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*** Basic Information ***
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[Create date] 2017/07/18

[Program Name] Cloud Fax

[Version] 1.0.3

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D2411464C_forEDC

[File Information]

File Name D2411464C_forEDC.zip

File Type Module for Service

Size 3.26 MB (3416711 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Symptom corrected:

1. Scanner auto reset executes while swiping the reception result or the transmission result screen, and the screen closes even if in operation.
2. If the Energy Saving Recovery for Business Application is set to On (Energy Saving), the operation panel is turned on, and the device's engine is off, the device might not automatically receive cloud mail.
3. Automatic reception of CloudFax might not be carried out when the device is in energy saving mode.

Other changes:

- New Model Supported

[Modification history]

Version 1.0.2

Symptom corrected:

- When select the group address that include over than eleven destinations and send to it, Cloud Fax Connector seems to be send a data to all addresses of group, but actually a data is sent to only ten destinations.
- Even if registering over than eleven destinations to "Sender" in the settings of "Cloud Fax Connector Features", only ten destinations are displayed in "Sender".

Version 1.0.1

Other changes:

- Changes the icon name to "Cloud Fax Connector".

Version 1.0.0

Initial release

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***** Basic Information *****

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[Create date] 2018/10/02

[Program Name] GSNX V2 (for use with Remote Install Manager)

[Version] 2.5.2.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D4885101Q_forEDC

[File Information]

File Name D4885101Q_forEDC.zip

File Type Module for Service

Size 7.63 MB (8002124 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Supported

- GSNX standard application(compatible) supports RICOH IM 350 / 430.

Fixed

- Using the Send To Home folder for browsing, searching, or delivery

fails under the following conditions:

- 1.Send to Home folder is performed.
- 2.Passwordless Authentication(Active Directory or LDAP) profile is enabled.
- 3.The login user is used as the authentication method.

Note:

This problem occurs regardless of the SMB protocol version.

- When a destination printer driver list is displayed on MFP for more than once, the list may not be updated properly.

Condition:

The cache information in Embedded application has been deleted.

- If auto delete is disabled, create the file fails at 1,000th syslog file rotation.

- The process for profile synchronization takes time or times out when the following conditions are met(Server Edition only).

1.Server Edition

2.Table settings for Medatada Converter have many entries which are added by Auto Entry function.

- Processing speed for screen transition has been improved when GSNX SOP Optimized application (Hybrid and Full-native) is used and when multiple default destination addresses are selected in the e-mail plugin.
- A job is not processed and moved to the Jobshelter if the job is submitted during backup operated by Admin Tool of GSNX Server.
(Server Edition only)
- You cannot synchronize profiles from the GSNX AdminTool to the SOP Optimized (Hybrid) application while copying is in progress.
- To avoid GSNX embedded application being stopped due to the loops of metadata replacements, the logic of metadata replacement has been changed.

Other

- The checkbox is added for the user to choose whether the barcodes after 2nd page should be read or not with multi-paged files.
When the checkbox is checked and barcode is not on the first page, the first barcode on the following pages is detected and the barcode information is stored in the metadata.
- Send to Folder plug-in supports SMB v2.0/v3.0 distribution.
Exceptions are full native application and 12S or earlier models.
- To avoid the memory being full, folder search function by Send To Folder times out if the process takes more than 30 seconds.

[Modification history]

Version 2.5.0.0

Rank C

Supported

- RICOH IM 350 / 430is added to supported device model.

Others

- Send To Folder service supports to utilize SMB v2 or v3 by enabling "Enable Enhanced SMB Protocol"(Server Edition Only)
- .NET Framework 4.6 or later and Visual C++ Redistributable for Visual Studio 2015 are mandatory to use GSNX(Server Edition Only).
 - * When installing GSNXv2.5.0, Visual C++ Redistributable for Visual Studio 2015 will be automatically installed.
- Supports skipping the certificate validation process for SSL communication.

Fixed

- If you send a Result URL containing "?" in the value of metadata by the mail delivery service, "?" will be replaced with "% 3F". (Server Edition Only)
- In the Send To Mail service, the mail address specified for Bcc is included in the SMTP header of the mail delivered.
- If you specify a file name with two or more half-width spaces consecutively, an error occurs in the Image Correction filter.
- When the GSNX Embedded application is stopped or the device is powered off, you cannot delete the device registered in AdminTool.
- When a 10.1-inch profile converted from a WVGA profile created before GSNX v2.3.3 is synchronized with the device, scanning with

preview ON fails with an unexpected error.

- If a project with Auto Color Select set to the initial value is used on a device that cannot use Auto Color Select, the rotation direction of the image becomes incorrect.
- If you operate the panel during automatic logout on a device synchronized with a WVGA or 4.3-inch profile, the operation panel becomes black and it cannot be operated.
- If you scan a large amount of data continuously on a 10.1-inch profile synchronized to devices, a "memory-full" error will occur.
- The correct device status is not displayed in the "Status" of "Device List" on GSNX AdminTool.
- The previous user's GSNX screen may be displayed for a moment if the current user logs in just after the previous user has logged out.
- With GSNX Optimized(Hybrid) Application, the GSNX screen flicks by transiting from another screen.
- The Profile's control ID will be incorrect if the profile contains more than ten projects and is then copied or converted.
- The job log processed in the load balance server is duplicated and displayed in AdminTool.(Server Edition Only)
- Fixed a vulnerability issue for application stack traces.

Version 2.4.5.0

Fixed:

- With the server version, the state of the screen stays as processing wait until transferring a scan / fax image to the server is completed.

Version 2.4.3.0

Supported

- RICOH Pro 8200EX/Pro 8200S/ Pro 8210S/Pro 8220S have been added as supported device models.
- MP C307 / MP C407 have been added as supported device models.
- Support for Windows Server 2016 Datacenter / Standard.
- Support for Microsoft SharePoint Server 2016. (Server Edition Only)

Others

- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the design of the "Back" button icon displayed on the device panel has been improved.
- The Global Scan service starts automatically only if the service is terminated abnormally. (Server Edition Only)

Fixed

- An error dialog is displayed when displaying the preview screen on the operation panel in the case of using a 10.1 inch profile converted from WVGA.
- "OCR Scanned PDF" is not displayed on a tab menu in the case of using a 10.1 inch profile converted from WVGA.
- The GSNX server's CPU load goes up to 99% in the case of receiving a specific request.
- The wording displayed on the operation panel is cut off in the middle in the case of using GSNX Optimized mode (Hybrid mode).

Version 2.4.2.0

Supported:

- RICOH MP 2555/3055/3555/4055/5055/6055 is added to supported device models.

Others:

- Added the "Reverse Orientation" feature for 10.1 inch profiles.
- 10.1 inch screen profiles are now emulated like the Smart Operation Panel if you want to edit or create a profile.
- Additional debug information has been added to the DPL log.
(Server Edition Only)
- Debug log information for the Send To Folder plug-in has been improved.
- The design of the SOP optimized mode (Hybrid) UI displayed on the operation panel has been improved.
- Mixed Original Size is now supported on Aficio SP 5200S, 5210SF, 5210SR / MP 402SPF / MP 501SPF / MP 601SPF.
- Reverse Orientation is now supported on MP CW2201 Series / MP CW1201 Series / MP C6503 SP / MP C8003 SP / Pro C5200S / Pro C5210S.
- The following functions regarding avoided job data on MFP devices has been added to the AdminTool.
 - Display the avoided job count.
 - Download or delete avoided job data contained on the MFP HDD.
- If the GlobalScan service is stopped due to an "Out Of Memory" error, a heap dump file will be generated automatically.(Server Edition Only)

Fixed

- Security vulnerabilities (CVE-2016-3092) have been fixed.
- Failed to convert profiles created in previous versions to 10.1 inch.
- The AdminTool is not usable when profile data set for a 3rd party plug-in is restored to a GSNX server that does not have the 3rd party plug-in module installed.
- The 32-bit version of the GlobalScan service cannot be stopped on 64-bit version operating systems. (Server Edition Only)
- GSNX fails to create a job if a language not supported by GSNX is selected on the MFP.
- The "GlobalScan NX V2 Additional Enterprise Server" license is not available in GXNX v2.4.0 and v2.4.1. (Server Edition Only)
- Failure to save a setting in the Monitor Folder setting tool on Windows 10. (Server Edition Only)
- The same inbound FAX document will be delivered twice if the user tool is selected when GSNX is in the process of delivering the inbound FAX document.
- Inbound fax document delivery is delayed if the device receives the inbound fax while a user is editing the device's address book.
- GSNX v2 Smart Operation Panel application fails to install to the Smart Operation Panel.
- In the "Email Search" function on 10.1 inch profiles, "Display Name" and "Address Format" are not displayed correctly.
- Jobs stored in the job shelter are not removed from the device when the GSNX Embedded application is updated. (Serverless Edition Only)
- The operation panel screen may freeze if "AutoLogoutAfterScanning"(ConfigUtil) is applied to the MFP.

- In the case of SOP Optimized mode (Hybrid), the device cannot enter sleep mode if the system auto reset time is set as shorter than the time set for sleep mode.
- Improved a vulnerability issue. (Apache Commons Collections Java library insecurely deserializes data.)
- Fixed a vulnerability for clickjacking.

Version 2.4.1.0

Supported:

- RICOH MP 402SPF is added to supported device model.
- RICOH MP 6503/7503/9003 is added to supported device model.
- RICOH MP C6503/C8003 is added to supported device model.
- Pro C5200S/C5210S is added to supported device model.
- The GSNX AdminTool now supports Windows 10 Pro / Enterprise / Education (32-bit/64-bit).

Others:

- The Profile Copy function has been added.
- A function for converting a profile from WVGA to 10.1 inch has been added.
- The screen size (WVGA / 4.3 inch / 10.1 inch) that a profile is dedicated to is added in parenthesis after the profile number.
- The Activation Tool now supports the displaying of multiple languages.
- The GlobalScan service will be restarted automatically if the service is not in "running" status or the web service cannot respond. (Server Edition only.)

- 8 1/2 x 13 2/5 Landscape is available as a scan size in 10.1 inch profiles with GSNX SOP Optimized Mode (Hybrid Mode).
- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the name of the button for returning to the profile's top screen has been changed from "Top" to "Back".
- When pressing the "Back" button on the project screen on GSNX SOP Optimized Mode (Hybrid Mode), the group menu where the selected project is located will be displayed.
- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the design of the group menu icon has been improved.
- The back key provided by SOP is available in the case of GSNX SOP Optimized Mode (Hybrid Mode).
- Improved the processing speed when PDF Converter(Enhanced) creates an unsearchable PDF file.
- Improve security.

Fixed:

- Send To Folder delivery is delayed when performing Kerberos authentication.
- The destination path for the Send To Folder or Send To WebDAV services seem to be unselected on the operation panel when the startpoint path had been selected with some operation.
- The destination path for the Send To Folder or Send To WebDAV services seem to be unselected on operation panel although a destination path is preset via the GSNX AdminTool. (Serverless Edition only.)
- GSNX fails to create a searchable PDF file via PDF Converter when the delivery flow contains Send To Email with the Email Divide function. (Server Edition only.)

- Displays the hidden scan paper sizes on uWVGA operation panels.
- Fails to deliver stored inbound Fax documents when the GlobalScan SDK application starts running. (Serverless Edition only.)
- SSL setting is disable when performing an overwrite installation of GSNX Admin Tool with SSL settings.
- The profile icon is not displayed in the case of GSNX SOP Optimized Mode (Hybrid Mode).
- GSNX may rotate scanned documents to an unexpected orientation when Color or Gray Scale is selected for the Scan Type setting. (Server Edition only.)
- GSNX may rotate scanned documents to an unexpected orientation when Color or Gray scale is selected for the Scan Type setting and PDF Converter is set. (Serverless Edition only.)
- An error message is displayed on device operation panel when using the Secondary server and the Error Notification function is enabled. (Server Edition only.)
- When user logs in to a device, a "You do not have the privileges to use this function" message is displayed for a moment before GSNX is displayed.
- The GSNX application is not useable when the "Continue" button is selected right before the timer count for waiting additions become zero.
- It may not be possible to close dialog boxes when using the Send To RightFax service plug-in and Required Manual Entry Confirmation is enabled. (Server Edition only.)
- An illegal screen may be displayed when displaying the destination list for the Send To RightFax service plug-in and Required Manual Entry Confirmation is enabled. (Server Edition only.)
- When using the "Image Correction" plug-in, delivery will be

successful but some page data may be deleted and not sent

Version 2.4.0.0

Supported:

- RICOH MP C306Z/C406Z
- RICOH MP C3004/C3504/C4504/C5504/C6004/C2004/C2094SPJ/C2504/C2594SPJ

Fixed:

- The remarks in the system log are not added to the error notification emails.
- When importing project data from an older version, the tab order is changed in the filter menu.
- When updating the GlobalScan NX server, the isapi log size becomes large.
- When configuring Passwordless authentication(Active Directory) and Kerberos authentication for the Send To Home Folder function, NTLM authentication is used.
- Simplified Chinese text cannot be recognized in searchable PDFs created by the PDF Converter(Enhanced) filter. (Server Edition only.)
- The PDF Converter(Enhanced) filter fails to create searchable PDFs that include some tables. (Server Edition only.)
- The PDF Converter(Enhanced) filter fails to create searchable PDFs that include over 150 pages. (Server Edition only.)
- The PDF Converter(Enhanced) filter creates PDF files that are not compliant with PDF/A-1a or PDF/A-1b when either is selected.

- When a double-sided document is scanned, the back side is rotated to unexpected orientations. This fix is dependent on specific Java VM versions. Please be sure to update Java VM accordingly.

Others:

- The manual displayed via the GlobalScan NX AdminTool has been changed to PDF format.
- The activation system for the GlobalScan NX Server application has been changed.
- The Logjam vulnerability has been fixed.

Version 2.3.3.0

Supported:

- Polish, Swedish, Finnish, Hungarian, and Japanese have been added as supported OCR languages for Serverless OCR. (Serverless Edition only.)
- Detailed error information has been added to error notification emails.

Fixed:

- New entries cannot be registered via "Auto entry" for a Replacement Table when the "Auto Entry" setting is enabled and the table contains a large amount of information. (Server Edition only.)
- When both "Secondary Delivery Server Settings" and "Load Balance Server Settings" are enabled, administrators and users will receive two of the same e-mails. (Server Edition only.)

- When enabling Report notifications, administrators will receive unnecessary e-mails from devices. (Server Edition only.)
- If a project's "Scan Size" item is edited after being moved to the "Hidden Items", the value selected for "Scan Size" will return to "Auto Detect".
- Editing a project will fail if the "Divide Email" function on the Service screen is moved to the "Hidden Items".
- The page order for scanned documents will be swapped if "Mixed Batch" is selected on the "Scan Settings" tab.

Version 2.3.2.0

Supported:

- RICOH Pro C7100S/C7110S/C7100SX/C7110SX has been added to supported device models.
- Linoprint C7100S/C7110S/C7100SX/C7110SX has been added to supported device models.
- Korean has been added as a supported language.

Other:

- Rejects SSL v3.0 connection requests as a countermeasure for the SSLv3 POODLE vulnerability.
- The MIME type for PDF files attached to emails delivered by "Send to Email" has been changed to "application/pdf".
- Korean has been added as an OCR language for the OCR and PDF Converter filters. (Server Edition only.)

Fixed:

- A temporary file is not removed after the OCR or PDF Converter filter is processed. (Server Edition only.)
- GSNX delivers jobs to the wrong user when performing "Send to Me" or "Send to Home Folder". (Server Edition only.)
- "Send to Folder" delivery fails if multiple jobs are processed at the same time. (Server Edition only.)
- "Send to Folder" delivery stalls part way through processing. (Server Edition only.)

Version 2.3.1.0

Fixed

- [RA Only] The Scan To Me or Send To Home Folder process fails when using the Image Log Capture Plug-in. (Server Edition only)
- The Image Correction filter process encounters an error instead of skipping this process when the image file is not supported as an input file for the Image Correction filter. (Server Edition only)
- Delivery is delayed because of repeated unnecessary attempts to access the domain controller by the Send to Folder Service.
- PDF is not displayed in the File Format settings and the PDF Converter filter is not displayed after installation. (Server Edition only)
- Compressed TIFF format is converted to an uncompressed MMR format when using Auto Color Select in the Scan Type settings. (Server Edition only)
- OCR language for Serverless OCR always uses the language specified

as default in Project screen of Admin Tool.

(Serverless Edition only)

- The Barcode Plug-in process loops when it processes a job after redirection by the Flow Redirect filter.

(Server Edition only)

- The black belt enters the output data when using the Send to Printer service.

(Server Edition only)

- GSNX fails to deliver when a file format for Searchable PDF is input to the Image Converter filter.

(Serverless Edition only)

- File format types are not displayed in the Scan Setting Tab on the Operation Panel.

(Serverless Edition only)

- Scan Type changes are not reflected when changing to "Black & White: Text/Photo" from other types.

- Synchronization to MFPs will fail when performed on more than 10 devices at the same time.

- Memory leaking occurs when GSNX fails to write logs to system log files.

- Unable to log in to the GlobalScan NX AdminTool after a scheduled backup is performed.

- A string with parenthesis ("(" and ")") is redundantly registered to a Replacement Table when the Auto Entry and Using Regex option is enabled.

- An unnecessary folder is made in the GSNX install folder when the GSNX Windows service is restarted.

(Server Edition only)

- The "bin¥DPL" folder is not deleted when GSNX is uninstalled.

(Server Edition only)

- User will fail to log in to a project with GSNX ACL settings if the user belongs to a group that has special characters ("@" and ";") in its group name.
- The FTP plugin continuously waits for a reply from FTP Server.
- In environments where GSNX and CAP v2 are installed on an MFP, Send to Email will fail.

(Serverless Edition only)

- JavaVM crashes when the starting day of summer time is input to the metadata on a device with the summer time setting configured.
- A beep sound is not made when pressing down the # button on a device when using "Mixed Batch" setting as the scan method.
- Update installation fails because of a failure to access the RDPCOMIF.exe file.

(Server Edition only)

- The value of the page count is always set as 1 when creating a PDF (OCR scanned, multi-page) or High Compression PDF (OCR scanned, multi-page) file by using a device's OCR function.

(Serverless Edition only)

- Job logs are not displayed on the device panel when a user logs in to the project via single sign on with CAP v2.

(Server Edition only)

- Unselected devices are imported when using the Export Device List function.
- Unspecified profiles or projects are imported when using the Import Device List function.
- It is not possible to select the "OK" button when the selected profile does not have a one-touch scan project.
- When displaying the edit screen of a registered device from the

Device List, "Yes" is always selected in User Scanner function regardless of the set value.

Other

- The PDF Stamper filter is supported.
(Server Edition only)
- The OCR and PDF Converter filters support Traditional Chinese as an OCR language.
(Server Edition only)
- The timeout for the OCR process has been adjusted.
(Server Edition only)
- 3 additional OCR languages (Arabic/Vietnamese/Hebrew) have been added in Enhanced PDF Converter plug-in by activating this option.
(Server Edition only)
- Traditional Chinese can be added as a supported language.
- A6 Landscape size can be used as a paper scan size.
- Custom Size can be used as a paper scan size.
- It is possible to select if preview is enabled by default.
- "Mixed Original Sizes" is supported by GSNX on MP 301 and MP C305.
- If using Secondary Delivery Server Settings, Administrators can be informed if the server used for delivery has changed to the secondary server from the primary server.
- Regarding the number of replacement table entries, the max entries for 1 table has been changed to 700 entries from 500 entries, and the max entries for the total number of entries for all tables has been changed to 5000 entries from 2000 entries.
- The PDF Converter (Enhanced) filter supports a deskew function.
(Server Edition only)
- Traditional Chinese was displayed in the OCR language list as a

default in the PDF Converter (Enhanced) filter.

(Server Edition only)

- The compression format has been changed from CITT4 to JBIG2 when PDF Converter(Enhanced) compresses a black and white type file.

(Server Edition only)

- Required free space on the drive has been changed to 2GB when installing the GSNX application.

- Activation as Business server or Business server light is supported when GSNX Server Edition is installed on a client OS (Windows 7/8/8.1).

(Server Edition only)

- The IIS web service log has been rotated.
- The Send to Folder packet size has been made larger.
- [ConfigUtil Tool] Skip Service-Select view when there is only one service used in the project after inputting metadata.
- [ConfigUtil Tool] The timeout value between the GSNX AdminTool and GSNX server can be changed.
- [ConfigUtil Tool] Change the packet size when GSNX performs "Send To Folder"

Version 2.2.1.0

1)Supported:

- RICOH MP C401/C401SR is added to supported device models.
- RICOH MP 2554/3054/3554/4054/5054/6054 is added to supported device models.

2)Fixed:

1. When trying to direct jobs to another project by using the Flow Redirector filter in a GlobalScanNX v2.2 environment, the delivery of scanned documents with the Image Converter filter or PDF convertor filter process may fail in the branched workflow.
2. When performing a synchronizing process with GlobalScanNX v2.2 on multiple load balance servers with GlobalScanNX v2.2 installed, synchronization to the second or later servers will fail.

Others:

None

Version 2.2.0.0

1) Supported

- RICOH MP 2553/3053/3353/DSm1525/DSm1530/DSm1533/N405/N406/N407 is added to supported device models.

- RICOH MP Pro 8100S/8110S/8120S is added to supported device models.

- RICOH MP C2003/C2503/DSc1020/DSc1025 is added to supported device models.

- Windows Server 2012 R2 Datacenter / Standard (64-bit)

- Support for Windows 8.1 Enterprise / Pro (32-bit/64-bit)

(Serverless Edition Only)

2) Fixed

- Memory leak occurs when the image correction filter is used in

32-bit environments (Server Edition only).

- The archiving process may fail when the archiver filter is used for multiple jobs (Server Edition only).
- "Auto Color Select" configured to be undisplayed via the Admin Tool is displayed on the device operation panel.
- The paper size may be mistaken as "81/2*11" size if GSNX delivers a fax document which is A4 size via Send To Printer (Server Edition only).
- Delivery fails if changing the delivery flow for a project with Image Converter and PDF Converter (Server Edition only).
- The scanned job is missing pages or has another job's page if a large document set is handled in a process flow with the Image Correction filter (Server Edition only).
- JavaVM may crash when any of the following filters are used for a long time in 64-bit environments (Server Edition Only):
 - OCR filter, PDF Converter filter, or Image Converter filter.
- Needless files from old versions will be deleted during an update installation.
- LDAP authentication fails if a special character such as "=", "¥", or "" is included in the DN.
- Downloading error jobs is unavailable when multiple error jobs are selected on the Error Queue screen (Serverless Edition only).
- Checkbox number counter values in plug-in configurations cannot be updated correctly.
- If failover is used, accessing the job log from a device will be unavailable when the priority server cannot be reached (Server Edition only).
- The login user cannot be logged out automatically when there are no operations conducted after scanning.

- When scanning with a large manuscript set including color papers via "Auto Color Select", color pages will be registered to unintentional pages.
- If using the Barcode plugin, the PDF Converter filter may not convert the scanned document to a PDF file (Server Edition only).

3) Other

- [ConfigUtil Tool] GSNX uses NTLM authentication forcibly when performing Send To Folder.
- [ConfigUtil Tool] Possible to output detailed JCIFS log data on Send To Folder.
- GSNX Serverless Edition supports the OCR scanned PDF file format if using devices with an optional OCR function (Serverless Edition Only).
- Possible to specify multiple LDAP entries for displaying when searching for an email address on Send To Email or Send To Exchange.
- [ConfigUtil Tool] Possible to display a prompting message for restarting the GlobalScan service after applying the ConfigUtil tool if restarting the GlobalScan service is required.
- [ConfigUtil Tool] Possible to change the protocol used for Kerberos authentication from UDP to TCP only.
- [ConfigUtil Tool] Possible to retrieve the backed up job folders via the Batch Download Logs function).
- GSNX supports creating a self-signed certificate in the "SSL Setting Tool" if the built-in web server are used.
- Device administrator has been added and it is possible for multiple device administrators to log in to the "Management Tool" simultaneously.
- Possible to search for registered devices on a devices list screen.
- Possible to save a custom metadata configured with no value in a data field via the Admin Tool.

- [ConfigUtil Tool] Possible to make the login user log out automatically when a certain of idle time is passed.
- The image compression type is changed from JBIG2 to CCITT4 if the compression function is enabled in the Enhanced PDF Converter (Server Edition only).
- [ConfigUtil Tool] Enables RTF, XLS, XLSX, and DOCX selection on the "Scan Settings" tab via the device operation panel.
- [ConfigUtil Tool]The login process starts immediately after the user enters a password for 4-line LCD models.
- "xlsx" and "docx" file formats has been added for when the OCR plugin converts file formats.
- The following languages have been supported:
Danish, Portuguese, Norwegian, Russian

Version 2.1.3.0

Fixed:

- Failed to retrieve or deliver the home folder data under the environment with "/" in OU name.
- Double delivery of documents in some environments with Section Splitter filter or Barcode Separator filter configured in front of Send to Folder service. (Server Edition Only)
- Processing for Image Correction takes a long time for the GSNX 64-bit. (Server Edition Only)
- When there is illegal data included in the folder delivery path, an impertinent log will be recorded in the system log even though the delivery is successful.
- The creatation of a searchable PDF with Chinese text fails when tsize division is used for the Send to Email service. (Server

Edition Only)

- When using external authentication, if logout is conducted via the device logout key, the application stops. (Server Edition Only)
- LDAP servers that only support SSL connections fail to connect via SSL (StartTLS).
- Login fails when performing AD authentication for a user ID that is registered to other groups with other domains to a project with ACL configured.

Other:

- [ConfigUtil Tool] Screen transition to other applications is available when the logout button in a project screen is pushed.
- [ConfigUtil Tool] When cooperating with Ringdale, the login process starts automatically as long as card-authentication is successful.
- [ConfigUtil Tool] The process of logging out from project will be performed automatically after Scanning finishes.
- [ConfigUtil Tool] The maximum pages that can be created for a multi-page PDF with PDF convertor filter will be 500 (Serverless Edition only).
- [ConfigUtil Tool] The maximum pages that can be created for a multi-page Tiff with Image Convertor filter will be 500 (Serverless Edition only).
- [ConfigUtil Tool] SSL connection can be used without a Site certificate imported.
- [ConfigUtil Tool] Automatic synchronization and automatic restarting of the GlobalScan service for Secondary or Load Balance server is enabled (Server Edition Only).

- PDF Convertor (Enhanced) filter has been added (Server Edition Only).
- Support for Windows Server 2008 R2 Datacenter.
- The following languages can be chosen as the OCR languages used for OCR filter and PDF convertor filter: Danish, Portuguese, Norwegian, Russian and Chinese(Server Edition Only).
- Chinese has been added to the supported languages.
- The time taken between when a request for device reboot is sent and when the rebooting is started via an external application is shortened.

Update the Java VM to the latest version before installing this update.

Version 2.1.2.0

Supported:

- GlobalScan NX now supports the following devices:

MP CW2200

MP 2001 / 2501 / DSm1020 / DSm1025

Fixed:

- NTLM authentication is not performed after a failed Kerberos authentication when using search for folders if "Use the ticket received on Kerberos authentication as the priority" is set in the Kerberos option.
- GSNX does not complete the timeout process correctly when a destination server does not respond during the Send to Folder delivery process.

- Two-byte characters may display incorrectly in Report notifications (Server Edition only).
- Kerberos options cannot be enabled when using GSNX Server Edition trial version on Windows Server 2008R2 (Server Edition Only).
- If the time on the server has been changed immediately after performing the Report notification, GSNX does not perform the Report notification on the following day (Server Edition only).
- The GSNX embedded application does not work on the following devices:
Aficio MP 6001 / 7001 / 8001 / 9001
- Send to Home Folder and Send to Me fail on certain device models if LDAPS is set in the LDAP authentication profile (Serverless Edition only).
- Search for email address fails on certain device models if LDAPS is set in the Send to Email service (Serverless Edition only).
- Temporary files in the Windows temporary folder (typically, "C:\Temp\RDPOCR") on the HDD output by GlobalScan NX OCR process are automatically deleted.

Other:

- Users can now change their username if they fail to log into a project with SSO.
- AdminTool support for Windows 7 Ultimate / Enterprise / Professional Edition (64-bit) (Serverless Edition only).
- Support for Windows Server 2012 Datacenter / Standard (64-bit).
- AdminTool support for Windows 8 Enterprise / Pro (32-bit / 64-bit) (Serverless Edition only).
- ConfigUtil can allow GSNX to try and fit a non-standard PDF page size onto a GSNX-supported standard size (Server Edition only) (ConfigUtil).
- ConfigUtil can allow GSNX to display a "Scan Settings" shortcut

icon at the top of every GSNX screen on the operation panel

(ConfigUtil).

- Built-in Web Server Intermediate Certificate Chain Support.
- The maximum file size for Email Division has been raised from 10000KB to 100000KB.
- ConfigUtil can allow GSNX to perform auto-logout even when the device is waiting for input or displaying a scan preview (ConfigUtil).
- ConfigUtil can allow GSNX to start the login process immediately after the user enters a password (presses the "OK" button on the Software Keyboard) (ConfigUtil).

Version 2.1.1.0

Fixed:

- The Kerberos option is not enabled when using the 64-bit version of the AdminTool (Serverless Edition Only).
- Creating a subfolder on a Domain-based DFS system causes Send to Folder delivery to fail.
- Fax delivery sometimes fails for certain device models.
- Enabling an Image Correction plug-in function enables all Image Correction functions for the GSNX 64-bit version (Server Edition Only).

Others:

- GSNX now attempts a retry when fax data reception fails.
- A job queue and delivery service status report for administrators has been added (Server Edition Only).

Version 2.1.0.0

Supported:

- GlobalScan NX V2.1.0 now supports the following devices:

Aficio MP 6002 / Aficio MP 7502 / Aficio MP 9002

Fixed

- A communication error can occur when using Internet Information Service (IIS) as GlobalScan NX's webserver.
- Authentication Profiles are not imported correctly when a Profile is imported to GlobalScan NX.
- The email format used by Send to Email does not conform to certain RFC standards.
- Scanning output is rotated when the Original Orientation setting is hidden on the Scan Settings Screen.
- Some PNG files would cause an error in the image processing library.
- User login may unexpectedly fail if the Authentication Profile uses LDAPS.
- Barcode output may be garbled if the code includes SJIS characters.
- Users may be unable to log in to a Project after a Profile is synchronized to multiple devices at the same time.
- The GlobalScan NX HotFolder Plug-in Folder Monitor Setting Tool is not displayed in Chinese when using a Chinese OS (China Edition Only).

Others:

- Each GSNX SDK application now supports an independent server

- priority in a failover environment (Server Edition Only).
- The sharing of Load Balance Servers is now possible in a failover environment (Server Edition Only).
- The Section Splitter filter has been added to divide a job into the configured sections (Server Edition Only).
- A new Auto Color Select feature has been added to the Scan Type setting.
- The OCR mode can now be selected using the GlobalScan NX AdminTool (Server Edition Only).
- The Auto Delete Errored Jobs setting has been added to delete error jobs stored on the device (Serverless Edition Only).
- 1 job may now be redirected up to 10 times using Flow Redirector filters.
- The destination path is now displayed in the job description when the job succeeds.
- The GSNX SDK application can now connect to a target GSNX AdminTool for self-synchronization as long as the SDK application has no Profile.
- 2048-bit key length SSL certificates are now supported.
- Serverless Edition now can use the scheduled backup function (Serverless Edition Only).

Version 2.0.1.0

Supported:

GlobalScan NX now supports the following devices:

Aficio MP 301

Aficio MPC 305/DSc530

Fixed:

The OCR Filter, PDF Converter, Image Converter consume more of GlobalScan NX's memory than is necessary (Server Edition).

Version 2.0.0.0

Initial Release

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***** Basic Information *****
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[Create date] 2018/12/25

[Program Name] FlexRelease CX Embedded (Remote Install Manager)

[Version] 1.5.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D7425000H_forEDC

[File Information]

File Name D7425000H_forEDC.zip

File Type Module for Service

Size 2.05 MB (2149530 byte)

[Availability of RFU] No

[Production reflection] 2019/01

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Supported:
Met-MF3 a/b/c/d/e/y/z

Prerequisites to use Met-MF3 are:
- VM Card option * JavaVM version 12.63.00 or later
- Memory Unit 4GB option

[Modification history]

Version 1.5.0
Support:
Support for the following 16S models (Compatibility mode) have been added:
- Cor-P1.5

Version 1.5.0
Support:
Support for the following 15S models (Compatibility mode) have been added:
- Met-C2.1 a,b,c,d,e,y,z

Version 1.5.0
Support:
Support for the following 16S models (Compatibility mode) have been added:
- GR-C3 a,b
- Cor-C1.5 c,d,e,f,g,h

Version 1.5.0
Support:
Support for the following 15A models (Compatibility mode) have been added:
- MET-P2 c,e

Support for the following 16S models (Compatibility mode) have been added:
- CH-C2 (Office) a,b

Version 1.5.0
Support:
Support for the following 16S models (Compatibility mode) have been added:
- Gim-MF1.5dM

Version 1.5.0
Changed:
Support for Port Monitor installation via PDP-NX has been added.
PDP-NX v1.1.9 or later is required.

Version 1.3.0.0

Support for the following 16S models (Compatibility mode) have been added:

- MT-C6 a/c/e

Version 1.3.0.0

Support:

Support for the following 15S models (Compatibility mode) have been added:

- MET-C2 y/z
- Brz-MF1 a/b
- LE-C1 b

Version 1.3.0.0

Support:

Support for the following 15S models (Compatibility mode) have been added:

- MET-C2 a/b/c/d/e

Version 1.3.0.0

Support:

Support for the following 15S has been added:

- GR-C2 a/b

Version 1.3.0.0

Support:

Support for the following Smart Operation Panel models (Compatibility mode) have been added:

- MET-C1a, b, c, d, e, y, z
- Z-C2b
- Cor-C1c, d, e, f, g, h

Support:

Support for the following 14S Standard Operation Panel model has been added:

- Cor-C1 c,d,e

Support:

1. Support for the following 14S models have been added:

- Cor-C1 f,g,h

Changed:

1. In the case of 12A or later models (except for TI-P1), FlexRelease CX Embedded can be informed of printer errors from the printer application. If the printer application encounters an error when a user attempts to print, printing will not be started and the print job will not be deleted from the FlexRelease CX Server.

Update the Java VM to the latest version before installing this software.

Version 1.2.1.0

Fixed:

The following bugs have been fixed:

1. If the "Apply" button in the FlexRelease CX Administration Tool's Device Activation screen is selected multiple times, the "Update has completed successfully" screen cannot be displayed.
2. If the "Reset" button in the FlexRelease CX Administration Tool's Device Activation screen is selected multiple times, the initial settings screen cannot be displayed correctly.

Changed:

1. Windows 8.1 for port monitor/IE 11 for web browser are now supported.
2. "Check print" and "Delete after printing" functions have been added.
3. User code authentication is now supported.
4. A connection test is performed if the "Apply" button in the FlexRelease CX Administration Tool's Network Settings is selected.
5. Device activation is performed in FlexRelease CX Administration Tool's Device Activation.
6. "Default Job Selection" can be specified.

Support:

Support for the following 12A models has been added:

- MET-C1yz
- Z-C2

Update the Java VM to the latest version before installing this software.

Version 1.1.5

Fixed:

1. A printing error may occur due to a failure to control the device's Auto Logout function.

Support:

1. Support for the following 12A model has been added:
 - OR-C2

Update the Java VM to the latest version before installing this software.

Version 1.1.4.0

Fixed:

The following bugs have been fixed:

1. The device may not switch to energy saver mode correctly.
2. Null pointer exception may occur during card login on a device with CAP v2 installed.
3. If log downloading is canceled, the User Tools/Counter button may not work.

Support:

Support for the following 12A models has been added:

- CH-C1
- MET-C1

Update the Java VM to the latest version before installing this software.

Version 1.1.3.0

Fixed:

Under some rare conditions, an error dialog would appear after opening and then canceling the print confirmation screen from the Condition Print Settings screen. In that situation, the Close button on that error dialog does not work.

Changed:

1. Support for printing via the local printer driver has been added via the Port Monitor module.
2. Support for IC Card Authentication via CAP V2 has been added.
3. Support for registering and managing User Information via a CSV file has been added.

Support:

Support for the following models has been added:

MT-C5

V-C3

SH-MF1

Update the Java VM to the latest version before installing this software.

Version 1.0.2.0

Other changes:

1. The German, French, Spanish, Dutch, and Italian end-user UI and notification emails are now available.

Version 1.0.0.0

Initial Release

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***** Basic Information *****
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[Create date] 2018/12/25

[Program Name] FlexRelease CX Embedded for EUDC(Remote Install Manager)

[Version] 1.5.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) EUR(all)

[Firmware No.] D7425701B_forEDC

[File Information]

File Name D7425701B_forEDC.zip

File Type Module for Service

Size 2.05 MB (2149451 byte)

[Availability of RFU] No

[Production reflection] 2019/01

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Supported:
Met-MF3 a/b/c/d/e/y/z

Prerequisites to use Met-MF3 are:
- VM Card option * JavaVM version 12.63.00 or later
- Memory Unit 4GB option

[Modification history]

Version 1.5.0
Support:
Support for the following 16S models (Compatibility mode) have been added:
- Cor-P1.5

Version 1.5.0
Support:
Support for the following 15S models (Compatibility mode) have been added:
- Met-C2.1 a,b,c,d,e,y,z

Version 1.5.0
Support:
Support for the following 16S models (Compatibility mode) have been added:
- GR-C3 a,b
- Cor-C1.5 c,d,e,f,g,h

Version 1.5.0
Support:
Support for the following 15A models (Compatibility mode) have been added:
- MET-P2 c,e

Support for the following 16S models (Compatibility mode) have been added:
- CH-C2 (Office) a,b

Version 1.5.0
Support:
Support for the following 16S models (Compatibility mode) have been added:
- Gim-MF1.5dM

Version 1.5.0
Changed:
Support for Port Monitor installation via PDP-NX has been added.
PDP-NX v1.1.9 or later is required.

Version 1.3.0.0

Support for the following 16S models (Compatibility mode) have been added:

- MT-C6 a/c/e

Version 1.3.0.0

Support:

Support for the following 15S models (Compatibility mode) have been added:

- MET-C2 y/z
- Brz-MF1 a/b
- LE-C1 b

Version 1.3.0.0

Support:

Support for the following 15S models (Compatibility mode) have been added:

- MET-C2 a/b/c/d/e

Version 1.3.0.0

Support:

Support for the following 15S model has been added:

- GR-C2 a/b

Version 1.3.0.0

Support:

Support for the following Smart Operation Panel models (Compatibility mode) have been added:

- MET-C1a, b, c, d, e, y, z
- Z-C2b
- Cor-C1c, d, e, f, g, h

Support:

Support for the following 14S Standard Operation Panel model has been added:

- Cor-C1 c,d,e

Support:

1. Support for the following 14S models have been added:

- Cor-C1 f,g,h

Changed:

1. In the case of 12A or later models (except for TI-P1), FlexRelease CX Embedded can be informed of printer errors from the printer application. If the printer application encounters an error when a user attempts to print, printing will not be started and the print job will not be deleted from the FlexRelease CX Server.

Update the Java VM to the latest version before installing this software.

Version 1.2.1.0

Support:

1. Support for the following 12S model has been added:

- Z-C2

Version 1.2.1.0

Initial Release for RE.

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*** Basic Information ***
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[Create date] 2017/05/31

[Program Name] FlexRelease CX Embedded SP31 (Remote Install Manager)

[Version] 1.5.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D7425010D_forEDC

[File Information]

File Name D7425010D_forEDC.zip

File Type Module for Service

Size 2.05 MB (2151755 byte)

[Production reflection] 2017/06

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Support:

Support for the following 15S models (Compatibility mode) have been added:

- VE-P1 d

[Modification history]

Version 1.5.0

Changed:

Support for Port Monitor installation via PDP-NX has been added.

PDP-NX v1.1.9 or later is required.

Version 1.3.0.0

Support:

Support for the following 15S models have been added:

- MD-P3 d

Version 1.3.0.0

Support:

Support for the following model has been added:

- Gim-MF1d/MF1dM, Gim-P1dM

Version 1.3.0.0

Changed:

1. In the case of 12A or later models (except for TI-P1), FlexRelease CX Embedded can be informed of printer errors from the printer application. If the printer application encounters an error when a user attempts to print, printing will not be started and the print job will not be deleted from the FlexRelease CX Server.

Update the Java VM to the latest version before installing this software.

Version 1.2.1.0

Fixed:

The following bugs have been fixed:

1. If the "Apply" button in the FlexRelease CX Administration Tool's Device Activation screen is selected multiple times, the "Update has completed successfully" screen cannot be displayed.
2. If the "Reset" button in the FlexRelease CX Administration Tool's Device Activation screen is selected multiple times, the initial settings screen cannot be displayed correctly.
3. When a user logs in, the job list for the user who was previously logged in may be displayed.

Changed:

1. Windows 8.1 for port monitor/IE 11 for web browser are now supported.
2. "Check print" and "Delete after printing" functions have been added.
3. User code authentication is now supported.
4. A connection test is performed if the "Apply" button in the FlexRelease CX Administration Tool's Network Settings is selected.
5. Device activation is performed in FlexRelease CX Administration Tool's Device Activation.
6. "Default Job Selection" can be specified. Update the Java VM to the latest version before installing this software.

Update the Java VM to the latest version before installing this software.

Version 1.1.4.0

The following bugs have been fixed:

1. The device may not switch to energy saver mode correctly.
2. Null pointer exception may occur during card login on a device with CAP v2 installed.
3. If log downloading is canceled, the User Tools/Counter button may not work.

Update the Java VM to the latest version before installing this software.

Version 1.1.3.0

Initial Release

Update the Java VM to the latest version before installing this software.

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*** Basic Information ***
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[Create date] 2017/05/31

[Program Name] FlexRelease CX Embedded SP31 for EUDC(Remote Install Manager)

[Version] 1.5.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) EUR(all)

[Firmware No.] D7425711B_forEDC

[File Information]

File Name D7425711B_forEDC.zip

File Type Module for Service

Size 2.05 MB (2151680 byte)

[Production reflection] 2017/06

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Support:

Support for the following 15S models (Compatibility mode) have been added:

- VE-P1 d

[Modification history]

Version 1.5.0

Changed:

Support for Port Monitor installation via PDP-NX has been added.

PDP-NX v1.1.9 or later is required.

Version 1.3.0.0

Support:

Support for the following 15S models have been added:

- MD-P3 d

Version 1.3.0.0

Support:

Support for the following model has been added:

- Gim-MF1d/MF1dM, Gim-P1dM

Version 1.3.0.0

Changed:

1. In the case of 12A or later models (except for TI-P1), FlexRelease CX Embedded can be informed of printer errors from the printer application. If the printer application encounters an error when a user attempts to print, printing will not be started and the print job will not be deleted from the FlexRelease CX Server.

Update the Java VM to the latest version before installing this software.

Version 1.2.1.0

Initial Release for RE.

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*** Basic Information ***
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[Create date] 2019/03/29

[Program Name] FlexRelease CX Embedded SP11 for EUDC(Remote Install Manager)

[Version] 1.5.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) EUR(all)

[Firmware No.] D7425721B_forEDC

[File Information]

File Name D7425721B_forEDC.zip

File Type Module for Service

Size 1.97 MB (2064283 byte)

[Availability of RFU] No

[Production reflection] 2019/04

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Supported:
Cmy-P1 d/dM

[Modification history]

Version 1.5.0

Changed:

Support for Port Monitor installation via PDP-NX has been added.
PDP-NX v1.1.9 or later is required.

Version 1.3.0.0

Support:

Support for the following 15S models have been added:

- Brz-P1 a/b

Version 1.3.0.0

Support:

Support for the following 14S model has been added:

- Z-P2b

Version 1.3.0.0

Support:

Support for the following model has been added:

- Gim-P1c

Version 1.3.0.0

Fixed:

The following bug has been fixed:

1. If a user continuously prints jobs on an LP, a memory leak may occur and FlexRelease CX Embedded operations may be affected.

Update the Java VM to the latest version before installing this software.

Version 1.2.1.0

Initial Release for RE.

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***** Basic Information *****
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[Create date] 2019/03/29

[Program Name] RICOH Scan CX Embedded for EUDC (for use with Remote Install Manager)

[Version] 1.2.3.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) EUR(all)

[Firmware No.] D7691731E_forEDC

[File Information]

File Name D7691731E_forEDC.zip

File Type Module for Service

Size 7.03 MB (7373569 byte)

[Availability of RFU] No

[Production reflection] 2019/04

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Supported:
Cmy-MF1 c/d

[Modification history]

Version 1.2.2.0
Rank C

Supported:
Met-MF3 a/b/c/d/e/y/z

Prerequisites to use Met-MF3 are:
- VM Card option * JavaVM version 12.63.00 or later
- Memory Unit 4GB option

Version 1.2.2.0
Fixed:
Fixed an issue that caused v1.2.1 to not install correctly.

Version 1.2.1.0
Fixed:
RICOH Scan CX may send a scanned document that is rotated to an unexpected direction when the following conditions are met.
- Condition 1: Auto Color Select, Color or Gray Scale is selected for the Scan Type setting as well as Storage Service or Email is selected for Destination setting.
- Condition 2: Auto Color Select, Color or Gray Scale is selected for the Scan Type setting as well as SMB or FTP is selected for Destination setting and PDF is also selected for File Format.

Version 1.2.0.0
Supported:
- Metis-C2.1 a,b,c,d,e,y,z

Version 1.2.0.0
Supported:
- GR-C3 a,b,c,d,e,f,g,h

Version 1.2.0.0
Supported:
- CH-C2(Office) a,b

Version 1.2.0.0
Supported:
- Gim-MF1.5dM

Version 1.2.0.0
Supported:
- MT-C6 a, c, e

Version 1.2.0.0
Supported:
- MET-C2 y,z
- Brz-MF1 a,b
- LE-C1 b

Version 1.2.0.0
Support for the following 15S model has been added:
- MET-C2 a,b,c,d,e

Support for the following 15S model has been added:
- GR-C2 a,b

Support for the following Smart Operation Panel models
(Compatibility mode) have been added:
- MET-C1a, b, c, d, e, y, z
- Z-C2b
- Cor-C1c, d, e, f, g, h

Support for the following model has been added:
- Gim-MF1d,MF1dM, Gim-P1dM

Supported:
Support for the following 14S Standard Operation Panel model has been added:
- Cor-C1 c,d,e

Supported:
1. Support for the following models have been added:
- Cor-C1 f,g,h

Other:
- If a password inputted on the authentication screen includes a
blank value, the login button cannot be selected.

- The auto-logout dialog remains after a device is resumed from energy saving mode.
- If a "start.ricoh" login user and scan user are the same after CAP V2, ELP-NX V2 is uninstalled, the mask setting for the job log needs to be set as "OFF".

Fixed:

- Despite the screen indicating that logging out was successful, the user cannot logout.
- If the authentication mode is changed, users cannot log in to RICOH Scan CX.
- When dialog is cumulative, the screen freezes.
- Although the "Authentication has failed. The account may be invalid, password expired, or lockout has been set. Please contact the system administrator." dialog is displayed after selecting the RICOH Scan CX icon, the RICOH Scan CX screen appears.
- When a job delivered via SMB delivery is redirected, the job encounters an error because it fails to get the delivery folder information.
- If HTTP is invalid in the MFP web service, an error will occur when downloading logs in Embedded Manager.
- If the authentication mode is changed on the project select screen, the change is not reflected after updating the profile.

Version 1.1.2.0

Supported:

1. Support for the following models have been added:

- AT-C2.5, AP-C2.5, OR-C1, V-C3, DI-C1.5, Z-C2, SH-MF1

Version 1.1.1.0

Initial Release for RE.

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***** Basic Information *****
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[Create date] 2018/10/02

[Program Name] GSNX SmartOperationPanel SSO Option(for use with Remote Install Manager)

[Version] 1.1.2.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D4885300C_forEDC

[File Information]

File Name D4885300C_forEDC.zip

File Type Module for Service

Size 0.02 MB (18460 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Fixed

- GSNX fails Single Sign On with SSO option under the following conditions:

Using GSNX optimized application whose version is earlier than v2.5.0.0
The Key Display and the User Code in the device's Address book are different

[Modification history]

Version 1.1.1.0
Rank C

Others:

Supports GlobalScan NX v2.5.0.

- * For a device with GlobalScan NX v2.5.0 embedded application, the supported SSO Option version is v1.1.1.0.

Version 1.1.0.0

Others:

- SSO (Single Sign On) between the GlobalScan SOP optimized application and PaperCut v2 has been supported.

Version 1.0.0.0

Others:

- SSO (Single Sign On) between the GlobalScan SOP optimized application and PCC v5 for SOP has been supported.

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***** Basic Information *****
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[Create date] 2019/01/18

[Program Name] ID Card Scan and Copy

[Version] 1.2.9

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5500H_forEDC

[File Information]

File Name D3CM5500H_forEDC.zip

File Type Module for Service

Size 1.98 MB (2080491 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

=====
***** Modification History *****
=====

[Modifications made:]

Rank C

Other changes:

- Support for SMB v2/3.

[Modification history]

Version 1.2.7

Other Change:

- Job Counter is implemented.

Version 1.2.5

Symptom corrected:

- When the mail server is set to Outlook for Office365 and "SSL for encrypted communication" is set to "On", the sending test fails.

Other changes:

- When a user logs in to the device and scans to folder using the "ID Card Scan and Copy" application, the user authentication dialog is displayed.

Version 1.2.3

Symptom corrected:

- When configuring the settings of ID Card Scan and Copy > SMTP Settings > Emailing Authentication to "Off", email might not be able to be sent.

Version 1.2.2

New model supported.

Symptom corrected:

A sent file becomes corrupt when the file format is set to PDF and the display language is set to one of the following 18 languages:

- German
- French
- Italian
- Dutch
- Spanish
- Russian
- Brazilian Portuguese
- Swedish
- Danish
- Portuguese
- Norwegian
- Czech
- Hungarian
- Turkish
- Polish
- Finnish
- Catalan
- Greek

Version 1.2.0

Additional model information:
Support for the Model Lef-C1b.

Symptom corrected:

The destination folder setting cannot be configured if:

- The network environment is using NTLMv1.
- "Select items not from list." is chosen on the "Select destination" screen shown during startup.

Version 1.1.1

Other changes:

The application name has been changed from "ID Card Scan & Copy" to "ID Card Scan and Copy".

Version 1.1.0

Other changes:

- Support for languages that are available on the device.

Version 1.0.0

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2017/06/29

[Program Name] Scan to Cloud Services

[Version] 1.03

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5511C_forEDC

[File Information]

File Name D3CM5511C_forEDC.zip

File Type Module for Service

Size 5.43 MB (5697041 byte)

[Availability of RFU] No

[Production reflection] 2017/06

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
=====

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[Modifications made:]

Other changes:

Application usage data can be obtained via @Remote.

[Modification history]

Version 1.02

Symptom corrected:

1. When logging in with an account that is not the global administrator for Office 365, login fails and the application cannot be used.
2. When logging in with an account other than "onmicrosoft.com", a connection failed error message is displayed, but the user does not know that the account cannot be used.
3. When logging in with an account other than "onmicrosoft.com", the application might be forcibly terminated.
4. The following wording has been changed:
Before: "Remember User name and Password"
After: "Stay logged in"

Version 1.01

Symptom Corrected:

Minor bug correction.

Version 1.00

Other changes:

- 1st mass production

=====
***** Basic Information *****
=====

[Create date] 2019/01/10

[Program Name] ID Card Scan and Copy

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5513_forEDC

[File Information]

File Name D3CM5513_forEDC.zip

File Type Module for Service

Size 5.70 MB (5980646 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank D

Initial release

[Modification history]

=====
*** Basic Information ***
=====

[Create date] 2019/01/10

[Program Name] Shared Folder Print

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5514_forEDC

[File Information]

File Name D3CM5514_forEDC.zip

File Type Module for Service

Size 6.24 MB (6547003 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
=====

[Modifications made:]

Rank D

Initial release

[Modification history]

=====
***** Basic Information *****
=====

[Create date] 2019/01/07

[Program Name] Book Copy Helper

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5515_forEDC

[File Information]

File Name D3CM5515_forEDC.zip

File Type Module for Service

Size 6.10 MB (6393723 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank D

1st Mass production

[Modification history]

=====
***** Basic Information *****
=====

[Create date] 2019/04/04

[Program Name] Scan to SharePoint

[Version] 2.0.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5516A_forEDC

[File Information]

File Name D3CM5516A_forEDC.zip

File Type Module for Service

Size 1.73 MB (1818693 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank C

Symptom corrected:

- Scan setting might not be changed from the default value.
- Preview screen is displayed twice, when the document is scanned with JPEG format.

[Modification history]

Version 2.0.0

Rank D

Initial release

=====
***** Basic Information *****
=====

[Create date] 2019/01/07

[Program Name] Easy Size Matching Copy

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5517_forEDC

[File Information]

File Name D3CM5517_forEDC.zip

File Type Module for Service

Size 6.15 MB (6447077 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank D

1st Mass production

[Modification history]

=====
*** Basic Information ***
=====

[Create date] 2019/01/07

[Program Name] Easy Size Matching Scan

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5518_forEDC

[File Information]

File Name D3CM5518_forEDC.zip

File Type Module for Service

Size 7.00 MB (7336096 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
=====

[Modifications made:]

Rank D

1st Mass production

[Modification history]

=====
*** Basic Information ***
=====

[Create date] 2019/01/07

[Program Name] ID Card Copy

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5519_forEDC

[File Information]

File Name D3CM5519_forEDC.zip

File Type Module for Service

Size 8.02 MB (8407629 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
=====

[Modifications made:]

Rank D

1st Mass production

[Modification history]

=====
*** Basic Information ***
=====

[Create date] 2019/04/04

[Program Name] Scan to Folder Helper

[Version] 2.0.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5520A_forEDC

[File Information]

File Name D3CM5520A_forEDC.zip

File Type Module for Service

Size 6.09 MB (6386620 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
=====

[Modifications made:]

Rank C

Other changes:

- The destination information sheet is printed through PCL, in case the device has PCL function.

[Modification history]

Version 2.0.0

Rank D

Initial release

=====
*** Basic Information ***
=====

[Create date] 2019/01/07

[Program Name] Conference Concierge

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5521_forEDC

[File Information]

File Name D3CM5521_forEDC.zip

File Type Module for Service

Size 3.59 MB (3768627 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
=====

[Modifications made:]

Rank D

1st Mass production

[Modification history]

=====
*** Basic Information ***
=====

[Create date] 2019/01/07

[Program Name] Group Destination Helper

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5522_forEDC

[File Information]

File Name D3CM5522_forEDC.zip

File Type Module for Service

Size 0.85 MB (896264 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank D

1st Mass production

[Modification history]

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***** Basic Information *****
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[Create date] 2019/01/07

[Program Name] Scan to Cloud Services

[Version] 2.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5523_forEDC

[File Information]

File Name D3CM5523_forEDC.zip

File Type Module for Service

Size 5.49 MB (5757944 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank D

1st Mass production

[Modification history]

=====
***** Basic Information *****
=====

[Create date] 2019/07/05

[Program Name] EngineDiagnosis

[Version] 1.2.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] Exist

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5900E_forEDC

[File Information]

File Name D3CM5900E_forEDC.zip

File Type Module for Service

Size 4.63 MB (4854467 byte)

[Availability of RFU] No

[Production reflection] 2019/03

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Other changes:

Display language is changed to English rather than Japanese when SOP language setting is a other language (French, Germany or other).

[Modification history]

Version 1.2.0

Rank D

1st release

=====
***** Basic Information *****
=====

[Create date] 2018/10/05

[Program Name] Shared Folder Print

[Version] 2.0.4

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5501G_forEDC

[File Information]

File Name D3CM5501G_forEDC.zip

File Type Module for Service

Size 6.19 MB (6495383 byte)

[Availability of RFU] No

[Production reflection] 2018/10

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank C

Other changes:

- Support for SMB v2/3.

[Modification history]

Version 2.0.3

Symptom Corrected:

- When a username with more than eight bytes logs in to the device under any user authentication environment, printing cannot be conducted.

Version 2.0.2

Symptom Corrected:

JPEG files cannot be printed or previewed when the display language is set to one of the following 18 languages:

- German
- French
- Italian
- Dutch
- Spanish
- Russian
- Brazilian Portuguese
- Swedish
- Danish
- Portuguese
- Norwegian
- Czech
- Hungarian
- Turkish
- Polish
- Finnish
- Catalan
- Greek

Version 2.0.1

Symptom corrected:

- When an application is used on the Model CH-C2 with a cover feeder option, the application might close unexpectedly.

Version 2.0.0

Specification Change:

Introduced support for the following:

- Setting the printing conditions per document.
- Finishing with stapling, punching, booklet, and folding.
- Linux OS.
- User code authentication.

Version 1.1.1

Symptom corrected:

- When launching Shared Folder Print, the application boot counter is displayed.

Version 1.1.0

Other changes:

- Support for languages that are available on the device.

Version 1.0.0

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2017/09/01

[Program Name] Book Copy Helper

[Version] 1.2.3

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5502E_forEDC

[File Information]

File Name D3CM5502E_forEDC.zip

File Type Module for Service

Size 6.15 MB (6445436 byte)

[Availability of RFU] No

[Production reflection] 2017/08

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Other Change:

- Job Counter is implemented.

[Modification history]

Version 1.2.2

Symptom corrected:

- When an application is used on the Model CH-C2 with a cover feeder or inserter option, the application might not start up unexpectedly.

Version 1.2.1

Symptom Corrected:

The message "Invalid accesses have been received." is displayed in the banner of the Smart Operation Panel when all of the following conditions are met:

- The Book Copy Helper application is running in the background.
- The engine has not recovered after the Smart Operation Panel starts up-for example, when the home screen is set as a priority application.
- The "Energy Saving Recovery for Business Application" setting is set to "On (Energy Saving)".

Version 1.2.0

Other Changes:

The application name has been changed from "Easy Book Copy" to "Book Copy Helper".

Version 1.1.0

Other changes:

- Support for languages that are available on the device.
- The UI in the startup dialog has been modified.

Version 1.0.0

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2018/02/21

[Program Name] Scan to SharePoint

[Version] 1.1.3

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5503D_forEDC

[File Information]

File Name D3CM5503D_forEDC.zip

File Type Module for Service

Size 1.71 MB (1795526 byte)

[Availability of RFU] No

[Production reflection] 2018/02

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Other changes:

Supported the design for the seven-inch operation panel.

[Modification history]

Version 1.1.2

Other Change:

- Job Counter is implemented.

Version 1.1.1

Other Changes:

The application name has been changed from "Scan To SharePoint" to "Scan to Server for SharePoint".

Version 1.1.0

Other changes:

- Support for languages that are available on the device.

Version 1.0.0

Other changes:

- 1st mass production

- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2017/09/01

[Program Name] Easy Size Matching Copy

[Version] 1.2.3

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5504E_forEDC

[File Information]

File Name D3CM5504E_forEDC.zip

File Type Module for Service

Size 6.20 MB (6500303 byte)

[Availability of RFU] No

[Production reflection] 2017/08

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Other Change:

- Job Counter is implemented.

[Modification history]

Version 1.2.2

Symptom corrected:

- When an application is used on the Model CH-C2 with a cover feeder or inserter option, the application might close unexpectedly.

Version 1.2.1

Symptom Corrected:

The message "Invalid accesses have been received." is displayed in the banner of the Smart Operation Panel when all of the following conditions are met:

- The Easy Size Matching Copy application is running in the background.
- The engine has not recovered after the Smart Operation Panel starts up-for example, when the home screen is set as a priority application.
- The "Energy Saving Recovery for Business Application" setting is set to "On (Energy Saving)".

Version 1.2.0

Other changes:

Renamed the application "Easy Copy Size Match" to "Size Match Copy".

Version 1.1.0

Other changes:

- Support for languages that are available on the device.
- The UI in the startup dialog has been modified.

Version 1.0.0

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2017/09/01

[Program Name] Easy Size Matching Scan

[Version] 1.2.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5505C_forEDC

[File Information]

File Name D3CM5505C_forEDC.zip

File Type Module for Service

Size 7.09 MB (7435643 byte)

[Availability of RFU] No

[Production reflection] 2017/08

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Other Change:

- Job Counter is implemented.

[Modification history]

Version 1.2.0

Other changes:

- Renamed the application "Easy Scan Size Match" to "Size Match Scan".

Version 1.1.0

Other changes:

- Support for languages that are available on the device.
- The UI in the startup dialog has been modified.

Version 1.0.0

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2017/09/04

[Program Name] ID Card Copy

[Version] 1.10.4

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5506A_forEDC

[File Information]

File Name D3CM5506A_forEDC.zip

File Type Module for Service

Size 4.66 MB (4889860 byte)

[Availability of RFU] No

[Production reflection] 2017/08

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Other Changes:

- Job Counter is implemented.

[Modification history]

Version 1.10

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
***** Basic Information *****
=====

[Create date] 2019/01/18

[Program Name] Scan to Folder Helper

[Version] 1.10.4

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5507B_forEDC

[File Information]

File Name D3CM5507B_forEDC.zip

File Type Module for Service

Size 3.56 MB (3737430 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****
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[Note]

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***** Important Notes *****
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[Important Notes]

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***** Modification History *****
=====

[Modifications made:]

Rank C

Other changes:

- Support for SMB v2/3.

[Modification history]

Version 1.10.2

Other Changes:

- Job Counter is implemented.

Version 1.10

Specification changes:

1. Added support for including user code authentication when conducting destination information sheet printing on all applicable devices except for the MP C306 and C406.
2. Support for Korean.
3. Support for Thai.
4. Added support for the hardware ten-key pad.
5. Removed a Menu key.

Symptom corrected:

- When the back button on the main screen of an application is pressed, the application is not exited.

Other changes:

- Support for installing from the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2017/09/01

[Program Name] Conference Concierge

[Version] 1.1.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5508B_forEDC

[File Information]

File Name D3CM5508B_forEDC.zip

File Type Module for Service

Size 3.56 MB (3732710 byte)

[Availability of RFU] No

[Production reflection] 2017/08

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Other Change:

- Job Counter is implemented.

[Modification history]

Version 1.01

Symptom Corrected:

Minor bug correction.

Version 1.00

Other changes:

- 1st mass production
- Initial release via the Application Site.

=====
*** Basic Information ***
=====

[Create date] 2018/02/23

[Program Name] GSNX V2 (for use with Remote Install Manager)

[Version] 2.5.0.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D4885101P_forEDC

[File Information]

File Name D4885101P_forEDC.zip

File Type Module for Service

Size 7.13 MB (7475936 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Supported

- RICOH IM 350 / 430is added to supported device model.

Others

- Send To Folder service supports to utilize SMB v2 or v3 by enabling "Enable Enhanced SMB Protocol"(Server Edition Only)
- .NET Framework 4.6 or later and Visual C++ Redistributable for Visual Studio 2015 are mandatory to use GSNX(Server Edition Only).
 - * When installing GSNXv2.5.0, Visual C++ Redistributable for Visual Studio 2015 will be automatically installed.
- Supports skipping the certificate validation process for SSL communication.

Fixed

- If you send a Result URL containing "?" in the value of metadata by the mail delivery service, "?" will be replaced with "% 3F". (Server Edition Only)
- In the Send To Mail service, the mail address specified for Bcc is included in the SMTP header of the mail delivered.
- If you specify a file name with two or more half-width spaces consecutively, an error occurs in the Image Correction filter.
- When the GSNX Embedded application is stopped or the device is powered off, you cannot delete the device registered in AdminTool.
- When a 10.1-inch profile converted from a WVGA profile created before GSNX v2.3.3 is synchronized with the device, scanning with preview ON fails with an unexpected error.
- If a project with Auto Color Select set to the initial value is used on a device that cannot use Auto Color Select, the rotation direction of the image becomes incorrect.
- If you operate the panel during automatic logout on a device synchronized with a WVGA or 4.3-inch profile, the operation panel becomes black and it cannot be operated.
- If you scan a large amount of data continuously on a 10.1-inch profile synchronized to devices, a "memory-full" error will occur.
- The correct device status is not displayed in the "Status" of "Device List" on GSNX AdminTool.
- The previous user's GSNX screen may be displayed for a moment if the current user logs in just after the previous user has logged out.
- With GSNX Optimized(Hybrid) Application, the GSNX screen flicks by transiting from another screen.
- The Profile fs control ID will be incorrect if the profile contains more than ten projects and is then copied or converted.
- The job log processed in the load balance server is duplicated and displayed in AdminTool.(Server Edition Only)
- Fixed a vulnerability issue for application stack traces.

[Modification history]

Version 2.4.5.0

Fixed:

- With the server version, the state of the screen stays as processing wait until transferring a scan / fax image to the server is completed.

Version 2.4.3.0

Supported

- RICOH Pro 8200EX/Pro 8200S/ Pro 8210S/Pro 8220S have been added as supported device models.
- MP C307 / MP C407 have been added as supported device models.
- Support for Windows Server 2016 Datacenter / Standard.
- Support for Microsoft SharePoint Server 2016. (Server Edition Only)

Others

- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the design of the "Back" button icon displayed on the device panel has been improved.
- The Global Scan service starts automatically only if the service is terminated abnormally. (Server Edition Only)

Fixed

- An error dialog is displayed when displaying the preview screen on the operation panel in the case of using a 10.1 inch profile converted from WVGA.
- "OCR Scanned PDF" is not displayed on a tab menu in the case of using a 10.1 inch profile converted from WVGA.
- The GSNX server's CPU load goes up to 99% in the case of receiving a specific request.
- The wording displayed on the operation panel is cut off in the middle in the case of using GSNX Optimized mode (Hybrid mode).

Version 2.4.2.0

Supported:

- RICOH MP 2555/3055/3555/4055/5055/6055 is added to supported device models.

Others:

- Added the "Reverse Orientation" feature for 10.1 inch profiles.
- 10.1 inch screen profiles are now emulated like the Smart Operation Panel if you want to edit or create a profile.
- Additional debug information has been added to the DPL log. (Server Edition Only)
- Debug log information for the Send To Folder plug-in has been improved.
- The design of the SOP optimized mode (Hybrid) UI displayed on the operation panel has been improved.
- Mixed Original Size is now supported on Aficio SP 5200S, 5210SF, 5210SR / MP 402SPF / MP 501SPF / MP 601SPF.
- Reverse Orientation is now supported on MP CW2201 Series / MP CW1201 Series / MP C6503 SP / MP C8003 SP / Pro C5200S / Pro C5210S.
- The following functions regarding avoided job data on MFP devices

has been added to the AdminTool.

Display the avoided job count.

Download or delete avoided job data contained on the MFP HDD.

- If the GlobalScan service is stopped due to an "Out Of Memory" error, a heap dump file will be generated automatically.(Server Edition Only)

Fixed

- Security vulnerabilities (CVE-2016-3092) have been fixed.
- Failed to convert profiles created in previous versions to 10.1 inch.
- The AdminTool is not usable when profile data set for a 3rd party plug-in is restored to a GSNX server that does not have the 3rd party plug-in module installed.
- The 32-bit version of the GlobalScan service cannot be stopped on 64-bit version operating systems. (Server Edition Only)
- GSNX fails to create a job if a language not supported by GSNX is selected on the MFP.
- The "GlobalScan NX V2 Additional Enterprise Server" license is not available in GXNX v2.4.0 and v2.4.1. (Server Edition Only)
- Failure to save a setting in the Monitor Folder setting tool on Windows 10. (Server Edition Only)
- The same inbound FAX document will be delivered twice if the user tool is selected when GSNX is in the process of delivering the inbound FAX document.
- Inbound fax document delivery is delayed if the device receives the inbound fax while a user is editing the device's address book.
- GSNX v2 Smart Operation Panel application fails to install to the Smart Operation Panel.
- In the "Email Search" function on 10.1 inch profiles, "Display Name" and "Address Format" are not displayed correctly.
- Jobs stored in the job shelter are not removed from the device when the GSNX Embedded application is updated. (Serverless Edition Only)
- The operation panel screen may freeze if "AutoLogoutAfterScanning"(ConfigUtil) is applied to the MFP.
- In the case of SOP Optimized mode (Hybrid), the device cannot enter sleep mode if the system auto reset time is set as shorter than the time set for sleep mode.
- Improved a vulnerability issue. (Apache Commons Collections Java library insecurely deserializes data.)
- Fixed a vulnerability for clickjacking.

Version 2.4.1.0

Supported:

- RICOH MP 402SPF is added to supported device model.
- RICOH MP 6503/7503/9003 is added to supported device model.
- RICOH MP C6503/C8003 is added to supported device model.
- Pro C5200S/C5210S is added to supported device model.
- The GSNX AdminTool now supports Windows 10 Pro / Enterprise / Education (32-bit/64-bit).

Others:

- The Profile Copy function has been added.
- A function for converting a profile from WVGA to 10.1 inch has been added.
- The screen size (WVGA / 4.3 inch / 10.1 inch) that a profile is dedicated to is added in parenthesis after the profile number.
- The Activation Tool now supports the displaying of multiple languages.
- The GlobalScan service will be restarted automatically if the service is not in "running" status or the web service cannot respond. (Server Edition only.)
- 8 1/2 x 13 2/5 Landscape is available as a scan size in 10.1 inch profiles with GSNX SOP Optimized Mode (Hybrid Mode).
- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the name of the button for returning to the profile's top screen has been changed from "Top" to "Back".
- When pressing the "Back" button on the project screen on GSNX SOP Optimized Mode (Hybrid Mode), the group menu where the selected project is located will be displayed.
- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the design of the group menu icon has been improved.
- The back key provided by SOP is available in the case of GSNX SOP Optimized Mode (Hybrid Mode).
- Improved the processing speed when PDF Converter(Enhanced) creates an unsearchable PDF file.
- Improve security.

Fixed:

- Send To Folder delivery is delayed when performing Kerberos authentication.
- The destination path for the Send To Folder or Send To WebDAV services seem to be unselected on the operation panel when the startpoint path had been selected with some operation.
- The destination path for the Send To Folder or Send To WebDAV services seem to be unselected on operation panel although a destination path is preset via the GSNX AdminTool. (Serverless Edition only.)
- GSNX fails to create a searchable PDF file via PDF Converter when the delivery flow contains Send To Email with the Email Divide function. (Server Edition only.)
- Displays the hidden scan paper sizes on uWVGA operation panels.
- Fails to deliver stored inbound Fax documents when the GlobalScan SDK application starts running. (Serverless Edition only.)
- SSL setting is disable when performing an overwrite installation of GSNX Admin Tool with SSL settings.
- The profile icon is not displayed in the case of GSNX SOP Optimized Mode (Hybrid Mode).
- GSNX may rotate scanned documents to an unexpected orientation when Color or Gray Scale is selected for the Scan Type setting. (Server Edition only.)
- GSNX may rotate scanned documents to an unexpected orientation when Color or Gray scale is selected for the Scan Type setting and PDF Converter is set. (Serverless Edition only.)
- An error message is displayed on device operation panel when using

the Secondary server and the Error Notification function is enabled. (Server Edition only.)

- When user logs in to a device, a "You do not have the privileges to use this function" message is displayed for a moment before GSNX is displayed.
- The GSNX application is not useable when the "Continue" button is selected right before the timer count for waiting additions become zero.
- It may not be possible to close dialog boxes when using the Send To RightFax service plug-in and Required Manual Entry Confirmation is enabled. (Server Edition only.)
- An illegal screen may be displayed when displaying the destination list for the Send To RightFax service plug-in and Required Manual Entry Confirmation is enabled. (Server Edition only.)
- When using the "Image Correction" plug-in, delivery will be successful but some page data may be deleted and not sent

Version 2.4.0.0

Supported:

- RICOH MP C306Z/C406Z
- RICOH MP C3004/C3504/C4504/C5504/C6004/C2004/C2094SPJ/C2504/C2594SPJ

Fixed:

- The remarks in the system log are not added to the error notification emails.
- When importing project data from an older version, the tab order is changed in the filter menu.
- When updating the GlobalScan NX server, the isapi log size becomes large.
- When configuring Passwordless authentication(Active Directory) and Kerberos authentication for the Send To Home Folder function, NTLM authentication is used.
- Simplified Chinese text cannot be recognized in searchable PDFs created by the PDF Converter(Enhanced) filter. (Server Edition only.)
- The PDF Converter(Enhanced) filter fails to create searchable PDFs that include some tables. (Server Edition only.)
- The PDF Converter(Enhanced) filter fails to create searchable PDFs that include over 150 pages. (Server Edition only.)
- The PDF Converter(Enhanced) filter creates PDF files that are not compliant with PDF/A-1a or PDF/A-1b when either is selected.
- When a double-sided document is scanned, the back side is rotated to unexpected orientations. This fix is dependent on specific Java VM versions. Please be sure to update Java VM accordingly.

Others:

- The manual displayed via the GlobalScan NX AdminTool has been changed to PDF format.
- The activation system for the GlobalScan NX Server application has been changed.
- The Logjam vulnerability has been fixed.

Version 2.3.3.0

Supported:

- Polish, Swedish, Finnish, Hungarian, and Japanese have been added as supported OCR languages for Serverless OCR. (Serverless Edition only.)
- Detailed error information has been added to error notification emails.

Fixed:

- New entries cannot be registered via "Auto entry" for a Replacement Table when the "Auto Entry" setting is enabled and the table contains a large amount of information. (Server Edition only.)
- When both "Secondary Delivery Server Settings" and "Load Balance Server Settings" are enabled, administrators and users will receive two of the same e-mails. (Server Edition only.)
- When enabling Report notifications, administrators will receive unnecessary e-mails from devices. (Server Edition only.)
- If a project's "Scan Size" item is edited after being moved to the "Hidden Items", the value selected for "Scan Size" will return to "Auto Detect".
- Editing a project will fail if the "Divide Email" function on the Service screen is moved to the "Hidden Items".
- The page order for scanned documents will be swapped if "Mixed Batch" is selected on the "Scan Settings" tab.

Version 2.3.2.0

Supported:

- RICOH Pro C7100S/C7110S/C7100SX/C7110SX has been added to supported device models.
- Linoprint C7100S/C7110S/C7100SX/C7110SX has been added to supported device models.
- Korean has been added as a supported language.

Other:

- Rejects SSL v3.0 connection requests as a countermeasure for the SSLv3 POODLE vulnerability.
- The MIME type for PDF files attached to emails delivered by "Send to Email" has been changed to "application/pdf".
- Korean has been added as an OCR language for the OCR and PDF Converter filters. (Server Edition only.)

Fixed:

- A temporary file is not removed after the OCR or PDF Converter filter is processed. (Server Edition only.)
- GSNX delivers jobs to the wrong user when performing "Send to Me" or "Send to Home Folder". (Server Edition only.)
- "Send to Folder" delivery fails if multiple jobs are processed at the same time. (Server Edition only.)
- "Send to Folder" delivery stalls part way through processing.

(Server Edition only.)

Version 2.3.1.0

Fixed

- [RA Only] The Scan To Me or Send To Home Folder process fails when using the Image Log Capture Plug-in.
(Server Edition only)
- The Image Correction filter process encounters an error instead of skipping this process when the image file is not supported as an input file for the Image Correction filter.
(Server Edition only)
- Delivery is delayed because of repeated unnecessary attempts to access the domain controller by the Send to Folder Service.
- PDF is not displayed in the File Format settings and the PDF Converter filter is not displayed after installation.
(Server Edition only)
- Compressed TIFF format is converted to an uncompressed MMR format when using Auto Color Select in the Scan Type settings.
(Server Edition only)
- OCR language for Serverless OCR always uses the language specified as default in Project screen of Admin Tool.
(Serverless Edition only)
- The Barcode Plug-in process loops when it processes a job after redirection by the Flow Redirect filter.
(Server Edition only)
- The black belt enters the output data when using the Send to Printer service.
(Server Edition only)
- GSNX fails to deliver when a file format for Searchable PDF is input to the Image Converter filter.
(Serverless Edition only)
- File format types are not displayed in the Scan Setting Tab on the Operation Panel.
(Serverless Edition only)
- Scan Type changes are not reflected when changing to "Black & White: Text/Photo" from other types.
- Synchronization to MFPs will fail when performed on more than 10 devices at the same time.
- Memory leaking occurs when GSNX fails to write logs to system log files.
- Unable to log in to the GlobalScan NX AdminTool after a scheduled backup is performed.
- A string with parenthesis ("(" and ")") is redundantly registered to a Replacement Table when the Auto Entry and Using Regex option is enabled.
- An unnecessary folder is made in the GSNX install folder when the GSNX Windows service is restarted.
(Server Edition only)
- The "bin\DPL" folder is not deleted when GSNX is uninstalled.
(Server Edition only)
- User will fail to log in to a project with GSNX ACL settings if the user belongs to a group that has special characters ("@" and ",") in its group name.

- The FTP plugin continuously waits for a reply from FTP Server.
- In environments where GSNX and CAP v2 are installed on an MFP, Send to Email will fail.
(Serverless Edition only)
- JavaVM crashes when the starting day of summer time is input to the metadata on a device with the summer time setting configured.
- A beep sound is not made when pressing down the # button on a device when using "Mixed Batch" setting as the scan method.
- Update installation fails because of a failure to access the RDPCOMIF.exe file.
(Server Edition only)
- The value of the page count is always set as 1 when creating a PDF (OCR scanned, multi-page) or High Compression PDF (OCR scanned, multi-page) file by using a device's OCR function.
(Serverless Edition only)
- Job logs are not displayed on the device panel when a user logs in to the project via single sign on with CAP v2.
(Server Edition only)
- Unselected devices are imported when using the Export Device List function.
- Unspecified profiles or projects are imported when using the Import Device List function.
- It is not possible to select the "OK" button when the selected profile does not have a one-touch scan project.
- When displaying the edit screen of a registered device from the Device List, "Yes" is always selected in User Scanner function regardless of the set value.

Other

- The PDF Stamper filter is supported.
(Server Edition only)
- The OCR and PDF Converter filters support Traditional Chinese as an OCR language.
(Server Edition only)
- The timeout for the OCR process has been adjusted.
(Server Edition only)
- 3 additional OCR languages (Arabic/Vietnamese/Hebrew) have been added in Enhanced PDF Converter plug-in by activating this option.
(Server Edition only)
- Traditional Chinese can be added as a supported language.
- A6 Landscape size can be used as a paper scan size.
- Custom Size can be used as a paper scan size.
- It is possible to select if preview is enabled by default.
- "Mixed Original Sizes" is supported by GSNX on MP 301 and MP C305.
- If using Secondary Delivery Server Settings, Administrators can be informed if the server used for delivery has changed to the secondary server from the primary server.
- Regarding the number of replacement table entries, the max entries for 1 table has been changed to 700 entries from 500 entries, and the max entries for the total number of entries for all tables has been changed to 5000 entries from 2000 entries.
- The PDF Converter (Enhanced) filter supports a deskew function.
(Server Edition only)
- Traditional Chinese was displayed in the OCR language list as a

default in the PDF Converter (Enhanced) filter.

(Server Edition only)

- The compression format has been changed from CITT4 to JBIG2 when PDF Converter(Enhanced) compresses a black and white type file. (Server Edition only)
- Required free space on the drive has been changed to 2GB when installing the GSNX application.
- Activation as Business server or Business server light is supported when GSNX Server Edition is installed on a client OS (Windows 7/8/8.1). (Server Edition only)
- The IIS web service log has been rotated.
- The Send to Folder packet size has been made larger.
- [ConfigUtil Tool] Skip Service-Select view when there is only one service used in the project after inputting metadata.
- [ConfigUtil Tool] The timeout value between the GSNX AdminTool and GSNX server can be changed.
- [ConfigUtil Tool] Change the packet size when GSNX performs "Send To Folder"

Version 2.2.1.0

1)Supported:

- RICOH MP C401/C401SR is added to supported device models.
- RICOH MP 2554/3054/3554/4054/5054/6054 is added to supported device models.

2)Fixed:

1. When trying to direct jobs to another project by using the Flow Redirector filter in a GlobalScanNX v2.2 environment, the delivery of scanned documents with the Image Converter filter or PDF convertor filter process may fail in the branched workflow.
2. When performing a synchronizing process with GlobalScanNX v2.2 on multiple load balance servers with GlobalScanNX v2.2 installed, synchronization to the second or later servers will fail.

Others:

None

Version 2.2.0.0

1) Supported

- RICOH MP 2553/3053/3353/DSm1525/DSm1530/DSm1533/N405/N406/N407 is added to supported device models.
- RICOH MP Pro 8100S/8110S/8120S is added to supported device models.
- RICOH MP C2003/C2503/DSc1020/DSc1025 is added to supported device models.
- Windows Server 2012 R2 Datacenter / Standard (64-bit)
- Support for Windows 8.1 Enterprise / Pro (32-bit/64-bit) (Serverless Edition Only)

2) Fixed

- Memory leak occurs when the image correction filter is used in 32-bit environments (Server Edition only).
- The archiving process may fail when the archiver filter is used for multiple jobs (Server Edition only).
- "Auto Color Select" configured to be undisplayed via the Admin Tool is displayed on the device operation panel.
- The paper size may be mistaken as "8 1/2*11" size if GSNX delivers a fax document which is A4 size via Send To Printer (Server Edition only).
- Delivery fails if changing the delivery flow for a project with Image Converter and PDF Converter (Server Edition only).
- The scanned job is missing pages or has another job's page if a large document set is handled in a process flow with the Image Correction filter (Server Edition only).
- JavaVM may crash when any of the following filters are used for a long time in 64-bit environments (Server Edition Only):
 - OCR filter, PDF Converter filter, or Image Converter filter.
- Needless files from old versions will be deleted during an update installation.
- LDAP authentication fails if a special character such as "=", "\", or "" is included in the DN.
- Downloading error jobs is unavailable when multiple error jobs are selected on the Error Queue screen (Serverless Edition only).
- Checkbox number counter values in plug-in configurations cannot be updated correctly.
- If failover is used, accessing the job log from a device will be unavailable when the priority server cannot be reached (Server Edition only).
- The login user cannot be logged out automatically when there are no operations conducted after scanning.
- When scanning with a large manuscript set including color papers via "Auto Color Select", color pages will be registered to unintentional pages.
- If using the Barcode plugin, the PDF Converter filter may not convert the scanned document to a PDF file (Server Edition only).

3) Other

- [ConfigUtil Tool] GSNX uses NTLM authentication forcibly when performing Send To Folder.
- [ConfigUtil Tool] Possible to output detailed JCIFS log data on Send To Folder.
- GSNX Serverless Edition supports the OCR scanned PDF file format if using devices with an optional OCR function (Serverless Edition Only).
- Possible to specify multiple LDAP entries for displaying when searching for an email address on Send To Email or Send To Exchange.
- [ConfigUtil Tool] Possible to display a prompting message for restarting the GlobalScan service after applying the ConfigUtil tool if restarting the GlobalScan service is required.
- [ConfigUtil Tool] Possible to change the protocol used for Kerberos authentication from UDP to TCP only.
- [ConfigUtil Tool] Possible to retrieve the backed up job folders via the Batch Download Logs function).

- GSNX supports creating a self-signed certificate in the "SSL Setting Tool" if the built-in web server are used.
- Device administrator has been added and it is possible for multiple device administrators to log in to the "Management Tool" simultaneously.
- Possible to search for registered devices on a devices list screen.
- Possible to save a custom metadata configured with no value in a data field via the Admin Tool.
- [ConfigUtil Tool] Possible to make the login user log out automatically when a certain of idle time is passed.
- The image compression type is changed from JBIG2 to CCITT4 if the compression function is enabled in the Enhanced PDF Converter (Server Edition only).
- [ConfigUtil Tool] Enables RTF, XLS, XLSX, and DOCX selection on the "Scan Settings" tab via the device operation panel.
- [ConfigUtil Tool]The login process starts immediately after the user enters a password for 4-line LCD models.
- "xlsx" and "docx" file formats has been added for when the OCR plugin converts file formats.
- The following languages have been supported:
Danish, Portuguese, Norwegian, Russian

Version 2.1.3.0

Fixed:

- Failed to retrieve or deliver the home folder data under the environment with "/" in OU name.
- Double delivery of documents in some environments with Section Splitter filter or Barcode Separator filter configured in front of Send to Folder service. (Server Edition Only)
- Processing for Image Correction takes a long time for the GSNX 64-bit. (Server Edition Only)
- When there is illegal data included in the folder delivery path, an impertinent log will be recorded in the system log even though the delivery is successful.
- The creation of a searchable PDF with Chinese text fails when tsize division is used for the Send to Email service. (Server Edition Only)
- When using external authentication, if logout is conducted via the device logout key, the application stops. (Server Edition Only)
- LDAP servers that only support SSL connections fail to connect via SSL (StartTLS).
- Login fails when performing AD authentication for a user ID that is registered to other groups with other domains to a project with ACL configured.

Other:

- [ConfigUtil Tool] Screen transition to other applications is available when the logout button in a project screen is pushed.
- [ConfigUtil Tool] When cooperating with Ringdale, the login process starts automatically as long as card-authentication is successful.
- [ConfigUtil Tool] The process of logging out from project will be performed automatically after Scanning finishes.
- [ConfigUtil Tool] The maximum pages that can be created for a

multi-page PDF with PDF convertor filter will be 500 (Serverless Edition only).

- [ConfigUtil Tool] The maximum pages that can be created for a multi-page Tiff with Image Convertor filter will be 500 (Serverless Edition only).
- [ConfigUtil Tool]SSL connection can be used without a Site certificate imported.
- [ConfigUtil Tool]Automatic synchronization and automatic restarting of the GlobalScan service for Secondary or Load Balance server is enabled (Server Edition Only).
- PDF Convertor (Enhanced) filter has been added (Server Edition Only).
- Support for Windows Server 2008 R2 Datacenter.
- The following languages can be chosen as the OCR languages used for OCR filter and PDF convertor filter: Danish, Portuguese, Norwegian, Russian and Chinese(Server Edition Only).
- Chinese has been added to the supported languages.
- The time taken between when a request for device reboot is sent and when the rebooting is started via an external application is shortened.

Update the Java VM to the latest version before installing this update.

Version 2.1.2.0

Supported:

- GlobalScan NX now supports the following devices:
MP CW2200
MP 2001 / 2501 / DSm1020 / DSm1025

Fixed:

- NTLM authentication is not performed after a failed Kerberos authentication when using search for folders if "Use the ticket received on Kerberos authentication as the priority" is set in the Kerberos option.
- GSNX does not complete the timeout process correctly when a destination server does not respond during the Send to Folder delivery process.
- Two-byte characters may display incorrectly in Report notifications (Server Edition only).
- Kerberos options cannot be enabled when using GSNX Server Edition trial version on Windows Server 2008R2 (Server Edition Only).
- If the time on the server has been changed immediately after performing the Report notification, GSNX does not perform the Report notification on the following day (Server Edition only).
- The GSNX embedded application does not work on the following devices:
Aficio MP 6001 / 7001 / 8001 / 9001
- Send to Home Folder and Send to Me fail on certain device models if LDAPS is set in the LDAP authentication profile (Serverless Edition only).
- Search for email address fails on certain device models if LDAPS is set in the Send to Email service (Serverless Edition only).
- Temporary files in the Windows temporary folder (typically, "C:\Temp\RDPOCR\") on the HDD output by GlobalScan NX

OCR process are automatically deleted.

Other:

- Users can now change their username if they fail to log into a project with SSO.
- AdminTool support for Windows 7 Ultimate / Enterprise / Professional Edition (64-bit) (Serverless Edition only).
- Support for Windows Server 2012 Datacenter / Standard (64-bit).
- AdminTool support for Windows 8 Enterprise / Pro (32-bit / 64-bit) (Serverless Edition only).
- ConfigUtil can allow GSNX to try and fit a non-standard PDF page size onto a GSNX-supported standard size (Server Edition only) (ConfigUtil).
- ConfigUtil can allow GSNX to display a "Scan Settings" shortcut icon at the top of every GSNX screen on the operation panel (ConfigUtil).
- Built-in Web Server Intermediate Certificate Chain Support.
- The maximum file size for Email Division has been raised from 10000KB to 100000KB.
- ConfigUtil can allow GSNX to perform auto-logout even when the device is waiting for input or displaying a scan preview (ConfigUtil).
- ConfigUtil can allow GSNX to start the login process immediately after the user enters a password (presses the "OK" button on the Software Keyboard) (ConfigUtil).

Version 2.1.1.0

Fixed:

- The Kerberos option is not enabled when using the 64-bit version of the AdminTool (Serverless Edition Only).
- Creating a subfolder on a Domain-based DFS system causes Send to Folder delivery to fail.
- Fax delivery sometimes fails for certain device models.
- Enabling an Image Correction plug-in function enables all Image Correction functions for the GSNX 64-bit version (Server Edition Only).

Others:

- GSNX now attempts a retry when fax data reception fails.
- A job queue and delivery service status report for administrators has been added (Server Edition Only).

Version 2.1.0.0

Supported:

- GlobalScan NX V2.1.0 now supports the following devices:
Aficio MP 6002 / Aficio MP 7502 / Aficio MP 9002

Fixed

- A communication error can occur when using Internet Information Service (IIS) as GlobalScan NX's webserver.
- Authentication Profiles are not imported correctly when a Profile is imported to GlobalScan NX.

- The email format used by Send to Email does not conform to certain RFC standards.
- Scanning output is rotated when the Original Orientation setting is hidden on the Scan Settings Screen.
- Some PNG files would cause an error in the image processing library.
- User login may unexpectedly fail if the Authentication Profile uses LDAPS.
- Barcode output may be garbled if the code includes SJIS characters.
- Users may be unable to log in to a Project after a Profile is synchronized to multiple devices at the same time.
- The GlobalScan NX HotFolder Plug-in Folder Monitor Setting Tool is not displayed in Chinese when using a Chinese OS (China Edition Only).

Others:

- Each GSNX SDK application now supports an independent server priority in a failover environment (Server Edition Only).
- The sharing of Load Balance Servers is now possible in a failover environment (Server Edition Only).
- The Section Splitter filter has been added to divide a job into the configured sections (Server Edition Only).
- A new Auto Color Select feature has been added to the Scan Type setting.
- The OCR mode can now be selected using the GlobalScan NX AdminTool (Server Edition Only).
- The Auto Delete Errored Jobs setting has been added to delete error jobs stored on the device (Serverless Edition Only).
- 1 job may now be redirected up to 10 times using Flow Redirector filters.
- The destination path is now displayed in the job description when the job succeeds.
- The GSNX SDK application can now connect to a target GSNX AdminTool for self-synchronization as long as the SDK application has no Profile.
- 2048-bit key length SSL certificates are now supported.
- Serverless Edition now can use the scheduled backup function (Serverless Edition Only).

Version 2.0.1.0

Supported:

GlobalScan NX now supports the following devices:

Aficio MP 301

Aficio MPC 305/DSc530

Fixed:

The OCR Filter, PDF Converter, Image Converter consume more of GlobalScan NX's memory than is necessary (Server Edition).

Version 2.0.0.0

Initial Release

=====
*** Basic Information ***
=====

[Create date] 2018/07/05

[Program Name] RICOH Streamline NX Client Tool

[Version] 1.4.6.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) USA(all)

[Firmware No.] D6399908M

[File Information]

File Name D6399908M-P01.zip

File Type Module for Service

Size 110.71 MB (116086229 byte)

[File Information]

File Name D6399908M-P02.zip

File Type Module for Service

Size 104.25 MB (109309943 byte)

[Availability of RFU] No

[Production reflection]

=====
*** Note ***
=====

[Note]

=====
*** Important Notes ***
=====

[Important Notes]

=====
*** Modification History ***
=====

[Modifications made:]

Rank C

Other:

The followings have been conducted to strengthen the security.

- Deleted unnecessary Web API
- Added HTTP Disable setting to Web API for the communication with SPME
- Disabled the remote access to Web API for internal communication
- Added key parameters to Web API for internal communication
- Changed the method to generate encryption keys
- Upgraded versions of OSS (HttpClient, Jetty, JRE(u162))
- Changed the timing to generate the folders under "configuration" folder so that these folders are regenerated at every time PC Client Tool starts
- Changed the access authorities for "configuration/config.ini" so that users can only read
- Changed the process name to "javaw.exe"
- Modified the auto update function in connection with the process name change above

[Modification history]

Version V1.4.2.0

Specification Change:

Client Tool

-Supported SMB V3

Error Correction:

Client Tool

- Fixed the bug which the Spooler sometimes fails to start.
- Fixed the bug which the Spooler dependency sometimes fails to exist.

Version 1.4.1.0

Supported:

- Client Secure Print supports PS Driver for Universal Print.
- Support for selecting the maximum number of Secondary servers.
- Auto Delete Stored Jobs function has been improved.
- When the Client Tool finds wording surrounded %-% in the Server Name or Base DN, the Client Tool corresponded environmental variable will be used for the Server Name or Base DN.
- Disable the failover function when connecting to an alternative server to get the preference settings.
- Changed the management of the Keystore password to increase security.
- Client Secure Print Support for the same named user in multiple domain environments.

Fixed:

- Fails to spool print jobs that have empty job names.
- Many desktop Agent icons are displayed in the task tray.

Application versions included in this release:

RICOH Streamline NX Client Tool V1.4.1.0
RICOH Streamline NX Client Secure Print V1.4.1.0
RICOH Streamline NX Client Delegation Print V1.3.0.0
RICOH Streamline NX Client Accounting V1.3.0.0

Version 1.3.2.0

Supported:

- The domain name for the client PC can be specified in a properties file.

Fixed:

- If a user prints a job from the application after it is started with "Run as administrator", storing print jobs on the client PC will fail.

Other:

- If the client tool fails to start properly, the print spooler will be restarted automatically (the retry limit is 15 times). When the retry limit is reached, an error message ("RICOH Streamline NX Client Tool could not be started correctly. Please restart your computer.") will be displayed.

Application versions included in this release:

RICOH Streamline NX Client Tool V1.3.2.0
RICOH Streamline NX Client Secure Print V1.3.2.0
RICOH Streamline NX Client Delegation Print V1.3.0.0
RICOH Streamline NX Client Accounting V1.3.0.0

Version 1.3.0.0

Supported:

- Client Secure Print
"Confirmation of communication validity" function is added.

Version 1.2.2.0

Fixed:

- If the Desktop Agent UX task tray icon is clicked several times, there is possibility that Desktop Agent UX will stop.
- If a PC has multiple network adapters (including virtual network adapters), when using "Store in Client PC (Do not use SPM Server)" or "Store in Client PC (Use SPM Server)", "Print Error xx job(s) The following servers are unavailable. Please try again later." error message may appear when selecting a print job on the device operation panel.

Version 1.2.1.0

Other:

- Print jobs stored on Client PCs are made more secure via the following security enhancements:
 1. Encryption scheme
 2. Files names that are hard to guess
- Document names can be masked when E2EE is used.
- The "Everyone" access privilege has been removed from the program installation folders.

Version 1.2.0.0

Supported:

1. Store in Client PC (Do not use SPM Server) is supported.
2. Store in SPM Server is supported.

Other:

1. Rule Base Print is not supported.
2. Roaming Print is supported.
3. When using Client Secure Print via the standard TCP/IP port or USB, logs will be registered to AAM-S.
4. When using the following functions, the PKI module is required.
 - Kerberos authentication (Store in Client PC (Do not use SPM Server))
 - Print data encryption (Store in Client PC (Do not use SPM Server)/Store in SPM Server)
 - End to End Encryption (Store in SPM Server)

Version 1.0.2.0

Fixed:

If using the SLNX Client Tool's "Schedule Processing Settings (Job Storage period [day(s)])" function after the SLNX Client Tool has been restarted, the "Schedule Processing Settings (Job Storage period [day(s)])" function will not be executed correctly.

Version 1.0.1.0

Supported:

- Windows 8.1 is supported.

Fixed:

- Ricoh Streamline NX Client Tool batch installer fails if the installation destination folder is changed from the default path (Install folder and Data folder).
- After applying an export file via remote settings, a warning mark is displayed in the user name field of the management menu window and a user name cannot be input.

This occurs when an export file is exported with an empty value in the user name field of the management menu window and "Force Value" is selected in administrator mode.

- Messages do not fit in the window when the OS font size is changed.
- Settings are not applied when a custom installer is executed after changing the "Data folder" of the install destination from the default path.

Version 1.0.0.0

Initial Release

RICOH Streamline NX Client Tool is for StreamlineNX v2.2.0.0.

Previous versions do not support it.

=====
*** Basic Information ***
=====

[Create date] 2018/07/05

[Program Name] RICOH Streamline NX Client Tool

[Version] 1.4.6.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) ASI_EUR(all)

[Firmware No.] D6399909M

[File Information]

File Name D6399909M-P01.zip

File Type Module for Service

Size 110.71 MB (116085507 byte)

[File Information]

File Name D6399909M-P02.zip

File Type Module for Service

Size 104.25 MB (109308994 byte)

[Availability of RFU] No

[Production reflection]

=====
*** Note ***
=====

[Note]

=====
*** Important Notes ***
=====

[Important Notes]

=====
*** Modification History ***
=====

[Modifications made:]

Rank C

Other:

The followings have been conducted to strengthen the security.

- Deleted unnecessary Web API
- Added HTTP Disable setting to Web API for the communication with SPME
- Disabled the remote access to Web API for internal communication
- Added key parameters to Web API for internal communication
- Changed the method to generate encryption keys
- Upgraded versions of OSS (HttpClient, Jetty, JRE(u162))
- Changed the timing to generate the folders under "configuration" folder so that these folders are regenerated at every time PC Client Tool starts
- Changed the access authorities for "configuration/config.ini" so that users can only read
- Changed the process name to "javaw.exe"
- Modified the auto update function in connection with the process name change above

[Modification history]

Version 1.4.2.0

Specification Change:

Client Tool

-Supported SMB V3

Error Correction:

Client Tool

- Fixed the bug which the Spooler sometimes fails to start.
- Fixed the bug which the Spooler dependency sometimes fails to exist.

Version 1.4.1.0

Supported:

- Client Secure Print supports PS Driver for Universal Print.
- Support for selecting the maximum number of Secondary servers.
- Auto Delete Stored Jobs function has been improved.
- When the Client Tool finds wording surrounded %-% in the Server Name or Base DN, the Client Tool corresponded environmental variable will be used for the Server Name or Base DN.
- Disable the failover function when connecting to an alternative server to get the preference settings.
- Changed the management of the Keystore password to increase security.
- Client Secure Print Support for the same named user in multiple domain environments.

Fixed:

- Fails to spool print jobs that have empty job names.

- Many desktop Agent icons are displayed in the task tray.

Application versions included in this release:

- RICOH Streamline NX Client Tool V1.4.1.0
- RICOH Streamline NX Client Secure Print V1.4.1.0
- RICOH Streamline NX Client Delegation Print V1.3.0.0
- RICOH Streamline NX Client Accounting V1.3.0.0

Version 1.3.2.0

Supported:

- The domain name for the client PC can be specified in a properties file.

Fixed:

- If a user prints a job from the application after it is started with "Run as administrator", storing print jobs on the client PC will fail.

Other:

- If the client tool fails to start properly, the print spooler will be restarted automatically (the retry limit is 15 times). When the retry limit is reached, an error message ("RICOH Streamline NX Client Tool could not be started correctly. Please restart your computer.") will be displayed.

Application versions included in this release:

- RICOH Streamline NX Client Tool V1.3.2.0
- RICOH Streamline NX Client Secure Print V1.3.2.0
- RICOH Streamline NX Client Delegation Print V1.3.0.0
- RICOH Streamline NX Client Accounting V1.3.0.0

Version 1.3.0.0

Supported:

- Client Secure Print
"Confirmation of communication validity" function is added.

Version 1.2.2.0

Fixed:

- If the Desktop Agent UX task tray icon is clicked several times, there is possibility that Desktop Agent UX will stop.
- If a PC has multiple network adapters (including virtual network adapters), when using "Store in Client PC (Do not use SPM Server)" or "Store in Client PC (Use SPM Server)", "Print Error xx job(s) The following servers are unavailable. Please try again later." error message may appear when selecting a print job on the device operation panel.

Version 1.2.1.0

Other:

- Print jobs stored on Client PCs are made more secure via the following security enhancements:
 1. Encryption scheme
 2. Files names that are hard to guess
- Document names can be masked when E2EE is used.
- The "Everyone" access privilege has been removed from the program installation folders.

Version 1.2.0.0

Supported:

1. Store in Client PC (Do not use SPM Server) is supported.
2. Store in SPM Server is supported.

Other:

1. Rule Base Print is not supported.
2. Roaming Print is supported.
3. When using Client Secure Print via the standard TCP/IP port or USB, logs will be registered to AAM-S.
4. When using the following functions, the PKI module is required.
 - Kerberos authentication (Store in Client PC (Do not use SPM Server))
 - Print data encryption (Store in Client PC (Do not use SPM Server)/Store in SPM Server)
 - End to End Encryption (Store in SPM Server)

Version 1.0.2.0

Fixed:

If using the SLNX Client Tool's "Schedule Processing Settings (Job Storage period [day(s)])" function after the SLNX Client Tool has been restarted, the "Schedule Processing Settings (Job Storage period [day(s)])" function will not be executed correctly.

Version 1.0.1.0

Supported:

- Windows 8.1 is supported.

Fixed:

- Ricoh Streamline NX Client Tool batch installer fails if the installation destination folder is changed from the default path (Install folder and Data folder).
- After applying an export file via remote settings, a warning mark is displayed in the user name field of the management menu window and a user name cannot be input.

This occurs when an export file is exported with an empty value in the user name field of the management menu window and "Force Value" is selected in administrator mode.

- Messages do not fit in the window when the OS font size is changed.
- Settings are not applied when a custom installer is executed after changing the "Data folder" of the install destination from the default path.

Version 1.0.0.0

Initial Release

RICOH Streamline NX Client Tool is for StreamlineNX v2.2.0.0.

Previous versions do not support it.

=====
***** Basic Information *****
=====

[Create date] 2019/04/18

[Program Name] DWG Opt Installer 2019

[Version] 1.00

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)

[Firmware No.] D5766819

[File Information]

File Name D5766819.zip

File Type Module for Service

Size 83.56 MB (87613769 byte)

[Availability of RFU] No

[Production reflection] 1st Mass Production

=====
***** Note *****
=====

[Note]

=====
***** Important Notes *****
=====

[Important Notes]

=====
***** Modification History *****
=====

[Modifications made:]

Rank C

Other changes:
AutoCAD 2019 supported.

[Modification history]

=====
*** Basic Information ***
=====

[Create date] 2017/12/22

[Program Name] CVM Package

[Version] 2.7.2.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] Exist

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D6399901O

[File Information]

File Name D6399901O.zip

File Type Module for Service(Over 1GByte File .zip/.exe)

Size 1,705.59 MB (1788442810 byte)

Check Sum -8Bit Sum: 0F36

-16Bit Sum(Little Endian): CF25

-16Bit Sum(Big Endian): 7611

[Availability of RFU] No

[Production reflection]

=====
*** Note ***
=====

[Note]

=====
*** Important Notes ***
=====

[Important Notes]

=====
*** Modification History ***
=====

[Modifications made:]

Rank C

Supported:

- This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.
- Please apply a later version of the CVM package if the same supported models are listed amongst different CVM packages.
- VM downgrade limitation
DO NOT downgrade a 15S or later device that has VM v12.31.00 or later to an earlier VM version using a CVM package. If a downgrade is performed, the VM will crash afterwards. In such a case, please perform an overwrite installation of VM v12.31.00 or later.

V4.30.00 -----

<CVM Package>

- rxopCVM4.30.00v1.zip

<support model>

- Aficio MP C6000
- Aficio MP C7500
- Aficio MP 4000/4000B
- Aficio MP 5000/5000B
- Aficio MP 2550/2550B
- Aficio MP 3550/3550B
- Aficio MP 4001
- Aficio MP 5001
- Aficio MP 2851
- Aficio MP 3351
- Aficio MP C4000
- Aficio MP C5000
- Aficio MP C2800
- Aficio MP C3300
- Aficio MP C2050
- Aficio MP C2550
- Aficio SP 8200DN

V5.19.00 -----

<CVM Package>

- rxopCVM5.19.00v1.zip

<support model>

- Aficio MP 6001
- Aficio MP 7001
- Aficio MP 8001
- Aficio MP 9001
- Aficio SP C820DN
- Aficio SP C821DN
- Aficio SP 6330N

V7.23.00 -----

<CVM Package>

- rxopCVM7.23.00v1.zip

<support model>

- Aficio MP C4501
- Aficio MP C4501A
- Aficio MP C5501
- Aficio MP C5501A
- Aficio MP C3001
- Aficio MP C3501
- Aficio MP C2051
- Aficio MP C2551
- Aficio MP C6501
- Aficio MP C7501
- Aficio MP C300
- Aficio MP C400
- Aficio MP W2401
- Aficio MP W3601
- Aficio SP C430DN
- Aficio SP C431DN
- Aficio SP C320DN
- Aficio SP 5200DN
- Aficio SP 5210DN
- Aficio SP 4310N
- Aficio MP 2352
- Aficio MP 2852
- Aficio MP 3352

V7.24.00 -----

<CVM Package>

- rxopCVM7.24.00v1.zip

<support model>

- Aficio SP 5200S
- Aficio SP 5210SF
- Aficio SP 5210SR

V10.26.01 -----

<CVM Package>

- rxopCVM10.26.01v1.zip

<support model>

- Aficio MP 4002
- Aficio MP 5002
- Aficio MP C4502
- Aficio MP C4502A
- Aficio MP C5502
- Aficio MP C5502A
- Aficio MP C3002
- Aficio MP C3502
- Aficio MP 6002
- Aficio MP 7502

- Aficio MP 9002
- MP CW2200
- MP 2001
- MP 2501
- Aficio MP C305
- Aficio MP 301
- Aficio SP 8300DN
- Aficio SP C830DN
- Aficio SP C831DN

V11.38.01-----

<CVM Package>

- rxopCVM11.38.01v1.zip

<support model>

- Aficio MP 2553
- Aficio MP 3053
- Aficio MP 3353
- Aficio SP C730DN
- IPSiO SP C730
- IPSiO SP C731
- MP C1803
- MP C2003 SP/MP C2003Z SP
- MP C2503 SP/MP C2503Z SP
- MP C2503/MP C2503Z SPF
- MP C3003/MP C3003Z
- MP C3003/MP C3003Z
- MP C3503/MP C3503Z
- MP C3503/MP C3503Z
- MP C4503/MP C4503Z
- MP C4503/MP C4503Z
- MP C5503/MP C5503Z
- MP C5503/MP C5503Z
- MP C6003/MP C6003
- MP C6003/MP C6003Z
- MP C6502 SP
- MP C6502 SP
- MP C8002 SP
- MP C8002 SP
- Pro 8100S
- Pro 8100S
- Pro 8110
- Pro 8110S
- Pro 8110S
- Pro 8110Y/Pro 8110HT
- Pro 8120
- Pro 8120S
- Pro 8120S
- Pro 8120Y/Pro 8120HT
- SP 4500
- SP 4510
- SP 4510DN
- SP 4510SF/MP 401 SPF
- SP 4510SF/MP 401 SPF

- SP 4520DN
- SP 6410
- SP 6420/SP 6420M
- SP 6430/SP 6430M
- SP 6430DN
- SP 6440/SP 6440M
- imagio MP 2553
- imagio MP 3353

V12.46.01 -----

<CVM Package>

- rxopCVM12.46.01v2.zip

<support model>

- MP W7100R/MP W7100TR
- MP W7100SP
- MP W8140R/MP W8140TR
- MP W8140SP
- Pro C7100/Pro C7100X
- Pro C7100S
- Pro C7100S/Pro C7100SX
- Pro C7110
- Pro C7110/Pro C7110X
- Pro C7110S
- Pro C7110S/Pro C7110SX

V12.49.00 -----

<CVM Package>

- rxopCVM12.49.00v1.zip

<support model>

- MP C306Z SP / MP C306Z SPF
- MP C406Z SP / MP C406Z SPF

V12.50.01 -----

<CVM Package>

- rxopCVM12.50.01v1.zip

<support model>

- MP 6503
- MP 6503
- MP 7503
- MP 7503
- MP 9003
- MP 9003

V12.51.01 -----

<CVM Package>

- rxopCVM12.51.01v1.zip

<support model>

- MP 402
- MP CW1201
- MP CW2201

V12.52.00 -----

<CVM Package>

- rxopCVM12.52.00v1.zip

<support model>

- SP 5300
- SP 5310
- SP C331
- SP C333
- SP C334DN
- SP C340
- SP C341
- SP C342
- SP C342
- SP C750
- SP C751
- SP C840
- SP C840DN
- SP C841
- SP C842DN

V12.53.01 -----

<CVM Package>

- rxopCVM12.53.01v1.zip

<support model>

- MP 501
- MP 601
- MP C2004/MP C2094
- MP C2504
- MP C2504/MP C2594
- MP C3004
- MP C3004
- MP C307
- MP C307
- MP C3504
- MP C3504
- MP C407
- MP C4504
- MP C4504
- MP C5504
- MP C5504
- MP C6004
- MP C6004

V12.54.00 -----

<CVM Package>

- rxopCVM12.54.00v1.zip

<support model>

- MP 2555
- MP 2555
- MP 305

- MP 305
- MP 3055
- MP 3555
- MP 3555
- MP 4055
- MP 4055
- MP 5055
- MP 6055
- MP 6055
- MP C307
- MP C401
- MP C6503
- MP C6503
- MP C8003
- MP C8003
- Pro C5200S
- Pro C5200S
- Pro C5210S
- Pro C5210S
- SP C440DN

[Modification history]

Version 2.7.0.0

- This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.
- Please apply a later version of the CVM package if the same supported models are listed amongst different CVM packages.
- VM downgrade limitation
DO NOT downgrade a 15S or later device that has VM v12.31.00 or later to an earlier VM version using a CVM package. If a downgrade is performed, the VM will crash afterwards. In such a case, please perform an overwrite installation of VM v12.31.00 or later.

Please refer to RTB for details.

Version 2.6.2.0_(2)

- This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.
- Please apply a later version of the CVM package if the same supported models are listed amongst different CVM packages.
- VM downgrade limitation
DO NOT downgrade a 15S or later device that has VM v12.31.00 or later to an earlier VM version using a CVM package. If a downgrade

is performed, the VM will crash afterwards. In such a case, please perform an overwrite installation of VM v12.31.00 or later.

- Java VM v12.40.00 includes the fix for the Java VM verification expiration problem. For details about this problem, please see the following GK.

"FAQID:170628 Support Phase: Streamline NX" (Known Issue -> [2016/8/10] Streamline NX: Certificate for specific Java VM version expires.)

Important:

If the ADM version is v2.5.x or earlier, the required certificate should be imported into ADM when installing Java VM v12.40.00 to an MFP.

Because ADM v2.5.x or earlier conducts certificate validation, if the required certificate is not imported into ADM, the certificate validation process will fail in cases such as when applying "Device Preferences". Because ADM v2.6.0 or later does not conduct certificate validation, the import operation is not required.

The required certificate will be attached to the GK in October 2016.

Please refer to RTB for details.

Version 2.6.2.0

- This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.
- Please apply a later version of the CVM package if the same supported models are listed amongst different CVM packages.

- Limitation of VM downgrade
DO NOT downgrade a 15S or later device that has VM v12.31.00 or later to an earlier VM version using a CVM package.
If a downgrade is performed, the VM will crash afterwards. In such a case, please perform an overwrite installation of VM v12.31.00 or later.

Please refer to RTB for details.

Version 2.6.0.0

We have modified the "CVM Package" file name information for V12.17.01 as follows.

V12.17.01 -----

<CVM Package>

Version 2.6.0.0

This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.

Please refer to RTB for details.

Version 2.5.0.0

This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.

Please refer to RTB for details.

Version 2.4.0.0

This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.

Fixed:

- It appears as if SLNX has disappeared from the device because the Java VM platform cannot boot. Then, the device displays SC990.
Corresponding VM versions:
V4.30.00/V5.19.00/V7.23.00/V10.20.05/V11.26.04

Other:

- The following VM version corresponds to SLNX for Smart Operation Panel models. Note that SLNX supports Cheetah compatibility mode since version 2.3.0.
V11.26.04
- The following VM versions corresponds to Host System Print.
V10.20.05/V11.26.04

Please refer to RTB for details.

Version 2.3.0.0_(2)

This package contains the latest RXOP versions of Java VM, which are

used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.

Fixed:

- It appears as if SLNX has disappeared from the device because the Java VM platform cannot boot.

Corresponding VM version:

v10.19/v11.24.02/v11.25.04/v12.06.01/v12.08.00

Other:

- The following VM versions corresponds to SLNX for Smart Operation Panel models.
v11.24.02/v11.25.04/v12.06.01/v12.08.00

- The following VM versions corresponds to Host System Print.

v10.19/v11.25.04

Please refer to RTB for details.

Version 2.2.0.0_(2)

This package contains the latest RXOP versions of Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.

Important: The problem with SDK application configurations disappearing after the device Java VM is updated has been fixed in the following Java VM versions. If the old device Java VM is updated, you must re-install the SDK applications and distribute the configurations again.

Please refer to RTB for details.

Version 2.2.0.0

This package contains the latest RXOP versions of the Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function.

Please see the standard Java VM release notes for a list of changes.

Please refer to RTB for details.

Version 2.1.2.0

This package contains the latest RXOP versions of the Java VM, which are used by RICOH Streamline NX Administration Manager's Java VM update function.

Please see the standard Java VM release notes for a list of changes.

Important: Aficio MP 4002 and Aficio MP 5002 are now supported in v10.13.06. 10.12.02 is no longer needed. 10.13.06v1 has been changed

to 10.13.06 and 10.12.02 has been removed.

Please refer to RTB for details.

Version 2.1.1.0

This package contains the latest RXOP versions of the Java VM, which are used by RICOH Streamline NX Administration Manager's Java VM update function.

Please see the standard Java VM release notes for a list of changes.

Important: Aficio MP 4002 and Aficio MP 5002 can not use the device Java VM V10.13.06. When the device Java VM V10.12.02 included in the package is updated remotely, the device Java VM and installed SDK applications does not restart automatically.

After the update, be sure to reboot the device by either of the following procedures:

- Manually reboot the device by using the hardware switch.
- Reboot the device with WIM (WIM -> Device Management -> Reset the Machine).
- Distribute the "Device Template" to the devices to overwrite the SNMP community name with the current value. A device reboot is always performed if the SNMP community name is updated.

NOTE: This problem affects only the device Java VM remote update process. The Java VM functionalities themselves do NOT have any problems. Thus, devices that already use Java VM v10.12 can be used as is without issue.

Please refer to RTB for details.

Version 2.1.0.0

This package contains the latest RXOP versions of the Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function.

Please see the standard Java VM release notes for a list of changes.

Important:

When the device Java VM V10.11.02 included in the package is updated remotely, the device Java VM and an installed SDK application does not restart automatically.

After the update, be sure to reboot the device by either of the following procedures:

- Manually reboot the device by using the hardware switch.
- Reboot the device with WIM (WIM -> Device Management -> Reset the Machine).
- Distribute the "Device Template" to the devices to overwrite the SNMP community name with the current value.

A device reboot is always performed if the SNMP community name is updated.

NOTE:

This problem affects only the device Java VM remote update process.

The Java VM functionalities themselves do NOT have any problems.

Thus, devices that already use Java VM v10.11 can be used as is without issue.

Please refer to RTB for details.

Version 2.0.0.0

This package contains the latest RXOP versions of the Java VM, which are used by RICOH Streamline NX Administration Manager's JavaVM update function. Please see the standard Java VM release notes for a list of changes.

Please refer to RTB for details.

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*** Basic Information ***
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[Create date] 2018/02/21

[Program Name] Group Destination Helper

[Version] 1.0.1

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D3CM5510A_forEDC

[File Information]

File Name D3CM5510A_forEDC.zip

File Type Module for Service

Size 0.85 MB (887979 byte)

[Availability of RFU] No

[Production reflection] 2018/02

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Other changes:

Supported the design for the seven-inch operation panel.

[Modification history]

Version 1.0.0

Initial release

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***** Basic Information *****
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[Create date] 2018/10/02

[Program Name] GSNX V2 SmartOperationPanel FullNative (for use with Remote Install Manager)

[Version] 2.5.2.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D4885210A_forEDC

[File Information]

File Name D4885210A_forEDC.zip

File Type Module for Service

Size 6.08 MB (6374363 byte)

[Availability of RFU] No

[Production reflection]

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***** Note *****

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[Note]

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***** Important Notes *****

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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Supported

- GSNX standard application(compatible) supports RICOH IM 350 / 430.

Fixed

- Using the Send To Home folder for browsing, searching, or delivery

fails under the following conditions:

- 1.Send to Home folder is performed.
- 2.Passwordless Authentication(Active Directory or LDAP) profile is enabled.
- 3.The login user is used as the authentication method.

Note:

This problem occurs regardless of the SMB protocol version.

- When a destination printer driver list is displayed on MFP for more than once, the list may not be updated properly.

Condition:

The cache information in Embedded application has been deleted.

- If auto delete is disabled, create the file fails at 1,000th syslog file rotation.
- The process for profile synchronization takes time or times out when the following conditions are met(Server Edition only).

1.Server Edition

2.Table settings for Medatada Converter have many entries which are added by Auto Entry function.

- Processing speed for screen transition has been improved when GSNX SOP Optimized application (Hybrid and Full-native) is used and when multiple default destination addresses are selected in the e-mail plugin.
- A job is not processed and moved to the Jobshelter if the job is submitted during backup operated by Admin Tool of GSNX Server.
(Server Edition only)
- You cannot synchronize profiles from the GSNX AdminTool to the SOP Optimized (Hybrid) application while copying is in progress.
- To avoid GSNX embedded application being stopped due to the loops of metadata replacements, the logic of metadata replacement has been changed.

Other

- The checkbox is added for the user to choose whether the barcodes after 2nd page should be read or not with multi-paged files.
When the checkbox is checked and barcode is not on the first page, the first barcode on the following pages is detected and the barcode information is stored in the metadata.
- Send to Folder plug-in supports SMB v2.0/v3.0 distribution.
Exceptions are full native application and 12S or earlier models.
- To avoid the memory being full, folder search function by Send To Folder times out if the process takes more than 30 seconds.

[Modification history]

Version 2.5.0.0

Rank C

Supported

- RICOH IM 350 / 430 is added to supported device model.

Others

- Send To Folder service supports to utilize SMB v2 or v3 by enabling "Enable Enhanced SMB Protocol"(Server Edition Only)
- .NET Framework 4.6 or later and Visual C++ Redistributable for Visual Studio 2015 are mandatory to use GSNX(Server Edition Only).
 - * When installing GSNXv2.5.0, Visual C++ Redistributable for Visual Studio 2015 will be automatically installed.
- Supports skipping the certificate validation process for SSL communication.

Fixed

- If you send a Result URL containing "?" in the value of metadata by the mail delivery service, "?" will be replaced with "% 3F". (Server Edition Only)
- In the Send To Mail service, the mail address specified for Bcc is included in the SMTP header of the mail delivered.
- If you specify a file name with two or more half-width spaces consecutively, an error occurs in the Image Correction filter.
- When the GSNX Embedded application is stopped or the device is powered off, you cannot delete the device registered in AdminTool.
- When a 10.1-inch profile converted from a WVGA profile created before GSNX v2.3.3 is synchronized with the device, scanning with preview ON fails with an unexpected error.

- If a project with Auto Color Select set to the initial value is used on a device that cannot use Auto Color Select, the rotation direction of the image becomes incorrect.
- If you operate the panel during automatic logout on a device synchronized with a WVGA or 4.3-inch profile, the operation panel becomes black and it cannot be operated.
- If you scan a large amount of data continuously on a 10.1-inch profile synchronized to devices, a "memory-full" error will occur.
- The correct device status is not displayed in the "Status" of "Device List" on GSNX AdminTool.
- The previous user's GSNX screen may be displayed for a moment if the current user logs in just after the previous user has logged out.
- With GSNX Optimized(Hybrid) Application, the GSNX screen flicks by transiting from another screen.
- The Profile's control ID will be incorrect if the profile contains more than ten projects and is then copied or converted.
- The job log processed in the load balance server is duplicated and displayed in AdminTool.(Server Edition Only)
- Fixed a vulnerability issue for application stack traces.

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*** Basic Information ***
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[Create date] 2018/03/19

[Program Name] RemoteInstallManagerEXP(ServiceMode)

[Version] 1.7.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)

[Firmware No.] D5351107A

[File Information]

File Name D5351107A.zip

File Type Module for Service

Size 6.91 MB (7250577 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Supported:

- It is possible to install a Full Native application to a device without JavaVM.
- It is possible to update pre-installed applications.
- * This function will be available after the network configuration on eDC server has been changed in April 2018.

Fixed:

- The message may be garbled when the Uninstall[Initialize] function is started.
- The incorrect message may be displayed on the "Confirm Software to Update" screen if Remote Install Manager runs on Windows 8.1.

[Modification history]

Version 1.6.1

Fixed:

- Offline uninstallation (Offline Operations -> Uninstall) fails with "ERR-008"

Version 1.6.0

Other:

- The "Install[1-visit course]"function has been added.
- Remote Install Manager provides the offline installation/activation function which can install/activate a software even if devices is located on local network and cannot connect to eDC server. Since Remote Install Manager v1.5.1 or earlier, it is necessary to visit a customer twice times during the offline operation process. New offline installation function added since v1.6.0 can install/activate a software by once time visit.

Important:

To get a license file for a target device from eDC before visit a customer site, it is mandatory to get a target device fs machine ID (device serial number) and product key. If the target device model supports both Standard operation panel and SOP operation panel, it is mandatory to get which operation panel type is attached on the target device. Because it is necessary to specify the operation panel type when Remote Install Manager get a license file from eDC.

- Remote Install Manager reboots a device if rebooting is required such as software installation or updating JavaVM etc.
- It is possible to reboots SOP panel by Remote Install Manager by remote since v1.6.0.

Version 1.5.1

Fixed:

- The number of licenses is not returned after the Uninstall [Initialize] function is performed.

Version 1.5.0

Other:

- The "Uninstall[Initialize]" function has been added. Uninstallation and deactivation of software from a device and the returning of the license file to the activation server will be performed even if any involved process fails due to an unusual installation condition.

For example, if the software has not been activated for any reason, Remote Install Manager will not perform the software uninstallation or return the license when using the existing "Uninstall" function because the deactivation process will fail.

In such a case, it is necessary to manually uninstall the software from Web Image Monitor or device operation panel and perform a forced deactivation from the activation server.

If using the Uninstall [Initialize], both the software uninstallation and the returning of the license to the activation server will be conducted.

Version 1.4.0

Fixed:

1. When Remote Install Manager is used to update the software on multiple devices and one device responds with an error, "ERR-08" will occur and updating will not be performed for all devices.
2. A status error will be displayed when a software update is unprocessed.

Other:

1. Support for online software uninstallation without a product key has been added.
2. Support for software selection when updating software has been added.
3. Windows 10 Home/Pro/Enterprise (both 32-bit and 64-bit) are now supported.

Version 1.3.0

Fixed:

1. The Remote Install Manager does not perform installation when selecting the "Re-execute Errored Operation" function.
2. The Remote Install Manager shuts down while an application is being installed.
3. An error message is not displayed in the Operation Result column via the Device List screen although the operation has failed.
4. The status in the Last Operation column is not updated after the "Update Software" function is performed.
5. "Unprocessed" is displayed in the Status column although the update process has failed.
6. The status in the Last Operation column is not displayed after application installation has failed.
7. The Remote Install Manager fails to perform "Update License" when using a specific license type.

Other:

1. The total size for the files that will be downloaded from the eDC-i system via the Internet will now be displayed.
2. It is now possible to reinstall an application without the

- product key that was used via the Internet.
3. Response speeds have been improved when the Remote Install Manager cancels adding a device.
 4. It is now possible to update only the firmware via the Internet by using the "Update Software" function.

Version 1.2.1

Specification change

1. Supports applications for Smart Operation Panel (SOP).
2. Supports hybrid applications consisting of software for Device-SDK and software for SOP.
3. Added "Software List" button which shows a list of software installed on devices registered in the Device List.
4. Added "Discover Devices" menu which searches and registers devices that support the eDC-i system from the sub network address range.

- Please refer to RTB (RICOH Technical Bulletin) in detail.

Version 1.1.5

Specification change:

1. Supports Windows 8.1(32bit/64bit*). *WOW64
2. Displays a screen to select whether or not to update the device firmware (Java VM), if update of the device firmware is required.

Version 1.1.4

1) Specification change

1. Supports Windows7 (32bit/64bit*), Windows8 (32bit/64bit*). *WOW64
2. The download speed (from the server) was increased.
3. The number of devices on which installation can be performed simultaneously was increased from 3 to 10.
4. Displays whether installation is possible for each device after the device is selected, and waits for user operation before initiating the installation.
5. Displays a list of the modules to be downloaded and waits for user operation before initiating the download from the server.
6. Detailed information is displayed for some internal processing tasks.
7. Animation is displayed during the installation of the device.
8. Other minor changes (Please refer to RTB for details).

Version 1.1.3

Symptom corrected:

Add the function to associate a selected ifu file with VM card of objective model

Version 1.1.2

Symptom corrected:

Messages that were displayed related to the ELP-NX v2 install or
uninstall manual process have been deleted.

Note: This is because the install and uninstall processes are now automatic.

Version 1.1.1

Initial release

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*** Basic Information ***
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[Create date] 2018/07/05

[Program Name] RICOH Streamline NX Client Tool without JRE

[Version] 1.4.6.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) USA(all)

[Firmware No.] D6399915

[File Information]

File Name D6399915-P01.zip

File Type Module for Service

Size 42.47 MB (44529925 byte)

[File Information]

File Name D6399915-P02.zip

File Type Module for Service

Size 40.01 MB (41955163 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Other:

The followings have been conducted to strengthen the security.

- Deleted unnecessary Web API
- Added HTTP Disable setting to Web API for the communication with SPME
- Disabled the remote access to Web API for internal communication
- Added key parameters to Web API for internal communication
- Changed the method to generate encryption keys
- Upgraded versions of OSS (HttpClient, Jetty, JRE(u162))
- Changed the timing to generate the folders under "configuration" folder so that these folders are regenerated at every time PC Client Tool starts
- Changed the access authorities for "configuration/config.ini" so that users can only read
- Changed the process name to "javaw.exe"
- Modified the auto update function in connection with the process name change above

[Modification history]

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*** Basic Information ***
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[Create date] 2018/07/05

[Program Name] RICOH Streamline NX Client Tool without JRE

[Version] 1.4.6.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) ASI_EUR(all)

[Firmware No.] D6399916

[File Information]

File Name D6399916-P01.zip

File Type Module for Service

Size 42.47 MB (44529094 byte)

[File Information]

File Name D6399916-P02.zip

File Type Module for Service

Size 40.01 MB (41954520 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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*** Important Notes ***
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[Important Notes]

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*** Modification History ***
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[Modifications made:]

Rank C

Other:

The followings have been conducted to strengthen the security.

- Deleted unnecessary Web API
- Added HTTP Disable setting to Web API for the communication with SPME
- Disabled the remote access to Web API for internal communication
- Added key parameters to Web API for internal communication
- Changed the method to generate encryption keys
- Upgraded versions of OSS (HttpClient, Jetty, JRE(u162))
- Changed the timing to generate the folders under "configuration" folder so that these folders are regenerated at every time PC Client Tool starts
- Changed the access authorities for "configuration/config.ini" so that users can only read
- Changed the process name to "javaw.exe"
- Modified the auto update function in connection with the process name change above

[Modification history]

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***** Basic Information *****
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[Create date] 2018/10/02

[Program Name] GSNX V2 SmartOperationPanel (for use with Remote Install Manager)

[Version] 2.5.2.0

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D4885200G_forEDC

[File Information]

File Name D4885200G_forEDC.zip

File Type Module for Service

Size 12.52 MB (13123581 byte)

[Availability of RFU] No

[Production reflection]

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[Note]

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*** Important Notes ***

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[Important Notes]

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***** Modification History *****
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[Modifications made:]

Rank C

Supported

- GSNX standard application(compatible) supports RICOH IM 350 / 430.

Fixed

- Using the Send To Home folder for browsing, searching, or delivery

fails under the following conditions:

- 1.Send to Home folder is performed.
- 2.Passwordless Authentication(Active Directory or LDAP) profile is enabled.
- 3.The login user is used as the authentication method.

Note:

This problem occurs regardless of the SMB protocol version.

- When a destination printer driver list is displayed on MFP for more than once, the list may not be updated properly.

Condition:

The cache information in Embedded application has been deleted.

- If auto delete is disabled, create the file fails at 1,000th syslog file rotation.

- The process for profile synchronization takes time or times out when the following conditions are met(Server Edition only).

- 1.Server Edition
- 2.Table settings for Metadata Converter have many entries which

are added by Auto Entry function.

- Processing speed for screen transition has been improved when GSNX SOP Optimized application (Hybrid and Full-native) is used and when multiple default destination addresses are selected in the e-mail plugin.
- A job is not processed and moved to the Jobshelter if the job is submitted during backup operated by Admin Tool of GSNX Server.
(Server Edition only)
- You cannot synchronize profiles from the GSNX AdminTool to the SOP Optimized (Hybrid) application while copying is in progress.
- To avoid GSNX embedded application being stopped due to the loops of metadata replacements, the logic of metadata replacement has been changed.

Other

- The checkbox is added for the user to choose whether the barcodes after 2nd page should be read or not with multi-paged files.
When the checkbox is checked and barcode is not on the first page, the first barcode on the following pages is detected and the barcode information is stored in the metadata.
- Send to Folder plug-in supports SMB v2.0/v3.0 distribution.
Exceptions are full native application and 12S or earlier models.
- To avoid the memory being full, folder search function by Send To Folder times out if the process takes more than 30 seconds.

[Modification history]

Version 2.5.0.0

Rank C

Supported

- RICOH IM 350 / 430 is added to supported device model.

Others

- Send To Folder service supports to utilize SMB v2 or v3 by enabling "Enable Enhanced SMB Protocol"(Server Edition Only)
- .NET Framework 4.6 or later and Visual C++ Redistributable for Visual Studio 2015 are mandatory to use GSNX(Server Edition Only).
 - * When installing GSNXv2.5.0, Visual C++ Redistributable for Visual Studio 2015 will be automatically installed.
- Supports skipping the certificate validation process for SSL communication.

Fixed

- If you send a Result URL containing "?" in the value of metadata by the mail delivery service, "?" will be replaced with "% 3F".(Server Edition Only)
- In the Send To Mail service, the mail address specified for Bcc is included in the SMTP header of the mail delivered.
- If you specify a file name with two or more half-width spaces consecutively, an error occurs in the Image Correction filter.
- When the GSNX Embedded application is stopped or the device is powered off, you cannot delete the device registered in AdminTool.
- When a 10.1-inch profile converted from a WVGA profile created before GSNX v2.3.3 is synchronized with the device, scanning with preview ON fails with an unexpected error.
- If a project with Auto Color Select set to the initial value is

used on a device that cannot use Auto Color Select, the rotation direction of the image becomes incorrect.

- If you operate the panel during automatic logout on a device synchronized with a WVGA or 4.3-inch profile, the operation panel becomes black and it cannot be operated.
- If you scan a large amount of data continuously on a 10.1-inch profile synchronized to devices, a "memory-full" error will occur.
- The correct device status is not displayed in the "Status" of "Device List" on GSNX AdminTool.
- The previous user's GSNX screen may be displayed for a moment if the current user logs in just after the previous user has logged out.
- With GSNX Optimized(Hybrid) Application, the GSNX screen flicks by transiting from another screen.
- The Profile's control ID will be incorrect if the profile contains more than ten projects and is then copied or converted.
- The job log processed in the load balance server is duplicated and displayed in AdminTool.(Server Edition Only)
- Fixed a vulnerability issue for application stack traces.

Version 2.4.5.0

Others:

- Fax documents received after the year 2000 can be retrieved from this version.

Fixed:

- It fails to re-retrieve some fax documents when six or more fax documents are stored, and the left documents are not retrieved

until the next re-retrieve.

- An unexpected error caused by the authentication status mismatch prevents the project from starting. This occurs by pressing the project button immediately after logging-in.
- Scanning fails as the result of failing to obtain the scanned image, which occurs if the system is busy during the scanning (example: printing is processed in the background).
- Project screen is grayed out and cannot be operated.
- The application is terminated if the search button for the folder selection is pressed twice.
- It fails to start the application when the device without HDD is recovered from the sleep mode.
- With the server version, the state of the screen stays as processing wait until transferring a scan / fax image to the server is completed.

Version 2.4.4.0

Fixed:

- Usage of Memory for scanner will not be recovered immediately even if scan job delivery by GSNX has been finished
- When GSNX delivers a scan job, the "userName" value in the metadata is empty

Version 2.4.3.0

Supported

- RICOH Pro 8200EX/Pro 8200S/ Pro 8210S/Pro 8220S have been added

as supported device models.

- MP C307 / MP C407 have been added as supported device models.
- Support for Windows Server 2016 Datacenter / Standard.
- Support for Microsoft SharePoint Server 2016. (Server Edition Only)

Others

- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the design of the "Back" button icon displayed on the device panel has been improved.
- The Global Scan service starts automatically only if the service is terminated abnormally. (Server Edition Only)

Fixed

- An error dialog is displayed when displaying the preview screen on the operation panel in the case of using a 10.1 inch profile converted from WVGA.
- "OCR Scanned PDF" is not displayed on a tab menu in the case of using a 10.1 inch profile converted from WVGA.
- The GSNX server's CPU load goes up to 99% in the case of receiving a specific request.
- The wording displayed on the operation panel is cut off in the middle in the case of using GSNX Optimized mode (Hybrid mode).

Version 2.4.2.0

Supported:

- RICOH MP 2555/3055/3555/4055/5055/6055 is added to supported device models.

Others:

- Added the "Reverse Orientation" feature for 10.1 inch profiles.
- 10.1 inch screen profiles are now emulated like the Smart Operation Panel if you want to edit or create a profile.
- Additional debug information has been added to the DPL log.
(Server Edition Only)
- Debug log information for the Send To Folder plug-in has been improved.
- The design of the SOP optimized mode (Hybrid) UI displayed on the operation panel has been improved.
- Mixed Original Size is now supported on Aficio SP 5200S, 5210SF, 5210SR / MP 402SPF / MP 501SPF / MP 601SPF.
- Reverse Orientation is now supported on MP CW2201 Series / MP CW1201 Series / MP C6503 SP / MP C8003 SP / Pro C5200S / Pro C5210S.
- The following functions regarding avoided job data on MFP devices has been added to the AdminTool.
 - Display the avoided job count.
 - Download or delete avoided job data contained on the MFP HDD.
- If the GlobalScan service is stopped due to an "Out Of Memory" error, a heap dump file will be generated automatically.(Server Edition Only)

Fixed:

- Security vulnerabilities (CVE-2016-3092) have been fixed.
- Failed to convert profiles created in previous versions to 10.1 inch.
- The AdminTool is not usable when profile data set for a 3rd party

- plug-in is restored to a GSNX server that does not have the 3rd party plug-in module installed.
- The 32-bit version of the GlobalScan service cannot be stopped on 64-bit version operating systems. (Server Edition Only)
 - GSNX fails to create a job if a language not supported by GSNX is selected on the MFP.
 - The "GlobalScan NX V2 Additional Enterprise Server" license is not available in GXNX v2.4.0 and v2.4.1. (Server Edition Only)
 - Failure to save a setting in the Monitor Folder setting tool on Windows 10. (Server Edition Only)
 - The same inbound FAX document will be delivered twice if the user tool is selected when GSNX is in the process of delivering the inbound FAX document.
 - Inbound fax document delivery is delayed if the device receives the inbound fax while a user is editing the device's address book.
 - GSNX v2 Smart Operation Panel application fails to install to the Smart Operation Panel.
 - In the "Email Search" function on 10.1 inch profiles, "Display Name" and "Address Format" are not displayed correctly.
 - Jobs stored in the job shelter are not removed from the device when the GSNX Embedded application is updated. (Serverless Edition Only)
 - The operation panel screen may freeze if "AutoLogoutAfterScanning"(ConfigUtil) is applied to the MFP.
 - In the case of SOP Optimized mode (Hybrid), the device cannot enter sleep mode if the system auto reset time is set as shorter than the time set for sleep mode.
 - Improved a vulnerability issue. (Apache Commons Collections Java library insecurely deserializes data.)

- Fixed a vulnerability for clickjacking.

Version 2.4.1.0

Supported:

- RICOH MP 402SPF is added to supported device model.
- RICOH MP 6503/7503/9003 is added to supported device model.
- RICOH MP C6503/C8003 is added to supported device model.
- Pro C5200S/C5210S is added to supported device model.
- RICOH MP 501SPF / MP 601SPF
- RICOH MP CW2201SP
- RICOH MP C305
- The GSNX AdminTool now supports Windows 10 Pro / Enterprise / Education (32-bit/64-bit).

Others:

- The Profile Copy function has been added.
- A function for converting a profile from WVGA to 10.1 inch has been added.
- The screen size (WVGA / 4.3 inch / 10.1 inch) that a profile is dedicated to is added in parenthesis after the profile number.
- The Activation Tool now supports the displaying of multiple languages.
- The GlobalScan service will be restarted automatically if the service is not in "running" status or the web service cannot respond. (Server Edition only.)
- 8 1/2 x 13 2/5 Landscape is available as a scan size in 10.1 inch profiles with GSNX SOP Optimized Mode (Hybrid Mode).

- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the name of the button for returning to the profile's top screen has been changed from "Top" to "Back".
- When pressing the "Back" button on the project screen on GSNX SOP Optimized Mode (Hybrid Mode), the group menu where the selected project is located will be displayed.
- In the case of GSNX SOP Optimized Mode (Hybrid Mode), the design of the group menu icon has been improved.
- The back key provided by SOP is available in the case of GSNX SOP Optimized Mode (Hybrid Mode).
- Improved the processing speed when PDF Converter(Enhanced) creates an unsearchable PDF file.
- Improve security.

Fixed:

- Send To Folder delivery is delayed when performing Kerberos authentication.
- The destination path for the Send To Folder or Send To WebDAV services seem to be unselected on the operation panel when the startpoint path had been selected with some operation.
- The destination path for the Send To Folder or Send To WebDAV services seem to be unselected on operation panel although a destination path is preset via the GSNX AdminTool. (Serverless Edition only.)
- GSNX fails to create a searchable PDF file via PDF Converter when the delivery flow contains Send To Email with the Email Divide function. (Server Edition only.)
- Displays the hidden scan paper sizes on uWVGA operation panels.
- Fails to deliver stored inbound Fax documents when the GlobalScan

- SDK application starts running. (Serverless Edition only.)
- SSL setting is disabled when performing an overwrite installation of GSNX Admin Tool with SSL settings.
- The profile icon is not displayed in the case of GSNX SOP Optimized Mode (Hybrid Mode).
- GSNX may rotate scanned documents to an unexpected orientation when Color or Gray Scale is selected for the Scan Type setting. (Server Edition only.)
- GSNX may rotate scanned documents to an unexpected orientation when Color or Gray scale is selected for the Scan Type setting and PDF Converter is set. (Serverless Edition only.)
- An error message is displayed on device operation panel when using the Secondary server and the Error Notification function is enabled. (Server Edition only.)
- When user logs in to a device, a "You do not have the privileges to use this function" message is displayed for a moment before GSNX is displayed.
- The GSNX application is not useable when the "Continue" button is selected right before the timer count for waiting additions become zero.
- It may not be possible to close dialog boxes when using the Send To RightFax service plug-in and Required Manual Entry Confirmation is enabled. (Server Edition only.)
- An illegal screen may be displayed when displaying the destination list for the Send To RightFax service plug-in and Required Manual Entry Confirmation is enabled. (Server Edition only.)
- When using the "Image Correction" plug-in, delivery will be successful but some page data may be deleted and not sent.

Version 2.4.0.0

Supported:

- RICOH MP C306Z/C406Z
- RICOH MP C3004/C3504/C4504/C5504/C6004/C2004/C2094SPJ/C2504/C2594SPJ

Fixed:

- The remarks in the system log are not added to the error notification emails.
- When importing project data from an older version, the tab order is changed in the filter menu.
- When updating the GlobalScan NX server, the isapi log size becomes large.
- When configuring Passwordless authentication(Active Directory) and Kerberos authentication for the Send To Home Folder function, NTLM authentication is used.
- Simplified Chinese text cannot be recognized in searchable PDFs created by the PDF Converter(Enhanced) filter. (Server Edition only.)
- The PDF Converter(Enhanced) filter fails to create searchable PDFs that include some tables. (Server Edition only.)
- The PDF Converter(Enhanced) filter fails to create searchable PDFs that include over 150 pages. (Server Edition only.)
- The PDF Converter(Enhanced) filter creates PDF files that are not compliant with PDF/A-1a or PDF/A-1b when either is selected.
- When a double-sided document is scanned, the back side is rotated to unexpected orientations. This fix is dependent on specific Java

VM versions. Please be sure to update Java VM accordingly.

Others:

- The UI for the Smart Operation Panel is now supported.
- The manual displayed via the GlobalScan NX AdminTool has been changed to PDF format.
- The activation system for the GlobalScan NX Server application has been changed.
- The Logjam vulnerability has been fixed.

=====
*** Basic Information ***
=====

[Create date] 2019/04/25

[Program Name] Java VM v10 UpdateTool

[Version] 10.28.01

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D6405748B_upd

[File Information]

File Name D6405748B_upd.exe

File Type Module for Service

Size 52.65 MB (55204052 byte)

Check Sum -8Bit Sum: BD1E

-16Bit Sum(Little Endian): 307F

-16Bit Sum(Big Endian): AA9F

[Availability of RFU] No

[Production reflection]

=====
*** Note ***
=====

[Note]

=====
*** Important Notes ***
=====

[Important Notes]

=====
*** Modification History ***
=====

[Modifications made:]

Rank C

Symptom corrected:

- When the amount of file descriptor, used on JavaVM, is 256 or more, a certain print command from the SDK application might cause an error.
- Errors might be occurred by using the Globalscan.
- SDK application might not startup if the Stream Line NX settings changed.

Other changes:

- Available usage of file descriptor increased.

[Modification history]

Version 10.27.04

Symptom corrected:

- Startup may take a long time and SC998 may occur if Streamline NX and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering from energy saving mode under the following conditions:
 - An SDK application is set as a priority function.
 - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- The server certificate for DSDK has been changed to RSA2048/SHA256 for security improvement purposes.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager NX family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported using the Device Manager NX Enterprise Certificate Management Tool.
 - Device Manager NX Enterprise fails to retrieve the information about the application(s) installed on the device.
 - GlobalScan NX fails to apply profiles or retrieve device information when using the AdminTool.

Version 10.26.01

Symptom Corrected:

1. After applying the security update that changes the priority order for cipher suites, SSL communication fails between an application that includes an SSL server function and the Windows operating system.
2. SDK application behavior may be incorrect or inconsistent. (CAP/ELP/SLNX/GSNX/etc.) Both the Standard (Compatibility mode) application and the SOP Optimized (Hybrid mode) application are affected by these issues.
 - Cannot log in.
 - Cannot scan.
 - Cannot print.
 - Error message appears.
3. When conducting location-free printing or authentication processing by using a solution product, an SC899 error might occur or Java VM might close unexpectedly and an SC error related to Java VM not responding might occur.
4. The DSDK application fails to connect to the LDAP server when

using Kerberos authentication.

Version 10.25.00

Symptom corrected:

- Sending fax from the document server using IPv4-mapped address may result in an error.

Version 10.24.01

Symptom corrected:

- CAP V2 is disabled if switched to Energy Saver mode while CAP V2 starts up after power ON.
- Machine may stall, if scanned from the contact glass with Size Setting disabled on the following models.
 - MPC4502/5502, MPC3002/3502, MPC4002/5002
- SC637 may occur, if the machine is shut down while printing.
- Less than 128-bit encryption methods will be prohibited.
 - AP-P3 (M124, M125)
 - A1-P2 (M132)
 - K-C4 (D158, D159)

Version 10.23.01

Symptom corrected:

- The machine cannot enter Energy Saver Mode after repeatedly entering and recovering from the mode.
- If Kerberos authentication is performed with an ESA application (e.g. CAP v2, Streamline NX), the handling cannot time out even if the specified time expires.

Version 10.22.02

Symptom corrected:

- If an ESA application that uses Administrator Authentication Management, User Authentication Management, or Enhanced External Charge Unit Management (e.g. CAP v2, Streamline NX) stops during logout handling, the logout cannot be completed.

Version 10.21.03

Symptom corrected:

- If a keystroke reader is connected to the device, SC 899 may occur when the device is returned from energy save mode.
- In the case that Streamline NX is installed (with the PKI module) on the following models, authentication may not be performed.
 - MP CW2200

Version 10.20.05

Symptom corrected:

- In SLNX v2.3.0 or later, the printer accounting method will be changed to match the MFP specifications in SLNX.
- When an ESA application is installed via Remote Install Manager, the heap size may be reset to the default size from the specified size.
- When Java VM is updated via Remote Install Manager, the stack size may be reset to the default size from the specified size.
- If the following is repeated, devices with CAP v2 installed will stall or behave slowly.
Log in to the device --> Switch to energy save mode --> Return from energy save mode
- When an ESA application remains in an offline state such as an ESA application accesses the device HDD or entering SP mode, if the device switches to offline mode (such as when entering UP), the device may stall.

Version 10.19.00

Symptom corrected:

- In the case that "Allow" is selected for "Print jobs without user names" in a Streamline NX AAM-E device template, jobs sent directly from the host system to a device can be printed immediately even though the jobs do not contain user information.
- Less than 128-bit encryption methods will be prohibited.
 - AP-C3 (D143, D144)
 - AT-C3 (D111, D142)
 - Mo-C1 (D124)
 - MT-C5 (D131, D132, D133)
 - GR-C1 (D117, D118)
 - S-C5 (D127, D128)
 - AL-C2 (D129, D130)

Version 10.18.01

Symptom corrected:

- When using the scan function continuously on a device with Streamline NX or GS-NX is installed, a "Scanner is in use by another function" error may occur.
- If logout is performed immediately after logging in, logout refusal may not be performed correctly and the login user information may not be retrieved.
- SC997/998 may occur when changing ESA application or transitioning/recovering energy saver mode.
- If a keystroke reader is connected to the device, SC 899 may occur when the device is returned from energy save mode.
- SC997 may occur after restarting the device when the ESA application is online-installed using Remote Install Manager and the ESA application is set as function priority.

Version 10.17.00

Error Correction

- This firmware was modified to support a new IC card reader/writer

(PR-700), as production of the current it (PR-450) was discontinued.

Version 10.16.05

Fixed:

1. If the ESA application is installed, HTTP communication may not be performed correctly.
2. Application switching might not be performed when Steamline NX or 3rd vendor application switches the normal application on the operation panel.
3. When the device display language is Turkish or Catalan, the ESA application icon does not display on the home screen.
4. When switching a language on the initial setting screen, if the initial setting screen is closed immediately, the display does not switch the language in the ESA application.

Version 10.15.00

Fixed:

1. SC899 may occur when the machine recovered from energy saver mode.
2. An unexpected screen may appear when a device with 9 or more ESA applications installed recovers from energy saver mode.

Version 10.14.02

Fixed:

1. The ESA application shortcut is displayed improperly when 9 or more ESA applications are installed.
2. SDK/J summary may not be printed out when 13 or more ESA applications are installed.
3. When a maximum custom paper size is specified during scanning in wideformats, the ESA application cannot retrieve the correct value.
4. ESA application installation and uninstallation may take longer than expected in specific conditions.
5. 4 line LCD devices do not enter Energy Saver Mode after specific operations.
6. A Java VM internal process causes a change to the device's configured sleep timing.
7. A Java VM remote update causes the device's Heap/Stack Size settings to reset to default values.

Version 10.13.06

Fixed:

1. The User Code Authentication screen may not appear properly after a device with the "Administrator Authentication Management" setting enabled recovers from energy saver mode.
2. When an ESA application is closed by a user moving to the Home screen, the ESA application continues behaving as if it is displayed on the operation panel. As a result, the user cannot move to other applications because the screen is locked by the ESA application.
3. ESA application name is displayed in Japanese if the device language is not supported by the ESA application.
4. After performing a Java VM remote update process on the device,

installed ESA applications show a "Stopped" status and do not restart automatically.

5. When a device failed to reboot after receiving a reboot request from a device management application, installed ESA applications would not restart automatically and remained in "Stopped" status.
6. SC997 may occur on a device during repeated entries and recoveries from energy saver mode.
7. Unnecessary temporary files remain after the remote installation of ESA applications.
8. The device freezes and displays "Please wait..." on the operation panel when the device receives a print job while in energy saver mode.
9. An application that doesn't have enhanced encryption may be installed to the device even though "Enhanced Encryption Strength" is turned ON to prohibit it.
10. Unable to display the device settings screen or Web Image Monitor because of internal process locks.
11. SC990 may occur when a device with a CAPv2 installation recovers from energy saver mode.
12. SC672-02 may occur when a device with a GlobalScan NX installation recovers from energy saver mode.
13. A Java VM internal processing may result in a failure of the device reboot, SC991 or SDK application stopped.

Version 10.12.02

Fixed:

1. SC997 may occur on a device during repeated entries and recoveries from energy saver mode.
2. Unnecessary temporary files remain after the remote installation of ESA applications.
3. The device freezes and displays "Please wait..." on the operation panel when the device receives a print job while in energy saver mode.
4. An application that doesn't have enhanced encryption may be installed to the device even though "Enhanced Encryption Strength" is turned ON to prohibit it.
5. Unable to display the device settings screen or Web Image Monitor because of internal process locks.
6. SC990 may occur when a device with a CAPv2 installation recovers from energy saver mode.
7. SC672-02 may occur when a device with a GlobalScan NX installation recovers from energy saver mode.
8. WVGA LP devices cannot display the Java TM Platform settings screen.
9. A Java VM internal processing may result in a failure of the device reboot, SC991 or SDK application stopped.

Version 10.11.02

Fixed:

1. Device reboot takes longer than is standard if the completion message displayed after importing "Device Setting Information" is not closed promptly.
2. Pop-up messages are displayed without message text if the message is displayed immediately after changing the device's language setting.
3. In rare conditions, SC899 or "Internal Error" might occur because of a Java VM bug.

4. The "Please wait..." screen is not closed when attempting to access a SDK application after recovering from energy saver mode.
5. Initial release for Model K-C4 (D158, D159)

Version 10.10.01

Fixed:
SC997 may occur when the device recovers from energy saver mode.

Version 10.09.00

Fixed:
Switching to ELP-NX v2 from another application may cause SC997 if switching is performed while a large number of jobs are being transmitted to the device.

Version 10.07.02

Fixed:
Kerberos Authentication is performed multiple times, causing a memory leak.

Version 10.06.02

Symptom corrected:

1. More internal resources are consumed than required during internal file open and close operations, such as SDK application installation. This could result in unexpected behavior.
2. CAP v1.4.7 or later doesn't start-up due to a bug in an internal process which affects the AL-C2(D129, D130), GR-C1(D117, D118) and S-C5(D127,D128).

Version 10.05.01

Symptom corrected:

1. An error occurs with the Auto Start-up feature of SDK/J applications.
2. The last page is not printed when attempting to print out certain PS data.
3. The user cannot obtain a login password.
4. The software keyboard used with an Xlet application does not close (cannot be cleared) when User Authentication is enabled.
5. The application's main screen cannot be displayed after the software keyboard is closed.
6. The Card Authentication Package (SDK/J application) does not recover following a failed machine reboot.
7. Cannot reboot/stop an Xlet application when the installation of the application is cancelled.
8. The SDK/J application cannot be activated after switching from off-line to on-line.
9. A log-out error occurs with certain SDK applications.
10. The FAX sender's name appears garbled if composed of multi-byte characters.
11. The platform does not reboot when the SDK heap is set to its maximum value.
12. Other minor corrections were applied.

Version 10.04.02

Symptom corrected:

1. SC899 occurs when a user swipes a card on the card reader while the device is in 'sleep' mode.
2. An "OutOfMemory" error occurs due to lack of device memory when some programs are running.
3. SDK application installation infrequently results in the disappearance of a previously installed SDK application if multiple embedded programs are installed.
4. Garbled characters can be included in the FAX "TSI" attribute if the fax is handled by the Java VM. This can cause unexpected results for SDK applications, such as file naming errors if using the "TSI" attribute for naming metadata.

Version 10.03.01

Symptom corrected:

1. Even when the file type has been fixed at "PDF/A", other types of PDF files can be created.
2. User codes and names are not displayed in the Job Log for jobs that involve scanning or plotting using an SDJ/J application.
3. The area of the screen displayed behind a modal dialog responds to touch operations under the following conditions:
Modal dialog is displayed -> User changes the screen (e.g. Copier to Home screen) -> User returns to original screen with dialog
4. Cannot login following a series of repeated logins and logouts.
5. The stack size cannot be changed.
6. "OutOfMemoryException" occurs.
7. "StateMachine" cannot be stopped or canceled correctly.
8. A time-out occurs in Muffling mode.
9. Some of the login User IDs acquired by the application appear blank.
10. SC899 sometimes occurs at the conclusion of an SSL session.

Other changes:

1. Revised the wording of the error message displayed when the screen is unable to switch to another application using a requestVisibleXlet.
2. The threshold for triggering "Memory full" was changed.
3. Supports VM Card eDC-i1.2.

Version 10.02.00

Initial release for GR-C1(D117/D118) and S-C5(D127/D128).

Version 10.01.06

Initial release