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## RICOH ProcessDirector V3.6

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**Dec 20, 2017 Note: This AMD was updated to:**

- Remove Ink Savvy 5-pack licenses and corresponding maintenance items**
- Simplify the Advanced Transform Features**
- Support the RICOH Pro VC6000 and the RICOH Pro VC4000 Printers**
- Update the Bill of Materials**

### Overview

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RICOH ProcessDirector™ is an extensible, configurable output process management system that lets you start small and grow over time. With core capabilities plus optional add-on features, RICOH ProcessDirector allows flexible control of your critical communications output. It can streamline operations, improve process integrity, enhance operator productivity, reduce errors, and help lower costs. RICOH ProcessDirector is also the backbone software of Ricoh Automated Document Factory solutions: Mailroom Integrity, Postal Optimization and Output Management.

This release of RICOH ProcessDirector brings new features that expand its capabilities to integrate with key applications in both your company and companies with whom you do business.

Version 3.5 introduced a modernized user interface to do the most common Administration tasks. In version 3.6, the most common operator tasks are added to the Main page of the user interface, enabling customers to shift to only using the new user interface. The Main page also has new content to help both operator and administrator users get device and job status at a glance. Administrators will also appreciate the addition of a System health portlet with gauges showing the memory and CPU usage, providing an early warning of system capacity issues.

A new Preprinted Forms Replacement feature brings the ability to modify and eventually replace workflows that depend on inventories of preprinted forms and transition to efficient white paper manufacturing. By defining PDF files to add the content that was printed on the preprinted forms to the data contained in the print file, jobs can print on plain paper without any change to the way operators work with media today. Both AFP and PDF print files can take advantage of this powerful capability.

Support for Ricoh PDF printers is now available natively on Linux operating systems SLES12.0 and Red Hat 7.1. A Windows application server is no longer the only way to get the print progress and error reporting provided by this printer connection when the primary server is installed on one of those operating systems.

In response to feedback from our users, we have also enhanced workflow processing in several ways, strengthened our PDF document processing capabilities and performance, and added new functions to several features.

### Final Release

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**Final Release Date is October 27, 2017.**

## **Highlights**

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V3.6 of RICOH ProcessDirector contains a variety of enhancements to both the base product and its features.

### **Highlights in the base:**

- Enhanced PDF processing, including steps to decrypt and encrypt PDF and additional functions in the EnhancePDF step template. A more powerful PDF processing engine delivers better performance in the document processing steps in your workflow.
- New steps to zip files and to validate the structure of XML and JSON files
- The ability to define a branch in a workflow to take when a job goes into error. Rather than just stopping at the step that had the error, you can define additional processing steps as needed. For example, if you frequently experience errors when processing PDF jobs, you can add a branch in the workflow to run the EnhancePDF step with the CheckPDF action if the job goes into error to get more information about the PDF file.
- The ability to collect ink usage information for jobs printed on the Ricoh Pro VC40000 and Ricoh Pro VC60000 printers

### **Highlights in the features:**

#### **The PDF Document Support and AFP Support features:**

- These features now provide a manual method to reconcile documents within a job – without the need for the Automated Verification or Inserter features.
- A new step template in these features allows you to create a file in many standard formats (such as CSV, XML, JSON) from the document properties file so that you can extract document information to share with other programs

#### **The Archive feature:**

New step templates that allow you to:

- Automate searching a repository for selected documents and jobs to be submitted as new jobs
- Remove entries from a repository as part of a workflow
- Search a repository and create one or more jobs based on the result

**The Reports feature:**

- A new data collector has been added to the Reports feature that allows you to store selected job and printer properties. Your data is stored in a SQL database and can be exported and viewed by external programs.

**The Advanced Transform feature:**

- The Advanced Transform feature has both added the ability to capture media information when transforming to PDF and improved performance.

**The Avanti Slingshot Connect feature:**

- Jobs that originate in Ricoh ProcessDirector can now be submitted to Avanti Slingshot for tracking for cost purposes
- Jobs coming into Ricoh ProcessDirector from Avanti Slingshot can now contain a reference to a PDF file for printing in addition to the previous support to send the PDF file in the job itself

**Packaging of two features has changed:**

- The Preference Management feature is now a no-charge feature that is included in the base product. It requires PDF Document Support or AFP Support to use it.
- The Electronic Presentment feature provides web services that you can use to search repositories created by the Archive feature. The Electronic Presentment feature is now a no-charge feature that is included with the Archive feature.

The new optional features are shown in the table below.

Item Number	Description
5639-S19-0183	RPD PREPRINTED FORMS REPLACEMENT FEATURE 1 YR REG

A complete list of all item numbers is in the attached file.



RPD\_3.6\_Parts\_Structure\_Update\_12-07-

Updates to the Product Structure includes removing the Ink Savvy 5-pack licenses and corresponding maintenance features, and simplifying the Advanced Transform Features.

## Description

Ricoh announces the release of RICOH ProcessDirector V3.6 for AIX, Linux, and Windows.

New functions and updates in Version 3.6.0 include:

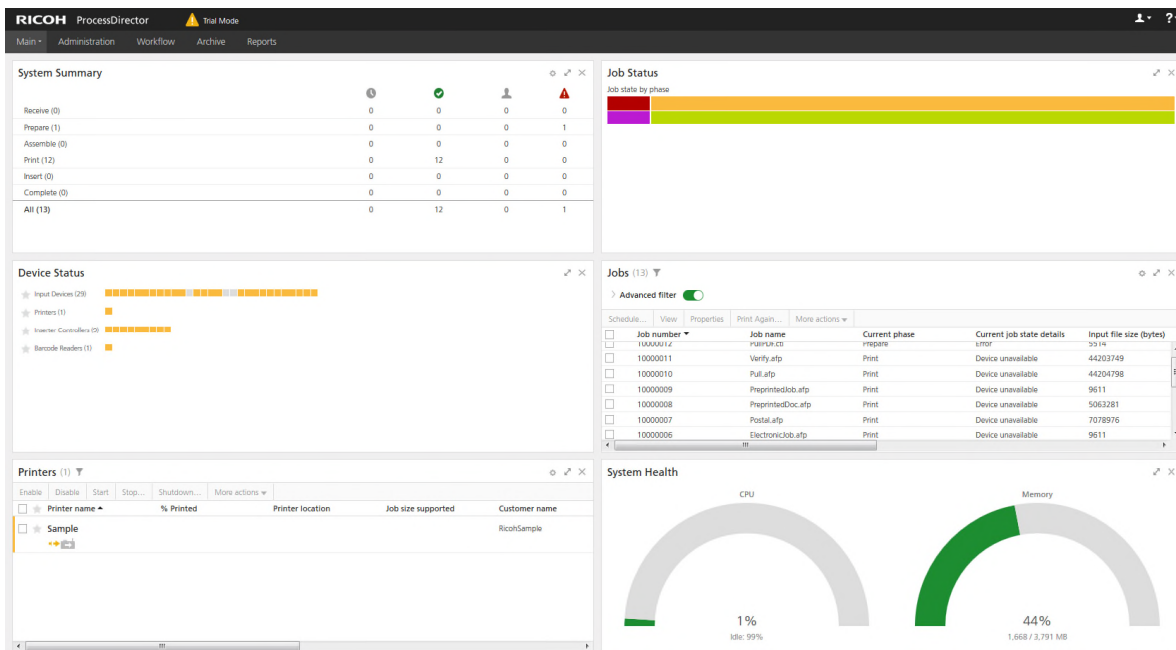
### The next step in the journey to a new user interface

Version 3.5.0 introduced a modernized user interface to do the most common Administration tasks. In this release, the most common Operator tasks are added to the Main page of the user interface.

The Main page also includes new portlets that show system health, job status, and device status in graphical ways by using colors and graphics. Users can tell at a glance the overall status of their system and easily drill down for more detail as desired.

The legacy user interface is still available. A link on the legacy user interface launches the updated user interface in another browser window, so you can use them side by side.

The Main page of the new user interface is shown below:



### Preprinted Forms Replacement feature

The Preprinted Forms Replacement feature lets you print jobs on plain paper that previously required preprinted forms, a process often referred to as White Paper Manufacturing. You update the definition of ProcessDirector's media objects to include the electronic equivalent of the preprinted forms. The application that submits the print files to Ricoh ProcessDirector can continue to specify the media for the jobs in the same way.

For each of your preprinted forms, you associate a PDF page representing the electronic equivalent of the preprinted form with each side of a media object. The incoming job requests the media for the job or for selected pages in the job by name. A step in the workflow combines the PDF page data with the job data to create a print file that you can print on plain paper.

By sending jobs through different branches, you can use electronic forms to reduce or eliminate your inventory of preprinted forms at your own pace. For example, you can select the preprinted form that you are about to reorder or the most expensive preprinted form to move to electronic forms first.

The Preprinted Forms Replacement feature requires the PDF Document Support feature. If you install the AFP Support feature, the Preprinted Forms Replacement feature also lets you insert PDF forms into AFP jobs.

Benefits to adopting a White Paper Manufacturing strategy with the Preprinted Forms Replacement feature are:

- **Cut Sheet to Continuous Forms Migration** - After the need to load forms has been eliminated, work that once required cut sheet equipment can now be migrated to speedier, higher quality, and more efficient continuous forms printers. Conditional workflows allow for easy transition from preprinted shells to inline full color printing.
- **Job consolidation** - Consolidating jobs and documents into large print runs is a great way to increase cost savings. Freed from the need to load different forms for different jobs, a data-driven process consolidates print streams from multiple jobs into a single print run. This opens the door for maximizing postal discounts from commingling and presorting which is typically the area of greatest production cost savings.
- **Reduced Procurement** - The time and effort needed to procure and store forms required for specific print runs is expensive especially when the exact quantity required is unknown. Procurement policies favor erring on the side of caution virtually ensuring future material waste.
- **Inventory Expenses** - The practice of keeping “overs” to ensure adequate inventory levels results in tremendous paper waste each year. Another big problem is when document revisions inevitably occur and the old forms become obsolete.
- **Labor Savings** - Finding ways to reduce labor costs in a print and mail operation can breathe new life into a business. White paper manufacturing eliminates the operator time to retrieve, load, refill and restock preprinted forms each time a new job is initiated.
- **Reduced Operator Errors Loading Forms** - Paper handling is labor intensive and expensive, even if no mistakes are made. Starting with clean, white paper vastly reduces the chance of human error, improving cost savings.

## **Enhancements in the base product**

### **New step templates**

- The CheckFileStructure step template checks the syntax of a JSON or XML file. If the structure is not valid, the job goes into the error state.
- The DecryptPDF step template decrypts and removes password protection for a PDF file. Some clients prefer to transfer files encrypted. For a workflow in which all jobs have the same password, the password can be specified in the DecryptPDF step making the process secure and automated. For clients who are concerned about transferring files with sensitive data, a workflow incorporating DecryptPDF provides protection against data security breaches.
- The EncryptPDF step template encrypts and password-protects a PDF file. If it ever becomes necessary to send part or all of a sensitive file to a client, you can add a step to the workflow with the EncryptPDF step. If customer requirements specify encrypting files prior to transferring them, this step can provide a secure and automated way to protect against data security breaches.
- The ZIPFiles step template creates a ZIP file from a comma-separated list of files. This step is useful when you want to exchange information about jobs in Ricoh ProcessDirector with other programs that take ZIP files as input.

### **Support for enhanced workflow processing**

- You can now define a branch in a workflow to be taken when an error occurs in a step. By defining a rule on the branch to test for the job changing to Error state, another step or set of steps can be run providing information about the error to other programs or people.
- The Process Again action, which supported the ability to restart multiple jobs using the same workflow, now allows you to restart multiple jobs each in their own workflow. Requested by customers, this capability saves operator time when jobs need to be restarted.
- In previous releases, the RunHotFolderApplication step deleted the contents of its retrieval folder when processing began in the step. Now, you can configure whether the step template keeps or deletes the contents of the retrieval folder at the beginning of the step. This capability is useful if the application you are interfacing with might provide the desired file before the job arrives at the step.

### **Enhancements to Document Processing features**

- The Automated Verification and Inserter features support equipment that can scan barcodes to track documents through mechanical steps such as insertion or sealing. With those features, damaged documents can be reconciled to help ensure that every document in a job has been processed. In cases where an operator interfaces with the system to determine the disposition of documents, this process is called manual reconciliation. Support for the manual

reconciliation process is now included with the PDF Document Support and AFP Support features.

- The BuildFileFromProperties step creates an output file that contains the values of properties that you specify. The file can be in any format, including XML, JSON, and CSV.
- Ricoh ProcessDirector Plug-in for Adobe Acrobat now includes an improved PDF processing library. For most PDF files, the new library improves performance, reduces processing time, and uses less memory. When you open a control file created in a previous release, you can update it to use the improved PDF processing library.
- The BuildAFPFromDocuments step now supports defining Royal Mail Mailmark barcode types in AFP documents. Ricoh ProcessDirector Plug-in for Adobe Acrobat now supports adding the Royal Mail Mailmark barcode type to PDFs.

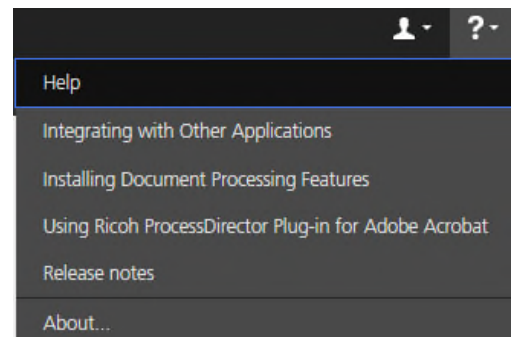
### **Ink Data in the VC60000 and VC40000**

Ricoh ProcessDirector is now able to collect the amount and type of ink used by a job after it has printed on Ricoh Pro VC60000 and Ricoh Pro VC40000 printers. When each job completes on the printer, ink usage for each of the colors of ink are reported as job properties. If reprints occur for the same job, the ink usage associated with those reprints is added to the original number and stored in cumulative usage counters for each color of ink.

### **Easier Access to Published Documentation**

Frequently referenced ProcessDirector documents are now easily accessed from the Help dropdown menu in the updated user interface. These include:

- Integrating with Other Applications
- Installing Document Processing Features
- Using Ricoh ProcessDirector Plug-in for Adobe Acrobat
- Release Notes, which contains a summary of what is new in this release



### **Support for new printers**

Ricoh ProcessDirector now supports these RICOH printers:

RICOH Pro VC40000  
RICOH Pro 5200S  
RICOH Pro 5210S  
RICOH Pro 8200S  
RICOH Pro 8210

RICOH Pro 8210S  
RICOH Pro 8220  
RICOH Pro 8220S

### **Enhancement to the Reports feature**

The Reports feature has been enhanced to provide a more accessible form of historical data about the jobs that Ricoh ProcessDirector processed. A configuration file allows you to specify which job and printer properties you want to record in a separate SQL database. You can connect the business analytics tool of your choice to the database to create your own data visualizations of properties that are meaningful to you.

### **Enhancements to the Archive feature**

- Three step templates are added to the Archive feature to make it easier for a workflow to search the archive and submit search results to a workflow. For example, you can reprint an archived document or replace one version of an archived file with another one. Archived metadata can also be retrieved and sent to a workflow to share status information with other programs.
  - The CreateJobsFromRepositorySearch step template searches a repository and creates one or more jobs based on the data retrieved. The step processes these searches based on the criteria specified in a file or a string. When the step completes, new jobs are created using the selected workflow with the data retrieved from the search.
  - The PrepareJobFromRepositorySearch step template creates a job from the output of a step based on the CreateJobsFromRepositorySearch step template.
  - The RemoveDataFromRepository step template searches a repository and removes the data that matches one or more search criteria from the repository. When the search completes, the data returned in the search results is removed from the repository.
- This collection of steps allows you to retrieve an archived document to reprint as a step in a workflow or to replace one version of an archived file with another one. Archived metadata can also be retrieved and sent to a workflow to share status information with other programs. Another example is ordering books whose print files are stored in repositories. Individual chapters could be updated in the repository to help ensure the latest version is always produced when an order is received.

### **Packaging changes in Ricoh ProcessDirector**

The Preference Management feature is now a no-charge feature that is included in the base product but is not installed by default. The Preference Management feature allows you to process a preferences file in a workflow so you can set values for document properties without changing the application that generates the file that currently prints all the customer documents. An example of this is to set the delivery method for each customer's communication (such as email, print, or suppress) based on the preferences file. You must have the AFP Support or PDF Document Support feature installed to use the Preference Management feature.



The Electronic Presentment feature is now a no-charge feature that is included in the base product but is not installed by default. The feature provides web services that you can use to search repositories created by the Archive feature and retrieve jobs or documents to view or resubmit. You can use the web services to create your own interface to the data stored in those repositories. You must have the Archive feature installed to use these web services.

### **Enhancements to the Avanti Slingshot Connect feature**

- The updated Avanti Slingshot Connect feature lets Ricoh ProcessDirector submit orders to Avanti Slingshot from a workflow. A new step template, CreateOrderInSlingshot, sends the order information that Avanti Slingshot requires to track work. As the Ricoh ProcessDirector job progresses in its workflow, status updates can be sent to Avanti Slingshot in the same way that they were for jobs that originated in Avanti Slingshot and came into Ricoh ProcessDirector.
- Ricoh ProcessDirector can now receive files that Avanti Slingshot submits using a link in the JDF job ticket. On previous releases, Ricoh ProcessDirector could receive files only when Slingshot included them in the MIME package.
- When receiving jobs from Avanti Slingshot, Ricoh ProcessDirector checks whether the MIME package includes PDF files. If the package does not include any PDF files, Ricoh ProcessDirector checks the JDF job ticket for a link to the files.
- A new Job color to report property for printers reports to Avanti Slingshot that all pages in a job were printed in full color or only in monochrome. This property is useful when different costs are defined in Avanti Slingshot for jobs printed with color.

### **Enhancement to Advanced Transform feature**

An enhancement to the Advanced Transform feature applies to all inputs and outputs. It increases the number of processors that can run the TransformWithAdvancedFeature step simultaneously from 1 to 2. A second enhancement applies only to the combinations of AFP and PostScript input with PDF output. When the advanced transform creates PDF from AFP or PostScript input containing media page-level exceptions to media, the exceptions are now included in the JDF output of the step.

**Additional Input/Output processor features can be ordered. These processor features add the ability to have additional transforms run simultaneously across all data streams.**

### **Ricoh PDF printer support extended to Linux operating systems**

Support for Ricoh PDF printers and custom PDF printers is now available natively on Linux operating systems SLES12.0 and Red Hat 7.1. Those printers can now be defined on either a primary sever (Linux), a secondary server (Linux), or an application server (Windows). A Windows application server is no longer the only way to get print progress and error reporting provided by the Ricoh PDF Printer feature when the primary server is installed on one of those Linux operating systems.

## **Enhancements to Installation and Migration**

### **Updated support for IBM DB2**

Previously, if you ran the Ricoh ProcessDirector installation program on a server where Ricoh ProcessDirector was already installed, the DB2 component of the application was not updated. Now, the installation program has been updated to include the DB2 component. You can choose to upgrade DB2 to version 11.1 before, after, or while you are installing Ricoh ProcessDirector.

### **New prerequisite checker for Ricoh ProcessDirector**

The Ricoh ProcessDirector installer now includes an option that lets you run the prerequisite checker separately from the installation process. This way you can be confident that you are prepared to proceed with the installation. If prerequisites are missing, you can address them before starting the Ricoh ProcessDirector installation process.

## **Language support**

This version of RICOH ProcessDirector (V3.6) is available in English. New functions appear in English only; functions present in V3.5.1 and below are translated in French, Italian, German, Spanish, Japanese and Brazilian Portuguese if you install the Language Pack feature provided with the product.

No translations are provided for the Ricoh Transform features.

Later, this version of RICOH ProcessDirector (V3.6) and the Ricoh Transform features will be translated into French, Italian, German, Spanish, Japanese, and Brazilian Portuguese.

## **Customer Responsibilities**

The customer is responsible for installing, configuring, maintaining, and using the RICOH ProcessDirector according to documented procedures, and for using the product in accordance with the Ricoh Software License Agreement (RSLA).

## **Software Requirements**

RICOH ProcessDirector V3.6 primary server can be installed on a server running one of the following:

- AIX® Version 7.2, TL1
- AIX® Version 7.1, TL4 SP2
- Windows Server 2016
- Windows Server 2012 R2
- Red Hat Enterprise Linux® (RHEL) 6.7 or above
- Red Hat Enterprise Linux® (RHEL) 7.1 or above
- SUSE Linux Enterprise Server (SLES) 12 SP1 or above
- SUSE Linux Enterprise Server (SLES) 11 SP3 or above

Note: In all cases, primary server OS software is 64 bit

RICOH ProcessDirector uses a web browser to access and display the user interface. You can access the interface from the system where the primary server is installed, or from any system running a supported web browser. The supported browser versions for accessing RICOH ProcessDirector on a client system are as follows:

- Microsoft Internet Explorer 11 and Edge
- Mozilla Firefox, Latest Service Level
- Google Chrome, Latest Service Level

RICOH ProcessDirector has a web-based viewer that displays AFP or PDF files to assist you in selecting pages for reprinting.

RICOH ProcessDirector can receive jobs for processing from the Job Entry Subsystem (JES) spool on an IBM z/OS host using either the Download for z/OS or AFP Download Plus optional feature of IBM Print Services Facility for z/OS V4.3 (5655-M32). The AFP Support feature of RICOH ProcessDirector is required to receive jobs from these z/OS programs.

## **Hardware Requirements for RICOH ProcessDirector V3.6**

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A minimum configuration for RICOH ProcessDirector V3.6 is a server with:

- AIX—One or more 1.9 GHz or faster RISC processors
- Linux—One or more 2.8 GHz or faster standard Intel® processor-compatible hardware
- Windows®—One or more 3.1 GHz or faster standard Intel processor-compatible hardware
- 4 GB or more RAM – some features require additional memory.
  - 12 GB RAM required for Automated Verification, Postal Enablement, Archive, PDF Mailroom Integrity, Preference Management, Electronic Presentment, Inserter or Manufacturing Optimization features.
  - 6-8 GB RAM required for Ricoh Transform features (see table below).
- Display with minimum resolution of 1280x800.
- Connectivity to the LAN.

The following table contains the minimum hardware requirements for the RICOH ProcessDirector Transforms.

<b>RICOH ProcessDirector for AIX</b>	
Transform Features	An additional 512 MB RAM for every two CPU cores, but no less than 2 GB. For example, if the computer has: - One dual-core processor, it must have an additional 2 GB RAM. - Two quad-core processors, it must have an additional 2 GB RAM.

	<ul style="list-style-type: none"> <li>- Three quad-core processors, it must have an additional 3 GB RAM.</li> <li>- Four quad-core processors, it must have an additional 4 GB RAM.</li> <li>- Transform features require an additional 4 GB of free hard drive space in addition to the space required for RICOH ProcessDirector. 4GB is required regardless of the number of Transform Features installed. Advanced Transform Features require additional HDD space.</li> </ul>
Advanced Transform Feature	<ul style="list-style-type: none"> <li>- Supports up to 2 core processors which is the maximum that may be utilized simultaneously.</li> <li>- Additional memory may be required for large or complex files</li> <li>- Minimum 3 GB additional free hard-drive space on the same drive that RICOH ProcessDirector is installed on</li> </ul>
<b>RICOH ProcessDirector for Linux</b>	
Transform Features	<ul style="list-style-type: none"> <li>- An additional 512 MB RAM for every two CPU cores, but no less than 2 GB.</li> <li>For example, if the computer has:               <ul style="list-style-type: none"> <li>- One dual-core processor, it must have an additional 2 GB RAM.</li> <li>- Two quad-core processors, it must have an additional 2 GB RAM.</li> <li>- Three quad-core processors, it must have an additional 3 GB RAM.</li> <li>- Four quad-core processors, it must have an additional 4 GB RAM.</li> </ul> </li> <li>- Transform features require an additional 4 GB of free hard drive space in addition to the space required for RICOH ProcessDirector. 4GB is required regardless of the number of Transform Features installed.</li> </ul>
Advanced Transform Feature	<ul style="list-style-type: none"> <li>- Supports up to 2 core processors which is the maximum that may be utilized simultaneously.</li> <li>- Additional memory may be required for large or complex files - Minimum 3 GB additional free hard-drive space on the same drive that RICOH ProcessDirector is installed on.</li> </ul>
<b>RICOH ProcessDirector for Windows</b>	
Transform Features	<ul style="list-style-type: none"> <li>- An additional 512 MB RAM for every CPU core, but no less than 2 GB.</li> <li>For example, if the computer has:               <ul style="list-style-type: none"> <li>- One dual-core processor, it must have an additional 2 GB RAM.</li> <li>- Two quad-core processors, it must have an additional 4 GB RAM.</li> <li>- Three quad-core processors, it must have an additional 6 GB RAM.</li> <li>- Four quad-core processors, it must have an additional 8 GB RAM.</li> </ul> </li> <li>- Transform features require an additional 4 GB of free hard drive space in addition to the space required for</li> </ul>

	RICOH ProcessDirector. 4GB is required regardless of the number of Transform Features installed. Advanced Transform Features require additional HDD space.
Advanced Transform Feature	<ul style="list-style-type: none"> <li>- Supports up to 2 core processors which is the maximum that may be utilized simultaneously.</li> <li>- Additional memory may be required for large or complex files</li> <li>- Minimum 3 GB additional free hard-drive space on the same drive that RICOH ProcessDirector is installed on.</li> </ul>

## Supported PDF Printers

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The models of Ricoh PDF printers that are supported in this version of RICOH ProcessDirector are shown in the following list.

RICOH ProcessDirector has several ways of sending jobs to printers capable of printing PDF files. The most general way is to define the printer as a Passthrough printer and specify a command that is appropriate for your printer.

The InfoPrint 5000 printer, for example, can accept PDF jobs in a hot folder on the printer that is accessible to the server or it can accept jobs using the LPR protocol.

**The Ricoh PRO VC60000, VC40000, and other Ricoh printers with the TotalFlow Print Server accept a PDF job with a JDF job ticket as a MIME package.**

Printers defined to RICOH ProcessDirector as Ricoh PDF printers are sent PostScript generated from an input PDF job or can be sent a combination of JDF and PDF if the control unit supports it.

### **The following models of Ricoh printers are supported as Ricoh PDF printers in this version of RICOH ProcessDirector: (newly added RICOH printers in Bold)**

- Aficio MP 1100
- Aficio MP 1350
- Aficio MP 9000
- Aficio MP C6000
- Aficio MP C6501
- Aficio MP C7500
- Aficio MP C7501
- Aficio SP 9100DN
- Linoprint C7100
- Linoprint C7100S
- Linoprint C7100SX
- Linoprint C7100X
- Linoprint C7110
- Linoprint C7110S
- Linoprint C7110SX
- RICOH Pro 1107
- RICOH Pro 1107EX
- RICOH Pro 1107M
- RICOH Pro 1356EX
- RICOH Pro 1357
- RICOH Pro 1357EX
- RICOH Pro 1357M
- RICOH Pro 5200S
- RICOH Pro 5210S
- RICOH Pro 6100
- RICOH Pro 6100HT
- RICOH Pro 8100S
- RICOH Pro 8100Se
- RICOH Pro 1106EX
- RICOH Pro 8110e
- RICOH Pro 907EX
- RICOH Pro C5100S
- RICOH Pro C5110S
- RICOH Pro C550EX
- RICOH Pro C651EX
- RICOH Pro C700EX
- RICOH Pro C7100
- RICOH Pro C7100S
- RICOH Pro C7100SX
- RICOH Pro C7100X
- RICOH Pro C7110
- RICOH Pro C7110S
- RICOH Pro C7110SX
- RICOH Pro C7110X
- RICOH Pro C720

- Linoprint C7110X
- Linoprint C9100
- Linoprint C9110
- RICOH imagio MP 1100
- RICOH imagio MP 1350
- RICOH imagio MP 9000
- RICOH imagio MP C6000
- RICOH imagio MP C6001
- RICOH imagio MP C7500
- RICOH imagio MP C7501
- RICOH Pro 8110
- RICOH IPSiO 9100Pro
- RICOH Pro 8110S
- RICOH Pro 8110Se
- RICOH Pro 8120
- RICOH Pro 8120e
- RICOH Pro 8120S
- RICOH Pro 8120Se
- **RICOH Pro 8200S**
- **RICOH Pro 8210**
- **RICOH Pro 8210S**
- **RICOH Pro 8220**
- **RICOH Pro 8220S**
- RICOH Pro 906EX
- RICOH Pro C720S
- RICOH Pro C751
- RICOH Pro C751EX
- RICOH Pro C900
- RICOH Pro C900S
- RICOH Pro C901
- RICOH Pro C901S
- RICOH Pro C9100
- RICOH Pro C9110

**Supported Kodak PDF printers include these models:**

- Digimaster EX110
- Digimaster EX125
- Digimaster EX138
- Digimaster EX150
- Digimaster EX300
- Digimaster EX300

**Supported Xerox PDF printers include these models with the DocuSP® Controller:**

- DocuTech 6100
- DocuTech 6115
- DocuTech 6135
- DocuTech 6155
- DocuTech 6180
- DocuTech 75
- DocuTech 90
- DocuTech 350
- DocuTech 425
- DocuTech 500
- DocuTech 700
- DocuTech 850
- DocuTech 1000
- DocuTech 128HLC
- DocuTech 155HLC
- DocuTech 180HLC
- DocuPrint 100EPS
- DocuPrint 115EPS
- DocuPrint 135 EPS
- DocuPrint 155EPS
- DocuPrint 180EPS
- DocColor 250
- DocColor 2045
- DocColor 2060
- DocColor 6060
- DocColor 7000
- DocColor 8000
- iGen3
- Nuvera 100DCP
- Nuvera 120DCP
- Nuvera 100DPS
- Nuvera 120DPS
- XDP 4110
- XDP 4590

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## **Hardware and Software Requirements for RICOH ProcessDirector V3.6 optional Features**

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The RICOH ProcessDirector Plug-in for Adobe Acrobat is provided as part of the PDF Document Support feature. It can be installed on a workstation, and requires one of the following:

- Windows 8
- Windows 10
- Windows Server 2012 R2
- Windows Server 2016

In addition, the following are required for the PDF Plug-in.

- Adobe Acrobat X (Version 10.1.1 or higher) , XI Professional or DC
- Java 8 2GB RAM dedicated to the application

### **RICOH ProcessDirector's Ink Savvy Tool**

The Ink Savvy Tool requires one of the following:

- Windows Server 2008
- Windows 7

In addition, the following is required:

- System requirements: Intel® Core™ 2 or similar, 2.4 GHz, 2 x 4 MB Level 2 (L2) cache, 2 GB RAM, 750 GB - 10.000 U/min hard disk drive with at least 5 GB free disk space
- Hardware components: Video card (DVI, supporting DirectX 9c), enabled Direct 3D acceleration, updated driver (not Windows default driver), for example, NVIDIA® GeForce 8600 GT; minimum screen resolution 1024 x 768 PX, 32 bit color depth
- Microsoft Internet Explorer 6.0 or higher, Direct X 9c or higher

The server must use the NTFS file system (FAT32 is not supported) with Ink Savvy.

### **PitStop Connect**

For RICOH ProcessDirector for AIX or Linux, Pitstop Connect requires Enfocus PitStop Server 10 or higher on an application server that is configured to work with the primary server.

### **Impostrip Connect**

For RICOH ProcessDirector for AIX or Linux, Impostrip Connect requires Ultimate Impostrip OnDemand Digital Automation 7 or higher on an application server that is configured to work with the primary server.

### **Avanti Slingshot Connect**

The Avanti Slingshot Connect feature requires Avanti Slingshot Version 6.2014 or higher.

### **RICOH Transform features**

The transform features require WorldType Fonts version 8.13 for sap2afp files to transform correctly when IS/3 support is enabled.

### **RICOH ProcessDirector's Ink Estimation**

For RICOH ProcessDirector for AIX or Linux, the Ink Estimation feature includes a step template that must be tuned to run on an Application server that meets these requirements:

Operating system requirements (for the ink estimation feature):

- Windows 7 (configured as an RICOH ProcessDirector Application server)
- Windows Server 2008 (Running on the RICOH ProcessDirector primary server)
- Adobe Acrobat X Hardware requirements and software requirements (for the ink estimation feature):
- A minimum of two, 2.0 GHz CPU cores
- At least 1 GB RAM for each CPU core
- Enough free disk space to hold the TIFF images created by the EstimateInk step. The amount of space needed varies greatly, depending on the size and number of pages that are estimated at the same time.
- Adobe Acrobat X Pro
- Microsoft.Net framework 3.5.1 or later

### **RICOH ProcessDirector Secondary Server Feature**

The RICOH ProcessDirector Secondary Server Feature can be installed on a system running one of these operating systems:

- AIX Version 7.1, Technology Level 1 SP6 or above, 64 bit
- AIX® Version 7.2, TL1
- AIX® Version 7.1, TL4 SP2
- Red Hat Enterprise Linux® (RHEL) 6.7 through latest 6.X release, 64-bit
- Red Hat Enterprise Linux® (RHEL) 7.1 through latest 7.X release, 64-bit
- SUSE Linux Enterprise Server (SLES) 11 for x86 with SP3 or above, 64-bit
- SUSE Linux Enterprise Server (SLES) 12 with SP1 or above, 64-bit
- The Secondary Server feature is not available on RICOH ProcessDirector for Windows.

### **Terms and Conditions**

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RICOH ProcessDirector is offered by Ricoh USA, Inc. in the United States and by one or more of its affiliates in selected countries outside of the United States, collectively (“Ricoh”).

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with Ricoh are contained in the applicable contract



documents, such as, but not limited to, the Ricoh Software License Agreement (RSLA) and the Ricoh Software Maintenance Agreement for Production Printing Software.

### **Licensing:**

The RSLA governs your use of the program. Your invoice serves as your License Confirmation as defined in the RSLA. These programs have a One-time-charge (OTC) for use of the program, and an annual (or multi-year if available) renewable charge for ongoing support, which includes telephone assistance, as well as access to updates and new releases of the program as long as you have a current software maintenance agreement in effect.

### **Maintenance Service Offerings**

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Ricoh includes one year of software maintenance with the initial license acquisition of each program acquired under the terms of Ricoh Software Maintenance Agreement for Production Printing Software, which does not require customer signatures.

While covered under the terms of the software maintenance agreement, Ricoh provides you assistance for your routine, short-duration installation, and usage (how to) questions, as well as code defect support and access to Product Updates, releases, and versions of the program.

Ricoh provides assistance via telephone and, if available, electronic access, only to your Information Systems (IS) technical support personnel during normal business hours (published prime shift hours) of your Ricoh support center. This assistance is not available to your end users. Ricoh provides Severity 1 assistance 24 hours a day, every day of the year.

Software maintenance does not include assistance for the design and development of applications, program modifications, print data-streams, your use of programs in other than their specified supported operating environment, or failures caused by products for which Ricoh is not responsible under this agreement.

### **Limited Warranty**

RICOH ProcessDirector is warranted as stated in the Ricoh Software License Agreement.

### **RICOH ProcessDirector Ordering Information**

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RICOH ProcessDirector is composed of a base license, printer attachment features, and optional features.

- Open the Configurator model for RICOH ProcessDirector (#5765-H30)
- Choose among the Windows (5765-H30-0001W) or Linux (5765-H30-0002L) or the AIX (5765-H30-003A) option
- Choose optional features – one optional feature is required for each base license (5765-H30) that will install the optional feature. The optional features are listed in the “Item Numbers” section of this document.
- Specify the desired maintenance item (1, 2, 3, 4 or 5 years) –

- Specify the correct number and type of printer attachment features. Effective October 27, 2017, there are changes to the Printer Attachment Features. The revised printer speeds for each of the printer attachment categories is described below:
  - (Office Focused) Workgroup Printers (Now 80 impressions per minute (ipm) and below; Previously this group was 62 impression per minute
    - Added Group of 10 printers at 80 impressions per minute and below
  - (Cutsheet Focused) Low Speed Printers (Now 80-150 impressions per minute; previously 63-110 ipm). The new printer groups for low-speed are:
    - Single Device at 81-150 impressions per minute
    - Added Group of 5 printers at 81-150 impressions per minute
    - Added Group of 10 printers at 81-150 impressions per minute
    - Added Group of 25 printers at 81-150 impressions per minute
  - (Cutsheet Focused) Medium Speed Printers (Now 151-400) impressions per minute; previously this group was 111-300 impressions per minute)
    - No new groups are being added
  - High Speed Printers are now defined as 401-1,999 impressions per minute; Previously this group was 301-1,499 impressions per minute)
    - No new groups are being added
  - Ultra High Speed is now defined as 2,000 impressions per minute or above. Previously this group was for printers greater than 1,499 impressions per minute.
    - No new groups are being added

### Printer Attachment Requirements

- General Attachment Requirements
  - The following general requirements explain the requirement for acquisition of printer attachment features.
  - Unless an attachment is not required by either the General Exceptions or the Product Specific Attachment Exceptions set forth below, a printer attachment feature is required for each physical printer that receives print data. When the same physical printer receives data from multiple Ricoh print servers (InfoPrint Manager and RICOH ProcessDirector), only one printer attachment is required. A “physical printer” may be a printer or a controller and printer combination.
- General Exceptions
  - A printer attachment feature is not required when output is sent to another printer server or application and not to a physical printer.
  - Physical printers that are used only for test, development and cold backup do not require printer attachments.
  - Physical printers that are used solely to add MICR or color to a page previously printed by another physical printer do not require a printer attachment. For example, an InfoPrint 5000 XR3 would not require an attachment but other physical printers with integrated MICR or color capability will require a printer attachment feature.
- Definitions

- Impressions per minute (IPM) for letter (8.5 x 11 inches) or A4 (210x297 mm) that is standard for your location. An Impression is defined as a printed side. A page with one side printed equals 1 impression and a page printed on both sides equals 2 impressions.
- Cutsheet printers use 1-UP printing speed. Print speed is determined by the highest rated A4/Letter impressions per minute specified for cutsheet printers.
- Continuous Forms printers use 2UP printing speeds per engine or the maximum A4/letter IPM per paper width allowed. Use the highest rated images-per-minute throughput per engine to determine the print attachment for continuous forms printers. Duplex continuous form printers that have two print engines need two printer attachments.

The Printer Attachment Items are shown in the following table.

ITEM	RPD PRINTER ATTACHMENT OPTIONS	Printer Speeds for Printer Attachment Features
5765-H30-0047	RPD GRP OF 10 WORKGRP PRNTR ATTACH	Group of 10 printers 80 impressions per minute and below
5765-H30-0041	RPD GRP OF 25 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5765-H30-0042	RPD GRP OF 50 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5765-H30-0043	RPD GRP OF 100 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5765-H30-0044	RPD GRP OF 200 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5765-H30-0048	RPD GRP OF 500 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5765-H30-0049	RPD GRP OF 1000 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5765-H30-0037	RPD LOW-SPEED SINGLE PRNTR ATTACH	Single Device defined as 81-150 impressions per minute
5765-H30-0036	RPD LOW-SPEED GRP OF 5 PRNTR ATTACH	Group of 5 printers as 81-150 impressions per minute
5765-H30-0045	RPD LOW-SPEED GRP OF 10 PRNTR ATTACH	Group of 10 printers as 81-150 impressions per minute
5765-H30-0046	RPD LOW-SPEED GRP OF 25 PRNTR ATTACH	Group of 25 printers as 81-150 impressions per minute
5765-H30-0038	RPD MED-SPEED PRINT ENGINE ATTACH	Single Device defined as 151 - 400 impressions per minute
5765-H30-0039	RPD HIGH-SPEED PRINT ENGINE ATTACH	Single High Speed defined as 401-1,999 impressions per minute

5765-H30-0040	RPD ULTRA HIGH-SPEED PRINT ENGINE ATTACH	Single Ultra High Speed defined as 2,000 impressions per minute or above
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## Ink Savvy Ordering

Ink Savvy is priced per print system (one duplex configuration = one system), and is designed to work exclusively with the InfoPrint 5000 (all models).

The Configurator automatically selects the maintenance items and supply features based upon the specified Optional Features, Upgrade Features, and Printer Attachments.

## Publications

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All publications are downloadable from the Ricoh Information Center

<http://info.rpp.ricoh-usa.com/help/index.jsp>

The RICOH ProcessDirector for AIX Publications CD, GK4T-4011, contains the following publications:

- RICOH ProcessDirector for AIX: Planning and Installing, G550-1045
- RICOH ProcessDirector: Integrating with Other Applications, S550-1069
- RICOH ProcessDirector: Installing Document Processing Features, G550-20312
- RICOH ProcessDirector: Using RICOH ProcessDirector Plugin for Adobe Acrobat, G550-20229
- RICOH Font Summary, G550-20001
- Whitepaper: Using the Enhance AFP Function
- Release notes

In addition, the AIX Publications CD contains a stand-alone version of the RICOH ProcessDirector AIX help system, also referred to as the Information Center.

The RICOH ProcessDirector for Linux Publications CD, GK4T-4007, contains the following publications:

- RICOH ProcessDirector for Linux: Planning and Installing, G550-1042
- RICOH ProcessDirector: Integrating with Other Applications, S550-1069
- RICOH ProcessDirector: Installing Document Processing Features, G550-20312

- RICOH ProcessDirector: Using RICOH ProcessDirector Plugin for Adobe Acrobat, G550-20229
- RICOH Font Summary, G550-20001
- Whitepaper: Using the Enhance AFP Function
- Release notes

In addition, the Linux Publications CD contains a stand-alone version of the RICOH ProcessDirector Linux help system, also referred to as the Information Center.

The RICOH ProcessDirector for Windows Publications CD, GK4T-4107, contains the following publications:

- RICOH ProcessDirector for Windows: Planning and Installing, G550-1365
- RICOH ProcessDirector: Integrating with Other Applications, S550-1069
- RICOH ProcessDirector: Installing Document Processing Features, G550-20312
- RICOH ProcessDirector: Using RICOH ProcessDirector Plugin for Adobe Acrobat, G550-20229
- RICOH Font Summary, G550-20001
- Whitepaper: Using the Enhance AFP Function
- Release notes

In addition, the Windows Publications CD contains a stand-alone version of the RICOH ProcessDirector Windows help system, also referred to as the Information Center.

## **Accessibility by people with disabilities**

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RICOH ProcessDirector has the following capabilities for vision-impaired users:

- Allow operation using only the keyboard (except for layout customization, visual workflow builder, and job workflow viewer)
- Communicates all information without using color as the only distinguisher.
- Supports interfaces commonly used by screen magnifiers
- Supports interfaces commonly used by screen readers
- Provides documentation in an accessible format

The Archive feature has the following capabilities for vision impaired users:

- Communicates all information without using color as the only distinguisher

- Supports interfaces commonly used by screen magnifiers
- Provides documentation in an accessible format

RICOH ProcessDirector has the following capability for users with mobility impairments or limited hand use:

- Can be operated using only the keyboard with exceptions noted above.

U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested from the Web site at

[http://www.ricoh-usa.com/about/accessibility/accessibility.aspx?utm\\_id=46&alnv=access](http://www.ricoh-usa.com/about/accessibility/accessibility.aspx?utm_id=46&alnv=access)

## SECTION 508 OF THE U.S. REHABILITATION ACT

RICOH ProcessDirector is capable, when used in accordance with Ricoh's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested using Ricoh's Web site at

[http://www.ricoh-usa.com/about/accessibility/accessibility.aspx?utm\\_id=46&alnv=access](http://www.ricoh-usa.com/about/accessibility/accessibility.aspx?utm_id=46&alnv=access)

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