



# Release Notes for RICOH InfoPrint Manager™ for Linux 4.14.2

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## 4.14.2

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This edition applies to InfoPrint Manager for Linux Version 4 Release 14.2. It is available in the RICOH Software Information Center at <https://help.ricohsoftware.com/swinfocenter>.

We are moving our InfoPrint Manager forum discussions to the new **Community** platform at <https://support.ricohsoftware.com> for a more streamlined, user-friendly experience. Register your account and start participating in the InfoPrint Manager forum threads by clicking the **Community** button at the top of the webpage. All previous posts have been successfully transferred, so no discussions have been lost.

An online platform for InfoPrint Manager customers to engage the support team is also available at <https://support.ricohsoftware.com>. This platform allows customers to open and manage support tickets across their organization. For more information about registering and working with support tickets using the online platform, go to [https://help.ricohsoftware.com/swinfocenter/ricoh-software-support/support\\_project.ditamap/\\$/support\\_using\\_support\\_site](https://help.ricohsoftware.com/swinfocenter/ricoh-software-support/support_project.ditamap/$/support_using_support_site).

### Note

- To find out if your country supports opening and managing support tickets directly by customers, contact your local Ricoh representative.

InfoPrint Manager provides an Ideas portal for InfoPrint Manager users to submit feedback to the product management team directly from the product interface. The Ideas portal link is <https://ipm-ideas.ricohsoftware.com/>.

**All InfoPrint Manager servers and clients must be upgraded to the same version. Do not forget to upgrade any secondary InfoPrint Manager servers.**

If you are upgrading multiple servers, keep all clients at the older (4.9.1 or earlier) level until all servers are upgraded to 4.9.2 or later. Then upgrade the clients.

**You must agree to the terms of the [Software Maintenance Agreement \(SWMA\)](#) before installing the InfoPrint Manager software.**

## What's new in Release 4.14.2?

- **Enhanced encryption in transit and at rest in InfoPrint Manager**

The new encryption management capabilities in InfoPrint Manager enhance security for job transmission and data storage. The InfoPrint Manager Web Administration Interface (Web GUI), the pdpr command, InfoPrint Submit Express, the SAP client, and InfoPrint Select now send jobs to InfoPrint Manager using encrypted channels, ensuring secure communication. For other clients, which use plain communication, IPsec or similar encryption methods are recommended to safeguard data. Upon receiving a job, InfoPrint Manager encrypts any data written to disk, except for documents processed through Print Rules and Custom Steps, which are decrypted for third-party application compatibility. When jobs are printed, some output methods (such as the AIX printing system, CUPS, and Windows print subsystem) do not support encryption, requiring decryption before passing data to native print systems. While PSF TCP/IP ensures data remains encrypted on disk, the communication channel itself is not encrypted. This feature strengthens data

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security by managing encryption both in transit and at rest, providing better protection for sensitive information.

For more information, see *RICOH InfoPrint Manager for Linux: Procedures*, the “Managing encryption in transit and at rest” and “Managing job encryption” sections, and *RICOH InfoPrint Manager: Reference*, the *encrypt-inline-resources* attribute.

- **Web Administration Interface (Web GUI) enhancements:**

- **Added an option to display the total number of pages for selected jobs**
- **Enabled multi-job submission from Web GUI instead of using a hot folder**
- **Added the option to switch the time format from 24-hour to 12-hour**
- **Introduced the option to encrypt inline resources in a job.**

For more information, see the InfoPrint Manager Web Administration Interface Help.

- **Web Management Interface (WMI) enhancements:**

- **Added an option to enable PSF-specific traces**
- **Provided a setting to enable client tracing**
- **Added the option to expose internal server communication ports for pdservers**
- **Enabled keyboard navigation**

For more information, see the InfoPrint Manager Web Management Interface Help.

- **Added the new RESORDTF option in EXTENSIONS for ACIF.**

For more information, see *AFP Conversion and Indexing Facility: User's Guide*, the “ACIF Parameters” chapter.

- **Introduced NFSv4 support in InfoPrint Manager for managing mounted partitions.**

- **Added support for the RICOH Pro C5400S and the RICOH Pro C5410S printer models.**

- **Publications:**

- **English**

- ◆ *RICOH InfoPrint Manager for Linux: Planning Guide*, G550-20262
- ◆ *RICOH InfoPrint Manager for Linux: Getting Started*, G550-20263
- ◆ *RICOH InfoPrint Manager for Linux: Procedures*, G550-20264
- ◆ *RICOH InfoPrint Manager for AIX and Linux: Configuring and Tuning Guide*, S550-1062
- ◆ *RICOH InfoPrint Manager: High Availability Guidelines*, G550-20261
- ◆ *RICOH InfoPrint Manager: Reference*, S550-1052
- ◆ *RICOH InfoPrint Manager: PSF, Server, and Transform Messages*, G550-1053
- ◆ *RICOH InfoPrint Manager: Secure Print: Installing and Configuring*, G550-20129
- ◆ *RICOH InfoPrint Manager: SAP Planning and Configuring Guide*, S550-1051
- ◆ *AFP Conversion and Indexing Facility: User's Guide*, G550-1342
- ◆ *RICOH InfoPrint Manager: Dictionary of Keywords*, S550-1188
- ◆ *RICOH InfoPrint Manager AFP2PDF Transform Feature: Installing and Using*, G550-1057

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- ◆ *Page Printer Formatting Aid for Windows: User's Guide and Reference*, S550-0801
  - ◆ *RICOH InfoPrint Manager: Installing InfoPrint Manager Transform Feature*, G550-20160
  - **Japanese**
    - ◆ *RICOH InfoPrint Manager for Linux: Planning Guide*, G550–20268
    - ◆ *RICOH InfoPrint Manager for Linux: Getting Started*, G550–20265
    - ◆ *RICOH InfoPrint Manager for Linux: Procedures*, G550–20266

## Function not supported on InfoPrint Manager for Linux

- Passthrough DSS (available on Windows only)

## Limitations

### InfoPrint Manager for Linux and RICOH ProcessDirector™ for Linux limitation

InfoPrint Manager for Linux and RICOH ProcessDirector™ for Linux cannot coexist on the same Linux machine.

### Single Cell Halftone

Single Cell Halftone support has a limitation with the provided transparency support. The small (one bit monochrome) images that are transformed with transparency enabled are not transformed with the Single Cell algorithms. The native PostScript® data streams that use the imagemask operator are transformed using the original halftone algorithms. The PDF data streams that process small (one bit monochrome) images with transparency enabled also use the original algorithms.

### Indexed Multiple Data Sets

MVS™ Download Receiver cannot be used with multiple data sets that have already been indexed (contain AFP TLEs).

### Interchanging set version attribute

The sap2afp transform command does not create IS/3 compliant AFP output when converting an ABAP® file by specifying 3 as a value for the **-is** flag. The sap2afp transform command creates IS/3 compliant AFP output only when the input file is an OTF file.

### InfoPrint Transform Manager feature limitations

- InfoPrint Manager for Linux and InfoPrint Transform Manager feature for Linux cannot coexist on the same Linux machine.
- SAP2AFP transformer does not support SAP® ABAP document format.

### Job Viewer limitations

- When viewing an AFP Job that uses a form-definition with an n-up value set, the n-up value will be ignored.

- Embedded PDF files can be viewed only when the job is viewed page by page. When viewing the full document, the embedded PDF files are not supported.

## Known problems and workarounds

### Longer processing for color text that uses embedded fonts

When transforming PDF with color text that uses embedded font subsets to black and white or color AFP output, the rip processing can take longer. If you use **savevm=false**, this performance will improve. However, we recommend using the current default of **savevm=true** because, in some cases, PDF input files with many embedded font subsets might fail to transform. The **savevm** option appears on the **ps2afp/pdf2afp** command line as: **-pragma pdf2psoptions=savevm=true**.

### Upgrading SAP Clients on Linux

If you are upgrading your SAP clients, update the LOMS definitions for all your InfoPrint Manager printers to point to the updated **ipm\_submit**, **ipm\_dev\_query**, **ipm\_job\_query**, and **ipm\_job\_cancel** commands by removing all trailing **.linux** options from the OMS commands. For more information on modifying the OMS commands, see *RICOH InfoPrint Manager: SAP Planning and Configuring Guide*.

### License clock tampering problem

If InfoPrint Manager is installed on a machine with the system date and time older than the current date, InfoPrint Manager server starts issuing the error: "5010-901 InfoPrint Manager detected a time tampering problem".

Contact your support personnel and ask them to make sure that the system time is synchronized with the Internet time server. Remove the license that caused the problem and reinstall it.

### Job status and accounting for nested PJL jobs

Accounting information reports 0 (zero) pages completed when InfoPrint Manager prints nested PJL jobs to Ricoh controller devices and InfoPrint Manager is configured to wait for the job to print completely (wait-for-job-completion is enabled).

To avoid this situation, use the InfoPrint Manager provided **pioinfo** backend and enable the PJL JOB counting function using the **enable-ustat-count** option with the printer command, for example: **pioinfo://ricohdevice.yourcompany.com enable-ustat-count**.

### Job status and device timeout setting

The device timeout setting can cause the jobs to be reported as failed and the actual destination state to be changed to **needs key operator** when InfoPrint Manager is configured to provide accurate job status (by enabling the **wait-for-job-completion** attribute), which requires the backend program to wait for the jobs to print completely.

If your physical printer has a timeout setting, make sure it is disabled or the timeout value is higher than the necessary time to print your largest possible job when you enable the **wait-for-job-completion** attribute. For Ricoh printers, you can use Remote Maintenance by telnet to make the necessary changes to the direct printing port settings (**diprint** command).

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## **AFP files with inline resources might not print correctly when submitted as a multi-document job via pdpr command or Web GUI**

Specific AFP documents containing inline resources might be misprinted if the AFP files are sent as multiple documents of the same job. To avoid this situation, submit each file separately.

## **RICOH Cloud Connector and Red Hat Enterprise Linux Server® version 7.1**

Running InfoPrint Manager for Linux on Red Hat Enterprise Linux Server version 7.1 will cause the RICOH Cloud Connector not to start due to a known bug in Linux systemd (<https://github.com/systemd/systemd/issues/2132>). Thus you might encounter problems running the product when using a subscription license. To avoid this situation, in the `/usr/lib/systemd/system/rcc.service` file, replace the line

```
ExecStart="/opt/RICOH/RCC/ricoh-cloud-connector-linux" -s
```

with the line

```
ExecStart=/usr/bin/env "/opt/RICOH/RCC/ricoh-cloud-connector-linux" -s
```

## Security fixes included in Release 4.14.2

Release **4.14.2** includes fixes for these CVEs:

<b>IBM® Semeru Runtime® Open Edition for Java® – OpenJ9 0.51.0</b>	<b>Buffer Overflow in Eclipse OpenJ9</b> When used with OpenJDK version 8 a stack based buffer overflow can be caused by modifying a file on disk that is read when the JVM starts. <a href="#">CVE-2025-4447</a>
<b>IBM Semeru Runtime Open Edition for Java – OpenJDK® 17.0.15</b>	Difficult to exploit vulnerability allows unauthenticated attacker with network access via multiple protocols to compromise Java. <a href="#">CVE-2025-21587</a> <a href="#">CVE-2025-30691</a> <a href="#">CVE-2025-30698</a>
<b>Apache® Tomcat® 10.1.42</b>	<b>Bypass of rules in Rewrite Valve</b> For a subset of unlikely rewrite rule configurations, it was possible for a specially crafted request to bypass some rewrite rules. If those rewrite rules effectively enforced security constraints, those constraints could be bypassed. <a href="#">CVE-2025-31651</a>
	<b>Security constraint bypass for CGI scripts</b> When running on a case insensitive file system with security constraints configured for the pathInfo component of a URL that mapped to the CGI servlet, it was possible to bypass those security constraints with a specially crafted URL. <a href="#">CVE-2025-46701</a>
	<b>FileUpload DoS via part headers</b> Apache Commons FileUpload provided a hard-coded limit of 10kB for the size of the headers associated with a multipart request. A specially crafted request that used a large number of parts with large headers could trigger excessive memory usage leading to a DoS. This limit is now configurable

	<p>(maxPartHeaderSize on the Connector) with a default of 512 bytes.</p> <p><a href="#">CVE-2025-48976</a></p>
	<p><b>FileUpload large number of parts with headers DoS</b></p> <p>Tomcat used the same limit for both request parameters and parts in a multipart request. Since uploaded parts also include headers which must be retained, processing multipart requests can result in significantly more memory usage. A specially crafted request that used a large number of parts could trigger excessive memory usage leading to a DoS. The maximum number of parts is now configurable (maxPartCount on the Connector) with a default of 10 parts.</p> <p><a href="#">CVE-2025-48988</a></p>
	<p><b>exe side-loading via icalcs.exe in Tomcat installer for Windows</b></p> <p>During installation, the Tomcat installer for Windows used icacls.exe without specifying a full path. This enabled a side-loading vulnerability.</p> <p><a href="#">CVE-2025-49124</a></p>
	<p><b>Security constraint bypass for pre/post-resources</b></p> <p>When using PreResources or PostResources mounted other than at the root of the web application, it was possible to access those resources via an unexpected path. That path was likely not to be protected by the same security constraints as the expected path, allowing those security constraints to be bypassed.</p> <p><a href="#">CVE-2025-49125</a></p>



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## CCRs included in Release 4.14.2



- No CCRs are included in InfoPrint Manager for Linux Release **4.14.2**.

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