined by the following priority:

1. Both "machine" and "account" match
2. "account" is blank and "machine" matches
3. "machine" is blank and "account" matches

4. "@default@" is specified for "machine" (default value for environments in which any of the above three conditions are not applied)

 **Note**

- In an environment in which the first three conditions are applied, the fourth condition will be applied.

CSV file format of the Device list

You can import or export the device and group information managed in [Device View] from/to a CSV file.

In order to import or export a CSV file, click [Import Device Information] or [Export Device Information] on the [Device View] tool bar.

The format of the CSV file used in Printer Driver Packager NX is as follows:

Enter the field names in the first to tenth columns on the first line, and the values corresponding to the field names on the following lines.

Line number	Field name on the first line	Values on the second and later lines
1	DEVICEID	Identification information of the device ^{*1}
2	DISPLAYNAME	Display name of the device
3	IPADDRESS	IPv4 Address of the device
4	HOSTNAME	Host name of the device
5	MODELNAME	Model name of the device
6	SERIALNO	Serial number of the device
7	MAC	MAC address of the device
8	LOCATION	Location of the device
9	COMMENT	Comment of the device
10	GROUPPATH	The path name of the group to which the device belongs. ^{*2}

^{*1} This item does not appear in the screen of Printer Driver Packager NX.

^{*2} Enter "/" if the device does not belong to any group. Enter "Group2/Group3" when the device belongs to Group2 under Group3.

Note

- You can assign the item name when importing a file even if the field name on the first line does not match the format described above. For details about importing CSV files, see page 25 "Importing Device Information".

Troubleshooting

Problem	Causes and Solutions
Print configuration file cannot be created.	Check that the driver supports the print configuration file.
To delete a package that has been installed.	Remove the package in the "Programs and Features" ("Add or remove programs" for Windows XP and Windows Server 2003) window of the computer on which the package is installed, or execute the package for removing the driver.

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