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*** Basic Information ***
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[Create date] 2019/11/14

[Program Name] GDI

[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(all)

[Firmware No.] M0A15053D

[File Information]

File Name M0A15053D.zip

File Type Module for Service

Size 2.20 MB (2307304 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-14302) to allowing access to memory data via the UART port has been fixed.

[Modification history]

Version 1.01

Symptom corrected:

- If the power button is pressed and held down for over three seconds, the machine goes in to sleep mode and cannot be turned off by releasing the button.

Version 1.00

Firmware officially released for mass production units.

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*** Basic Information ***
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[Create date] 2019/11/14

[Program Name] GDI

[Version] 1.10

[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.] M0A25053H

[File Information]

File Name M0A25053H.zip

File Type Module for Service

Size 3.74 MB (3917303 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-14302) to allowing access to memory data via the UART port has been fixed.

[Modification history]

Version 1.09

Symptom corrected

- Fail to add IPP printer in Server 2016.

Version 1.08

Symptom corrected:

- If the power button is pressed and held down for over three seconds, the machine goes in to sleep mode and cannot be turned off by releasing the button.

Version 1.07

Symptom corrected:

- The certificate standards for PTT in Malaysia was not met.
- The machine cannot be discovered via Bonjour protocol.

Version 1.05

The version was upgraded without any changes for the firmware.

Version 1.04

Symptom corrected:

- White streaks appear along the feed direction, if copied from the ADF after turning OFF/ON the power. (MF model only).
- NOTE: The problem occurrence frequency is approximately 1/60 times.

Version 1.00

Firmware officially released for mass production units.

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*** Basic Information ***
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[Create date] 2019/11/14

[Program Name] GDI

[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.] M0A35053J

[File Information]

File Name M0A35053J.zip

File Type Module for Service

Size 4.29 MB (4503368 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-14302) to allowing access to memory data via the UART port has been fixed.

[Modification history]

Version 1.10

Rank C

Symptom corrected:

The machine might not fax the correct document if all of the conditions below are met:

- The setting to forward received faxes to a PC folder is ON.
- The Auto-Print setting for received faxes is OFF.
- In a very busy network environment, the customer unplugs the machine immediately after receiving a fax.

Version 1.09

Symptom corrected

- Fail to add IPP printer in Server 2016.

Version 1.08

Symptom corrected:

- If the power button is pressed and held down for over three seconds, the machine goes in to sleep mode and cannot be turned off by releasing the button.

Version 1.07

Symptom corrected:

- The certificate standards for PTT in Malaysia was not met.
- The machine cannot be discovered via Bonjour protocol.

Version 1.05

The version was upgraded without any changes for the firmware.

Version 1.04

Symptom corrected:

- White streaks appear along the feed direction, if copied from the ADF after turning OFF/ON the power. (MF model only).
NOTE: The problem occurrence frequency is approximately 1/60 times.

Version 1.00

Firmware officially released for mass production units.

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*** Basic Information ***
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[Create date] 2019/11/14

[Program Name] GDI

[Version] 1.05

[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.] M0A45053G

[File Information]

File Name M0A45053G.zip

File Type Module for Service

Size 4.71 MB (4937215 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-14300) to buffer overflows parsing HTTP cookie headers has been fixed.
- A vulnerability (CVE-2019-14301) to unauthenticated access to the debug page in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14302) to allowing access to memory data via the UART port has been fixed.
- A vulnerability (CVE-2019-14304) to Cross-Site Request Forgery in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14305) to buffer overflows in some setting values has been fixed.
- A vulnerability (CVE-2019-14306) to unauthenticated access to backup files in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14307) to a denial of service attack on setting SMTP values has been fixed.
- A vulnerability (CVE-2019-14308) to a potential buffer overflow sending a crafted LPD packet has been fixed.

[Modification history]

Version 1.04

Symptom corrected

- Fail to add IPP printer in Server 2016.

Version 1.03

Symptom corrected:

- The machine does not recover from the energy saving mode, if any key is pressed on the operation panel.
- If the power button is pressed and held down for over three seconds, the machine goes in to sleep mode and cannot be turned off by releasing the button.

Specification change:

- Support for the Google Cloud Print function.

Version 1.02

Symptom corrected:

- The machine cannot be discovered via Bonjour protocol.

Version 1.01

Support of the Extra Starter model.

Version 1.00

Firmware officially released for mass production units.

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*** Basic Information ***
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[Create date] 2019/11/14

[Program Name] GDI

[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.] M0A55053K

[File Information]

File Name M0A55053K.zip

File Type Module for Service

Size 6.48 MB (6798424 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-14300) to buffer overflows parsing HTTP cookie headers has been fixed.
- A vulnerability (CVE-2019-14301) to unauthenticated access to the debug page in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14302) to allowing access to memory data via the UART port has been fixed.
- A vulnerability (CVE-2019-14304) to Cross-Site Request Forgery in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14305) to buffer overflows in some setting values has been fixed.
- A vulnerability (CVE-2019-14306) to unauthenticated access to backup files in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14307) to a denial of service attack on setting SMTP values has been fixed.
- A vulnerability (CVE-2019-14308) to a potential buffer overflow sending a crafted LPD packet has been fixed.

[Modification history]

Version 1.10

Rank C

Other changes:

- The Scan to Folder function is available on Mac OS X 10.13 because SMBv2 is now supported.

Version 1.09

Symptom corrected

- Fail to add IPP printer in Server 2016.

Version 1.08

Symptom corrected:

- The machine does not recover from the energy saving mode, if any key is pressed on the operation panel.
- If the power button is pressed and held down for over three seconds, the machine goes in to sleep mode and cannot be turned off by releasing the button.

Specification change:

- Support for the Google Cloud Print function.

Version 1.07

Symptom corrected:

- The certificate standards for PTT in Malaysia was not met.
- AirPrint does not work after FW update.
- AirPrint does not work in Wi-Fi Direct state.

Version 1.05

Other Changes:

- AirPrint function supported

Version 1.04

Symptom corrected:

- White streaks appear along the feed direction, if copied from the ADF after turning OFF/ON the power. (MF model only).

NOTE: The problem occurrence frequency is approximately 1/60 times.

Version 1.01

Support of the Extra Starter model.

Version 1.00

Firmware officially released for mass production units.

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*** Basic Information ***
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[Create date] 2019/11/14

[Program Name] GDI

[Version] 1.12

[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.] M0A65053L

[File Information]

File Name M0A65053L.zip

File Type Module for Service

Size 6.94 MB (7281433 byte)

[Availability of RFU] No

[Production reflection]

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-14300) to buffer overflows parsing HTTP cookie headers has been fixed.
- A vulnerability (CVE-2019-14301) to unauthenticated access to the debug page in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14302) to allowing access to memory data via the UART port has been fixed.
- A vulnerability (CVE-2019-14304) to Cross-Site Request Forgery in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14305) to buffer overflows in some setting values has been fixed.
- A vulnerability (CVE-2019-14306) to unauthenticated access to backup files in the Web Image Monitor has been fixed.
- A vulnerability (CVE-2019-14307) to a denial of service attack on setting SMTP values has been fixed.
- A vulnerability (CVE-2019-14308) to a potential buffer overflow sending a crafted LPD packet has been fixed.

[Modification history]

Version 1.11

Rank C

Other changes:

- The Scan to Folder function is available on Mac OS X 10.13 because SMBv2 is now supported.

Version 1.10

Rank C

Symptom corrected:

The machine might not fax the correct document if all of the conditions below are met:

- The setting to forward received faxes to a PC folder is ON.
- The Auto-Print setting for received faxes is OFF.
- In a very busy network environment, the customer unplugs the machine immediately after receiving a fax.

Version 1.09

Symptom corrected

- Fail to add IPP printer in Server 2016.

Version 1.08

Symptom corrected:

- The machine does not recover from the energy saving mode, if any key is pressed on the operation panel.
- If the power button is pressed and held down for over three seconds,

the machine goes in to sleep mode and cannot be turned off by releasing the button.

Specification change:

- Support for the Google Cloud Print function.

Version 1.07

Symptom corrected:

- The certificate standards for PTT in Malaysia was not met.
- AirPrint does not work after FW update.
- AirPrint does not work in Wi-Fi Direct state.

Version 1.05

Other Changes:

- AirPrint function supported

Version 1.04

Symptom corrected:

- White streaks appear along the feed direction, if copied from the ADF after turning OFF/ON the power. (MF model only).

NOTE: The problem occurrence frequency is approximately 1/60 times.

Version 1.01

Support of the Extra Starter model.

Version 1.00

Firmware officially released for mass production units.

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*** Basic Information ***
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[Create date] 2019/07/12

[Program Name] System/Copy

[Version] 1.12

[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.] M0A05730A

[File Information]

File Name M0A05730A.fwu

File Type Module for Service

Size 25.67 MB (26912444 byte)

[File Information]

File Name M0A05730A.rfu

File Type Module for Remote Upgrade

Size 25.67 MB (26919168 byte)

[Availability of RFU] Yes

[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:

- Wireless direct connection might fail in Group Owner Mode.
- Color registration shift occurs.
- IEEE802.1x reauthentication fails if the device is in STR 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)
- 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.
- A part of registered address may not be shown in Smart Scan feature.
- 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.
- If the authentication setting is changed remotely while logging in from the panel,
the operation might hang, and the panel might stall.

Other changes:

- 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.)
- Supported RICOH SmartSDK v2.60
- The message displayed when the fusing unit is not set correctly, changed,
to prompt users to reinstall it.

[Modification history]

Version 1.11

Rank C

Supported:

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

Version 1.10

Rank C

Symptom corrected:

- Image log might not be sent and stay in the device.
- When scanning with ClearlightPDF JPEG2000, SC865-56 might occur.
- If some characters are included in a user name, login authentication
is not correctly done.
- Copy application and FAX application might not start when pressing
these application icons.
- When the device receive a response of "ICMP unreachable" from a network device,
the communication might fail.

- 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.
- When the address book is backed up from an 11S or earlier model and restored to a 14S or later model, SC899 might occur after restoring the address book and restarting the machine.
- When "Application Authentication Settings" is enabled, SC899 might occur after registering or updating an address book over 220 times from Web Image Monitor.
- 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.
- The notification messages displayed on the operation panel when the waste toner is full and almost full have been changed. This firmware is dependent on the following firmware modules. Please be sure to update them together:
 - Web Support: v1.08 (M0A05750) or later
 - animation: v1.03 (M0A05752) or later
- A minor change only for the Japanese model.

Version 1.09

Rank C

Symptom corrected:

- If the functions below are enabled, the machine might not be able to recover from STR mode, and the functions will fail:
 - Auto-backup of the application and its setting for the Smart Operation Panel
 - Auto-reception for Cloud Fax
 - Auto-update of applications installed via the Application Site
- Fails to download files from the firmware download center using ARFU.
- The machine might stall if it enters energy saving mode during ARFU.

Other changes:

- Added a new feature for the SmartSDK WebAPI.

Version 1.08

Rank C

Symptom corrected:

- The quota notification cannot be displayed on some SmartSDK applications.
- The user might not be able to log in if the machine repeatedly enters and exits Energy Saver Mode.
- 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.
- 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.
- An SC error might occur when scanning with AirPrint, WSD-Scanner, or DSM.
- When the SMC List is saved to the SD card as a CSV file, SP7507 (Latest Jam History) is not correctly recorded.
- Printer capture data might not be sent when printing a blank page if the capture

function is enabled.

- Login might fail and the application icon might not be displayed.

Other changes:

- Supported RICOH SmartSDK v2.50.

- 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.

Version 1.07

Rank D

Minor changes were applied for the Japanese domestic model.

Version 1.06

Rank C

Symptom corrected:

- After sending mail including the URL link of a PDF file scanned by OCR, when the device is turned off and on, the PDF file is not able to be accessed by clicking on the URL.
- When capture processing and either thumbnail or preview processing occur at the same time, capture processing might not operate normally if the capture setting is enabled and Media Link Board is installed.
- When using Windows authentication, LDAP authentication, or external authentication, if exporting the address book from Device Manager NX, the export data cannot be imported.
- Remote un-installation for Streamline NX might fail.
- 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.
- 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.

Other changes:

- Reboot will be retried if reboot fails after updating remotely.
- Supported RICOH SmartSDK v2.40.
- Supports Arabic
- 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 v1.05 (M0A05770F)

Network Support v16.35.1 (M0A05753D)

Web Support v1.04 (M0A05750E)

Scanner v01.05 (M0A05779F)
animation v1.01 (M0A05752B)

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

Version 1.04

Other changes:

- The machine reboots automatically after an SC670.
- Added the following sub codes for SC670:
 - SC670-03:Power source error for Engine.
 - SC670-04:Communication error between CTL-IPU
- 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.
- The bypass tray became a select target for "Auto Paper Select".
This firmware is dependent on the following firmwares:
 - Printer v1.02(M0A05756C)

Symptom cprrected:

- SC673-10 may occur when turning ON the machine power.
- SC819 may occur after removing a jam that occurred while printing a large job that fully consumes the printer memory.
- SC899 may occur when rebooting after updating a firmware.
- SC816-98 may occur during the STR mode even if the machine is not experiencing any problems.
- SC672 occurs after recovering from sleep mode and SC819 occurs after reboot.
- SC819 may occur, if the auto log-out timer and the energy saving timer are set to the same value.
- 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.
- After entering the user code to start up the Copy application, the user code input screen does not disappear.
- 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.
- The operation panel may freeze, if the Start button is pressed in copy mode immediately after recovering from the energy saver mode.
- SC845 may occur while updating a package firmware, if the machine was turned OFF during the previous update via ARFU.
- Error 22 may occur during ARFU.

Version 1.03

Symptom corrected:

- Image density is darker or lighter, because process control does not activate when the main power is turned on.
- If logged in using CAP and the device enters Energy Save mode, the device may stall and logging out will fail.
- 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

Other changes:

- More than five languages can be added to the "Change Langs. Widget" on the smart operation panel.
- 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.

Version 1.02

Symptom corrected:

1. 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.
2. Machine might stall due to a time-out error of the SATA command when the HDD activates.
3. Error occurs, if new addresses are continuously registered to the address book using Smart SDK.
4. Recovering from the energy saver mode takes about 5 seconds longer than usual.
5. Saving a scanned file onto a USB memory stick may cause the file to corrupt.
6. SC899 may occur after updating with the packaged firmware.
7. SC899 may occur when installing @Remote.
8. Connection error message may appear mistakenly on @Remote connected machines.
9. SC991/SC899 may occur or stall may occur during use of application on @Remote connected machines.
10. 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.

Other changes:

1. 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 (M0A05750B) or later, so please be sure to update that firmware as well.

2. When using "Enhanced Print Volume Use Limitation" in a SmartSDK application and "Tracking Permission" and "Stop Printing" are enabled, the "Print Volume Use" pop-up window is not displayed.

Version 1.01

Symptom corrected:

- Emergency firmware update may not work occasionally.

Other Changes:

- Some of the ARFU related SP settings and logs can be obtained using @Remote.
- Modified the default value of SSL in the SMC Report.
- The SLNX Hybrid mode application might not be installed correctly.

Version 1.00.2

1st Mass production

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*** Basic Information ***
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[Create date] 2019/07/17

[Program Name] animation

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

[Firmware No.] M0A05752E

[File Information]

File Name M0A05752E.fwu

File Type Module for Service

Size 10.92 MB (11445264 byte)

[File Information]

File Name M0A05752E.rfu

File Type Module for Remote Upgrade

Size 10.92 MB (11452672 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 ***
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[Modifications made:]

Rank C

Other changes:

- The message displayed when the fusing unit is not set correctly, changed, to prompt users to reinstall it.

[Modification history]

Version 1.03

Rank C

Other changes:

- The notification messages displayed on the operation panel when the waste toner is full and almost full have been changed. This firmware is dependent on the following firmware modules. Please be sure to update them together:
 - System/Copy: v1.10 (M0A05770) or later
 - Web Support: v1.08 (M0A05750) or later

Version 1.02

Rank D

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

Version 1.01

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 v1.05 (M0A05770F)

Network Support v16.35.1 (M0A05753D)

Web Support v1.04 (M0A05750E)

Scanner v01.05 (M0A05779F)

animation v1.01 (M0A05752B)

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

Version 1.00

1st Mass production

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*** Basic Information ***
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[Create date] 2019/07/12

[Program Name] Network Support

[Version] 16.39

[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.] M0A05753H

[File Information]

File Name M0A05753H.fwu

File Type Module for Service

Size 11.01 MB (11543336 byte)

[File Information]

File Name M0A05753H.rfu

File Type Module for Remote Upgrade

Size 11.02 MB (11550976 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 C

Symptom corrected:

- DNS name resolution for the device might fail if DDNS is enabled in a DHCPv6 environment.
- The DHCP address renewal request might be discarded when the DHCP server is configured as a failover cluster.
- The device might fail to obtain the fax transmission result using FTP.
- 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.

Other changes:

- Supported RICOH SmartSDK v2.60
- 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.).
- 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.

[Modification history]

Version 16.38

Rank C

Symptom corrected:

- 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.
- 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 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.
- SC819 might occur after updating firmware remotely.

Version 16.37

Symptom corrected:

1. Fixed the WebAPI bug when obtaining the network property information.
2. Fixed unnecessary processing affecting hard disk failure and deterioration.
3. When the device is in STR mode, printing might stop and not be able to be conducted until the device is rebooted.
4. Unnecessary logs are recorded in the system logs when connecting to the network through a wireless LAN.
5. When using the DHCP Option204 function, the "Setting change..." message might be repeatedly displayed on the operation panel, and a user cannot operate the device.

Other Changes:

- The default value of "Algorithm Signature" has been changed from SHA1-RSA 2048 to SHA256-RSA 2048 when the device creates or requests a new device certificate.

Version 16.36

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 16.35.1

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 v1.05 (M0A05770F)

Network Support v16.35.1 (M0A05753D)

Web Support v1.04 (M0A05750E)

Scanner v01.05 (M0A05779F)

animation v1.01 (M0A05752B)

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

Version 16.34

Symptom corrected:

- Even if SSL3.0 communication is invalidated in device security settings, SSL3.0 communication is falsely possible from the NRS port (7443/7444) on the device.

Version 16.33

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 being used a significant amount of times, functions that require a network connection might fail.

Version 16.32.1
1st Mass production

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

[Create date] 2019/07/16

[Program Name] NetworkDocBox

[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.] M0A05754H

[File Information]

File Name M0A05754H.fwu

File Type Module for Service

Size 2.24 MB (2352976 byte)

[File Information]

File Name M0A05754H.rfu

File Type Module for Remote Upgrade

Size 2.25 MB (2359552 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 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

[Modification history]

Version 1.06

Rank C

Symptom corrected:

- The log time reported to the SmartSDK application might be wrong.

Version 1.05

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.

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

Version 1.04

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.
- Fixed a SmartSDK WebAPI bug with serverless transfer requests for device logs.

Version 1.03

Symptom corrected:

1. 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.
2. Unnecessary retransmissions might be occur in the image log capture.

Version 1.02

Symptom corrected:

1. The device might not be able to be accessed via Web Image Monitor.
2. 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.

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.

Version 1.00

1st Mass production

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

[Create date] 2019/07/12

[Program Name] PCL

[Version] 1.06

[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.] M0A05759F

[File Information]

File Name M0A05759F.fwu

File Type Module for Service

Size 1.26 MB (1322112 byte)

[File Information]

File Name M0A05759F.rfu

File Type Module for Remote Upgrade

Size 1.27 MB (1327360 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 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 1.05

Rank C

Symptom corrected:

- Double-byte characters of Asian languages such as Japanese, Chinese, and Korean might be missing.

Version 1.04

Rank C

Symptom corrected:

- If printing PCL5 data after installing the Andale font on the machine, some Chinese characters might not be printed.
- The overlay image might not be correctly printed with PCL.

Version 1.03

Symptom corrected:

- PCL macros that were uploaded to the HDD cannot be printed. (GFPR#RE16080014)

Version 1.02

Symptom corrected:

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

Version 1.01

1st Mass production

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*** Basic Information ***
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[Create date] 2019/07/17

[Program Name] Java VM v12 std for eDC

[Version] 12.65.01

[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.] M0A05773G_edc

[File Information]

File Name M0A05773G_edc.ifu

File Type Module for Service

Size 63.88 MB (66987980 byte)

[Availability of RFU] No

[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

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

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 12.44.01

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.
 - 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.
 - After logging in to CAP, it may not be possible to print after an error occurs.
 - SDK application behavior may be incorrect or inconsistent.
(CAP/ELP/SLNX/GSNX/etc.) nbsp;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 12.31.03

1st Mass production

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*** Basic Information ***
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[Create date] 2019/07/17

[Program Name] Java VM v12 std UpdateTool

[Version] 12.65.01

[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.] M0A05773G_upd

[File Information]

File Name M0A05773G_upd.exe

File Type Module for Service

Size 63.63 MB (66717059 byte)

Check Sum -8Bit Sum: 93A7

-16Bit Sum(Little Endian): 05BF

-16Bit Sum(Big Endian): 34E8

[Availability of RFU] No

[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:

- 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.

[Modification history]

Version 12.62.00

Rank C

Symptom corrected:

- The SDK application may stop suddenly due to the increase of memory usage.
- The package firmware might not be updated if the firmware includes an application that needs to be rebooted when updated.
- Gloria don't start up when power off/on then system settings can't be used.

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 12.56.00

Symptom corrected:

- 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.
- Startup may take a long time and SC998 may occur if Streamline NX and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering from energy saving mode under the following conditions:
 - An SDK application is set as a priority function.
 - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- 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.

Version 12.51.01

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

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 12.44.01

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.
- 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.
- After logging in to CAP, it may not be possible to print after an error occurs.
- 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.

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.

[Modification history]

Version 12.62.00

Rank C

Symptom corrected:

- The SDK application may stop suddenly due to the increase of memory usage.
- The package firmware might not be updated if the firmware includes an application that needs to be rebooted when updated.
- Gloria don't start up when power off/on then system settings can't be used.

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 12.56.00

Symptom corrected:

- 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.
- Startup may take a long time and SC998 may occur if Streamline NX and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering from energy saving mode under the following conditions:
 - An SDK application is set as a priority function.
 - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- 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.

Version 12.51.01

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.

Version 12.31.03
1st Mass production

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*** Basic Information ***
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[Create date] 2019/07/09

[Program Name] Scanner

[Version] 01.11

[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.] M0A05779M

[File Information]

File Name M0A05779M.fwu

File Type Module for Service

Size 5.10 MB (5347516 byte)

[File Information]

File Name M0A05779M.rfu

File Type Module for Remote Upgrade

Size 5.11 MB (5353728 byte)

[Availability of RFU] Yes

[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:

- 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]

Version 01.10

Rank B

Symptom corrected:

- 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.

Version 01.09

Rank D

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

Version 01.08

Rank C

Symptom corrected:

- 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.
- 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.
- If scanning is cancelled three times within five minutes when scanning with the IC Card Scan & Copy Application, the device cannot transfer to Energy Saver Mode.
- 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.
- 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.

Other changes:

- Supported RICOH SmartSDK v2.50.

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

Symptom corrected:

1. When scanning from SmartSDK applications, files are stored in PDF/A format even when trying to store the files in TIFF/JPEG format.
2. When OCR is set and a document over 51 pages is sent by Scan to Email, sending might fail.
3. When OCR is set and a document over 256 pages is scanned, the Scanner application might freeze or SC997 might occur.
4. 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.
5. The image logs of jobs scanned by GlobalScan NX might not be captured.

Version 01.05

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 v1.05 (M0A05770F)

Network Support v16.35.1 (M0A05753D)

Web Support v1.04 (M0A05750E)

Scanner v01.05 (M0A05779F)

animation v1.01 (M0A05752B)

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

Version 01.04

Symptom corrected:

1. 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.
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.

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 01.03

Symptom Corrected:

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.

Version 01.02

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.

Version 01.01

Symptom corrected:

When the resolution is set to over 601 dpi, the horizontal scanning length is limited to a maximum of 108mm.

Version 01.00

1st Mass production

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

Rank C

Other changes:

- The Scan to Folder function is available on Mac OS X 10.13 by supporting SMB signing.

[Modification history]

Version 1.10

Rank C

Symptom corrected:

The machine might not fax the correct document if all of the conditions below are met:

- The setting to forward received faxes to a PC folder is ON.
- The Auto-Print setting for received faxes is OFF.
- In a very busy network environment, the customer unplugs the machine immediately after receiving a fax.

Version 1.09

Symptom corrected

- Fail to add IPP printer in Server 2016.

Version 1.08

Symptom corrected:

- The machine does not recover from the energy saving mode, if any key is pressed on the operation panel.
- If the power button is pressed and held down for over three seconds, the machine goes in to sleep mode and cannot be turned off by releasing the button.

Specification change:

- Support for the Google Cloud Print function.

Version 1.07

Symptom corrected:

- The certificate standards for PTT in Malaysia was not met.
- AirPrint does not work after FW update.
- AirPrint does not work in Wi-Fi Direct state.

Version 1.05

Other Changes:

- AirPrint function supported

Version 1.04

Symptom corrected:

- White streaks appear along the feed direction, if copied from the ADF after turning OFF/ON the power. (MF model only).

NOTE: The problem occurrence frequency is approximately 1/60 times.

Version 1.01

Support of the Extra Starter model.

Version 1.00

Firmware officially released for mass production units.