Customer Reference Document: RICOH InfoPrint Manager V4.11 (5648-F40)

Overview

Effective Enterprise Output Management (EOM) is vital to reducing the Total Cost of Operations (TCO) of output and related print processes. Ricoh's premier EOM solution, RICOH InfoPrint Manager, is a robust enterprise application print management tool designed to fully support output processes, including distributed office print, high speed production, decentralized production, and enterprise application printing.

Enhancements in this Release V4.11

This release of RICOH InfoPrint Manager includes the following new function.

InfoPrint Manager can now be purchased via subscription.

A subscription allows users to access and use RICOH InfoPrint Manager and its features for a defined period (1, 2, 3, 4,and 5 years) of time in exchange for an annual subscription fee. Subscription pricing offers lower entry level pricing for new purchases providing purchasing managers accounting flexibility to use OpEx budgeting over CapEx. Subscription pricing also offers a greater per year discount with longer initial term. Subscription pricing offers a flexible alternative to traditional financing or leasing. Subscription pricing is available on Linux and Windows operating systems. Additional details are available on a new Sellers Sheet, InfoPrint Manager Subscription Pricing.

InfoPrint Manager for Windows supports multiple server instances making it comparable with the AIX and Linux variants. Multiple servers (pdservers) on Windows will provide uniform behavior across the platform and will increase processing performance within the Windows platform. This gives the ability of the Windows server to do more work by separating workload.

Here are some of the advantages an IPM system can provide from multiple pdservers:

- Improve overall IPM system efficiency
- Improve GUI performance
- Separate types of print workload, (e.g. production vs. distributed)
- Separate the workload from various locations, e.g. for the purpose of minimizing the impact of heavy of print loads in one location vs another location
- Drive production continuous forms printers from a single server
- Drive (many distributed printers from a single server
- Drive a high volume of jobs to a relatively small number of printers

And doing so can provide these advantages:

- If one pdserver hangs, stopping and starting that pdserver won't affect other production processes
- More granular security by segregating who is authorized to print where
- Separate retained jobs for better organizational management

New Web Management Interface (WMI) web-based application

The new Web Management Interface (WMI) is 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 services and users.

The WMI facilitates the management of the IPM server in the cloud. Cloud hosting instances of IPM can present challenges when it comes to providing access to vital underlying services. The new WMI eases the burden of providing management access to administrators in cloud environments.

The WMI provides an alternate method of accessing the server remotely for executing key functions.

Most customers have security restrictions that preclude access to the off the shelf server access to each OS. The WMI gives a web-based method to access server functions using LDAP security.

Web GUI functional enhancements

- Allow users to change the forms attribute from the job menu.
- Add tray selection option in the job submitter.
- Provide ability to track each users' login and logout times.

Customer Requested Function

Serverless printing now available for the InfoPrint Select client.

Improved efficiency and performance for preprocessed jobs that can bypass the IPM server.

Accurate accounting is still provided. InfoPrint Select sends the job directly to the printer.

Modified the services startup mechanism from initd to systemd for the Linux operating system.

Startup using rc.local is being deprecated and the product is taking advantage of the modern systemd capabilities

Redesigned the front and back overlay functionality to separate overlays.

This function allows customers to use separate front and back overlays, which will override whatever is specified in the medium map used by the .afp file (external or inline).

Having separate overlays for front and back increases utility such as making it easy to replace pre-printed forms

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

Customers have asked for a way to select a printer setup name in the AFP data stream. Depending on the printer vendor, these may be referred to as "printer setup", "printer snapshot", "printer profile", etc.

The new function allows an operator to specify the snapshot name and PSF will request that snapshot to be used during print operations.

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

The pragma allows users to easily replace one color with another while transforming PDF documents to AFP.

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

The apped daemon manages the APPE processor portion of the InfoPrint PDF transform programs. The new appe_fonts_path=[PathName] command specifies the paths for the directories where the extra fonts for Adobe PDF Print Engine transforms are located.

Support for ACR 514 - Data Object Resource Equivalence.

Added a new IPDS DORE2 command that works the same as the existing DORE command, but added an extra field that specifies which HAID pool to search for an equivalence entry.

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

The in-line transform now has the ability to directly support multipage PDFs providing users with better workflow options.

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

This increases the ability to have more complex steps and more steps within a series of steps.

Technology currency enhancements

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

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

Added support for Microsoft Windows 11 for client.

Dropped support for Windows Server 2012 on client systems.

Security Vulnerability Scanning Process

- InfoPrint Manager, as part of the Ricoh product portfolio, undergoes rigorous security vulnerability scanning throughout the development process. As vulnerabilities are found, updates are developed and applied according to the level of risk assigned to each vulnerability. The most recent updates are made available to admins and via the Level 2 team.

Item Numbers

ITEM NUMBER	DESCRIPTION	CHANGE
5648-F50-0002W-S1 (-5) 5648-F50-0003L-S1 (-5)	Subscription Pricing – Windows (years 1 – 5) Subscription Pricing – Linux (years 1 – 5)	New
5648-40-0007	IPM LINUX MOBILE SECURE PRINT	Withdrawn

Software Requirements

InfoPrint Manager V4.11 for AIX (64-bit kernel)

- AIX 7.1 Technology Level (TL) 5 Service Pack (SP) 5 or higher
- AIX 7.2 Technology Level (TL) 3 or higher

InfoPrint Manager V4.11 for Linux (64-bit kernel)

- CentOS Linux 7 x86_64
- CentOS Linux 8 x86_64 (up to version 8.4)
- Oracle Linux 7 x86_64 (version 7.5 or later)
- Red Hat Enterprise Linux Server 7 x86_64
- Red Hat Enterprise Linux Server 8 x86_64
- SUSE Linux Enterprise Server 12 x86_64
- SUSE Linux Enterprise Server 15 x86_64

InfoPrint Manager V4.11 for Windows

InfoPrint Manager 4.11 supports only 64-bit versions of Windows for servers and clients.

Server supported operating systems are:

- Windows Server 2012 R2 Standard (Update KB2919355)
- Windows Server 2016 Standard
- Windows Server 2019 Standard
- Windows Server 2022 Standard

Client supported operating systems are:

- Windows 10 Pro
- Windows 10 Enterprise
- Windows 11
- Windows Server 2012 Standard
- Windows Server 2016 Standard
- Windows Server 2019 Standard

Publications

All publications are downloadable from the [Ricoh Software Information Center](#) or

https://help.ricohsoftware.com/swinfocenter/

The following publications apply to all three platforms: AIX, Linux, and Windows:

- InfoPrint Manager: Installing InfoPrint Manager Transform Feature - G550-20160-05
- InfoPrint Manager: Secure Print: Installing and Configuring, G550-20129-19
- InfoPrint Manager afp2pdf Transform Feature: Installing and Using, G550-1057-11
- InfoPrint Manager: SAP R/3 Planning and Configuration Guide, G550-1051-20
- InfoPrint Manager: PSF, Server, and Transform Manager Messages, G550-1053-15
- InfoPrint Manager: Reference, S550-1052-25
- InfoPrint Manager for AIX and Linux: High Availability Guidelines, G550-20261-12
- InfoPrint Manager: Dictionary of Keywords, S550-1188-14
- Page Printer Formatting Aid: User's Guide, S550-0801-10
- AFP Conversion and Indexing Facility, G550-1342-12

InfoPrint Manager for AIX ships with these publications:

- InfoPrint Manager for AIX: Planning Guide, G550-1060-21
- InfoPrint Manager for AIX: Getting Started, G550-1061-25
- InfoPrint Manager for AIX: Procedures, G550-1066-24
- InfoPrint Manager for AIX and Linux: Configuring and Tuning Guide, S550-1062-17

InfoPrint Manager for Linux ships with these publications:

- InfoPrint Manager for Linux: Planning Guide, G550-20262-14
- InfoPrint Manager for Linux: Getting Started, G550-20263-17
- InfoPrint Manager for Linux: Procedures, G550-20264-16
- InfoPrint Manager for AIX and Linux: Configuring and Tuning Guide, S550-1062-17

InfoPrint Manager for Windows ships with these publications:

- InfoPrint Manager for Windows: Planning Guide, G550-1071-20
- InfoPrint Manager for Windows: Getting Started, G550-1072-26
- InfoPrint Manager for Windows: Procedures, G550-1073-24

Japanese Translated IPM V4.10.1 Books

Six of the 20 IPM V4.10.1 books were selected as Priority 1 books to be translated into Japanese. Here is the list of six books that have been translated into Japanese for the IPM V4.10.1 release:

- RICOH InfoPrint Manager™ for AIX: Getting Started, GB88–4107–07
- RICOH InfoPrint Manager™ for AIX: Procedures, GB88–4109–07
- RICOH InfoPrint Manager™ for Linux: Getting Started, G550–20265–06
- RICOH InfoPrint Manager™ for Linux: Procedures, G550–20266–06
- RICOH InfoPrint Manager™ for Windows: Getting Started, GB88–4106–07
- RICOH InfoPrint Manager™ for Windows: Procedures, GB88-4108-07

Help systems

- Java GUI Help (HTML)
- Web GUI Help including Job Viewer (Titania)
- IPM MI Help for Windows (CHM)
- IPM MI Help for Linux (HTML)
- IPM Select (CHM)
- Submit Help (HTML)

Note: The publications are included in the InfoPrint Manager Base Server DVD for each platform, which contains the publications in a PDF format.

Language Support

InfoPrint Manager V4.11.0 is available in English.

Translations will be updated in InfoPrint Manager V4.11.1 for French, Italian, German, Spanish, and Japanese.

InfoPrint Manager Limitations

The following are InfoPrint Manager Limitations:

InfoPrint Manager General Limitations:

Single Cell Halftone
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 image mask 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.

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.

InfoPrint Manager for Windows limitations:

Accounting information when printing PJL nested jobs to Ricoh controller devices reports 0 (zero) pages completed
Accounting information when printing PJL nested jobs to Ricoh controller devices reports 0 (zero) pages completed when InfoPrint Manager is configured to report job completed when printed (wait-for-job-completion is enabled) and when using InfoPrint TCP/IP Network Port Monitor. If you encounter this problem, contact your local Ricoh printer representative.

Make sure that all x64 kernel-mode software is signed
Previous x64 versions of Microsoft Windows Server did not require drivers to be signed. However, in the x64 version of Windows Server, all kernel-mode software (including drivers) that runs on the computer must have a signature.

InfoPrint Manager for Windows and Ricoh ProcessDirector for Windows limitation
InfoPrint Manager for Windows and Ricoh ProcessDirector for Windows cannot coexist on the same Windows machine.

Capitalization of object names
InfoPrint Manager object names are case-sensitive. However, Windows API is not case sensitive. Because of this limitation, you cannot have two objects with the same name, even if one of the names has uppercase letters.

When you use Class drivers (type 4 printer drivers), InfoPrint port monitor and InfoPrint TCP/IP Network Port Monitor are not supported.
Use V3 print drivers either shipped with the Windows installation base or downloaded from the manufacturer's website.

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.

InfoPrint Manager for Linux 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.

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.

InfoPrint Manager for AIX limitations:

InfoPrint Manager for AIX and Ricoh ProcessDirector for AIX limitation
InfoPrint Manager for AIX and Ricoh ProcessDirector for AIX cannot coexist on the same AIX machine.

IBM AIX native printing system does not support IPv6.
IBM AIX native printing system does not support IPv6, so functions such as: LPD or remote queue, are not supported.

InfoPrint Manager printing limitation on InfoPrint 5000
You cannot print via a hot folder to an InfoPrint 5000 from InfoPrint Manager for AIX version 7.2.

Customer Responsibilities

The customer is responsible for installing, configuring, maintaining, and using this product according to documented procedures, and for using the product in accordance with the Ricoh Software License Agreement, which can be found at this Web link:

[Software License Agreements](#) or

https://help.ricohsoftware.com/swinfocenter/ricoh-software-licenses/swlicenses.ditamap/$/licenseshome

Additional customer responsibilities can be found in the "Software Support Handbook" under your responsibilities at this Web link:

 [CIP Software Support Handbook](#) or

https://help.ricohsoftware.com/swinfocenter/ricoh-software-support/CIPSoftware_SupportHandbookV8-10.pdf

Terms and Conditions

RICOH InfoPrint Manager 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 if you have a current software maintenance agreement in effect.

Maintenance Service Offerings

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 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 InfoPrint Manager is warranted as stated in the Ricoh Software License Agreement

Software Subscription FAQs

Q: When does a subscription start?

A: The start date is the order date or the date that software is made available to the customer. The subscription will not function prior to subscription start date. The customer will be billed when the order is placed.

Q: When does a subscription end?

A: The end date of the subscription is determined by the term of the subscription. If you purchase a two-year subscription starting on August 1 of one year, the subscription ends on July 31 two years later.

Q: How does a RICOH InfoPrint Manager Subscription customer renew their subscription?

A: Place an order for one of the renewal items. A subscription renewal can be for 1, 2, 3, 4 or 5 years. The subscription will renew the day after the existing subscription expires.

Q: How does a RICOH InfoPrint Manager Subscription customer know when their subscription is going to expire?

A: The License page of the user interface shows the subscription expiration date. A warning message appears in the user interface starting 60 days prior to the expiration date and at regular interval thereafter.

Q: Can a customer move from RICOH InfoPrint Manager Subscription to RICOH InfoPrint Manager?

A: Yes, but there is no credit for prior subscription payments.

Q: Can a customer move from RICOH InfoPrint Manager to RICOH InfoPrint Manager Subscription?

A: To make this move on the same release of RICOH InfoPrint Manager, you must install the software again. You can upgrade your RICOH InfoPrint Manager at one release to RICOH InfoPrint Manager Subscription at a higher release without reinstalling the software.

Q: Can a customer with a RICOH InfoPrint Manager perpetual license add a new subscription-based feature to their current license?

A: No, the base product and features must be under the same license terms.

Q: Is the 60-day trial still available?

A: Yes. RICOH InfoPrint Manager Subscription can be used for 60 days without purchasing a subscription.

Q: Can a RICOH InfoPrint Manager Subscription customer add a new feature part way through a subscription term?

A: Yes. New features can be added at a prorated cost and the end date of the feature subscription will be coterminous with the base subscription end-date.

Q: Can a RICOH InfoPrint Manager Subscription customer change the end date of a subscription to align it with the end of a printer or other equipment lease?

A: Yes. A new subscription order is required to change the end date.

Q: Can a RICOH InfoPrint Manager Subscription customer cancel prior to the subscription end date?

A: Subscriptions cannot be cancelled.

Q: Are Professional Services Extended features available on a subscription basis?

A: Yes. Please contact your Ricoh Solutions Executive for pricing and availability information.

Q: Are Professional Services hours included in the subscription?

A: No. Hours for customization, project management and other Advanced Solution Practice services as determined in the Statement of Work (SOW) remain a one-time charge (OTC) and are not included in the subscription pricing.

RICOH InfoPrint Manager Subscription Ordering Information

RICOH InfoPrint Manager Subscription is composed of a base license, printer attachment features, and optional features.

- Open the Configurator model for RICOH InfoPrint Manager (#5648-F40)

- Choose among the Windows (5648-F40-0002W) or Linux (5648-F40-0003L) option

- Choose optional features – one optional feature is required for each base license (5648-F40) that will install the optional feature. The optional features are listed in the "Item Numbers" section of this document.

- Specify the desired subscription term (1, 2, 3, 4 or 5 years). The term must be the same for the base product and all the features in the order. If a customer adds a feature during the term of the base subscription, the term and price for the feature will be prorated to match the term of the base product.

- Specify the correct number and type of printer attachment features.

- For additional ordering information, see RICOH InfoPrint Manager V4.11 (5648-F40)

RICOH InfoPrint Manager Ordering Information

RICOH InfoPrint Manager is composed of a base license, printer attachment features, and optional features.
Open the Configurator model for RICOH InfoPrint Manager (#5648-F40)

- Choose among the Windows (5648-F40-0002W) or Linux (5648-F40-0003L) or the AIX (5648-F40-0001A) option

- Choose optional features – one optional feature is required for each base license (5648-F40) 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 are described below:

  o Workgroup Printers (Now 80 impressions per minute (ipm) and below; Previously this group was 62 impression per minute
  o Added Group of 10 printers at 80 impressions per minute and below
  o 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
  o Medium Speed Printers (Now 151-400) impressions per minute; previously this group was 111-300 impressions per minute)
    ▪ No new groups are being added
  o 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
  o 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 InfoPrint Manager), 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 for standard licenses are shown in the following table.

ITEM	IPM PRINTER ATTACHMENT OPTIONS	Printer Speeds for Printer Attachment features
5648-F40-0093	IPM GRP OF 10 WORKGRP PRNTR ATTACH	Group of 10 printers 80 impressions per minute and below
5648-F40-0023	IPM GRP OF 25 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5648-F40-0024	IPM GRP OF 50 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5648-F40-0025	IPM GRP OF 100 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5648-F40-0026	IPM GRP OF 200 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5648-F40-0027	IPM GRP OF 500 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5648-F40-0028	IPM GRP OF 1000 WORKGRP PRNTR ATTACH	Workgroup defined as 80 impressions per minute and below
5648-F40-0020	IPM LOW-SPEED SINGLE PRNTR ATTACH	Single Device defined as 81-150 impressions per minute
5648-F40-0090	IPM LOW-SPEED GROUP OF 5 PRNTR ATTACH	Group of 5 printers as 81-150 impressions per minute
5648-F40-0091	IPM LOW-SPEED GROUP OF 10 PRNTR ATTACH	Group of 10 printers as 81-150 impressions per minute

5648-F40-0092	IPM LOW-SPEED GROUP OF 25 PRNTR ATTACH	Group of 25 printers as 81-150 impressions per minute
5648-F40-0021	IPM MED-SPEED PRINT ENGINE ATTACH	Single Device defined as 151 - 400 impressions per minute
5648-F40-0022	IPM HIGH-SPEED PRINT ENGINE ATTACH	Single High Speed defined as 401-1,999 impressions per minute
5648-F40-0029	IPM ULTRA HIGH-SPEED PRINT ENGINE ATTACH	Single Ultra High Speed defined as 2,000 impressions per minute or above

The Printer Attachment Items for subscription licenses are shown in the following table.

ITEM	IPM PRINTER ATTACHMENT OPTIONS	Printer Speeds for Printer Attachment features
5648-F50-0093-S1	IPM GRP OF 10 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Group of 10 printers 80 impressions per minute and below
5648-F50-0023-S1	IPM GRP OF 25 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Workgroup defined as 80 impressions per minute and below
5648-F50-0024-S1	IPM GRP OF 50 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Workgroup defined as 80 impressions per minute and below
5648-F50-0025-S1	IPM GRP OF 100 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Workgroup defined as 80 impressions per minute and below
5648-F50-0026-S1	IPM GRP OF 200 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Workgroup defined as 80 impressions per minute and below
5648-F50-0027-S1	IPM GRP OF 500 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Workgroup defined as 80 impressions per minute and below
5648-F50-0028-S1	IPM GRP OF 1000 WORKGRP PRNTR ATTACH 1 YR SUBSCR	Workgroup defined as 80 impressions per minute and below
5648-F50-0020-S1	IPM LOW-SPEED SINGLE PRNTR ATTACH 1 YR SUBSCR	Single Device defined as 81-150 impressions per minute
5648-F50-0090-S1	IPM LOW-SPEED GROUP OF 5 PRNTR ATTACH 1 YR SUBSCR	Group of 5 printers as 81-150 impressions per minute
5648-F50-0091-S1	IPM LOW-SPEED GROUP OF 10 PRNTR ATTACH 1 YR SUBSCR	Group of 10 printers as 81-150 impressions per minute
5648-F50-0092-S1	IPM LOW-SPEED GROUP OF 25 PRNTR ATTACH 1 YR SUBSCR	Group of 25 printers as 81-150 impressions per minute
5648-F50-0021-S1	IPM MED-SPEED PRINT ENGINE ATTACH 1 YR SUBSCR	Single Device defined as 151 - 400 impressions per minute
5648-F50-0022-S1	IPM HIGH-SPEED PRINT ENGINE ATTACH 1 YR SUBSCR	Single High Speed defined as 401-1,999 impressions per minute
5648-F50-0029-S1	IPM ULTRA HIGH-SPEED PRINT ENGINE ATTACH 1 YR SUBSCR	Single Ultra High Speed defined as 2,000 impressions per minute or above

Marketing channels

Ricoh Sales Specialists

Warranty Period

The program is warranted for 90 days as stated in the Ricoh Software License Agreement.

Accessibility by people with disabilities

Base InfoPrint Manager Accessibility capabilities and characteristics apply to this InfoPrint Manager update.

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the product accessibility compliance can be requested via this Web site:

[Accessibility](#) or

https://www.ricoh-usa.com/en/about-us/corporate-responsibility-and-environmental-sustainability/accessibility

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