Release Notes for RICOH InfoPrint Manager™ for Linux 4.11.1

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This edition applies to InfoPrint Manager for Linux, Version 4 Release 11.1. It is available in the RICOH Software Information Center at https://help.ricohsoftware.com/swinfocenter.

We encourage you to become part of the InfoPrint Manager community by visiting our forum at: http://rpp.ricoh-ipm.forums.net, where you can engage in InfoPrint Manager related discussions. Register your account and start participating in the InfoPrint Manager forum threads.

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 higher. Then upgrade the clients.

What's new in Release 4.11?

- **New Web Management Interface (WMI) web-based application, intended to be used for similar functionality available currently via SMIT on AIX, Management Interface on Linux, or Management Console on Windows. In this release, it has limited functionality for managing service and users.**

  For more information, see *RICOH InfoPrint Manager for Linux: Getting Started*, the *Setting up the InfoPrint Manager Web Management Interface* section, or the Help system.

- **InfoPrint Manager can now be also purchased via subscription, instead of a perpetual license.**

  For more information, see *RICOH InfoPrint Manager for Linux: Getting Started*, the *Managing InfoPrint Manager licensing* section.

- **Added the following functionality to the Web Administration Interface (Web GUI):**

  - **allowing users to change the forms attribute from job menu**

  - **adding tray selection option in the job submitter**

  - **ability to track the users login and logout times.**

  For more information, see *RICOH InfoPrint Manager for Linux: Getting Started* or the Help system.

- **Added Serverless and Direct printing for the InfoPrint Select client.**

  For more information, see *RICOH InfoPrint Manager for Linux: Getting Started*, the *Using InfoPrint Select for Windows with serverless printing* section.

- **Modified the services startup mechanism from `init.d` to `systemd` for the Linux variant.**

  For more information, see *RICOH InfoPrint Manager for Linux: Procedures*, the *Using the systemD services* section.

- **Redesigned the front and back overlay functionality to separate overlays.**

For more information, see *RICOH InfoPrint Manager: Reference*, the *overlay*, *overlay-front*, and *overlay-back* attributes.

- **Added functionality for the printer setup name to be loaded with the job settings.**

  For more information, see *RICOH InfoPrint Manager: Reference*, the *setup-name* attribute.

- **Added pragma CMYKCUSTOM to Adobe APPE transform, which helps with replacing one color found in Text and/or LineArt objects from PDF.**

  For more information, see *RICOH InfoPrint Manager: Reference*, the *pdf2afp and ps2afp commands: transform PDF or PostScript data to AFP* section.

- **Added support for font mapping (substitution) for the Adobe APPE transform engine.**

  For more information, see *RICOH InfoPrint Manager: Reference*, the *apped utility: starts the apped daemon* section.

- **Support for ACR 514 - Data Object Resource Equivalence.**

  For more information, see *RICOH InfoPrint Manager: PSF, Server, and Transform Messages*.

- **Enhanced in-line transform to support multipage PDF object container.**

- **Increased limitation of custom steps (transforms) command from 255 to 4095 characters.**

  For more information, see *RICOH InfoPrint Manager: Reference*, the *destination-pass-through*, *other-transform-options*, *printer-escape-codes*, and *server-address* attributes.

- **InfoPrint Manager now supports Microsoft Edge (based on Chromium engine) browser for the Web Administration Interface and Web Management Interface.**

  For more information, see *RICOH InfoPrint Manager for Linux: Planning Guide*, the *Client software prerequisites* section.

- **Added support for Microsoft Windows Server 2022 for server and client.**

  For more information, see *RICOH InfoPrint Manager for Linux: Planning Guide*, the *Client software prerequisites* section.

- **Added support for Microsoft Windows 11 for client.**

  For more information, see *RICOH InfoPrint Manager for Linux: Planning Guide*, the *Client software prerequisites* section.

- **Dropped support for Windows Server 2012 on client systems.**

- **Revised publications:**

  – *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 R/3 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

Function not supported on InfoPrint Manager for Linux

- IPP DSS (available on Windows only)
- Passthrough DSS (available on Windows only)
- DPF (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

- On the Linux platform, the PDF to AFP transform is only supported on SLES12 and later versions or RedHat 7.1 and later versions.
- SAP2AFP transformer does not support SAP ABAP document format.

Job Viewer limitation for n-up documents when form-definition is used

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

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`.

InfoPrint Manager setup installation

Using the InfoPrint Manager setup graphical installer can cause issues when installing the product. This occurs when the register path is selected and you use the **Back** button after the installer asks for the license key. To avoid this, either have the product license key prepared before the installation process is started or install the product in trial mode and register it after the installation is complete using the License Key Management Application. For more information, see *RICOH InfoPrint Manager for Linux: Getting Started*, G550-20263.

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 R/3 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).

The Submit Express client must be set up at the same level as the InfoPrint Manager server

To upgrade the Submit Express client to version 4.11 on Mac OS, you must first remove any older versions installed on the system.

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.

CCRs included in Release 4.11

Release 4.11.0 includes resolution for these CCRs:

DE41123 (IPM3-999)	Missing stringoptions.h ICU header file makes custom compilation of ACIF exits (apka2e, asciinpe) fail.
DE41124 (IPM3-1000)	afpsplit utility fails when using page ranges and having a form definition with more than 100 medium controls entries.
DE41084 (IPM3-997)	pdlicmgm licensing utility crashes while trying to install expired license keys.
DE41393 (IPM3-1009)	afp2pdf produces bad output (PDF) when input file contains fonts and text that have code points equal to 0 (zero).
DE41466 (IPM-2827)	Enabling Active Directory "Traverse Nested Groups" on LDAP settings and having multiple LDAP requests from different users over random LDAP server down conditions causes InfoPrint Manager server to crash.
DE41546 (IPM-2828)	"Assign to destination" option is missing from the user preferences.
DE41551(IPM-2829)	Uninstall failed because /var/pddir was a symbolic link of a mounted NFS folder.
DE41624 (IPM-2830)	fstsecutil fails when running as root and the IPM_USER is not part of the acl_admin group.
DE41155 (IPM3-1002)	PSFAPI finished callback processes are incorrectly added to the waiting list of processes and causing the callback count to reach its upper limit in high loaded systems.
DE41975 (IPM3-1025)	LKMA (License Key Management Application) or pdlicmgm command fails due to error loading libpdlicense library.
DE42408 (IPM3-1036)	Incorrect output of AFP2PDF transformer in case of two consecutive images that are rotated.
DE42502 (IPM3-1043)	sap2AFP transformer fails with segmentation fault or malfunctions when PAPERRES parameter from OP (Open Page command) is handled for OTF files.
DE42474 (IPM3-1042)	AFP2PDF transform does not place and correctly trim images that are using replicate and trim mapping option.
DE40383 (RPD3-4099)	Ensure that the job viewer displays the full page taking into account the form definition page size, logical page size and offset of logical page.
DE42623 (IPM3-1052)	Web GUI actions on active jobs displayed in filtered jobs view are not working when the selected job has job-discard-time attribute set.
DE42081 (IPM3-1027)	Server not starting or crashing due to MUTEX condition without logging anything in the server log.

DE42587 (IPM3-1048)	Missing job-completion-time attribute from a job caused incorrect entries in the accounting log.
DE42696 (IPM3-1054)	Fix for critical Log4j vulnerability published in CVE-2021-45046, CVE-2021-44832 and CVE-2021-44228.
DE42673 (IPM3-1053)	Graphics are getting cropped when using pdf2afp APPE transform with 360 resolution generating color page segments.
DE42619 (IPM3-1051)	Using PSF Other destination (PCL Secondary process) output is missing some page content because of variable data not showing up on multiple copy groups.
IPM3-1067	Miscellaneous license problems fixed (including expired licenses crash libpdlicense library on AIX).

Release 4.11.1 includes resolution for these CCRs:

IPM-23033	PDF2AFP CPSI trasformer: no glyphs in a Type 3 font are processed, which leads to empty output.
IPM3-1072	In rare cases AFP2PDF positions incorrectly an image due an objectArea position value not being reset.
IPM-23267	Managing licenses remotely using SSH client as a non-root user results in invalid license after the restart of the licensing daemon.
IPM3-1089	Resolving miscellaneous memory leaks in licverd (licensing daemon/service).

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