

**RICOH 5765-H70 ProcessDirector  
for Linux Software**



# RICOH 5765-H70 ProcessDirector for Linux Software User Guide

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# RICOH

**RICOH 5765-H70 ProcessDirector for Linux Software**



## Release Notes for RICOH ProcessDirector™ for Linux

(February 2024)

- Security Vulnerabilities
- Known limitations, problems, and workarounds
- Product Documentation
- Customer support
- Trademarks

These release notes provide information about RICOH ProcessDirector for Linux, Version 3 Release 12 Modification 1 (3.12.1) (Program Number 5765-H30) and RICOH ProcessDirector Subscription for Linux, Version 3 Release 12 Modification 1 (3.12.1) (Program Number 5765-H70).

### New functions and updates in Version 3.12.1

These new functions and updates are included in RICOH ProcessDirector Version 3, Release 12, Modification 1.

### Updated translations

The content of the Version 3.12 product interface and the help system has been translated into these languages:

- Brazilian Portuguese
- French
- German
- Italian
- Japanese
- Spanish

To see the translated user interface and help content, download and install the Language Pack for your language.

### **Upgrade and migrate to PostgreSQL on the same system**

In RICOH ProcessDirector version 3.12, we introduced support for PostgreSQL as the main database underlying RICOH ProcessDirector. To move to PostgreSQL, you were required to install version 3.12 on a different server and use the Migration Assistant to migrate your data. With version 3.12.1, you can upgrade and migrate your data on the same system. Install RICOH ProcessDirector, making sure to choose the PostgreSQL database configuration. After the installation completes, follow the instructions to migrate your data, then remove IBM DB2 from your primary computer.

### **Manual failover now supported for PostgreSQL configurations**

Manual failover configurations for system redundancy are now supported on RICOH ProcessDirector with PostgreSQL as well as DB2.

### **XML-RPC calls no longer supported**

The Connect extension, which let you connect to RICOH ProcessDirector remotely and use XML-RPC calls in scripts, is deprecated and no longer supported. We recommend using RICOH ProcessDirector web service API instead. For information about using web services, see [Web services in RICOH ProcessDirector](#), p. .

### **Additional updates include:**

- Ability to save the View job in workflow image
- Added the StepChainDemo workflow to illustrate the use of step chains
- Updated prerequisites for the Preprinted Forms Replacement feature, so customers with the AFP Support Feature can install Preprinted Forms Replacement without also installing PDF Document Support.
- Usability updates for the Migration Assistant

### **New functions and updates in Version 3.12**

These new functions and updates are included in RICOH ProcessDirector Version 3, Release 12, Modification 0.

### **Primary database options now available**

After many years of supporting only one database, RICOH ProcessDirector can now run with PostgreSQL as its primary database. While IBM DB2 is still supported in the same configuration as it has been, PostgreSQL is now the default database configuration. Existing customers can upgrade to version 3.12 and continue to use DB2 with no interruptions, or can choose to migrate their data to a PostgreSQL database.

### **NOTE**

To migrate data from DB2 to PostgreSQL, you must install RICOH ProcessDirector version 3.12 on a different computer. You cannot install the PostgreSQL configuration on the same system as an existing DB2 configuration. The PostgreSQL database is installed in a Docker container, so Docker Engine must be installed on the primary computer.

### **Migration simplified**

One of the most challenging aspects of moving to a new version of an application is ensuring that everything still works. Especially when the upgrade requires moving to a new system, it is challenging to know that you have copied everything that needs to be there. The RICOH ProcessDirector Migration Assistant now makes the process much easier. Install the base product on a new system, then log in and start the Migration Assistant. Use the Assistant to connect to your existing installation, choose the objects and settings to migrate to the new one, and let the Assistant do the work. The Migration Assistant can handle moving data from an existing DB2 database to PostgreSQL, and can even work across operating systems.

### **RICOH ProcessDirector for AIX replacement**

In version 3.12, RICOH ProcessDirector for AIX has been discontinued. Customers running on AIX can continue to use the application until the end of the support date. Alternatively, they can migrate to version 3.12 on Linux or Windows and use the Migration Assistant to port their data to a new system.

## **New Supported Printers**

RICOH ProcessDirector now supports printer models with the new Fiery® N-series Controller Digital Front Ends, based on Fiery and Ricoh technology. You can define these new printer models as Ricoh PDF printers:

- RICOH Pro C7500
- RICOH Pro C9500

## **Updated operating system support**

You can now install RICOH ProcessDirector on these operating system versions:

- Rocky Linux 8.4 through latest 8.X
- Rocky Linux 9.0 through latest 9.X

## **NOTE**

You can only install the PostgreSQL configuration on these operating systems. IBM DB2 is not supported on Rocky Linux.

## **New functions and updates in Version 3.11.2**

These new functions and updates are included in RICOH ProcessDirector Version 3, Release 11, Modification 2.

### **New support for custom job properties**

With this release, you can create custom properties for jobs. In the past, RICOH ProcessDirector provided 20 job properties that you could use to store custom information. However, you could not rename the fields or change anything about them. With this new function, you can create your job properties— assigning unique field and database property names as you want to see them. To define custom job properties, use the Custom Properties page on the Administration tab. Fill in the property notebook, activate the property, and you can start using it in your workflows!

### **An easier way to define custom document properties**

The same Custom Properties page used to define custom job properties can also be used to define document properties! This new function significantly reduces the overhead associated with creating custom document properties. You no longer need to update the docCustomProperties.xml file, run the DocCustom utility or install the new property. Simply fill in the fields in the custom property notebook and activate. Your document properties are ready to use!

### **Updated Adobe Acrobat Plug-in**

The RICOH ProcessDirector Plug-in for Adobe Acrobat has been updated to support the OpenJDK™ Java® JRE Version 1.8 in addition to Oracle® Java. An appropriate JRE must be installed on your system before you install the Plug-in. With this update, we strongly recommend installing the 64-bit version of the JRE. In addition, you can now install the Plug-in with the 64-bit version of Adobe Acrobat Pro.

### **Updates to translated publications**

Books and help systems containing translated information for functions released in Version 3.11.1 are now available. To see the translated help content and updated books from the help menu, download and install the Language Pack for your language. PDF versions of the books are also available in the RICOH Software Information Center (<https://help.ricohsoftware.com/swinfocenter/>)

## **New functions and updates in Version 3.11.1**

These new functions and updates are included in RICOH ProcessDirector Version 3, Release 11, Modification 1.

### **Updated translations**

The content of the Version 3.11 product interface and the help system has been translated into these languages:

- Brazilian Portuguese
- French
- German
- Italian
- Japanese
- Spanish

To see the translated user interface and help content, download and install the Language Pack for your language.

- **Choose paper for banner pages using media settings**

If you're printing PDF jobs, you can now specify which paper to print banner pages on by media, instead of by specifying a paper tray. Your banner pages print on the correct paper, regardless of where that paper is loaded. This function is available for Ricoh PDF, Kodak PDF, and Xerox PDF printers.

- **User interface updates**

The user interface has been enhanced to adjust the size of your portlets to fit inside your browser window. When you change the size of the window (by changing the dimensions of the browser or by moving it to a different screen), the portlets shrink or expand to fill the space available.

- **Data capture improvements**

With this update, you can download a data capture file to your system directly from the data capture page, so you don't have to access the primary server to retrieve the file. You can also stop a capture that is already in progress.

- **Operating system support changes**

In this release, we increased the minimum level of CentOS required to install RICOH ProcessDirector to version 7.9.

## **New functions and updates in Version 3.11**

These new functions and updates are included in RICOH ProcessDirector Version 3, Release 11.

- **Ability to restore to a previous installation of RICOH ProcessDirector**

With this version of RICOH ProcessDirector, you can restore a previous installation using Feature Manager. With this new function, you install a new feature and then effectively back it out if you decide that it does not meet your needs. Or, if you apply an update but something goes wrong during the install process, you can restore the installation from before the update to get back to a stable state before you try to update again.

- **New data collector to collect information about processing durations**

Now, you can use the Job Step Duration data collector to collect information about how long each step was in the queued and processing states, as well as the total length of time it takes for each step in a workflow to complete processing. You can also select job properties to capture at the end of each step.

- **Operating system support changes**

In this release, we have removed support for installing RICOH ProcessDirector application servers on Windows Server 2016.

- **Include the Preset name in AFP print jobs**

If you send AFP print jobs to a printer that uses TotalFlow Print Server, you can now include the name of the printer preset to use for the job as a job property.

- **Security vulnerabilities addressed**

Ricoh is committed to responding to the results of vulnerability scans and will continue to include those fixes in each release that we deliver. In this release, various components were updated to address these vulnerabilities, including:

- AFP Support
- Avanti Slingshot Connect
- Reports
- Printer Connector
- Ricoh PDF Printer
- DB2
- Product Update

Release notes for prior versions of RICOH ProcessDirector are available on the RICOH Software Information Center here: [Release notes: RICOH ProcessDirector](#)

### Security Vulnerabilities

The following security vulnerabilities were addressed in this and previous RICOH ProcessDirector releases.

#### Security Vulnerabilities resolved in various releases

Release	Security Vulnerabilities resolved
Version 3.12.1	<ul style="list-style-type: none"><li>• CVE-2023-26048</li><li>• CVE-2023-26049</li><li>• CVE-2022-34169</li><li>• CVE-2023-5072</li><li>• CVE-2023-51074</li></ul>

Version 3.12	<ul style="list-style-type: none"> <li>• CVE-2013-1569</li> <li>• CVE-2013-2383</li> <li>• CVE-2013-2384</li> <li>• CVE-2013-2419</li> <li>• CVE-2014-7923</li> <li>• CVE-2014-7926</li> <li>• CVE-2014-7940</li> <li>• CVE-2014-8146</li> <li>• CVE-2014-8147</li> <li>• CVE-2014-9911</li> <li>• CVE-2014-9654</li> <li>• CVE-2015-1270</li> <li>• CVE-2016-6293</li> <li>• CVE-2016-7415</li> <li>• CVE-2017-14952</li> <li>• CVE-2017-15422</li> <li>• CVE-2017-7867</li> <li>• CVE-2019-17543</li> <li>• CVE-2020-25694</li> <li>• CVE-2020-25695</li> <li>• CVE-2020-25696</li> </ul>
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Release	Security Vulnerabilities resolved
	<ul style="list-style-type: none"> <li>• CVE-2021-20229</li> <li>• CVE-2021-32029</li> <li>• CVE-2021-3393</li> <li>• CVE-2022-31197</li> <li>• CVE-2022-41862</li> <li>• CVE-2022-41946</li> <li>• CVE-2023-22946</li> <li>• CVE-2023-41080</li> </ul>

Version 3.11.2	<ul style="list-style-type: none"> <li>• CVE-2022-31160</li> <li>• CVE-2022-40146</li> <li>• CVE-2022-43927</li> <li>• CVE-2022-43929</li> <li>• CVE-2023-24998</li> <li>• CVE-2023-28708</li> </ul>
Version 3.11.1	<ul style="list-style-type: none"> <li>• CVE-2019-17571</li> <li>• CVE-2020-9488</li> <li>• CVE-2021-29425</li> </ul>
Version 3.11	<ul style="list-style-type: none"> <li>• CVE-2016-6814</li> <li>• CVE-2019-12779</li> <li>• CVE-2020-17521</li> <li>• CVE-2021-28169</li> <li>• CVE-2021-34428</li> <li>• CVE-2021-42340</li> <li>• CVE-2022-22970</li> <li>• CVE-2022-23437</li> </ul>
Version 3.10.2	<ul style="list-style-type: none"> <li>• CVE-2018-11770</li> <li>• CVE-2018-11804</li> <li>• CVE-2020-11988</li> <li>• CVE-2020-15250</li> <li>• CVE-2021-41561</li> <li>• CVE-2021-43090</li> <li>• CVE-2022-23437</li> </ul>

## Known limitations, problems, and workarounds

### Base product

Unrestricted access for updated Custom properties When you create a custom property from Administration → Objects → Custom Properties, the access type properties do not impose any restrictions or limitations on accessing or modifying the custom properties values. Regardless of the access type group assigned to the custom property, all users have unrestricted access to the custom property visibility and values.

### The booklet processor tray option is not supported

If you create a RICOH Totalflow printer object to represent a cut sheet printer that uses RICOH TotalFlow Print Server, the Booklet processor tray option for the Output bin property is not supported.



### **Searching in Viewer takes a long time**

If you open a large file in the Viewer and use the text search function, it can take a long time to find results. For better responsiveness, search using document property values.

### **Location filtering between legacy and updated user interfaces**

In the legacy user interface, when a user sets preferences to show objects from a set of locations, the System Summary contains an All button. The button lets the user remove location filtering. If a user clicks the All button, the Allowed locations property for that user is modified to remove all the locations that were set. All objects with or without locations are displayed. If the same user then logs in to the updated user interface, the user only sees objects that do not have the Location value set. To show the objects in other locations in the updated user interface, an administrator must update the Allowed locations property for that user to contain the locations that were removed using the legacy user interface. You can use the Update Multiple actions on the Users table accessed from the Administration page and change the Location or other user properties on all selected users at once.

### **Configuration updates for InfoPrint 5000 printers**

If you use RICOH ProcessDirector to send jobs to an InfoPrint 5000 and turn SNMP on, the Default bins property is set incorrectly. The printer sends an incorrect bin name as the default, so print jobs cannot be sent to the printer. To fix the problem, change the value for the Output bins supported property on the printer object to All bins.

### **Japanese PDF banner page causes an error on InfoPrint 5000**

To print double-byte characters on PDF banner pages, make sure that font substitution is enabled for the LPR printer attachment:

1. On the InfoPrint 5000 console, open Printer Definitions → Network → Attachments → LPR.
2. On the Job tab, select the option to enable font substitution and save the setting.

### **Rotating in the viewer component**

When you rotate a page that shows a PDF object container in the AFP viewer, the PDF object container does not rotate. You are most likely to see this problem when you install the Preprinted Forms Replacement feature. When RICOH ProcessDirector combines data in an AFP file with an electronic form, it creates a PDF object container for the form.

### **Searching for double-byte character set data in the viewer component**

The search function of the AFP viewer can only find double-byte text strings when they are represented using outline fonts. Text strings represented using raster fonts cannot be found.

### **RICOH ProcessDirector does not support file systems created with the 64-bit inode setting**

Use the 32-bit inode setting when you create file systems for RICOH ProcessDirector. File systems created with the 64-bit inode setting are not supported.

## **Features**

### **Uninstalling Reports can result in errors**

Uninstalling reports should only be done if assisted by Ricoh Software Support team. Attempting to uninstall reports could result in the inability to install some features afterwards.

### **Uninstall AFPSupport can affect the AFPSupport samples**

If you want to uninstall AFPSupport, you must manually change the AFPSupport samples.

### **Restoring a previous installation of RICOH ProcessDirector**

When you restore a previous installation of RICOH ProcessDirector to remove a feature, we recommend:

- If a feature was just installed and not used, restore to a point before that feature was installed.
- If the feature was used, request assistance from the Ricoh Software Support team.

#### **Cannot import RICOH Supervisor data transmitter or Ricoh cloud credential**

Because of the one-to-one relationship between a RICOH ProcessDirector system and RICOH Supervisor, the only way to create the RICOH Supervisor data transmitter is to use the RICOH Supervisor Settings page on the system that will transmit data to RICOH Supervisor. If you export all objects from one system to another, these objects are included in the export file but cause an error when you try to import them.

#### **Cannot export or import custom portlets from previous versions**

If you created a tree or matrix custom portlet on a RICOH ProcessDirector system prior to version 3.10.1, you cannot import it to a 3.10.1 system. Create the custom portlet again.

#### **Jobs are not processed correctly when sent to Ultimate Imposrip®**

When sending jobs to Ultimate Imposrip®, we do not recommend using Multi-Byte Character Set (MBCS) characters in a job name, as it will not process correctly.

#### **MBCS characters are not supported in RICOH Supervisor Settings**

MBCS characters cannot be used in any of the fields on the RICOH Supervisor Settings page.

#### **RICOH Visual Workbench data contained in NOP records might be garbled on a DBCS system**

When you run the Visual Workbench product interface on a system that uses a double-byte character set (DBCS), the data contained in any No Operation (NOP) records might be garbled.

#### **Text added using Whitespace Manager does not wrap**

When you use Whitespace Manager to add text to print jobs, the text does not wrap to the next line at the edge of the white space boundary; the text prints on one line and can extend off the page. You cannot insert carriage returns or line feeds in the text. Whitespace Manager does not check the length of the text, so it does not display a warning that the text is longer than the defined white space. To insert multiple lines of text in white space, we recommend that you either create a page segment or an image that includes the text and include it as an image rather than entering the text in Whitespace Manager.

#### **Code change requests included in this release**

Code change requests (CCRs), service requests (SRs), and other field issues are resolved in this release.

#### **These issues were resolved in RICOH ProcessDirector 3.12.1**

Issue number	Description
RPD3-5625	Advance filter fails to match entries with the requested cycle date.
RPD3-5689	Unable to install features on new RICOH ProcessDirector Linux 3.11.2 system.
RPD3-5722	Cut sheet printing media issue.
RPD3-5748	The input device stopped batching the files automatically.

#### **These issues were resolved in RICOH ProcessDirector 3.12**

Issue number	Description
RPD3-5305	Selectors are blocked from running.
RPD3-5395	Insertter controller stops running after upgrading.
RPD3-5438	Users with view only permission are logged out without prior notification.
RPD3-5450	Auto refresh stops working.
RPD3-5466	Statistics are not sent to Avanti Slingshot.
RPD3-5486	AFP properties cannot be selected or viewed when in Windows.
RPD3-5490	Viewer not rendering correctly.
RPD3-5495	Run Pipeline step encounters a NullPointerException.
RPD3-5517	Password length error.
RPD3-5533	RICOH ProcessDirector Hot Folders disconnects unexpectedly, causing an error when reconnecting.
RPD3-5543	Job filter errors.

Issue number	Description
RPD3-5547	The input file processed by ACIF outputs an invalid AFP file.
RPD3-5582	BuildPDFFromZIP step fails after upgrading RICOH ProcessDirector version.
RPD3-5635	BuildPDFFromDocuments step outputs truncated PDF.
RPD3-5655	The BuildPDFFromZIP step fails when job batch contains only one file.

### **These issues were resolved in RICOH ProcessDirector 3.11.2**

Issue number	Description
RPD3-5430	PSF internal error when printing.
RPD3-5334	Upgrading RICOH ProcessDirector from version 3.8 to 3.10 generates printing errors.
RPD3-5386	Process Again does restart from the beginning of the workflow.
RPD3-5364	Unable to add or remove columns in the Documents portlet table.
RPD3-5335	Import of objects does not store data correctly.
RPD3-5276	Repository clean-up configuration.
RPD3-5300	Media-type objects are created with the imported object's name when importing non-media type objects.
RPD3-5297	Upgrading RICOH ProcessDirector from version 3.9 to 3.10 generates performance problems, actions perform slowly.
RPD3-5295	Ricoh Transform afp2pdf printing error.

### **These issues were resolved in RICOH ProcessDirector 3.11.1**

Issue number	Description
RPD3-4471	AFP viewer barcode scans incorrectly.
RPD3-5200	A single file / application is failing in the IdentifyDocuments step.
RPD3-5184	The value at the top of the header page is null.
RPD3-5197	UAT server errors when assigning jobs to printers if users are in groups lacking edit permission for the Job or Job form.
RPD3-5204	Upgrading RPD from version 3.7 to 3.10.1, slowed down the printing process.
RPD3-5270	Using the PPFR module when printing AFP files results in randomly added blank pages.
RPD3-5287	Upgrading Windows Application server to version 3.11 generates an error.
RPD3-5320	ACIF error on AFP job in EnableRepositioning step.

Issue number	Description
RPD3-5324	System.trace littered with "FINDSTR: Line n is too long." messages.
RPD3-5335	Import of object does not store data correctly.
RPD3-5033	Upgrading RPD from version 3.7 to 3.10.1 causes issues in viewing reprints.
RPD3-5332	Upgrade failed after upgrading RPD from version 3.9.3 to 3.10.1.

### These issues were resolved in RICOH ProcessDirector 3.11

Issue number	Description
RPD3-5117	Problems with display language in GUI.
RPD3-5109	Problems with the Report Collector download permission.
RPD3-5098	JDF errors.
RPD3-4935	Archive permission errors and slow processing for the archive statement view.
RPD3-5097	The job fails to print.
RPD3-5215	PDF2AFP transform produces valid but incomplete AFPs in certain scenarios caused by an error when counting pages of the output AFP.
RPD3-5166	Fixing issues with Cipher objects that can cause RPD GUI login and other functions to fail.
RPD3-5147	Resolved an issue with Job.CycleDate attribute that caused problems with the advanced filter in the jobs portlet.

### Product Documentation

See RICOH ProcessDirector for Linux: Planning and Installing, G550–1042, for pre-installation planning, installation tasks, and post-installation tasks. After it is installed, you can access the RICOH ProcessDirector user interface from a web browser on workstations in your network. The user interface contains field-level help and an information center for RICOH ProcessDirector. The information center contains administrative and operational topics that help users learn about RICOH ProcessDirector. It also includes procedures that describe how to use

the product.

To use the online help:

1. Access the user interface at `http://hostname:15080/pd`. Replace the hostname with the hostname or IP address of the primary computer.
2. To view the information center, click the ? in the top taskbar and select Help.
3. To access field or property help:
  1. Log in to the user interface:
    1. Type the default user name of aiw and the default password of AIW or another user name and password that has been created.
    2. Click Log in. The first time that you log in with a username, you are prompted to change the password.
4. Right-click any object on the Main or Administration page and select Properties to open a property notebook.
5. Click any question mark icon in the property notebook for help about a field or property. In the information center, you can see help about a field or property by typing its name in the Search box.

### **User documentation CD updated**

- The RICOH ProcessDirector for Linux: User Documentation CD, GK4T-4007, has been updated.

### **New and updated publications**

#### **Updated publications**

**In version 3.12.1, these publications were updated:**

RICOH ProcessDirector for Linux: Planning and Installing has been updated in these languages:

- English, G550-1042
- French, G550-20329
- German, G550-20334
- Italian, G550-20339
- Japanese, GA88-4060
- Portuguese, G550-20356
- Spanish, G550-20344

Using RICOH ProcessDirector Plug-in for Adobe Acrobat has been updated in these languages:

- English, G550-20229
- French, G550-20250
- German, G550-20248
- Italian, G550-20251
- Japanese, G550-20252
- Portuguese, G550-20247
- Spanish, G550-20249

RICOH ProcessDirector: Installing Document Processing Features has been updated in these languages:

- English, G550-20312
- French, G550-20317
- German, G550-20318
- Italian, G550-20319
- Japanese, G550-20320
- Portuguese, G550-20358
- Spanish, G550-20321

RICOH ProcessDirector: Integrating with Other Applications has been updated in English, and new translated versions are now available:

- English, S550-1069
- French, S550-1089
- German, S550-1079
- Italian, S550-1099
- Japanese, S550-1119
- Portuguese, S550-1129
- Spanish, S550-1109

### **Customer support**

For problems when installing or using RICOH ProcessDirector, contact Software Support:

- In the United States: <https://support.ricohsoftware.com>
- Outside the United States: open a call through your country's helpline. Level 1 sends it to Level 2 for the Geography. While using the RICOH ProcessDirector user interface, see the online help before contacting Software Support.

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- DB2
- IBM

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others.

## Product Information

### Specifications

- **Product Name:** RICOH ProcessDirector
- **Version:** 3.12.1
- **Operating System:** Linux
- **Primary Database:** PostgreSQL (default), IBM DB2 supported
- **Program Numbers:** 5765-H30 (RICOH ProcessDirector), 5765-H70 (RICOH ProcessDirector Subscription)

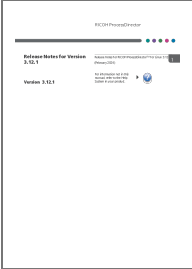
### FAQ

#### Can existing customers continue to use IBM DB2 with Version 3.12.1?

Yes, existing customers can upgrade to Version 3.12.1 and continue using IBM DB2 with no interruptions.

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## Documents / Resources

	<p><a href="#">RICOH 5765-H70 ProcessDirector for Linux Software</a> [pdf] User Guide</p> <p>5765-H70, 5765-H70 ProcessDirector for Linux Software, ProcessDirector for Linux Software, Linux Software, Software</p>
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### References

- [RICOH Software Information Center](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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