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\*\*\* Basic Information \*\*\*

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[Create date] 2019/09/26

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[Program Name] System/Copy

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[Version] 1.18

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[PCB No.]

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[Interchangeability] X / O

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[Other Firmware Requirements] None

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[PCB Requirements] None

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[Software category] Normal Release

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[Release category] Normal Release

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[Program category] Firmware

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Exported to(language) GEN(all)

[Firmware No.] D2555745A

[File Information]

File Name       D2555745A.fwu

File Type       Module for Service

Size            26.39 MB ( 27670796 byte )

[File Information]

File Name       D2555745A.rfu

File Type       Module for Remote Upgrade

Size            26.39 MB ( 27676928 byte )

[Availability of RFU] Yes

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[Production reflection] 2019/06

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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:]

Rank C

Symptom corrected:

- Color registration shift occurs.
- A part of registered address may not be shown in Smart Scan feature.
- When "Application Authentication Settings" is enabled, SC899 might occur after registering or updating an address book over 220 times from Web Image Monitor.
- User and SP settings information in the Copy (Classic) application and the Scanner (Classic) application might be cleared after version up or down to specific firmware version.
- The language set for each user may not be applied when logging in during Energy Saving mode.
- Cannot log-in with VM less application during daylight saving time .  
(Only in the case that the daylight saving time period start at Oct-Dec)
- Wireless direct connection might fail in Group Owner Mode.
- When the auto logout setting is enabled, logout failed message might appear during the printing.
- If the authentication setting is changed remotely while logging in from the panel, the operation might hang, and the panel might stall.
- The device might freeze after logging in to the device at address book screen under the following conditions:
  - 1) Central Management is enabled.
  - 2) Either of Windows authentication, LDAP authentication, or Custom authentication is set on User Authentication Management.
- SC 998 may occur in case that user performs "Export Device Setting Information" from Web Image Monitor when the device is in energy-saving mode.
- SmartSDK application cannot reply to UDP packet when machine is in Energy Saver Mode.

Other changes:

- Supported RICOH SmartSDK v2.60
- If a firmware package is unpublished (for example, when a bug is discovered after release), it is possible to apply a previous firmware package via ARFU, SFU, and Application Site.
- (Previously, if a firmware package is unpublished then ARFU, SFU, and Application Site would display an error dialog and the function could not be used.)
- Even when the certificate key length for @Remote is set to 512-bit, the device can connect to the firmware download server (for ARFU, SFU, etc.).

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[Modification history]

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Version 1.17

Rank C

Supported:

- The CPU is replaced with a newer model, so the BIOS is also updated to support the new model.

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Version 1.16

Rank C

Symptom corrected:

- The machine might not recover from SC995-002 after replacing the NVRAM on the controller board.
- When scanning with ClearlightPDF JPEG2000, SC865-56 might occur.
- Image log might not be sent and stay in the device.
- An SC error might occur when scanning with AirPrint, WSD-Scanner, or DSM.
- The time on the Date and Time Widget might be incorrect if the FAX SP1-101-022 (System Switch 15) bit 1(Going into the Energy Saver mode automatically) is set to "1: Disabled".
- When logging in or out repeatedly, SC899 might occur because of an irregular memory exclusion operation.

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Version 1.15

Rank C

Symptom corrected:

- When the device receive a response of "ICMP unreachable" from a network device, the communication might fail.
- It takes time to login after authenticating the card.
- If an application icon on the monitor is pressed just after the machine enters into energy saver mode, the application stalls.
- Copy application and FAX application might not start when pressing these application icons.
- Fails to download files from the firmware download center using ARFU.
- The machine might stall if it enters energy saving mode during ARFU.
- The machine might stall when executing SP5-858-122 and SP5-585-111
- Preview screen of a print job on Enhanced Locked Print might freeze, when the page is repeatedly moved.

Other changes:

- Added html format for Scan to Email function.
- A minor change only for the Japanese model.
- Added a new feature for the SmartSDK WebAPI.

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Version 1.14

Rank C

Symptom corrected:

- Installation of the Cheetah application from the Web Image Monitor fails when the SSL encryption level is set to "Ciphertext Priority" or "Ciphertext Only".
- When the SMC List is saved to the SD card as a CSV file, SP7507 (Latest Jam History) is not correctly recorded.
- The following symptoms might occur when executing:
  1. SP5-846-051 (Backup All Addr Book)
    - A backup failure message might appear.
  2. SP5-846-052 (Restore All Addr Book)
    - SC899 might occur.
    - The machine might stall.
- Login might fail and the application icon might not be displayed.
- If the device was restarted after sending the URL link to a PDF file scanned by OCR, the PDF file cannot be accessed from the URL link.
- When a capture and a thumbnail or preview are processed at the same time, the capture might not be processed normally if the capture setting is enabled and the Media Link Board is installed.

- Cancelling scanning might result in SC990/991 occurring and the machine rebooting.

Other changes:

- Supported the Remote Panel Operation.  
Multiple firmware modules are required to use Remote Panel Operation.  
Please refer to GKM Answer ID 251361 for detailed information regarding required firmware.

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Version 1.13

Rank C

Symptom corrected:

- Printer capture data might not be sent when printing a blank page if the capture function is enabled.

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Version 1.11

Rank C

Symptom corrected:

- The user might not be able to log in if the machine repeatedly enters and exits Energy Saver Mode.
- If "Interrupt mode" is pressed in a Legacy application, the home screen might be displayed instead of the original application after "Interrupt mode" is released.
- If some characters are included in a user name, login authentication is not correctly done.
- SC845 might occur after ARFU.

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Version 1.10

Rank C

Symptom corrected:

- If user authentication is set to something other than User Code, the Eco information screen might not be displayed at the expected timing when a user logs in.
- Cannot refer to the address book in the Simple Fax or Simple Copy applications under the following conditions:
  - Address book usage or registration restrictions are enabled
  - Administrator setting restrictions are enabled
- When the device is using "Card Authentication Package" or another custom authentication and then the following fields on the server are blank, the fields in the address book on the device might not be overwritten:
  - Email address
  - FAX address
  - Folder address
- When using Windows authentication, LDAP authentication, or external authentication, if exporting the address book from Device Manager NX,

- the export data cannot be imported.
- A bug of SmartSDK API was fixed.
  - Remote un-installation for Streamline NX might fail.
  - User usage restrictions do not come into effect if authentication is enabled in Quick Card Authentication.
  - When the relationship between the host name and the IP address on the DNS server is modified, Java VM might not recognize the change.
  - When JavaVM is not enabled and only IPv6 is enabled, the list of installed applications is not displayed in Extended Feature Info on the Web Image Monitor.
  - If a jam occurs on the first page of a job on a machine set with user code authentication and then, the start button and log-out button are pressed together, the start button becomes ineffective.
  - When the device has just gone into energy saver mode, even if a copy job is sent from a SmartSDK application, copying does not start.
  - The quota notification cannot be displayed on some SmartSDK applications.
  - In the "Printing text and serial numbers" mode, blank text with serial numbers cannot be copied on the copying sheets.
  - The following symptoms may occur when restarting the operation panel:
    - IC card does not respond
    - Cannot enter SP mode
    - Cannot connect to WIM (Web Image Monitor)
    - If log tracing on Web Image Monitor is cancelled just after using the function, the machine enters into off-line mode.
  - SC 998 might be displayed when rebooting the machine if ESA application is set as the priority function.
  - Error message appears, if the Home button is pressed while the screen is displaying the Current Job tab in Check Status.

Other changes:

- Supports Arabic
- Reboot will be retried if reboot fails after updating remotely.
- Added the function to set user usage restrictions for each application.
- Supported RICOH SmartSDK v2.40.
- Supported RICOH SmartSDK v2.50.
- Some of the ARFU related SP settings and logs can be obtained using @Remote.

-----  
Version 1.09

Other changes:

- Support for a new eMMC used on the CTL board.

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Version 1.08

Symptom corrected:

A key mark may appear on the bypass tray even when [Auto Paper Select] is selected.

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.08 (D2555770J)

Network Support v15.61.1 (D2555753F)

Web Support v1.05 (D2555750G)

Scanner v01.04 (D2555779F)

Animation v1.02 (D2555752D)

Please refer to the RTB(No.RGene095) for details.

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Version 1.07

Symptom corrected:

- A true/false based API control was added to check the capability of Scan and FAX.
- Printer SP, SP1-006-001 (Sample/Proof Print), was missing from SP mode.
- [NA - HC model] Fax may print out from the secure tray if you change the secure tray in user settings while receiving a fax.
- [NA-HC Model] "No paper loaded" alert may appear when the fax receiving tray and the secure tray are set as the same.

Other changes:

- The conditions that initiate the Auto Logout timer were changed as follows.  
SP5-401-230 bit7 = 1: Initiates after completing the last job run from the operation panel.  
SP5-401-230 bit7 = 0: Initiates after the last action performed on the operation panel.

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Version 1.06

Symptom corrected:

- SC819 may occur, if the auto log-out timer and the energy saving timer are set to the same value.
- Error 22 may occur during ARFU.
- SC899 may occur when rebooting after updating a firmware.
- SC819 may occur after removing a jam that occurred while printing a large job that fully consumes the printer memory.
- After entering the user code to start up the Copy application, the user code input screen does not disappear.
- The operation panel may freeze, if the Start button is pressed in copy mode immediately after recovering from the energy saver mode.
- SC673-10 may occur when turning ON the machine power.

Other changes:

- Reduced time for controller firmware update and improved progress bar feature.
- Changed that the Engine(IPU) firmware version is displayed on the Web Image Monitor, the operation panel, and the Device Manager NX. This firmware is dependent on Web Support firmware v1.03(D2555750E) or later, so please be sure to update it.

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Version 1.05

Symptom corrected:

- SC899 may occur when installing @Remote.
- The service mode lock can falsely be unlocked by the user under particular conditions.

Other changes:

- When executing a Firmware configuration task via Device Manager NX Pro/Enterprise, an RFU package with the appropriate destination (USA/Europe/Asia/Korea/Taiwan model or China model) can be selected and downloaded from the RICOH Global Server.
- More than five languages can be added to the "Change Langs. Widget" on the smart operation panel.

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Version 1.04

Symptom corrected:

- Can not recovery from energy saving mode and SC672-11 may occur.
- Saving a scanned filed onto a USB memory stick may cause the file to corrupt.
- When an application accesses the HDD after turning ON the power, the machine may stall.
- SC899 may occur after updating with the packaged firmware.
- Recovering from the energy saver mode takes about 5 seconds longer than usual.
- Hard keys become ineffective on the Copy screen, if operated as follows:  
Log in and copy either on the exposure glass or from ADF, or run a batch copy job.  
Press the Stop key before the copies are delivered. Manually or automatically log out.  
Log in again.
- Behavior of the SDK applications (CAP/ELP/SLNX/GSNX/etc.) may be incorrect or inconsistent as described below. Both the Standard (Compatibility mode) and SOP Optimized (Hybrid mode) applications are affected by these issues.
  - Cannot log in.
  - Cannot scan.
  - Cannot print.
  - Error message appears.
  - etc.
- If the device enters Energy Save Mode after automatically logging out of an account, the device might stall when IC card authentication is used to recover from Energy Save Mode once out of every 200 times.
- If logged in using CAP and the device enters Energy Save mode, the device may stall and logging out will fail.
- The SLNX Hybrid mode application might not be installed correctly.
- Error occurs, if new addresses are continuously registered to the address book using Smart SDK.

Other changes:

- Modified the default value of SSL in the SMC Report.
- Added an SP setting for enabling or disabling the "Screen Monitoring" function.  
SP5-885-205: default = 0 ("Screen Monitoring" is enabled)  
This firmware is dependent on Web Support firmware v1.01 (D2555750C) or later, so please be sure to update that firmware as well.

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Version 1.03

Symptom corrected:

- Package RFU update may fail.
- Emergency firmware update may not work occasionally.

Other changes:

ARFU function supported.

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Version 1.02

Symptom corrected:

- SC819 may occur when printing particular files.

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Version 1.01

1st Mass production



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\*\*\* Basic Information \*\*\*  
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[Create date] 2018/11/30

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[Program Name] Web Support

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[Version] 1.08

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[PCB No.]

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[Interchangeability] X / O

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[Other Firmware Requirements] None

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[PCB Requirements] None

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[Software category] Normal Release

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[Release category] Normal Release

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[Program category] Firmware

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Exported to(language) GEN(all)

[Firmware No.] D2555750K

[File Information]

File Name       D2555750K.fwu

File Type       Module for Service

Size            6.69 MB ( 7018808 byte )

[File Information]

File Name       D2555750K.rfu

File Type       Module for Remote Upgrade

Size            6.70 MB ( 7024896 byte )

[Availability of RFU] Yes

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[Production reflection] 2018/11

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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

Symptom corrected:

- The XSS vulnerability of screens in the Address Book that was pointed out in CVE-2018-15884 has been fixed.
- Ricoh devices already had a countermeasure to protect against the CSRF vulnerability pointed out in CVE-2018-15884.

Other changes:

- Added html format for Scan to Email function.
- The following values can be set with solution software that uses SOAP I/F.

"SNMPv3 Setting"

- SNMPv3 Trap Communication
- Encryption Algorithm
- Permit SNMPv3 Communication

"Program/Change Administrator"

- Encryption Password

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[Modification history]

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Version 1.07

Rank C

Other changes:

- Supported the Remote Panel Operation.  
Multiple firmware modules are required to use Remote Panel Operation.  
Please refer to GKM Answer ID 251361 for detailed information regarding required firmware.

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Version 1.06

Rank C

Other changes:

- Added the function to set user usage restrictions for each application.

-----  
Version 1.05

Other changes:

- Newly added SMBv2/v3 support.  
This firmware is dependent on the following firmware modules.  
Please be sure to update all of them:

System/Copy v1.08 (D2555770J)  
Network Support v15.61.1 (D2555753F)  
Web Support v1.05 (D2555750G)  
Scanner v01.04 (D2555779F)  
Animation v1.02 (D2555752D)

Please refer to the RTB(No.RGene095) for details.

-----  
Version 1.04

Symptom corrected:

- When changing the password policy in the "Extended Security" menu through Web Image Monitor, the access log might be not recorded.

-----  
Version 1.03

Other changes:

- Changed that the Engine(IPU) firmware version is displayed on the Web Image Monitor, the operation panel, and the Device Manager NX. This firmware is dependent on System/Copy firmware v1.06(D2555770G) or later, so please be sure to update it.

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Version 1.02

Other changes:

- Minor changes.

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Version 1.01

Symptom corrected:

- When downloading "Eco-friendly Counter" data in "Status/Information > Display Eco-friendly Counter", the SYSTEM counter data for that period is not included in the exported .csv file.

Other changes:

- Added a setting to be able to set a notification sound when a received fax has finished printing.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

- CheetahSystem firmware: v1.12 or later (D2411420M)
  - LegacyUI firmware: v1.09 or later (D2411427K)
- Added an SP setting for enabling or disabling the "Screen Monitoring" function. SP5-885-205: default = 0 ("Screen Monitoring" is enabled)  
This firmware is dependent on System/Copy firmware v1.04 (D2555770E) or later, so please be sure to update that firmware as well.

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Version 1.00

1st Mass production

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\*\*\* Basic Information \*\*\*  
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[Create date] 2018/11/21  
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[Program Name] Printer  
-----

[Version] 1.10  
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[PCB No.]  
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[Interchangeability] X / O  
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[Other Firmware Requirements] None  
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[PCB Requirements] None  
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[Software category] Normal Release  
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[Release category] Normal Release  
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[Program category] Firmware  
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Exported to(language) GEN(all)

[Firmware No.] D2555756L

[File Information]

File Name       D2555756L.fwu

File Type       Module for Service

Size            4.36 MB ( 4571100 byte )

[File Information]

File Name       D2555756L.rfu

File Type       Module for Remote Upgrade

Size            4.36 MB ( 4575488 byte )

[Availability of RFU] Yes  
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[Production reflection] 2018/11  
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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

Symptom corrected:

- SC899 might occur when printing a Hold Print file scheduled for a certain time.
- Printing job might hang after recovering from a paper feed error.

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[Modification history]

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Version 1.09

Rank C

Symptom corrected:

- An SC899 error might occur if displaying the print job history on the Web Image Monitor after printing a file with a long name.

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Version 1.08

Symptom corrected:

- It might take time to resume a job if it is suspended while the device is in Energy Saver mode.
- IPDS printing might stall if IPDS jobs are printed continuously.

Other changes:

- Supported for Mopria Print Service.  
This firmware is dependent on the following firmware modules. Please be sure to update all of them:
  - Network Support v15.63 (D2555753H) or later
  - Printer v1.08 (D2555756J) or later

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Version 1.07

Other changes:

- When the Auto Logout timer is invoked can be changed:  
SP5-401-230 bit7 = 1: When the job executed from the operation panel is completed.  
SP5-401-230 bit7 = 0: When the user last had interaction with the panel.

Fixed:

- Any settings aren't displayed when creating a new IPDS Form via Web Image Monitor.

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Version 1.06

Symptom corrected:

1. An error may occur when trying to display a preview in the Print from Storage Device application.
2. After an SC reboot occurs, if the dialog window stating that the automatic reboot has occurred is not closed, SDK-J applications cannot be started, which results in an SC990 error occurring.
3. Notifications are not displayed in MFP applications even if key counter management or external charge unit management is enabled.

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#### Version 1.05

##### Symptom corrected:

1. When attempting to print data that contains a blank page via AirPrint, the job might be canceled.
2. When printing from AirPrint, the paper weight "Plain 2 (75 to 81g/square metre)" is out of the search target of "Auto Tray Select" even if "Plain Paper or Recycled Paper" is specified in the job.

##### Other changes:

Minor changes.

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#### Version 1.04

##### Symptom corrected:

Miner software bug corrected.

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#### Version 1.03

##### Symptom corrected:

1. An SC899 error might occur when the Printer application starts up, which causes the device to stall.
2. While a job is being printed by using Enhanced Locked Print NX v2, some jobs might not start being processed on the device until the current job is finished.

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#### Version 1.02

##### Other changes:

- Support for AirPrint.

This firmware is dependent on Network Support firmware v15.58.1(D2555753C) or later, so please be sure to also update that firmware.

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#### Version 1.01

1st Mass production

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**\*\*\* Basic Information \*\*\***  
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[Create date] 2018/11/30

-----  
[Program Name] System/Copy

-----  
[Version] 1.15

-----  
[PCB No.]

-----  
[Interchangeability] X / O

-----  
[Other Firmware Requirements] None

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[PCB Requirements] None

-----  
[Software category] Normal Release

-----  
[Release category] Normal Release

-----  
[Program category] Firmware

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Exported to(language) GEN(all)

[Firmware No.] D2555770R

[File Information]

File Name       D2555770R.fwu

File Type       Module for Service

Size            26.37 MB ( 27647108 byte )

[File Information]

File Name       D2555770R.rfu

File Type       Module for Remote Upgrade

Size            26.37 MB ( 27652352 byte )

[Availability of RFU] Yes

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[Production reflection] 2018/11

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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

Symptom corrected:

- When the device receive a response of "ICMP unreachable" from a network device, the communication might fail.
- It takes time to login after authenticating the card.
- If an application icon on the monitor is pressed just after the machine enters into energy saver mode, the application stalls.
- Copy application and FAX application might not start when pressing these application icons.
- Fails to download files from the firmware download center using ARFU.
- The machine might stall if it enters energy saving mode during ARFU.
- The machine might stall when executing SP5-858-122 and SP5-585-111
- Preview screen of a print job on Enhanced Locked Print might freeze, when the page is repeatedly moved.

Other changes:

- Added html format for Scan to Email function.
- A minor change only for the Japanese model.
- Added a new feature for the SmartSDK WebAPI.

-----  
[Modification history]

-----  
Version 1.14

Rank C

Symptom corrected:

- Installation of the Cheetah application from the Web Image Monitor fails when the SSL encryption level is set to "Ciphertext Priority" or "Ciphertext Only".
- When the SMC List is saved to the SD card as a CSV file, SP7507 (Latest Jam History) is not correctly recorded.
- The following symptoms might occur when executing:
  1. SP5-846-051 (Backup All Addr Book)
    - A backup failure message might appear.
  2. SP5-846-052 (Restore All Addr Book)
    - SC899 might occur.
    - The machine might stall.
- Login might fail and the application icon might not be displayed.
- If the device was restarted after sending the URL link to a PDF file scanned by OCR, the PDF file cannot be accessed from the URL link.
- When a capture and a thumbnail or preview are processed at the same time, the capture might not be processed normally if the capture setting is enabled and the Media Link Board is installed.
- Cancelling scanning might result in SC990/991 occurring and the machine rebooting.

Other changes:

- Supported the Remote Panel Operation.  
Multiple firmware modules are required to use Remote Panel Operation.  
Please refer to GKM Answer ID 251361 for detailed information regarding required firmware.



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Version 1.13

Rank C

Symptom corrected:

- Printer capture data might not be sent when printing a blank page if the capture function is enabled.

-----  
Version 1.11

Rank C

Symptom corrected:

- The user might not be able to log in if the machine repeatedly enters and exits Energy Saver Mode.
- If "Interrupt mode" is pressed in a Legacy application, the home screen might be displayed instead of the original application after "Interrupt mode" is released.
- If some characters are included in a user name, login authentication is not correctly done.
- SC845 might occur after ARFU.

-----  
Version 1.10

Rank C

Symptom corrected:

- If user authentication is set to something other than User Code, the Eco information screen might not be displayed at the expected timing when a user logs in.
- Cannot refer to the address book in the Simple Fax or Simple Copy applications under the following conditions:
  - Address book usage or registration restrictions are enabled
  - Administrator setting restrictions are enabled
- When the device is using "Card Authentication Package" or another custom authentication and then the following fields on the server are blank, the fields in the address book on the device might not be overwritten:
  - Email address
  - FAX address
  - Folder address
- When using Windows authentication, LDAP authentication, or external authentication, if exporting the address book from Device Manager NX, the export data cannot be imported.
- A bug of SmartSDK API was fixed.
- Remote un-installation for Streamline NX might fail.
- User usage restrictions do not come into effect if authentication is enabled in Quick Card Authentication.
- When the relationship between the host name and the IP address on the DNS server is modified, Java VM might not recognize the change.
- When JavaVM is not enabled and only IPv6 is enabled, the list of installed applications is not displayed in Extended Feature Info on the Web Image Monitor.
- If a jam occurs on the first page of a job on a machine set with

- user code authentication and then, the start button and log-out button are pressed together, the start button becomes ineffective.
- When the device has just gone into energy saver mode, even if a copy job is sent from a SmartSDK application, copying does not start.
  - The quota notification cannot be displayed on some SmartSDK applications.
  - In the "Printing text and serial numbers" mode, blank text with serial numbers cannot be copied on the copying sheets.
  - The following symptoms may occur when restarting the operation panel:
    - IC card does not respond
    - Cannot enter SP mode
    - Cannot connect to WIM (Web Image Monitor)
    - If log tracing on Web Image Monitor is cancelled just after using the function, the machine enters into off-line mode.
  - SC 998 might be displayed when rebooting the machine if ESA application is set as the priority function.
  - Error message appears, if the Home button is pressed while the screen is displaying the Current Job tab in Check Status.

Other changes:

- Supports Arabic
- Reboot will be retried if reboot fails after updating remotely.
- Added the function to set user usage restrictions for each application.
- Supported RICOH SmartSDK v2.40.
- Supported RICOH SmartSDK v2.50.
- Some of the ARFU related SP settings and logs can be obtained using @Remote.

-----  
Version 1.09

Other changes:

- Support for a new eMMC used on the CTL board.

-----  
Version 1.08

Symptom corrected:

A key mark may appear on the bypass tray even when [Auto Paper Select] is selected.

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.08 (D2555770J)  
Network Support v15.61.1 (D2555753F)  
Web Support v1.05 (D2555750G)  
Scanner v01.04 (D2555779F)  
Animation v1.02 (D2555752D)

Please refer to the RTB(No.RGene095) for details.

-----  
Version 1.07

Symptom corrected:

- A true/false based API control was added to check the capability of Scan and FAX.
- Printer SP, SP1-006-001 (Sample/Proof Print), was missing from SP mode.
- [NA - HC model] Fax may print out from the secure tray if you change the secure tray in user settings while receiving a fax.
- [NA-HC Model] "No paper loaded" alert may appear when the fax receiving tray and the secure tray are set as the same.

Other changes:

- The conditions that initiate the Auto Logout timer were changed as follows.  
SP5-401-230 bit7 = 1: Initiates after completing the last job run from the operation panel.  
SP5-401-230 bit7 = 0: Initiates after the last action performed on the operation panel.

-----  
Version 1.06

Symptom corrected:

- SC819 may occur, if the auto log-out timer and the energy saving timer are set to the same value.
- Error 22 may occur during ARFU.
- SC899 may occur when rebooting after updating a firmware.
- SC819 may occur after removing a jam that occurred while printing a large job that fully consumes the printer memory.
- After entering the user code to start up the Copy application, the user code input screen does not disappear.
- The operation panel may freeze, if the Start button is pressed in copy mode immediately after recovering from the energy saver mode.
- SC673-10 may occur when turning ON the machine power.

Other changes:

- Reduced time for controller firmware update and improved progress bar feature.
- Changed that the Engine(IPU) firmware version is displayed on the Web Image Monitor, the operation panel, and the Device Manager NX.  
This firmware is dependent on Web Support firmware v1.03(D2555750E) or later, so please be sure to update it.

-----  
Version 1.05

Symptom corrected:

- SC899 may occur when installing @Remote.
- The service mode lock can falsely be unlocked by the user under particular conditions.

Other changes:

- When executing a Firmware configuration task via Device Manager NX Pro/Enterprise, an RFU package with the appropriate destination (USA/Europe/Asia/Korea/Taiwan model or China model) can be selected and downloaded from the RICOH Global Server.
- More than five languages can be added to the "Change Langs. Widget" on the smart operation panel.

-----  
Version 1.04

Symptom corrected:

- Can not recovery from energy saving mode and SC672-11 may occur.
- Saving a scanned filed onto a USB memory stick may cause the file to corrupt.
- When an application accesses the HDD after turning ON the power, the machine may stall.
- SC899 may occur after updating with the packaged firmware.
- Recovering from the energy saver mode takes about 5 seconds longer than usual.
- Hard keys become ineffective on the Copy screen, if operated as follows:  
Log in and copy either on the exposure glass or from ADF, or run a batch copy job.  
Press the Stop key before the copies are delivered. Manually or automatically log out.  
Log in again.
- Behavior of the SDK applications (CAP/ELP/SLNX/GSNX/etc.) may be incorrect or inconsistent as described below. Both the Standard (Compatibility mode) and SOP Optimized (Hybrid mode) applications are affected by these issues.
  - Cannot log in.
  - Cannot scan.
  - Cannot print.
  - Error message appears.
  - etc.
- If the device enters Energy Save Mode after automatically logging out of an account, the device might stall when IC card authentication is used to recover from Energy Save Mode once out of every 200 times.
- If logged in using CAP and the device enters Energy Save mode, the device may stall and logging out will fail.
- The SLNX Hybrid mode application might not be installed correctly.
- Error occurs, if new addresses are continuously registered to the address book using Smart SDK.

Other changes:

- Modified the default value of SSL in the SMC Report.
- Added an SP setting for enabling or disabling the "Screen Monitoring" function.  
SP5-885-205: default = 0 ("Screen Monitoring" is enabled)  
This firmware is dependent on Web Support firmware v1.01 (D2555750C) or later, so please be sure to update that firmware as well.

-----  
Version 1.03

Symptom corrected:

- Package RFU update may fail.
- Emergency firmware update may not work occasionally.

Other changes:

ARFU function supported.

-----  
Version 1.02

Symptom corrected:

- SC819 may occur when printing particular files.

-----  
Version 1.01

1st Mass production



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

[Create date] 2018/08/03  
-----

[Program Name] Java VM v12 std for eDC  
-----

[Version] 12.62.00  
-----

[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.] D2555773K\_edc

[File Information]

File Name       D2555773K\_edc.ifu

File Type       Module for Service

Size            63.88 MB ( 66986380 byte )

[Availability of RFU] No  
-----

[Production reflection] 2018/07  
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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

Symptom corrected:

- The package firmware might not be updated if the firmware includes an application that needs to be rebooted when updated.

Other changes:

- Login might fail if attempting to log in with an IC card while the On-demand Print screen is displayed.

-----  
[Modification history]

-----  
Version 12.60.02

Rank C

Symptom corrected:

- Gloria don't start up when power off/on then system settings can't be used.

Other changes:

- Minor changes for its internal operations.

-----  
Version 12.57.00

Rank C

Symptom corrected:

- 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.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine, possibly leading to unexpected errors occurring with JavaVM or bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.
- The SDK application may stop suddenly due to the increase of memory usage.

-----  
Version 12.53.01

Symptom corrected:

- When showing the device status via a Solution Product (Streamline and CAP/ELP), the device's HDD capacity is not displayed correctly.
- Startup may take a long time and SC998 may occur if Streamline NX and CAP v2 are installed.
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may

- not be able to start during the boot process due to a Java VM error.
- 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 12.49.00

Symptom corrected:

Under the following conditions, when performing on-demand printing with the Enhanced Locked Print, the SC899 error might occur.

- More than 100 connected devices are set as the host name.
- Host name resolution fails on DNS server.

-----  
Version 12.47.01

Symptom corrected:

- Replacing with a new controller board installed with the latest Java VM version may disallow downgrading to previous version or retrieve customized version and cause trouble for users who wish to use specific or customized versions.
- When the relationship between the host name and the IP address on the DNS server is modified, Java VM might not recognize the change.
- 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.
- The DSDK application fails to connect to the LDAP server when using Kerberos authentication.

-----  
Version 12.45.00

Symptom Corrected:

1. If the "Chng Stgs" button is pressed after pressing the "Preview" button in ELP-NX, the "Change Print Settings" configuration may not be set correctly.
2. 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.
3. When "Tracking Permission" and "Stop Printing" are enabled in "Enhanced Print Volume Limitation", processing of the job might fail.
4. 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.
- etc.

-----  
Version 12.38.04

Symptom corrected:

- Sending fax from the document server using IPv4-mapped address may result in an error.
- An alert message unrelated to scan operation (for example, JAM) appears across the entire screen of the operation panel, disabling scan operation.
- If attempted to install an application from Web Image Monitor, installation may fail with an error.

-----  
Version 12.33.00

Symptom corrected:

- Error may occur, if ESA application is uninstalled with the extended features of WIM.
- Pre-installed application can be falsely uninstalled with the extended features of Web Image Monitor.
- Application may be not able to use because of not starting Java VM.
- ESA applications that support distribution of inbound FAX documents (such as GlobalScan or SLNX SFM) will deliver inbound FAX documents that include the metadata from other FAX jobs.

-----  
Version 12.25.05

1st Mass production

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

[Create date] 2018/08/03  
-----

[Program Name] Java VM v12 std UpdateTool  
-----

[Version] 12.62.00  
-----

[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.] D2555773K\_upd

[File Information]

File Name       D2555773K\_upd.exe

File Type       Module for Service

Size            63.62 MB ( 66715422 byte )

Check Sum -8Bit Sum: 84EB

                -16Bit Sum(Little Endian): 91D5

                -16Bit Sum(Big Endian): DE16

[Availability of RFU] No  
-----

[Production reflection] 2018/07  
-----

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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

Symptom corrected:

- The package firmware might not be updated if the firmware includes an application that needs to be rebooted when updated.

Other changes:

- Login might fail if attempting to log in with an IC card while the On-demand Print screen is displayed.

-----  
[Modification history]  
-----

Version 12.60.02

Rank C

Symptom corrected:

- Gloria don't start up when power off/on then system settings can't be used.

Other changes:

- Minor changes for its internal operations.

-----  
Version 12.57.00

Rank C

Symptom corrected:

- 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.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine, possibly leading to unexpected errors occurring with JavaVM or bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.
- The SDK application may stop suddenly due to the increase of memory usage.

-----  
Version 12.53.01

Symptom corrected:

- When showing the device status via a Solution Product (Streamline and CAP/ELP), the device's HDD capacity is not displayed correctly.

- Startup may take a long time and SC998 may occur if Streamline NX and CAP v2 are installed.
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may not be able to start during the boot process due to a Java VM error.
- 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 12.49.00

Symptom corrected:

Under the following conditions, when performing on-demand printing with the Enhanced Locked Print, the SC899 error might occur.

- More than 100 connected devices are set as the host name.
- Host name resolution fails on DNS server.

-----  
Version 12.47.01

Symptom corrected:

- Replacing with a new controller board installed with the latest Java VM version may disallow downgrading to previous version or retrieve customized version and cause trouble for users who wish to use specific or customized versions.
- When the relationship between the host name and the IP address on the DNS server is modified, Java VM might not recognize the change.
- 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.
- The DSDK application fails to connect to the LDAP server when using Kerberos authentication.

-----  
Version 12.45.00

Symptom Corrected:

1. If the "Chng Stgs" button is pressed after pressing the "Preview" button in ELP-NX, the "Change Print Settings" configuration may not be set correctly.
2. 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.
3. When "Tracking Permission" and "Stop Printing" are enabled in "Enhanced Print Volume Limitation", processing of the job might fail.
4. 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.
- etc.

-----  
Version 12.38.04

Symptom corrected:

- Sending fax from the document server using IPv4-mapped address may result in an error.
- An alert message unrelated to scan operation (for example, JAM) appears across the entire screen of the operation panel, disabling scan operation.
- If attempted to install an application from Web Image Monitor, installation may fail with an error.

-----  
Version 12.33.00

Symptom corrected:

- Error may occur, if ESA application is uninstalled with the extended features of WIM.
- Pre-installed application can be falsely uninstalled with the extended features of WIM.
- Application may be not able to use because of not starting Java VM.
- ESA applications that support distribution of inbound FAX documents (such as GlobalScan or SLNX SFM) will deliver inbound FAX documents that include the metadata from other FAX jobs.

-----  
Version 12.25.05

1st Mass production

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\*\*\* Basic Information \*\*\*

=====

[Create date] 2019/09/26

-----

[Program Name] Fax

-----

[Version] 09.00.00

-----

[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.] D2555776K

[File Information]

File Name       D2555776K.fwu

File Type       Module for Service

Size            2.37 MB ( 2486136 byte )

[File Information]

File Name       D2555776K.rfu

File Type       Module for Remote Upgrade

Size            2.38 MB ( 2490624 byte )

[Availability of RFU] Yes

-----

[Production reflection] 2019/09

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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:]  
Upgrade on the management

-----  
[Modification history]

-----  
Version 08.00.00  
Rank C

Symptom corrected:

- Pressing the 'Check' button when an error message is displayed while using Legacy Fax causes the regular Fax application to start up.
- The fax function might not work if the machine isn't turned off for over 300 days after disabling energy saving mode.

-----  
Version 07.00.00  
Rank C

Symptom corrected:

- When sending a fax via the SmartSDK, images might be missing or output at the wrong size.
- When Hook Dial is pressed or when Manual Entry is selected, the SmartFax application might crash.

-----  
Version 06.00.00  
Rank C

Symptom corrected:

- The printing and capturing of received faxes is stopped and the fax application screen might freeze when receiving faxes intermittently from multiple lines if the fax reception capturing function is enabled.

-----  
Version 05.00.00

Symptom corrected:

- Cannot exit from job stop screen and FAX function does not work, if the SNTP time setting and STR setting are enabled.  
[NA - HC model] Fax may print out from the secure tray if you change the secure tray in user settings while receiving a fax.  
[NA-HC Model] "No paper loaded" alert may appear when the fax receiving tray and the secure tray are set as the same.

Other changes:

- The conditions that initiate the Auto Logout timer were changed as follows.  
SP5-401-230 bit7 = 1: Initiates after completing the last job run from the operation panel.  
SP5-401-230 bit7 = 0: Initiates after the last action performed on the operation panel.

Version 04.00.00

Symptom corrected:

Network error (error code:13-17) may occur when using IP-FAX with wireless LAN.

-----  
Version 03.00.00

Minor change.

-----  
Version 02.00.00

Symptom corrected:

- If logged in with user authentication, FAX settings for Auto Print FAX Journal (SWUSR\_03, bit7) and setting whether or not to include sender name in reports (SWUSR\_04, bit5) may change after logging out.
- SC899 may occur when logging out from a machine with the user authentication enabled.

-----  
Version 01.00.00

1st Mass production



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\*\*\* Basic Information \*\*\*  
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[Create date] 2019/09/26

-----  
[Program Name] GWFCU3.8-8(WW)

-----  
[Version] 04.00.00

-----  
[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.] D2555778D

[File Information]

File Name       D2555778D.fwu

File Type       Module for Service

Size            3.94 MB ( 4129296 byte )

[File Information]

File Name       D2555778D.rfu

File Type       Module for Remote Upgrade

Size            3.95 MB ( 4137216 byte )

[Availability of RFU] Yes

-----  
[Production reflection] 2019/09

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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

Symptom corrected:

- When the Capture function for sending FAX is enabled, (SP5836-001 and SP5836-004 set to '1') the received FAX document cannot be printed correctly if the machine power is turned OFF while capturing the data.
- The machine will not print on the correct size paper if the following conditions are met:
  - \* User parameter switch 05 (just size printing for Fax document) is set as 1 (On)
  - \* No paper is set on the tray specified for A3 use
  - \* Receive an A3 size print job
- SC 871-01 might occur and the Fax application might go into a stall when recovering from the energy saving mode.

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[Modification history]

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Version 03.00.00

Symptom corrected:

- Communication error (code: 00-20/22) occurs, if the device is run on V.17 modulation and receives a fax containing many pages.
- Message "FAX jobs will be full soon" may appear after continuously using the Remote FAX.  
If continuously used in this condition, message "FAX jobs are full" appears and Remote FAX function becomes disabled.
- If [Store and Print] is enabled and a document is deleted from GlobalScan, the FAX function becomes inoperable.
- Network error (error code:13-17) may occur when using IP-FAX with wireless LAN.
- FAX cannot be sent with the status showing "processing" possibly followed by a SC843-02.
- When the scanning FAX memory is full, it will be recorded in the job log as "Canceled by User", not "Other Error".

-----  
Version 02.00.00

Symptom corrected:

The document cannot be sent and remains in the machine without an error message.

-----  
Version 01.00.00

1st Mass production

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

[Create date] 2019/09/26  
-----

[Program Name] Scanner  
-----

[Version] 01.09  
-----

[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.] D2555779L

[File Information]

File Name D2555779L.fwu

File Type Module for Service

Size 5.08 MB ( 5330832 byte )

[File Information]

File Name D2555779L.rfu

File Type Module for Remote Upgrade

Size 5.09 MB ( 5337344 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/06  
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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:]

Rank B

Symptom corrected:

- User and SP settings information in the Copy (Classic) application and the Scanner (Classic) application might be cleared after version up or down to specific firmware version.
- If a file was stored through the SmartSDK scanner application and user authentication is set to something other than basic, the file password might be displayed in the username on the file details screen.
- An error might occur when sending mail if the billing code is used with the Card Authentication Package v2.
- When sending a saved document, the captured image file might not be sent if a SmartSDK scanner application is installed.
- Image log of Scan job (OCR or high compression PDF) may not be collected correctly.

-----  
[Modification history]

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Version 01.08

No specification changes. The version number was updated for management purposes.

-----  
Version 01.07

Rank C

Symptom corrected:

- If the log capture function is enabled when scanning with the SmartSDK application, cancelling the scan job while the preview is displayed might cause the information of the captured image file to be recorded incorrectly.

-----  
Version 01.06

Rank C

Symptom corrected:

- The following bug was fixed again:  
When the device is accessed from Web Image Monitor just before scanning is finished under the following conditions, the device cannot be logged out from even if "Logout" is pressed, and then the Scanner application cannot be used:
  - When user authentication is enabled.
  - When custom authentication, such as Card Authentication Package, is being used.
- When SP5-836-143 is enabled, the combination of "Black and White" and "High Compression PDF" can be selected even though it should not be selectable.

-----  
Version 01.05

Symptom corrected:

- When scanning from SmartSDK applications, files are stored in PDF/A format even when trying to store the files in TIFF/JPEG format.
- When OCR is set and a document over 51 pages is sent by Scan to Email, sending might fail.
- When OCR is set and a document over 256 pages is scanned, the Scanner application might freeze or SC997 might occur.
- When scanning is conducted repeatedly from a SmartSDK application that enables image log capture, the captured image file is not deleted and remains on the hard disk.
- The image logs of jobs scanned by GlobalScan NX might not be captured.
- If scanning while "Download File Directly from URL Link" is set to On, "Insert Additional Email Info" is set to Off, and OCR is enabled, an SC899 error might occur after the original is scanned.
- When scanning with AirPrint in MacOS X 10.12 or later, the device sends a full color JPEG even if specifying a black and white JPEG.

Other changes:

- Supported RICOH SmartSDK v2.50.

-----  
Version 01.04

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.08 (D2555770J)  
Network Support v15.61.1 (D2555753F)  
Web Support v1.05 (D2555750G)  
Scanner v01.04 (D2555779F)  
Animation v1.02 (D2555752D)

Please refer to the RTB(No.RGene095) for details.

-----  
Version 01.03

Other changes:

- When the Auto Logout timer is invoked can be changed:  
SP5-401-230 bit7 = 1: When the job executed from the operation panel is completed.  
SP5-401-230 bit7 = 0: When the user last had interaction with the panel.

-----  
Version 01.02

Symptom corrected:

1. When many scan jobs are scanned from an application that is based on SmartSDK under the following conditions, an error might be displayed and the device might not be able to scan until the device is rebooted:
  - "User Authentication" is enabled.
  - "Download File Directly From URL Link" is enabled.
  - "File Emailing Method" is set to "Send URL Link".
  - "OCR setting" is enabled.
2. Under the following conditions, when scanning a document with the

OCR setting configured that consists of only blank pages or is not the original document, an SC899 error might occur:

- User authentication is enabled.
- In OCR settings, "Delete Blank Page" is enabled.
- "Download File Directly From URL Link" is set to "On".
- Scanner Features > File Emailing Method is set to either of the following:
  - Set to "Send URL Link".
  - Set to "Auto Detect" and specify the URL when scanning.
  - Set to "Set by User" and the data size of the scanned result exceeds the sending-size limit.

3. When the device is accessed from Web Image Monitor just before scanning is finished under the following conditions, the device cannot be logged out from even if "Logout" is pressed, and then the Scanner application cannot be used:

- When user authentication is enabled.
- When custom authentication, such as Card Authentication Package, is being used.

4. When the cover is open or a paper jam occurs while using another application such as Copy or Printer, if "Check Status" is pressed, "Check" is displayed in the Scanner area of the status bar even though Scanner is not being used.

This firmware is dependent on SmartScan firmware v1.11 (D2411456L) or later, so please be sure to update both firmwares.

-----  
Version 01.01

Symptom corrected:

1. When "Download File Directly From URL Link" is enabled and scan to URL is conducted 100 times or more, the scan job might fail.
2. When a scan job is conducted from "Simplified Scrn." under the following conditions, the files for that job cannot be deleted from the temporary memory after the job has been sent:
  - User Authentication is enabled.
  - "Download File Directly From URL Link" is enabled.
  - "File Emailing Method" is set to "Send URL Link" or "Auto Detect".
3. When scanning from Mac OS X 10.12 by using AirPrint, the output file cannot be opened in the viewer.
4. A3 size cannot be specified in macOS when scanning by using AirPrint.
5. When scanning from Mac OS X 10.12 by using AirPrint, the resolution is always 200 dpi.
6. When "Copy Server : Set Function" (SP5-967-001) is set to OFF on a printer that has an HDD installed, "Program Setting for Destinations" does not appear in Scanner Features.

-----  
Version 01.00

1st Mass production

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

[Create date] 2019/04/15  
-----

[Program Name] Engine  
-----

[Version] 01.08:01  
-----

[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.] D2555830B

[File Information]

File Name        D2555830B.fwu

File Type        Module for Service

Size             0.47 MB ( 492020 byte )

[File Information]

File Name        D2555830B.rfu

File Type        Module for Remote Upgrade

Size             0.48 MB ( 499968 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/03  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]  
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=====  
\*\*\* Important Notes \*\*\*  
=====

[Important Notes]  
-----

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

=====  
[Modifications made:]

Rank C

Symptom corrected:

- When scanning in color via the DF, a horizontal line may appear at the trailing edge.
- SC549 (Disconnected Fusing Lamp Error) may occur when printing continuously for roughly 200 pages on long, narrow paper, such as 4.25 x 11 inches.

Note 1: This firmware can be used on both standard and HC models.

Note 2: The speed decreases to 8 PPM when selecting certain paper types with the following custom sizes:

Types: Middle Thick to Thick Paper 3

Custom Sizes: (Width:70-105 mm, Length: over 210.1 mm) or  
(Width:105-148 mm, Length: over 216.1 mm)

Other changes:

- The machine will make less noise when waking up from sleep mode.

-----  
[Modification history]

-----  
Version 01.05:01

Symptom corrected:

The machine may freeze with "copying" displayed on the operation panel.

-----  
Version 01.04:01

1st Mass production



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

[Create date] 2019/09/26  
-----

[Program Name] System  
-----

[Version] 1.16  
-----

[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.] M2815745C

[File Information]

File Name M2815745C.fwu

File Type Module for Service

Size 21.09 MB ( 22109428 byte )

[File Information]

File Name M2815745C.rfu

File Type Module for Remote Upgrade

Size 21.09 MB ( 22114560 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/11  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]  
-----

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

[Important Notes]  
-----

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

=====  
[Modifications made:]

Rank C

Symptom corrected:

- The unused ports 54080 and 54443, which were open to the outside, can be now closed.

Use SP5-848-025 Bit 3 to revert to the previous implementation.

SP5-848-025 Bit 3

0: Port closed (Default)

1: Port open (Previous implementation)

- Color registration shift occurs.

-----  
[Modification history]

-----  
Version 1.15

Upgrade on the management

-----  
Version 1.14

Rank C

Symptom corrected:

- Wireless direct connection might fail in Group Owner Mode.

-----  
Version 1.13

Rank C

Supported:

- The CPU is replaced with a newer model, so the BIOS is also updated to support the new model.

-----  
Version 1.12

Rank C

Symptom corrected:

- The machine might not recover from SC995-002 after replacing the NVRAM on the controller board.

-----  
Version 1.11

Rank C

Symptom corrected:

- FAX transmission from PC-FAX driver might fail on the device with custom authentication, when the transmission is tried within five seconds after turning to energy saving mode.
- Image log might not be sent and stay in the device.
- When the SMC List is saved to the SD card as a CSV file, SP7507 (Latest Jam History) is not correctly recorded.
- It takes time to login after authenticating the card.

-----  
Version 1.10

Rank C

Symptom corrected:

- When connecting a key stroke card reader, the card reader is recognized as a keyboard and cannot be used.

-----  
Version 1.09

Rank C

Symptom corrected:

- If log tracing on Web Image Monitor is cancelled just after using the function, the machine enters into off-line mode.

-----  
Version 1.08

Other changes:

Support for a new eMMC used on the CTL board.

-----  
Version 1.06

System corrected:

- SC819 may occur, if the auto log-out timer and the energy saving timer are set to the same value.
- SC819 may occur after removing a jam that occurred while printing a large job that fully consumes the printer memory.
- SC673-10 may occur when turning ON the machine power.

Other changes:

- Reduced time for controller firmware update and improved progress bar feature.

-----  
Version 1.05

Symptom corrected:

- SC899 may occur when installing @Remote.
- The operation panel displays "Printout Failed" and jobs cannot be printed, if SMC all print (SP5-990-001) or NIB summary (SP5-990-007) is executed on machines set to Chinese.

-----  
Version 1.04

Symptom corrected:

- When an application accesses the HDD after turning ON the power, the machine may stall.
- Behavior of the SDK applications (CAP/ELP/SLNX/GSNX/etc.) may be incorrect or inconsistent as described below. Both the Standard (Compatibility mode) and SOP Optimized (Hybrid mode) applications are affected by these issues.
  - Cannot log in.
  - Cannot scan.
  - Cannot print.

- Error message appears.
- etc.

Other changed:

- Modified the default value of SSL in the SMC Report.

-----  
Version 1.03  
Minor change

-----  
Version 1.01  
Symptom corrected:  
- SC819 may occur when printing particular files.

-----  
Version 1.00  
1st Mass production

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

[Create date] 2019/11/01

-----  
[Program Name] Network Support

-----  
[Version] 15.64

-----  
[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.] M2815753J

[File Information]

File Name        M2815753J.fwu

File Type        Module for Service

Size             10.36 MB ( 10859164 byte )

[File Information]

File Name        M2815753J.rfu

File Type        Module for Remote Upgrade

Size             10.36 MB ( 10866944 byte )

[Availability of RFU] Yes

-----  
[Production reflection] 2019/11

=====  
**\*\*\* Note \*\*\***  
=====

[Note]

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

[Important Notes]

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

=====  
[Modifications made:]

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-1559) to a Padding Oracle Attack on CBC encryption has been fixed.
- To activate this fix, CBC mode must be disabled after updating the firmware.
- msh> set cbc down
- msh> logout
- Enter "yes" to save the changes.

-----  
[Modification history]

-----  
Version 15.63

Rank C

Symptom corrected:

- The DHCP address renewal request might be discarded when the DHCP server is configured as a failover cluster.

-----  
Version 15.62

Rank C

Symptom corrected:

- The device might fail to obtain the fax transmission result using FTP.
- SC819 might occur after updating firmware remotely.
- When conducting AirPrint, if port 80/TCP (HTTP) or port 631/TCP (IPP) in the printer is closed, the Apple device cannot find the printer.
- DNS name resolution for the device might fail if DDNS is enabled in a DHCPv6 environment.

-----  
Version 15.61

Symptom corrected:

- When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs.
- Fixed unnecessary processing affecting hard disk failure and deterioration.
- Unnecessary logs are recorded in the system logs when connecting to the network through a wireless LAN.

Other changes:

- The default value of "Algorithm Signature" has been changed from SHA1-RSA 2048 to SHA256-RSA 2048 when the device creates a new device certificate.
- Supported for Mopria Print Service.

This firmware is dependent on the following firmware modules. Please be sure to update all of them:

- Network Support v15.61 (M2815753F) or later
- Printer v1.09 (M2815756J) or later

-----  
Version 15.60

Symptom Corrected:

1. When the device is in STR mode, printing might stop and not be able to be conducted until the device is rebooted.
2. Administrator password cannot be changed via telnet.

-----  
Version 15.59

Symptom Corrected:

1. When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active", authentication will fail.
2. When the device has the USB device server option enabled and is connected to macOS via a USB cable, the PS driver cannot be installed on the computer. If the PS driver is already installed, printing might fail.
3. When AirPrint is set to "Disabled" in Web Image Monitor, AirPrint printing can still be conducted via USB cable.
4. If the device has not been used a significant amount of times, functions that require a network connection might fail.

-----  
Version 15.58

Other changes:

1. Support for AirPrint.

This firmware is dependent on Printer firmware v1.02(M2815756C) or later, so please be sure to also update that firmware.

2. To avoid a window that warns about the security certificate from being displayed when connected to Web Image Monitor, the default value of the "Permit SSL/TLS Communication" setting has been changed from "Ciphertext Priority" to "Ciphertext/Cleartext".

Note: Configurations will not be automatically changed when the firmware is updated. This value will be the default in devices that have Network Support v15.58 installed from mass production.

-----  
Version 15.57

1st Mass production

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

[Create date] 2019/09/26  
-----

[Program Name] Printer  
-----

[Version] 1.16  
-----

[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.] M2815756M

[File Information]

File Name M2815756M.fwu

File Type Module for Service

Size 3.54 MB ( 3709656 byte )

[File Information]

File Name M2815756M.rfu

File Type Module for Remote Upgrade

Size 3.54 MB ( 3715328 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/11  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]  
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=====  
\*\*\* Important Notes \*\*\*  
=====

[Important Notes]  
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=====  
\*\*\* Modification History \*\*\*  
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=====  
[Modifications made:]

Rank C

Symptom corrected:

- Printing from SDK-J applications might stall when the device is busy.

-----  
[Modification history]

-----  
Version 1.15

Rank C

Symptom corrected:

- If both Device Manager NX and Enhanced Locked Print NX v2 are installed, printing a job via Enhanced Locked Print NX v2 or logging out might fail.

-----  
Version 1.11

Rank C

Symptom corrected:

- Printing job might hang after recovering from a paper feed error.
- An SC899 error might occur if displaying the print job history on the Web Image Monitor after printing a file with a long name.
- If the machine reboots due to a forced shut-down, a power outage, unplugging a power cable, or an SC819 error, jobs using certain applications might not print.

-----  
Version 1.09

Symptom corrected:

- IPDS printing might stall if IPDS jobs are printed continuously.
- Portuguese wording correction in List/Test pages.

Other changes:

- Supported for Mopria Print Service.  
This firmware is dependent on the following firmware modules. Please be sure to update all of them:
  - Network Support v15.61 (M2815753F) or later
  - Printer v1.09 (M2815756J) or later

-----  
Version 1.07

Fixed:

- Any settings aren't displayed when creating a new IPDS Form via Web Image Monitor.

-----  
Version 1.06

Symptom corrected:

- After an SC reboot occurs, if the dialog window stating that the automatic reboot has occurred is not closed, SDK-J applications cannot be started, which results in an SC990 error occurring.

---

#### Version 1.05

##### Symptom corrected:

1. When attempting to print data that contains a blank page via AirPrint, the job might be canceled.
2. When printing from AirPrint, the paper weight "Plain 2 (75 to 81g/square metre)" is out of the search target of "Auto Tray Select" even if "Plain Paper or Recycled Paper" is specified in the job.

##### Other changes:

Minor changes.

---

#### Version 1.04

##### Symptom Corrected:

On the Configuration Page, the "Low Power Mode Timer On/Off" setting is marked with an asterisk that indicates the value is not the default even though the value of the setting is the default (Off).

---

#### Version 1.03

##### Symptom corrected:

An SC899 error might occur when the Printer application starts up, which causes the device to stall.

---

#### Version 1.02

##### Symptom corrected:

- The PDF file format is not supported when the HDD option is not installed.

##### Other changes:

- Support for AirPrint.

This firmware is dependent on Network Support firmware v15.58(M2815753C) or later, so please be sure to also update that firmware.

---

#### Version 1.01

1st Mass production

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

[Create date] 2018/11/30

-----  
[Program Name] System

-----  
[Version] 1.11

-----  
[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.] M2815770L

[File Information]

File Name        M2815770L.fwu

File Type        Module for Service

Size             21.08 MB ( 22108328 byte )

[File Information]

File Name        M2815770L.rfu

File Type        Module for Remote Upgrade

Size             21.09 MB ( 22114560 byte )

[Availability of RFU] Yes

-----  
[Production reflection] 2018/12

=====  
**\*\*\* Note \*\*\***  
=====

[Note]

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

[Important Notes]

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

=====  
[Modifications made:]

Rank C

Symptom corrected:

- FAX transmission from PC-FAX driver might fail on the device with custom authentication, when the transmission is tried within five seconds after turning to energy saving mode.
- Image log might not be sent and stay in the device.
- When the SMC List is saved to the SD card as a CSV file, SP7507 (Latest Jam History) is not correctly recorded.
- It takes time to login after authenticating the card.

-----  
[Modification history]

-----  
Version 1.10

Rank C

Symptom corrected:

- When connecting a key stroke card reader, the card reader is recognized as a keyboard and cannot be used.

-----  
Version 1.09

Rank C

Symptom corrected:

- If log tracing on Web Image Monitor is cancelled just after using the function, the machine enters into off-line mode.

-----  
Version 1.08

Other changes:

Support for a new eMMC used on the CTL board.

-----  
Version 1.06

System corrected:

- SC819 may occur, if the auto log-out timer and the energy saving timer are set to the same value.
- SC819 may occur after removing a jam that occurred while printing a large job that fully consumes the printer memory.
- SC673-10 may occur when turning ON the machine power.

Other changes:

- Reduced time for controller firmware update and improved progress bar feature.

-----  
Version 1.05

Symptom corrected:

- SC899 may occur when installing @Remote.
- The operation panel displays "Printout Failed" and jobs cannot be

printed, if SMC all print (SP5-990-001) or NIB summary (SP5-990-007)  
is executed on machines set to Chinese.

---

#### Version 1.04

##### Symptom corrected:

- When an application accesses the HDD after turning ON the power, the machine may stall.
- Behavior of the SDK applications (CAP/ELP/SLNX/GSNX/etc.) may be incorrect or inconsistent as described below. Both the Standard (Compatibility mode) and SOP Optimized (Hybrid mode) applications are affected by these issues.
  - Cannot log in.
  - Cannot scan.
  - Cannot print.
  - Error message appears.
  - etc.

##### Other changed:

- Modified the default value of SSL in the SMC Report.

---

#### Version 1.03

##### Minor change

---

#### Version 1.01

##### Symptom corrected:

- SC819 may occur when printing particular files.

---

#### Version 1.00

##### 1st Mass production

<<Package>>

Package(ALL) [BRMF1a\_pk]

D2555506H Ver. 8.00 -> D2555506J Ver. 9.00

<<Separate>>

System/Copy [BRMF1a\_system]

D2555770P Ver. 1.13 -> D2555745A Ver. 1.18

Fax [BRMF1a\_fax]

D2555776H Ver. 07.00.00 -> D2555776K Ver. 09.00.00

RemoteFax [BRMF1a\_fax2]

D2555777F Ver. 05.00.00 -> D2555777G Ver. 06.00.00

Scanner [BRMF1a\_scn]

D2555779J Ver. 01.07 -> D2555779L Ver. 01.09

Web Support [BRZMF1a\_web]

D2555750H Ver. 1.06 -> D2555750K Ver. 1.08

Network Support [BRZMF1a\_net]

D2555753K Ver. 15.65 -> D2555753M Ver. 15.67

NetworkDocBox [BRMF1a\_netfile]

D2555754E Ver. 1.03 -> D2555754G Ver. 1.05

Printer [BRZMF1e\_printer]

D2555756J Ver. 1.08 -> D2555756M Ver. 1.11

PCL [BRMF1e\_prt\_PCL]

D2555759D Ver. 1.04 -> D2555759G Ver. 1.07

PDF [BRMF1e\_prt\_PDF]

D2555762D Ver. 1.03 -> D2555762E Ver. 1.04

GWFCU3.8-8(WW) [GW1a\_efax\_fcu1T]

D2555778C Ver. 03.00.00 -> D2555778D Ver. 04.00.00

Engine(IPU) [BRMF1a\_eipu]

D2555810C Ver. 1.04:04 -> D2555810D Ver. 1.05:04

Engine [BRMF1a\_eplot]

D2555830A Ver. 01.05:01 -> D2555830B Ver. 01.08:01

M2a\_System [M2a\_System]

D2411425H Ver. 1.29 -> D2411425Q Ver. 1.36

M2a\_LegacyUI [M2a\_LegacyUI]

D2411427Z Ver. 1.22 -> D2411439C Ver. 1.26

M2a\_MeidaPrtScn [M2a\_MeidaPrtScn]

D2411447T Ver. 1.20 -> D2411447V Ver. 1.21

M2a\_SmartCopy [M2a\_SmartCopy]

D2411454Y Ver. 1.26 -> D2411448 Ver. 1.28

M2a\_SmartScan [M2a\_SmartScan]

D2411456T Ver. 1.17 -> D2411456X Ver. 1.20

M2a\_SmartFAX [M2a\_SmartFAX]

D2411457W Ver. 1.24 -> D2411457Z Ver. 1.27

Application Site [M2a\_zoo]

D2411467L Ver. 1.05.03 -> D2411467M Ver. 1.05.04

M2a\_cspf [M2a\_cspf]

D1961430B Ver. 2.02.00 -> D2411433 Ver. 2.02.01

M2a\_KrbServ [M2a\_KrbServ]

D2411430A Ver. 1.02.00

M2a\_M2a\_RemSptSvc [M2a\_RemSptSvc]

D1961459C Ver. 1.1

M2a\_RemAssist [M2a\_RemAssist]

D2411470A Ver. 1.0.5

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

[Create date] 2019/09/26  
-----

[Program Name] PCL  
-----

[Version] 1.07  
-----

[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.] D2555759G

[File Information]

File Name D2555759G.fwu

File Type Module for Service

Size 1.27 MB ( 1334820 byte )

[File Information]

File Name D2555759G.rfu

File Type Module for Remote Upgrade

Size 1.28 MB ( 1339648 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/06  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]  
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=====  
\*\*\* Important Notes \*\*\*  
=====

[Important Notes]  
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=====  
\*\*\* Modification History \*\*\*  
=====



=====  
[Modifications made:]

Rank C

Symptom corrected:

- Double-byte characters in Asian languages might be missing from a PCL5 host print job containing single-byte and double-byte characters.

-----  
[Modification history]

-----  
Version 1.06

Rank C

Symptom corrected:

- Double-byte characters of Asian languages such as Japanese, Chinese, and Korean might be missing.
- The overlay image might not be correctly printed with PCL.

-----  
Version 1.05

Rank C

Symptom corrected:

- If printing PCL5 data after installing the Andale font on the machine, some Chinese characters might not be printed.

-----  
Version 1.04

Symptom corrected:

1. PCL macros that were uploaded to the HDD cannot be printed.  
(GFPR#RE16080014)
2. When characters that contain the incorrect TrueType font data are printed, not only are incorrect characters missing but so are correct characters that follow incorrect characters.  
(GFPR#RE16030046)

-----  
Version 1.03

Symptom corrected:

Some lines of text and/or dotted lines might be missing when using the PCL overlay macro. (GFPR#RC16040013)

-----  
Version 1.02

1st Mass production



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

[Create date] 2018/11/21  
-----

[Program Name] PDF  
-----

[Version] 1.04  
-----

[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.] D2555762E

[File Information]

File Name       D2555762E.fwu

File Type       Module for Service

Size            4.28 MB ( 4483844 byte )

[File Information]

File Name       D2555762E.rfu

File Type       Module for Remote Upgrade

Size            4.28 MB ( 4489472 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2018/11  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]  
-----

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

[Important Notes]  
-----

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

=====  
[Modifications made:]

Rank C

Symptom corrected:

- The device might stall during PDF direct printing if a job contains a Bezier curve.
- The device might stall during PDF direct printing if a spot color is used.
- If a PDF contains transparent images, printing might be canceled due to a lack of memory.
- Printing a PDF with a transparent image and a shaded image might take a long time due to memory release processing, and the shaded image might not be printed as expected.
- When printing a PDF file that contains transparent images via PDF Direct, the output might be distorted.
- Images might be missing and an invalid font error might occur when printing a webpage with Adobe Typekit fonts.
- When sending a fax via the SmartSDK, images might be missing or output at the wrong size.
- A PDF might not print if the previous PDF print job was cancelled manually.

-----  
[Modification history]

-----  
Version 1.03

Fixed:

- SC899 might occur if there is a large number of different characters used in a print job.
- The device might stall if a job includes text outside the printable area of the page.
- When printing a PDF file that contains graphics or text via PDF Direct, an SC899 error might occur.
- SC899 might occur while printing via PDF Direct if a job includes more than 500 pages.
- It takes a significant amount of time to output the first page by using PDF Direct Print when the print data contains a large number of pages. (GFPR#RE16060016)
- An incorrect paper size may be fed while printing via AirPrint.

-----  
Version 1.02

Symptom corrected:

- When receiving PS data, the status stays "Printing..." and the device might hang up.
- Images might be missing when printing from the PS3 driver.
- When printing PDF data that includes overprinting via PDF Direct Print, after taking a significant amount of time to print the first few pages in a job, the job might be cancelled.

-----  
Version 1.01

1st Mass production



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

[Create date] 2019/08/02  
-----

[Program Name] PCL  
-----

[Version] 1.07  
-----

[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.] M2815759G

[File Information]

File Name M2815759G.fwu

File Type Module for Service

Size 1.27 MB ( 1335096 byte )

[File Information]

File Name M2815759G.rfu

File Type Module for Remote Upgrade

Size 1.28 MB ( 1339648 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/07  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]  
-----

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

[Important Notes]  
-----

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

=====  
[Modifications made:]

Rank C

Symptom corrected:

- Double-byte characters in Asian languages might be missing from a PCL5 host print job containing single-byte and double-byte characters.

-----  
[Modification history]

-----  
Version 1.06

Rank C

Symptom corrected:

- Double-byte characters of Asian languages such as Japanese, Chinese, and Korean might be missing.
- The overlay image might not be correctly printed with PCL.

-----  
Version 1.05

Rank C

Symptom corrected:

- If printing PCL5 data after installing the Andale font on the machine, some Chinese characters might not be printed.

-----  
Version 1.04

Symptom corrected:

1. PCL macros that were uploaded to the HDD cannot be printed.  
(GFPR#RE16080014)
2. When characters that contain the incorrect TrueType font data are printed, not only are incorrect characters missing but so are correct characters that follow incorrect characters.  
(GFPR#RE16030046)

-----  
Version 1.03

Symptom corrected:

Some lines of text and/or dotted lines might be missing when using the PCL overlay macro. (GFPR#RC16040013)

-----  
Version 1.02

1st Mass production





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

[Create date] 2019/08/29  
-----

[Program Name] PDF  
-----

[Version] 1.04  
-----

[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.] M2815762E

[File Information]

File Name M2815762E.fwu

File Type Module for Service

Size 4.28 MB ( 4484868 byte )

[File Information]

File Name M2815762E.rfu

File Type Module for Remote Upgrade

Size 4.28 MB ( 4489472 byte )

[Availability of RFU] Yes  
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[Production reflection] 2019/07  
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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

Symptom corrected:

- The device might stall during PDF direct printing if a job contains a Bezier curve.
- The device might stall during PDF direct printing if a spot color is used.
- If a PDF contains transparent images, printing might be canceled due to a lack of memory.
- A PDF might not print if the previous PDF print job was cancelled manually.
- Printing a PDF with a transparent image and a shaded image might take a long time due to memory release processing, and the shaded image might not be printed as expected.
- Images might be missing and an invalid font error might occur when printing a webpage with Adobe Typekit fonts.
- When printing a PDF file that contains transparent images via PDF Direct, the output might be distorted.
- SC899 might occur when direct printing a PDF file that was saved incrementally.
- SC899 might occur when direct printing a PDF file that contains JBIG2-compressed data.

-----  
[Modification history]

-----  
Version 1.03

Fixed:

- When printing a PDF file that contains graphics or text via PDF Direct, an SC899 error might occur.
- SC899 might occur if there is a large number of different characters used in a print job.
- SC899 might occur while printing via PDF Direct if a job includes more than 500 pages.
- The device might stall if a job includes text outside the printable area of the page.
- It takes a significant amount of time to output the first page by using PDF Direct Print when the print data contains a large number of pages. (GFPR#RE16060016)
- An incorrect paper size may be fed while printing via AirPrint.

-----  
Version 1.02

Symptom corrected:

- When receiving PS data, the status stays "Printing..." and the device might hang up.
- Images might be missing when printing from the PS3 driver.
- When printing PDF data that includes overprinting via PDF Direct Print, after taking a significant amount of time to print the first few pages in a job, the job might be cancelled.

-----  
Version 1.01

1st Mass production

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

[Create date] 2019/03/06  
-----

[Program Name] Font EXP  
-----

[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] Firmware  
-----

Exported to(language) GEN(all)

[Firmware No.] M2815765

[File Information]

File Name        M2815765.fwu

File Type        Module for Service

Size             0.10 MB ( 103204 byte )

[File Information]

File Name        M2815765.rfu

File Type        Module for Remote Upgrade

Size             0.11 MB ( 110848 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2015/12  
-----

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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

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[Modification history]

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

[Create date] 2017/06/19  
-----

[Program Name] Option IPDS  
-----

[Version] 8.638  
-----

[PCB No.]  
-----

[Interchangeability] X / O  
-----

[Other Firmware Requirements] None  
-----

[PCB Requirements] None  
-----

[Software category] Normal Release  
-----

[Release category] Normal Release  
-----

[Program category] Firmware  
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Exported to(language) GEN(all)

[Firmware No.] D3CP5712

[File Information]

File Name      D3CP5712.fwu

File Type      Module for Service

Size           8.96 MB ( 9390604 byte )

[File Information]

File Name      D3CP5712.rfu

File Type      Module for Remote Upgrade

Size           8.96 MB ( 9396480 byte )  
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[Production reflection] 1st Mass Production  
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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:]  
1st mass production

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[Modification history]

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

[Create date] 2019/04/15  
-----

[Program Name] Engine  
-----

[Version] 01.08:01  
-----

[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.] M2815830B

[File Information]

File Name        M2815830B.fwu

File Type        Module for Service

Size             0.47 MB ( 492020 byte )

[File Information]

File Name        M2815830B.rfu

File Type        Module for Remote Upgrade

Size             0.48 MB ( 499968 byte )

[Availability of RFU] Yes  
-----

[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

Symptom corrected:

- SC549 (Disconnected Fusing Lamp Error) may occur when printing continuously for roughly 200 pages on long, narrow paper, such as 4.25 x 11 inches.

Note 1: This firmware can be used on both standard and HC models.

Note 2: The speed decreases to 8 PPM when selecting certain paper types with the following custom sizes:

Types: Middle Thick to Thick Paper 3

Custom Sizes: (Width:70-105 mm, Length: over 210.1 mm) or

(Width:105-148 mm, Length: over 216.1 mm)

Other changes:

- The machine will make less noise when waking up from sleep mode.

-----  
[Modification history]

-----  
Version 01.05:01

Symptom corrected:

The machine may freeze with "copying" displayed on the operation panel.

-----  
Version 01.04:01

1st Mass production



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

[Create date] 2019/10/18

-----  
[Program Name] Java VM v12 for eDC

-----  
[Version] 12.67.00

-----  
[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.] M5005752G\_edc

[File Information]

File Name        M5005752G\_edc.ifu

File Type        Module for Service

Size             63.79 MB ( 66889416 byte )

[Availability of RFU] No

-----  
[Production reflection]

=====  
\*\*\* Note \*\*\*  
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[Note]

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

[Important Notes]

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

[Modifications made:]

Rank C

Symptom corrected:

- If the "Below 128 bit SSL Key" prevention setting is activated under the "Select Available Functions" menu, it may not be correctly applied to the machine.
- 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.
- Application installation using Remote Install Manager through IEEE 802.11 Interface Unit might be failed.

-----  
[Modification history]  
-----

Version 12.65.01

Rank C

Symptom corrected:

- Errors might be occurred by using the Globalscan.
- When JavaVM launched "NullPointerException" error message may be displayed, and JavaVM startup may fail.
- SDK application might not startup if the Stream Line NX settings changed.

-----  
Version 12.61.03

Rank C

Symptom corrected:

- Gloria don't start up when power off/on then system settings can't be used.
- The package firmware might not be updated if the firmware includes an application that needs to be rebooted when updated.

Other changes:

- Minor changes for its internal operations.
- Login might fail if attempting to log in with an IC card while the On-demand Print screen is displayed.

-----  
Version 12.57.00

Rank C

Symptom corrected:

- 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.
- FAX cannot be transmitted if CAP v2 is installed
- The printing speed is not as fast as the past model if CAP V2 is installed.
- The SDK application may stop suddenly due to the increase of memory usage.
- The wrong JavaVM firmware can be mistakenly installed on any machine, possibly leading to unexpected errors occurring with JavaVM or bootup failing.

-----  
Version 12.52.00

Symptom corrected:

- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may not be able to start during the boot process due to a Java VM error.
- 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 12.48.02

Symptom corrected:

Under the following conditions, when performing on-demand printing with the Enhanced Locked Print, the SC899 error might occur.

- More than 100 connected devices are set as the host name.
- Host name resolution fails on DNS server.

-----  
Version 12.46.01

Symptom corrected:

- Replacing with a new controller board installed with the latest Java VM version may disallow downgrading to previous version or retrieve customized version and cause trouble for users who wish to use specific or customized versions.
- When the relationship between the host name and the IP address on the DNS server is modified, Java VM might not recognize the change.
- 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.
- The DSDK application fails to connect to the LDAP server when using Kerberos authentication.

-----  
Version 12.43.01

Symptom corrected:

1. If the "Chng Stgs" button is pressed after pressing the "Preview" button in ELP-NX, the "Change Print Settings" configuration may not be set correctly.
2. 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.
3. When "Tracking Permission" and "Stop Printing" are enabled in "Enhanced Print Volume Limitation", processing of the job might fail.
4. 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.
- etc.

-----  
Version 12.39.02

Symptom corrected:

- Cannot use applications because the Java VM does not activate.
- Sending fax from the document server using IPv4-mapped address may result in an error.
- If attempted to install an application from Web Image Monitor, installation may fail with an error.

-----  
Version 12.26.05

1st Mass production

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

[Create date] 2019/10/18

-----  
[Program Name] Java VM v12 UpdateTool

-----  
[Version] 12.67.00

-----  
[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.] M5005752G\_upd

[File Information]

File Name        M5005752G\_upd.exe

File Type        Module for Service

Size             63.51 MB ( 66597500 byte )

Check Sum -8Bit Sum: AF18

                 -16Bit Sum(Little Endian): 7A06

                 -16Bit Sum(Big Endian): 4D12

[Availability of RFU] No

-----  
[Production reflection]

=====  
\*\*\* Note \*\*\*  
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[Note]

=====  
\*\*\* Important Notes \*\*\*  
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[Important Notes]

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

[Modifications made:]

Rank C

Symptom corrected:

- If the "Below 128 bit SSL Key" prevention setting is activated under the "Select Available Functions" menu, it may not be correctly applied to the machine.
- 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.
- Application installation using Remote Install Manager through IEEE 802.11 Interface Unit might be failed.

-----  
[Modification history]

-----  
Version 12.65.01

Rank C

Symptom corrected:

- Errors might be occurred by using the Globalscan.
- When JavaVM launched "NullPointerException" error message may be displayed, and JavaVM startup may fail.
- SDK application might not startup if the Stream Line NX settings changed.

-----  
Version 12.61.03

Rank C

Symptom corrected:

- Gloria don't start up when power off/on then system settings can't be used.
- The package firmware might not be updated if the firmware includes an application that needs to be rebooted when updated.

Other changes:

- Minor changes for its internal operations.
- Login might fail if attempting to log in with an IC card while the On-demand Print screen is displayed.

-----  
Version 12.57.00

Rank C

Symptom corrected:

- 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.
- FAX cannot be transmitted if CAP v2 is installed
- The printing speed is not as fast as the past model if CAP V2 is installed.
- The SDK application may stop suddenly due to the increase of memory usage.
- The wrong JavaVM firmware can be mistakenly installed on any machine, possibly leading to unexpected errors occurring with JavaVM or bootup failing.

-----  
Version 12.52.00

Symptom corrected:

- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may not be able to start during the boot process due to a Java VM error.
- 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 12.48.02

Symptom corrected:

Under the following conditions, when performing on-demand printing with the Enhanced Locked Print, the SC899 error might occur.

- More than 100 connected devices are set as the host name.
- Host name resolution fails on DNS server.

-----  
Version 12.46.01

Symptom corrected:

- Replacing with a new controller board installed with the latest Java VM version may disallow downgrading to previous version or retrieve customized version and cause trouble for users who wish to use specific or customized versions.
- When the relationship between the host name and the IP address on the DNS server is modified, Java VM might not recognize the change.
- 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.
- The DSDK application fails to connect to the LDAP server when using Kerberos authentication.

-----  
Version 12.43.01

Symptom corrected:

- If the "Chng Stgs" button is pressed after pressing the "Preview" button in ELP-NX, the "Change Print Settings" configuration may not be set correctly.
  - 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.
  - When "Tracking Permission" and "Stop Printing" are enabled in "Enhanced Print Volume Limitation", processing of the job might fail.
  - 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.
- etc.

-----  
Version 12.39.02

Symptom corrected:

- Cannot use applications because the Java VM does no activate.
- Sending fax from the document server using IPv4-mapped address may result in an error.
- If attempted to install an application from Web Image Monitor, installation may fail with an error.

-----  
Version 12.26.05

1st Mass production



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

[Create date] 2017/08/28  
-----

[Program Name] animation  
-----

[Version] 1.02  
-----

[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(en,f,e,d,i,nl,s,n,dk,sf,p,pl,h,cz,ru,br,tr,ca,gr)

[Firmware No.] D2555752D

[File Information]

File Name      D2555752D.fwu

File Type      Module for Service

Size           10.87 MB ( 11400776 byte )

[File Information]

File Name      D2555752D.rfu

File Type      Module for Remote Upgrade

Size           10.88 MB ( 11407616 byte )

[Availability of RFU] Yes  
-----

[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:]

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.08 (D2555770J)

Network Support v15.61.1 (D2555753F)

Web Support v1.05 (D2555750G)

Scanner v01.04 (D2555779F)

Animation v1.02 (D2555752D)

Please refer to the RTB(No.RGene095) for details.

-----  
[Modification history]  
-----

Version 1.01

Symptom corrected:

Preinstalled applications can be accidentally uninstalled from Web Image Monitor.

-----  
Version 1.00

1st Mass production

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

[Create date] 2017/09/11  
-----

[Program Name] GWFCU3.8-8(WW)  
-----

[Version] 03.00.00  
-----

[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.] D2555778C

[File Information]

File Name D2555778C.fwu

File Type Module for Service

Size 3.94 MB ( 4129296 byte )

[File Information]

File Name D2555778C.rfu

File Type Module for Remote Upgrade

Size 3.95 MB ( 4137216 byte )

[Availability of RFU] Yes  
-----

[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:]

Symptom corrected:

- Communication error (code: 00-20/22) occurs, if the device is run on V.17 modulation and receives a fax containing many pages.

- Message "FAX jobs will be full soon" may appear after continuously using the Remote FAX.

If continuously used in this condition, message "FAX jobs are full" appears and Remote FAX function becomes disabled.

- If [Store and Print] is enabled and a document is deleted from GlobalScan, the FAX function becomes inoperable.

- Network error (error code:13-17) may occur when using IP-FAX with wireless LAN.

- FAX cannot be sent with the status showing "processing" possibly followed by a SC843-02.

- When the scanning FAX memory is full, it will be recorded in the job log as "Canceled by User", not "Other Error".

-----  
[Modification history]

-----  
Version 02.00.00

Symptom corrected:

The document cannot be sent and remains in the machine without an error message.

-----  
Version 01.00.00

1st Mass production

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

[Create date] 2019/11/01  
-----

[Program Name] Network Support  
-----

[Version] 15.68  
-----

[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.] D2555753N

[File Information]

File Name        D2555753N.fwu

File Type        Module for Service

Size             11.51 MB ( 12070208 byte )

[File Information]

File Name        D2555753N.rfu

File Type        Module for Remote Upgrade

Size             11.52 MB ( 12075264 byte )

[Availability of RFU] Yes  
-----

[Production reflection] 2019/11  
-----

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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

Symptom corrected:

- A vulnerability (CVE-2019-1559) to a Padding Oracle Attack on CBC encryption has been fixed.
- To activate this fix, CBC mode must be disabled after updating the firmware.
- msh> set cbc down
- msh> logout
- Enter "yes" to save the changes.

-----  
[Modification history]

-----  
Version 15.67

Rank C

Symptom corrected:

- The DHCP address renewal request might be discarded when the DHCP server is configured as a failover cluster.

Other changes:

- It is now possible to close the following ports with a Telnet command:

- \* 111/tcp
- \* 111/udp
- \* 1022/tcp
- \* 1023/tcp
- \* 1022/udp
- \* 1023/udp
- \* 2049/tcp
- \* 18315/tcp
- \* 54080/tcp
- \* 54443/tcp
- \* 65000/tcp
- \* 65001/tcp

Please refer to the RTB (RGene108a) for more details.

- Even when the certificate key length for @Remote is set to 512-bit, the device can connect to the firmware download server (for ARFU, SFU, etc.).
- Supported RICOH SmartSDK v2.60

-----  
Version 15.66

Rank C

Symptom corrected:

- DNS name resolution for the device might fail if DDNS is enabled in a DHCPv6 environment.

-----  
Version 15.65

Rank C

Symptom corrected:

- When conducting Scan to Folder using SMBv2/v3, if the device receives UDP communication from the outside to the port used by SMBv2/v3, Scan to Folder might fail.

-----  
Version 15.64  
Rank C

Symptom corrected:

- The device might fail to obtain the fax transmission result using FTP.
- SMB client timeout configuration is not correctly applied in the device.
- SC899 occurs when conducting Scan to Folder, and the device might automatically restart.
- When conducting Scan to Folder, if a host name is resolved to multiple IP addresses by NBNS, the device tries to connect to only the first resolved IP address.
- When a HP device is working on the same subnet, Scan to Folder will fail.
- Network browsing sometimes fails when conducting Scan to Folder.
- SC819 might occur after ARFU or RFU.
- The device might freeze during data transmission when conducting Scan to Folder with SMBv2/v3.
- When conducting Scan to Folder in a high-load network environment, the device's status gets stuck on sending and the scanner becomes unusable.
- When conducting AirPrint, if port 80/TCP (HTTP) or port 631/TCP (IPP) in the printer is closed, the Apple device cannot find the printer.

-----  
Version 15.63

Symptom corrected:

- When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs.
- Fixed unnecessary processing affecting hard disk failure and deterioration.
- Unnecessary logs are recorded in the system logs when connecting to the network through a wireless LAN.
- Fixed the WebAPI bug when obtaining the network property information.

Other changes:

- The default value of "Algorithm Signature" has been changed from SHA1-RSA 2048 to SHA256-RSA 2048 when the device creates a new device certificate.
  - Supported for Mopria Print Service.
- This firmware is dependent on the following firmware modules. Please be sure to update all of them:
- Network Support v15.63 (D2555753H) or later
  - Printer v1.08 (D2555756J) or later

-----  
Version 15.62

Symptom corrected:

- On a device with SMBv2/v3 firmware, when sending a scanned or fax document using the Hotfolder plug-in for GlobalScan or StreamlineNX, an "incorrect" document may be sent to the destination and may be lost the original document.

-----  
Version 15.61.1

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.08 (D2555770J)

Network Support v15.61.1 (D2555753F)

Web Support v1.05 (D2555750G)

Scanner v01.04 (D2555779F)

Animation v1.02 (D2555752D)

Please refer to the RTB(No.RGene095) for details.

-----  
Version 15.60

Symptom Corrected:

1. When the device is in STR mode, printing might stop and not be able to be conducted until the device is rebooted.
2. Administrator password cannot be changed via telnet.

-----  
Version 15.59

Symptom Corrected:

1. When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active", authentication will fail.
2. When the device has the USB device server option enabled and is connected to macOS via a USB cable, the PS driver cannot be installed on the computer. If the PS driver is already installed, printing might fail.
3. When AirPrint is set to "Disabled" in Web Image Monitor, AirPrint printing can still be conducted via USB cable.
4. If the device has not been used a significant amount of times, functions that require a network connection might fail.

-----  
Version 15.58.1

Other changes:

1. Support for AirPrint.

This firmware is dependent on Printer firmware v1.02(D2555756C) or later, so please be sure to also update that firmware.

2. To avoid a window that warns about the security certificate from being displayed when connected to Web Image Monitor, the default value of the "Permit SSL/TLS Communication" setting has been changed from "Ciphertext Priority" to "Ciphertext/Cleartext".

Note: Configurations will not be automatically changed when the firmware is updated. This value will be the default in devices that have Network Support v15.58.1 installed from mass production.



-----  
Version 15.57  
1st Mass production

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\*\*\* Basic Information \*\*\*  
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[Create date] 2019/09/26  
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[Program Name] NetworkDocBox  
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[Version] 1.05  
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[PCB No.]  
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[Interchangeability] X / O  
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[Other Firmware Requirements] None  
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[PCB Requirements] None  
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[Software category] Normal Release  
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[Release category] Normal Release  
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[Program category] Firmware  
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Exported to(language) GEN(all)

[Firmware No.] D2555754G

[File Information]

File Name      D2555754G.fwu

File Type      Module for Service

Size           2.23 MB ( 2341140 byte )

[File Information]

File Name      D2555754G.rfu

File Type      Module for Remote Upgrade

Size           2.24 MB ( 2347264 byte )

[Availability of RFU] Yes  
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[Production reflection] 2019/09  
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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

Symptom corrected:

- When SmartSDK WebAPI is used for image log and job log notification, there might be a delay if multiple log notifications are sent at the same time.
- When using a SmartSDK log capturing function and executing multiple stored scan jobs, only one image job might be recorded in the log.

Other changes:

- Supported RICOH SmartSDK v2.60

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[Modification history]

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Version 1.04

Rank C

Symptom corrected:

- When using the application for the Japanese market, the Job Log transfer settings might not be set correctly when importing the preference information from another device.
- When the OCR setting is enabled, PDF downloads might fail resulting in being unable to connect to the Web Image Monitor.
- The log time reported to the SmartSDK application might be wrong.

Other changes:

- Added a new feature for the SmartSDK WebAPI.
- The following values can be set with solution software that uses SOAP I/F.
- "SNMPv3 Setting"
  - SNMPv3 Trap Communication
  - Encryption Algorithm
  - Permit SNMPv3 Communication
- "Program/Change Administrator"
  - Encryption Password

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Version 1.03

Rank C

Symptom corrected:

- If the device is abnormally turned off, the collect logs settings might be initialized and the log data might not be transferred after that.

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Version 1.02

Rank C

Symptom corrected:

- When the following conditions are met, SC899 and SC991 might occur:
  - Job Log collection is being performed.
  - The document being faxed is targeted for capture, and the fax is sent.

- When the image log capture function is enabled and a large number of jobs are performed, the capture cannot be executed and the device will freeze.
- Unnecessary retransmissions might be occur in the image log capture.
- The device might not be able to be accessed via Web Image Monitor.

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Version 1.01

Symptom corrected:

1. When scanning by using GlobalScan NX on the model with the Smart Operation Panel, the image log capture file will be sent to an incorrect folder even if the file includes the same user ID as before.
2. When attempting to back up the address book from Device Manager NX, the backup will fail and printer, copy, scan, and fax jobs cannot be conducted.

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Version 1.00

1st Mass production

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\*\*\* Basic Information \*\*\*  
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[Create date] 2017/12/22  
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[Program Name] XPS  
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[Version] 1.35  
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[PCB No.]  
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[Interchangeability] X / O  
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[Other Firmware Requirements] None  
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[PCB Requirements] None  
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[Software category] Normal Release  
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[Release category] Normal Release  
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[Program category] Firmware  
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Exported to(language) GEN(all)

[Firmware No.] D3CP5738A

[File Information]

File Name       D3CP5738A.fwu

File Type       Module for Service

Size            1.93 MB ( 2020408 byte )

[File Information]

File Name       D3CP5738A.rfu

File Type       Module for Remote Upgrade

Size            1.93 MB ( 2027776 byte )

[Availability of RFU] Yes  
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[Production reflection] 2017/12  
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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:

- Firmware updates might fail on SP 5300/SP 5310.

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[Modification history]  
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Version 1.34

1st Mass production

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**\*\*\* Basic Information \*\*\***  
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[Create date] 2018/11/21  
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[Program Name] NetworkDocBox  
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[Version] 1.01  
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[PCB No.]  
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[Interchangeability] X / O  
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[Other Firmware Requirements] None  
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[PCB Requirements] None  
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[Software category] Normal Release  
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[Release category] Normal Release  
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[Program category] Firmware  
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Exported to(language) GEN(all)

[Firmware No.] M2815754C

[File Information]

File Name        M2815754C.fwu

File Type        Module for Service

Size             0.94 MB ( 984664 byte )

[File Information]

File Name        M2815754C.rfu

File Type        Module for Remote Upgrade

Size             0.95 MB ( 991488 byte )

[Availability of RFU] Yes  
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[Production reflection] 2018/12  
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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

Symptom corrected:

- When using the application for the Japanese market, the Job Log transfer settings might not be set correctly when importing the preference information from another device.
- If the device is abnormally turned off, the collect logs settings might be initialized and the log data might not be transferred after that.
- When attempting to back up the address book from Device Manager NX, the backup will fail and printer, copy, scan, and fax jobs cannot be conducted.

Other changes:

- The following values can be set with solution software that uses SOAP I/F.
- "SNMPv3 Setting"
  - SNMPv3 Trap Communication
  - Encryption Algorithm
  - Permit SNMPv3 Communication
- "Program/Change Administrator"
  - Encryption Password

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[Modification history]  
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Version 1.00

1st Mass production