Release Notes for RICOH InfoPrint Manager™ for Linux 4.14.1

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This edition applies to InfoPrint Manager for Linux Version 4 Release 14.1. 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.

⬇ 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 4.14.1?

- **SAP® is now integrated in the InfoPrint Manager Web Management Interface. This eliminates the need for SAP administrators to use the SAP GUI to create and manage SAP printers, as well as manage OMSs (Output Management Systems). You can create and manage printers in any SAP system with a properly configured SAP callback daemon, as long as the user assigned to the callback daemon has the necessary access rights in the SAP system. This feature allows you to manage OMSs, but does not support creating or deleting them.**

  For more information, see *RICOH InfoPrint Manager: SAP Planning and Configuring Guide*, the "Managing SAP printers using the InfoPrint Manager Web Management Interface" section and the InfoPrint Manager Web Management Interface Help.

- **InfoPrint Manager integration with SAP S/4HANA® is now certified.**

For more information, see *RICOH InfoPrint Manager: SAP Planning and Configuring Guide*, the "Overview of the SAP print feature" section.

- **Customers can now specify which protocol to use when connecting via Federated Authentication.**

  For more information, see *RICOH InfoPrint Manager for Linux: Procedures*, the "Managing Federated Authentication for InfoPrint Manager for Linux" section and the InfoPrint Manager Web Management Interface Help.

- **Included IPP Destination Support System on Linux and AIX for driverless print.**

  For more information, see *RICOH InfoPrint Manager for Linux: Getting Started*, the "Understanding Destination Support Systems" section.

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

  - **Improved administrator function for cloud environments via WMI updates.**

  - **Allowed the Force Stop option on processes in starting and stopping states.**

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

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

  - **Right click option to Change Retain time for jobs.**

  - **Right click option to Change Media for printer trays.**

  - **Option to get the job name in notification messages for job events.**

  - **Added completion-time to the list of attributes for retained jobs.**

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

- **ASCII and simple-text input streams are now available for the View Job option in the Web GUI, making it easier to manage MVS documents.**

  For more information, see *RICOH InfoPrint Manager for Windows: Getting Started*, the "Viewing a Job in the InfoPrint Manager Web Interface" topic.

- **Added support for the Podman container management tool.**

  For more information, see *RICOH InfoPrint Manager for Linux: Planning Guide*, the "Running InfoPrint Manager for Linux in a container" section.

- **Added support for the following RICOH Pro 8400 Series printer models:**

  - RICOH Pro 8400S

  - RICOH Pro 8410

  - RICOH Pro 8410S

  - RICOH Pro 8420

  - RICOH Pro 8420S

  For more information, see *RICOH InfoPrint Manager for Linux: Planning Guide*, the "IPDS printers" section.

- **Included Rocky® Linux® support for server and clients.**

  For more information, see *RICOH InfoPrint Manager for Linux: Planning Guide*, the "Client software prerequisites" and "Server software prerequisites" sections.

- **Added support for Windows Server® 2025.**

- **Added support for AFP Workbench Viewer, version 3.09.00.01.**
- **Dropped support for the macOS® clients.**
- **Dropped support for the SAP HP-UX® and Sun® Solaris® clients.**
- **The following printer models are deprecated and will be removed with this release. They will still be supported as generic printers:**
    - InfoPrint 75
    - InfoPrint 100
    - InfoPrint Color 130 Plus
    - InfoPrint EMP156
    - InfoPrint PRO C900AFP
    - InfoPrint PRO C901
    - InfoPrint PRO C901S
    - InfoPrint Pro 907
    - InfoPrint Pro 907EX
    - InfoPrint Pro 1107
    - InfoPrint Pro 1107EX
    - InfoPrint Pro 1357
    - InfoPrint Pro 1357EX
    - InfoPrint 1145 (no MFP support)
    - InfoPrint 1422
    - InfoPrint 1532
    - InfoPrint 1540 MFP
    - InfoPrint 1552
    - InfoPrint 1560 MFP
    - InfoPrint Color 1567
    - InfoPrint 1570 MFP
    - InfoPrint 1572
    - InfoPrint 1572 MFP
    - InfoPrint 1580 MFP
    - InfoPrint 1585
    - InfoPrint Color 1654
    - InfoPrint Color 1664
    - InfoPrint Color 1754 Express
    - InfoPrint Color 1759 MFP
    - InfoPrint Color 1764
    - InfoPrint Color 1764 MFP

- InfoPrint Color 1767
- InfoPrint Color 1769 MFP
- InfoPrint 1823
- InfoPrint 1832
- InfoPrint 1834
- InfoPrint 1846 MFP
- InfoPrint 1850 MFP
- InfoPrint 1852
- InfoPrint 1854
- InfoPrint 1856 MFP
- InfoPrint 1860 MFP
- InfoPrint 1866 MFP
- InfoPrint 1870 MFP
- InfoPrint 1872
- InfoPrint 1880 MFP
- InfoPrint 1892
- InfoPrint 1930 MFP
- InfoPrint 1940 MFP
- InfoPrint 1948 MFP
- InfoPrint 1968 MFP
- InfoPrint 1985 MFP
- InfoPrint 1988 MFP
- InfoPrint Color 2047
- InfoPrint Color 2057 MFP
- InfoPrint 2060ES
- InfoPrint Color 2065
- InfoPrint 2075ES
- InfoPrint Color 2075 MFP
- InfoPrint 2085
- InfoPrint 2090ES
- InfoPrint 2105
- InfoPrint 2105ES
- InfoPrint 2190
- InfoPrint 2210
- InfoPrint 2235
- InfoPrint 3000

- 3160 Advanced Function Printer with Feature 4120, 4161, 4162, or 4163
- 3900 Advanced Function Printer Models 001, D01, D02, 0W1, 0W3, DW1, and DW2 (including support for the MICR Post-Processing Interface Feature, the Set Media Modifications command to drive post-processing devices, such as Beste Bunch spot color printers, and the Interface Feature 4720)
- 3930 Page Printer Models 03D and 03S
- 3935 Advanced Function Printer with Feature 4020, 4121, or 4161
- 4312 Network Printer 12. OS Code Release Level 2.23 or later is required. For IPDS printing, the IPDS feature with IPDS Code Level 1.25 or later is required.
- 4317 Network Printer 17. OS Code Release Level 2.23 or later is required. For IPDS printing, the IPDS feature with IPDS Code Level 1.25 or later is required.
- 4324 Network Printer 24. OS Code Release Level 2.35 or later is required. For IPDS printing, the IPDS feature with IPDS Code Level 1.25 or later is required.
- InfoPrint SP 8200 DN1

- **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
    - *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 the InfoPrint Manager is installed on a machine with the system date and time older than the current date, the 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).

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 send 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

Release **4.14.0** includes fixes for these CVEs:

IBM® Semeru Runtime® Open Edition for Java® – OpenJDK® 17.0.13	Improper Restriction of Operations within the Bounds of a Memory Buffer CVE-2023-48161
	Improper Handling of Length Parameter Inconsistency CVE-2024-21208
	Integer Overflow or Wraparound CVE-2024-21210
	Memory Allocation with Excessive Size Value CVE-2024-21217
	Signed to Unsigned Conversion Error CVE-2024-21235
Apache® Tomcat® 10.1.34	Important: Remote Code Execution via write enabled Default Servlet. Mitigation for CVE-2024-50379 was incomplete CVE-2024-56337
	Low: DoS in examples web application CVE-2024-54677
	Important: Remote Code Execution via write enabled Default Servlet CVE-2024-50379
IBM Semeru Runtime Open Edition for Java – OpenJ9 0.48.0	Low: Eclipse OpenJ9 might return an incorrect value in JNI function GetStringUTFLength CVE-2024-10917
OpenSSL® 3.0.15	Possible denial of service in X.509 name checks CVE-2024-6119
	SSL_select_next_proto buffer overread CVE-2024-5535

Release **4.14.1** includes fixes for these CVEs:

| IBM® Semeru Runtime® Open Edition for Java® – OpenJDK® 17.0.14 | OpenJDK: Enhance array handling
CVE-2025-21502 |
| Apache® Tomcat® 10.1.39 | Important: Remote Code Execution and/or Information disclosure and/or malicious |

	content added to uploaded files via write enabled Default Servlet
	CVE-2025-24813
OpenSSL® 3.0.16	Timing side-channel in ECDSA signature computation
	CVE-2024-13176
	Low-level invalid GF(2 ^ m) parameters lead to OOB memory access
	CVE-2024-9143

CCRs included in Release 4.14

Release **4.14.0** includes resolution for these CCRs:

IPM3-1353	When adding new media to the psf-tray-characteristics (Media ready) attribute of a PSF-command or PSF-other actual destination, the size of the logical/physical page is incorrectly set to 0 in the printer profile
IPM3-1355	When performing a change job priority action from the Web GUI, the value for the job-priority attribute updates correctly on the server, but the Web GUI will display an empty field
IPM3-1361	Web GUI incorrectly displays attribute names containing apostrophes by doubling the apostrophes multiple times
IPM3-1372	The Media Ready drop-down box disappears when the user clicks on the scroll bar
ATS20245888	CUPS DSS now passes the job owner as the username connecting to the CUPS system, propagating the job owner to the physical printer or the server receiving the job
IPM3-1357	Server crash on simultaneous threads for destination and SNMP device queries

Release **4.14.1** includes resolution for these CCRs:

IPM3-1386	Email notifications are no longer accepted by the latest sendmail SMTP server causing the error "Bare linefeed (LF) not allowed"
ATS20245888A	CUPS DSS now passes the job owner as the username (without @hostname) connecting to the CUPS system, propagating the job owner to the physical printer or the server receiving the job

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