

<<Package>>

package_ALL [ZEC2a_pk]

D1905506D Ver. 4.00 -> D1905506E Ver. 5.00

<<Separate>>

System/Copy [ZEC2e_system]

D1915771L Ver. 1.10 -> D1915771M Ver. 1.11

Fax [ZEC2a_fax]

D1915774D Ver. 04.00.00

RemoteFax [ZEC2a_fax2]

D1915775C Ver. 03.00.00

Scanner [ZEC2e_scn]

D1915777C Ver. 03.01 -> D1915777D Ver. 03.02

Web Support [ZEC2a_web]

D1915788C Ver. 1.02

Web Uapl [ZEC2a_webuapl]

D1915789B Ver. 1.01

Network Support [ZEC2a_net]

D1915792H Ver. 13.67 -> D1915792J Ver. 13.68

NetworkDocBox [ZEC2a_netfile]

D1915793B Ver. 1.01

Printer [ZEC2e_printer]

D1915794G Ver. 1.06

RPCS [ZEC2e_prt_RPCS]

D1915795B Ver. 3.15.3

PCL [ZEC2e_prt_PCL]

D1915796G Ver. 1.07

PDF [ZEC2e_prt_PDF]

D1915787C Ver. 1.02

XPS [ZEC2a_prt_XPS]

D7925738B Ver. 1.07

browser [ZEC2a_browser]

D7925754E Ver. 1.05.00

OpePanel [ZEC2a_epanel]

D1911490E Ver. 1.05

GWFCU3.8-6(WW) [GW1a_efax_fcu1R]

D7925570C Ver. 03.00.00

<<Package>>

package_ALL [ZEC2CHa_pk]

D1905521E Ver. 5.00 -> D1905521F Ver. 6.00

<<Separate>>

System/Copy [ZEC2e_system]

D1935771K Ver. 1.10 -> D1935771M Ver. 1.12

Scanner [ZEC2e_scn]

D1935777G Ver. 03.02 -> D1935777J Ver. 03.04

Web Support [ZEC2a_web]

D1935788A Ver. 2.01 -> D1935788C Ver. 2.03

Network Support [ZEC2a_net]

D1935792E Ver. 13.66 -> D1935792H Ver. 13.69

animation [ZEC2a_animat]

D1935778A Ver. 2.00 -> D1935778B Ver. 3.00

Printer [ZEC2e_printer]

D1935794F Ver. 1.06 -> D1935794G Ver. 1.07

PCL [ZEC2e_prt_PCL]

D1915796F Ver. 1.06 -> D1915796G Ver. 1.07

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*** Basic Information ***
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[Create date] 2018/07/18

[Program Name] Java VM v12 std for eDC

[Version] 12.61.03

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D1915738K_edc

[File Information]

File Name D1915738K_edc.ifu

File Type Module for Service

Size 59.92 MB (62832544 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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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.
- 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 12.39.02

Symptom corrected:

- CAP V2 is disabled if switched to Energy Saver mode while CAP V2 starts up after power ON.
- Machine response slows down when a trouble occurs in the HDD.
- User information may not be displayed, if a job is run by logging in with the user code authentication.
- Job cannot resume and the machine remains on-line, if paper near-end occurs while printing General format files.
- If the firmware is updated remotely while the device is in energy saving mode, the SDK platform may not boot up.
- Search, copy & paste of texts may not work in searchable PDF files created in Polish and Hungarian languages.
- Characters are randomly broken onto new lines, if the following settings are configured in Scan Settings:
 1. Vertical text in a PDF file is copied and pasted into an application.
 2. "OCR Settings" is set to "On".
 3. "Cognitive Language" is set to "Japanese".
- SC637 may occur, if the machine is shut down while printing.
- 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.
- 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 12.12.06

Symptom corrected:

- Java VM may not start up correctly if the main power switch is turned OFF about three minutes after the "Success" banner is displayed following a successful update of the Java VM using the update tool.
- If Kerberos authentication is performed with an ESA application (e.g. CAP v2, Streamline NX), the handling cannot time out even if the specified time expires.

Version 12.08.00

- Minor bug correction

Version 12.04.09

Error Correction:

- Minor bug correction
- If a keystroke reader is connected to the device, SC 899 may occur when the device is returned from energy save mode.

Version 12.03.01

Other changes

- Supports remote install of Web application API.

Error correction

- If logout is performed immediately after logging in, logout refusal may not be performed correctly and the login user information may not be retrieved.
- If the Finisher Booklet Tray comes off, ELP-NX V2 cannot print if "Check on Print" is set as "Printer Status" in the ELP-NX Configuration Tool.

Version 12.02.00

Symptom corrected:

- SDK app cannot reconnect after connection is broken by Android during operation.
- When using the scan function continuously on a device with Streamline NX or GS-NX is installed, a "Scanner is in use by another function" error may occur.
- If ESA application is installed, HTTP communication may not be performed correctly.

Version 12.00.19

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/18

[Program Name] Java VM v12 std UpdateTool

[Version] 12.61.03

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D1915738K_upd

[File Information]

File Name D1915738K_upd.exe

File Type Module for Service

Size 59.76 MB (62665840 byte)

Check Sum -8Bit Sum: ABB2

 -16Bit Sum(Little Endian): 51BA

 -16Bit Sum(Big Endian): 0BF8

[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:

- 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 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.
- The SDK application may stop suddenly due to the increase of memory usage.

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.

[Modification history]

Version 12.54.00

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.
- 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.

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.
- 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.
- 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 12.39.02

[For D191/D193]

Symptom corrected:

- CAP V2 is disabled if switched to Energy Saver mode while CAP V2 starts up after power ON.
- Machine response slows down when a trouble occurs in the HDD.
- User information may not be displayed, if a job is run by logging in with the user code authentication.
- Job cannot resume and the machine remains on-line, if paper near-end occurs while printing General format files.
- If the firmware is updated remotely while the device is in energy saving mode, the SDK platform may not boot up.
- Search, copy & paste of texts may not work in searchable PDF files created in Polish and Hungarian languages.
- Characters are randomly broken onto new lines, if the following settings are configured in Scan Settings:
 1. Vertical text in a PDF file is copied and pasted into an application.
 2. "OCR Settings" is set to "On".
 3. "Cognitive Language" is set to "Japanese".
- SC637 may occur, if the machine is shut down while printing.
- 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.
- 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 12.12.06

Symptom corrected:

- Java VM may not start up correctly if the main power switch is turned OFF about three minutes after the "Success" banner is displayed following a successful update of the Java VM using the update tool.
- If Kerberos authentication is performed with an ESA application (e.g. CAP v2, Streamline NX), the handling cannot time out even if the specified time expires.

Version 12.08.00

- Minor bug correction

Version 12.04.09

Error Correction:

- Minor bug correction
- If a keystroke reader is connected to the device, SC 899 may occur when the device is returned from energy save mode.

Version 12.03.01

Other changes

- Supports remote install of Web application API.

Error correction

- If logout is performed immediately after logging in, logout refusal may not be performed correctly and the login user information may not be retrieved.
- If the Finisher Booklet Tray comes off, ELP-NX V2 cannot print if "Check on Print" is set as "Printer Status" in the ELP-NX Configuration Tool.

Version 12.02.00

Symptom corrected:

- SDK app cannot reconnect after connection is broken by Android during operation.
- When using the scan function continuously on a device with Streamline NX or GS-NX is installed, a "Scanner is in use by another function" error may occur.
- If ESA application is installed, HTTP communication may not be performed correctly.

Version 12.00.19

1st Mass production

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*** Basic Information ***
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[Create date] 2017/09/04

[Program Name] OpePanel

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

[Firmware No.] D1911490E

[File Information]

File Name D1911490E.fwu

File Type Module for Service

Size 50.44 MB (52886092 byte)

[File Information]

File Name D1911490E.rfu

File Type Module for Remote Upgrade

Size 50.44 MB (52891904 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:]

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 v1.10 (D1915771L)

Network Support v13.66 (D1915792G)

Web Support v1.02 (D1915788C)

Scanner v03.01 (D1915777C)

OpePanel v1.05 (D1911490E)

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

[Modification history]

Version 1.04

Other changes:

- Added support for adhering to the Lot 6 regulation of the EU in European devices.

Version 1.03

Symptom Corrected:

1. Traditional Chinese: "Print" is incorrectly displayed as "Copy" on the Print Volume Use Limitation screen (System Settings).
2. Portuguese: "Gestao de" is incorrectly displayed as "Selecionar band. papel" on the Program/Change Administrator screen (Printer Features).

Version 1.02

Symptom corrected

Slow response of the operation panel.

Version 1.01

1st Mass production

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*** Basic Information ***
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[Create date] 2019/04/19

[Program Name] Scanner

[Version] 03.05

[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.] D1915777G

[File Information]

File Name D1915777G.fwu

File Type Module for Service

Size 4.91 MB (5151856 byte)

[File Information]

File Name D1915777G.rfu

File Type Module for Remote Upgrade

Size 4.92 MB (5157120 byte)

[Availability of RFU] Yes

[Production reflection] 2019/04

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- When sending a saved document, the captured image file might not be sent if a SmartSDK scanner application is installed.

[Modification history]

Version 03.04

Rank C

Symptom corrected:

- When opening a program after Simple Screen has been applied on the home screen, the program settings are not retrieved.

Version 03.03

Rank C

Symptom corrected:

- When Simplified Chinese is selected in the "Insert Additional Email Info" setting in Send Settings, text in an email sent by using Scan to URL is garbled.
- 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.

Version 03.02

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 03.01

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 v1.10 (D1915771L)

Network Support v13.66 (D1915792G)

Web Support v1.02 (D1915788C)

Scanner v03.01 (D1915777C)

OpePanel v1.05 (D1911490E)

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

Version 03.00

Symptom corrected:

1. When using a TWAIN driver in certain software applications, such as Pneumologis, an SC899 error occurs.
2. If user authentication is enabled, the address book cannot be updated from Web Image Monitor when the device is in energy-saving mode.
3. When a user executes a job in a SmartSDK application after using the Quick Scanner application, the home screen is displayed.
4. When scanning with "Hungarian" or "Polish" selected under "Cognitive Language" in "OCR Settings", if the value of a Unicode character exceeds 256, then the character will be converted to a question mark ("?").

Other changes:

- Supported RICOH SmartSDK v1.04.

Version 01.00.1

1st Mass production

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[Modifications made:]

Rank C

Symptom corrected:

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

[Modification history]

Version 1.12

Rank C

Symptom corrected:

- It takes time to login after authenticating the card.
- If an original jams in the sample copy of a stapled job, the first set is not printed out.
- When updating the address book via Group Destination Helper, the following issues might occur:
 - A group can't be deleted.
 - No more than 125 users can be added to a group.
 - The protection code might disappear when updating the group information.
 - The maximum number of digits for the protection code can't be set.
- Kerberos authentication might take time because the TCP timestamp starts with a zero.
- SC899 occurs and the machine stalls.
- 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.

Version 1.11

Rank C

Other changes:

- 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 v1.11 (D1915771M) or later, so please be sure to update that firmware as well.

Version 1.10

Symptom corrected:

- On machines with the language set to Russian, "No" is mistranslated to "Yes" in the message that appears when printed from a USB memory stick.

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 v1.10 (D1915771L)

Network Support v13.66 (D1915792G)

Web Support v1.02 (D1915788C)

Scanner v03.01 (D1915777C)

OpePanel v1.05 (D1911490E)

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

Version 1.09

Symptom correction

- The SC819 occurs when performing an auto logout.
- 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.
- After entering the user code to start up the Copy application, the user code input screen does not disappear.
- When feeding from the by-pass tray, the Start key may falsely become active before specifying the paper size.
- The Start key is inactive after recovering from low power mode.
- When scanning documents of different sizes with all of the following configured, a send error occurs:
 - Set the original feed type setting for original orientation to "Readable orientation".
 - Enabling "Auto detect" and "Mixed original sizes".
 - Selecting any of the "Black & White" scanning settings.
 - Using multi-pass ADF and OCR.

Version 1.08

Specification Change:

- Support for ErP Lot 6 compliance.
- Counter information cannot be obtained without logging in. [WebAPI]

Error Correction:

- Error occurs when creating a searchable PDF document.
- The data may be lacked while Base64 decode process.
- If an email sent by scan-to-email is opened in Office 365 cloud mail service, contents of the attached file may falsely appear in the body of the message with the characters corrupted.
- Fax received is not printed and forwarded to the folder, if "Forwarding setting of Reception File Setting" is enabled.
- In the case of the following conditions, when attempting to log in to a device with CAP v2 installed, the attempt may fail with the "Failed to authenticate. Address Book is being updated." error message.
 - The FAX function is enabled on the device.
 - "Logout Using Card" is set as "On" in the CAP configuration tool.
- Selecting an address registered without a fax address in the simple FAX application may cause a forced shutdown of the application.
- Error occurs, if new addresses are continuously registered to the address book using Smart SDK.
- When scanning an original containing multiple pages with the Twain driver, error (code: 36856) occurs on the client PC and scan stops midway.
- The machine cannot recover from Energy Saver mode if the Energy Saver key is pressed while the machine is transitioning to STR mode.
- SC816-38 may occur while the machine is transitioning to STR mode.
- SC819 occurs when printing particular files.

Version 1.07

Specification Changes:

1. Supports CDN (Contents Delivery Network).

Symptom corrected:

1. SC899 occurs when using Quick Copy application.
2. All the keys on the operation panel become inactive after making settings in User Tools.
3. A transmission error occurs during internet FAX transmission (Direct SMTP).
4. Internet FAX function does not work under the following conditions.
 - Mail receiving protocol is set to SMTP
 - OS of SMTP client side is Windows
 - The receiving device is kept off-line
5. For the Enhanced External Charge Unit, although jobs other than the printer are restricted, a guest user can conduct jobs of any type remotely via WebAPI.
6. SC819-38 occurs if the machine repeatedly enters and recovers from Energy Saver mode after the main power switch is turned ON, followed by SC819 if the machine is used continuously after that.
7. In wireless LAN environments, when A-MSDU is enabled, the device cannot receive packet data that is more than 2,048 bytes.
8. When trying to establish an ad-hoc connection among three or more devices, the third and subsequent devices cannot connect.
9. The device cannot communicate when using the WMM (Wi-Fi Multimedia) function.
10. In wireless LAN environments, when large volume printing is being conducted, the job is cancelled in the middle of printing.
11. In wireless LAN environments, when the authentication methods WPA2 and A-MPDU are enabled, printing might take a significant amount of time.
12. When the threshold for fragmentation is set in the access point settings, the MFP/LP will fail to receive the packet data if the computer sends data that is larger than the threshold that is set.
13. When the CTS protection function is enabled, the throughput for the wireless LAN connection is reduced.
14. When the normal scan application (not Quick Scan) is used on a device with CAP v2 (Hybrid mode) installed, an authentication dialog will be displayed and the user will not be able to use the device.

Other changes:

- The maximum data transmission speed has been changed to 130 Mbps because 40-MHz wireless LAN bandwidth is no longer supported.

Version 1.06

Symptom corrected:

1. The user's title from the Address Book is not displayed correctly on the operation panel if the title includes data in both the "Frequent" and "Optional title" fields and the title is imported to the MFP using Device Manager NX.
2. The Java VM does not boot up at main power ON when SP5-730-001 is enabled.
3. SC990 occurs when card authentication is enabled.

Version 1.05

Symptom corrected:

1. SC899 occurs the second time a name is searched via the LDAP server.
2. SC899 occurs when creating a searchable PDF document.
3. SC998 occurs when a print request is generated in the machine transitioning back to fusing unit off mode from sleep mode.
4. Log data cannot be extracted using @Remote.
5. The following occur if the [OK] or [Cancel] button (software keys) on the Security screen is repeatedly pressed to close the SKB screen.
 - SC816
 - Hard keys do not respond
 - The machine cannot recover from Sleep mode.
6. The IP address appears as "0.0.0.0." on the System Settings List for the Printer.

Version 1.04

Error Correction

- Supported IC card reader/writer (PR-700UDM).
- SC370-02 is posted when using the Type-EX controller.

Version 1.03

Symptom corrected:

1. SC997 may occur when the machine power has been turned on.
2. Estimating energy consumption data cannot be reported via @Remote.
3. Machine display may not perform correctly when receiving the fax.
4. When "OCR Settings" is set to "On", if the keywords in a PDF file are scanned by selecting a language other than "Japanese" in the "Cognitive Language" setting, the position of the search results might be incorrect.

Version 1.02

Symptom corrected:

Machine does NOT recover from the energy saving mode (STR mode)

Version 1.01

1st Mass production

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

Rank C

Symptom corrected:

- When Simplified Chinese is selected in the "Insert Additional Email Info" setting in Send Settings, text in an email sent by using Scan to URL is garbled.
- 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.

[Modification history]

Version 03.02

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 03.01

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 v1.10 (D1915771L)

Network Support v13.66 (D1915792G)

Web Support v1.02 (D1915788C)

Scanner v03.01 (D1915777C)

OpePanel v1.05 (D1911490E)

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

Version 03.00

Symptom corrected:

1. When using a TWAIN driver in certain software applications, such as Pneumologis, an SC899 error occurs.
2. If user authentication is enabled, the address book cannot be updated from Web Image Monitor when the device is in energy-saving mode.

3. When a user executes a job in a SmartSDK application after using the Quick Scanner application, the home screen is displayed.
4. When scanning with "Hungarian" or "Polish" selected under "Cognitive Language" in "OCR Settings", if the value of a Unicode character exceeds 256, then the character will be converted to a question mark ("?").

Other changes:

- Supported RICOH SmartSDK v1.04.

Version 01.00.1

1st Mass production

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*** Basic Information ***
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[Create date] 2019/04/16

[Program Name] Web Support

[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.] D1915788E

[File Information]

File Name D1915788E.fwu

File Type Module for Service

Size 5.90 MB (6181400 byte)

[File Information]

File Name D1915788E.rfu

File Type Module for Remote Upgrade

Size 5.90 MB (6189312 byte)

[Availability of RFU] Yes

[Production reflection] 2019/04

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*** Note ***
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[Note]

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

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

Rank C

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.

[Modification history]

Version 1.03

Rank C

Symptom corrected:

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

Other changes:

- 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 v1.11 (D1915771M) or later, so please be sure to update that firmware as well.

Version 1.02

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 v1.10 (D1915771L)

Network Support v13.66 (D1915792G)

Web Support v1.02 (D1915788C)

Scanner v03.01 (D1915777C)

OpePanel v1.05 (D1911490E)

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

Version 1.01

Other changes:

- Added support for adhering to the Lot 6 regulation of the EU in European devices.

Version 1.00.3

1st Mass production

=====
***** Basic Information *****
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[Create date] 2019/11/18

[Program Name] Network Support

[Version] 13.72

[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.] D1915792M

[File Information]

File Name D1915792M.fwu

File Type Module for Service

Size 10.70 MB (11219376 byte)

[File Information]

File Name D1915792M.rfu

File Type Module for Remote Upgrade

Size 10.71 MB (11227392 byte)

[Availability of RFU] Yes

[Production reflection] 2019/11

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

[Note]

=====
***** Important Notes *****
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[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 13.70

Rank C

Symptom corrected:

- DNS name resolution for the device might fail if DDNS is enabled in a DHCPv6 environment.
- There is a probability (1/256) that the SSL connection to the device will fail if the connecting component doesn't have a process to retry the SSL connection.

Version 13.69

Rank C

Other changes:

- It is now possible to disable HMAC-SHA1 used in SSL/TLS communication with a Telnet command.
- Please refer to the RTB (RGene107) for more details.

Version 13.68

Rank C

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.
- 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.
- If the device has not been used a significant amount of times, functions that require a network connection might fail.
- 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.

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 13.67

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 13.66

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 v1.10 (D1915771L)

Network Support v13.66 (D1915792G)

Web Support v1.02 (D1915788C)

Scanner v03.01 (D1915777C)

OpePanel v1.05 (D1911490E)

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

Version 13.65

Symptom Corrected:

- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active", authentication will fail.

Version 13.64

Other Changes:

- Added support for adhering to the Lot 6 regulation of the EU in European devices.

Version 13.63

Other changes:

- Changed the DH key specification to use 2,048 bits instead of 512 bits to prevent the Logjam vulnerability (CVE-2015-4000). In addition, by modifying this specification, SSL/TLS communication can be established when using Mac OS X 10.10.4 and iOS 8.4.

Version 13.62

Symptom corrected:

1. 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.
2. When the display language of the operation panel is set to Catalan, Scan to Folder fails.
3. When performing IPP printing with the job spool enabled in Mac OS X 10.7 or later and iOS 6 or later, the document is not printed even though the machine supports AirPrint 1.2.

Version 13.61

Symptom corrected:

1. If an error occurs during DSM scanner transmission and the job is cancelled, and then the DSM scanner is reinitiated, a page might be missing from the result of the scanned document.
2. When resuming from an Energy Saver mode, functions that use HTTP, including Web Image Monitor, might not be usable and the device might not be operable.
3. When SP5-985-001 is set to "0" (disabled) and SP5-985-002 is set to "1" (enabled), an SC997 error might occur if repeatedly switching between the home screen and the system settings screen.
4. When conducting IPP printing on Mac OS X 10.9, the document might not print.
5. When running the port scan tool via the IPP port (TCP 631), an SC899 error might occur.

Other changes:

1. When printing from the Windows operating system, if the RAW protocol is used for the standard TCP/IP port, a significant amount of time might pass until the next job is printed. Because of this, the initial print timeout period is changed to 15 seconds and the shortest timeout period that can be set is changed to 5 seconds.

2. Support for AirPrint.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

- Printer firmware: v1.02 or later (D1915794C)

Version 13.60

1st Mass production

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

[Modifications made:]

Rank C

Symptom corrected:

- It takes time to login after authenticating the card.
- If an original jams in the sample copy of a stapled job, the first set is not printed out.
- When updating the address book via Group Destination Helper, the following issues might occur:
 - A group can't be deleted.
 - No more than 125 users can be added to a group.
 - The protection code might disappear when updating the group information.
 - The maximum number of digits for the protection code can't be set.
- If an address book entry for a user's title information that includes both "Frequent" and "optional title" is imported to the device by using Device Manager NX, the user's title from the address book does not display correctly on the device operation panel.
- Kerberos authentication might take time because the TCP timestamp starts with a zero.
- 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.

[Modification history]

Version 1.12

Rank C

Other changes:

- 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 v1.12 (D1935771M) or later, so please be sure to update that firmware as well.

Version 1.11

Symptom corrected:

- On machines with the language set to Russian, "No" is mistranslated to "Yes" in the message that appears when printed from a USB memory stick.

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 v1.11 (D1935771L)
Network Support v13.67 (D1935792F)
Web Support v2.02 (D1935788B)
Scanner v03.03 (D1935777H)
animation v3.00 (D1935778B)

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

Version 1.10

System correction:

- The SC819 occurs when performing an auto logout.
- When using a TWAIN driver in certain software applications, such as Pneumologis, an SC899 error occurs.
- The Java VM does not boot up at main power ON when SP5-730-001 is enabled.
- SC990 occurs when card authentication is enabled.
- 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.
- After entering the user code to start up the Copy application, the user code input screen does not disappear.
- When feeding from the by-pass tray, the Start key may falsely become active before specifying the paper size.
- [WebAPI] counter information cannot be obtained without logging in.
- When scanning with "Hungarian" or "Polish" selected under "Cognitive Language" in "OCR Settings", if the value of a Unicode character exceeds 256, then the character will be converted to a question mark ("?").
- Fax data encoded with Base64 is not correctly received.
- If an email sent by scan-to-email is opened in Office 365 cloud mail service, contents of the attached file may falsely appear in the body of the message with the characters corrupted.
- Fax received is not printed and forwarded to the folder, if "Forwarding setting of Reception File Setting" is enabled.
- logged in using CAP and the device enters Energy Save mode, the device may stall and logging out will fail.
- When an unnecessary authentication method is configured in the application-specific authentication setting of an SDK application, the icon is not displayed on the home screen in logout status.
- The Start key is inactive after recovering from low power mode.
- SC816-38 may occur when the machine switches to Energy Saver mode.
- SC819

Version 1.09

Symptom Corrected:

- The location of the legacy FAX application icon on the display changes, if the firmware is updated with the SD card or by Remote Firmware Update.
 - SC899 may occur after recovering from low power mode
-

Version 1.08

Symptom Corrected:

1. If "Display" is selected under "Paper Confirmation for Bypass Tray," printing is available only in LEF.
(User Tool -> Printer Features -> System -> Tray Setting Priority -> Paper Confirmation for Bypass Tray)
2. When scanning documents of different sizes with all of the following configured, a send error occurs:
 - Set the original feed type setting for original orientation to "Readable orientation".
 - Enabling "Auto detect" and "Mixed original sizes".
 - Selecting any of the "Black & White" scanning settings.
 - Using multi-pass ADF and OCR.

Version 1.07

Specification Changes:

1. Supports CDN (Contents Delivery Network).

Symptom corrected:

1. A transmission error occurs during internet FAX transmission (Direct SMTP).
2. Traditional Chinese: "Print" is incorrectly displayed as "Copy" on the Print Volume Use Limitation screen (System Settings).
3. Portuguese: "Gestao de" is incorrectly displayed as "Selecionar band. papel" on the Program/Change Administrator screen (Printer Features).
4. Internet FAX function does not work under the following conditions.
 - Mail receiving protocol is set to SMTP
 - OS of SMTP client side is Windows
 - The receiving device is kept off-line
5. SC899 occurs when using Quick Copy application.
6. All the keys on the operation panel become inactive after making settings in User Tools.
7. SC673-10 occurs when the banner message appears on the Smart Operation Panel.
8. SC673-10 occurs when turning on the main switch or recovering from the energy saver mode.
9. The application icons on the Smart Operation Panel do not appear immediately after turning on the main switch.
10. SC819-38 occurs if the machine repeatedly enters and recovers from Energy Saver mode after the main power switch is turned ON, followed by SC819 if the machine is used continuously after that.
11. Even if the device is configured to restrict users from registering a destination in the address book, as shown below, a user can still register a destination by using the Scan to Folder Helper application:
 - "System Settings > Administrator Tools > Extended Security > Restrict User of Destination(Fax)" set to "ON".
 - "System Settings > Administrator Tools > Extended Security > Restrict User of Destinations(Scanner)" set to "ON".
12. "Authenticating... Please wait..." will be displayed if a user logs in to a device with CAP v2 (Hybrid mode) installed in the

case that "Security Setting for Access Violation" is set as "On"
in UP --> System Settings --> Administrator Tools --> Extended Security.

13. In wireless LAN environments, when A-MSDU is enabled, the device cannot receive packet data that is more than 2,048 bytes.
14. When trying to establish an ad-hoc connection among three or more devices, the third and subsequent devices cannot connect.
15. The device cannot communicate when using the WMM (Wi-Fi Multimedia) function.
16. In wireless LAN environments, when large volume printing is being conducted, the job is cancelled in the middle of printing.
17. In wireless LAN environments, when the authentication methods WPA2 and A-MPDU are enabled, printing might take a significant amount of time.
18. When the threshold for fragmentation is set in the access point settings, the MFP/LP will fail to receive the packet data if the computer sends data that is larger than the threshold that is set.
19. When the CTS protection function is enabled, the throughput for the wireless LAN connection is reduced.
20. Print jobs being processed can be canceled by anyone even if user authentication is set.

Other changes:

1. Supported RICOH SmartSDK v1.04.
2. The maximum data transmission speed has been changed to 130 Mbps because 40-MHz wireless LAN bandwidth is no longer supported.

Version 1.06

Error Correction

1. Machine operation not possible after the user tries to log out while there are still originals stacked in the ADF to be scanned.
2. Cannot login by IC card when password login is enabled.
3. Guest users are able to perform jobs of any type remotely via the WebAPI despite the Enhanced External Charge Unit being enabled, which normally restricts such users from performing all but Printer jobs.
4. Copy color authentication is disabled when card authentication is enabled.
5. The user's title from the Address Book is not displayed correctly on the operation panel if the title includes data in both the "Frequent" and "Optional title" fields and the title is imported to the MFP using Device Manager NX.

Version 1.05

Symptom corrected

1. The Copier function is not available if a copy job originates from Rimoco.
2. The IP address appears as "0.0.0.0." on the System Settings List for the Printer.
3. SC998 occurs when a print request is generated in the machine transitioning back to fusing unit off mode from sleep mode.
4. SC899 occurs when logging into Service SP mode.
5. SC899 occurs the second time a name is searched via the LDAP server.

6. The machine may not accept incoming data after a Cheetah remote F/W update is performed.
7. The user cannot log out of normal authentication if logging out of EQ authentication first, in cases where EQ and normal authentication logins are performed at the same time.
8. SC899 occurs if a request is generated if the URL string data in the Web API is more than 512B.
9. Screen transition becomes unavailable when logging in to Cheetah Service SP mode right after turning the machine power ON.
10. The UI for the Function Priority setting appears in System Settings, even though this model does not have this function.

Other changes:

11. Supports Web application API V1.02.
12. Supports QR code applications

Version 1.04

Other changes

- This firmware was modified to support a new IC card reader/writer (PR-700), as production of the current it (PR-450) was discontinued.
- Supports remote install of SOP App.

Version 1.03

Other changes:

- Supports Web application API.

Error Correction

1. SC370-02 is posted when using the Type-EX controller.
2. SC997 may occur when the machine powered on.
3. The machine may stall (no response) at incoming faxes.
4. A memory leak occurs while the Web API is being used.
5. A 128-byte password is truncated to 32 bytes when stored in the Address Book (Web API).
6. A UI customized app shuts down when the user logs in using the Web API Authentication UI Customization function.
7. A logged-in user authorized to use the FAX cannot log out when he/she presses the [Logout] button on the SOP (a message stating the user cannot logout is displayed twice).
8. Scan tracking information is accidentally notified to the tracking application of SOP.
9. The notification screen for when IC card login (with a PIN) fails is not displayed when using a UI customized app.
10. A 128-byte User ID that is used to login to the Web UI is shortened to 32 bytes.
11. Multi-byte User IDs sent to the SOP may appear as garbled characters.
12. A memory leak occurs if the authentication request sent to the authentication logic customized app. times out.

Version 1.02

Symptom Corrected:

1. "Machine Status" information displayed in "Check Status" screen may not be updated as required.
2. Estimating energy consumption data cannot be reported via @Remote.
3. When "OCR Settings" is set to "On", if the keywords in a PDF file are scanned by selecting a language other than "Japanese" in the "Cognitive Language" setting, the position of the search results might be incorrect.

Version 1.01

Symptom Corrected:

1. Job application display may not be shown correctly while/after printing out under the silent mode.
2. Trailing edge of a transmitted scanned job shows black streaks caused by network packet corruption.
3. Machine may not recover from the energy saving mode (STR mode).

Version 1.00

1st Mass production

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

[Create date] 2019/04/19

[Program Name] Scanner

[Version] 03.06

[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.] D1935777L

[File Information]

File Name D1935777L.fwu

File Type Module for Service

Size 4.91 MB (5149788 byte)

[File Information]

File Name D1935777L.rfu

File Type Module for Remote Upgrade

Size 4.92 MB (5157120 byte)

[Availability of RFU] Yes

[Production reflection] 2019/04

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- When sending a saved document, the captured image file might not be sent if a SmartSDK scanner application is installed.

[Modification history]

Version 03.05

Rank C

Symptom corrected:

- When Simplified Chinese is selected in the "Insert Additional Email Info" setting in Send Settings, text in an email sent by using Scan to URL is garbled.
- When scanning by using the Smart Device Connector, if the cancel button is pressed while scanned data is being transferred, the device's scanner applications might not be able to be used.
- 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.

Version 03.04

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 03.03

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 v1.11 (D1935771L)

Network Support v13.67 (D1935792F)

Web Support v2.02 (D1935788B)

Scanner v03.03 (D1935777H)

animation v3.00 (D1935778B)

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

Version 03.02

Symptom corrected:

- A user name that has been set to not be used as a "Destination"

appears in Quick Scanner.

- A user name that has been set to be used as a "Destination" in Ricoh IO Device Manager Lite does not appear in Quick Scanner.

Version 03.01

Symptom corrected:

1. When the "Start Scanning" button is pressed in the Scan to Me application, scanning is not performed.

Version 03.00

Symptom corrected:

1. When using a TWAIN driver in certain software applications, such as Pneumologis, an SC899 error occurs.
2. If user authentication is enabled, the address book cannot be updated from Web Image Monitor when the device is in energy-saving mode.
3. When a user executes a job in a SmartSDK application after using the Quick Scanner application, the home screen is displayed.

Other changes:

- Supported RICOH SmartSDK v1.04.

Version 02.04

Symptom corrected:

- Minor bug correction

Version 02.03

Specification Change:

1. Supported RICOH SmartSDK v[1.02].

Symptom corrected:

1. The following problems were fixed in applications that use the Ricoh SmartSDK API.
 - When scanned documents are sent to the Document Server of the MFP, the filename cannot be blank.
 - When the same destination is set multiple times, the total number of destinations are counted.
 - After Scan To Me is performed, the SmartSDK scan function or legacy applications that use the scan function might fail.
 - When the sending of a scan is cancelled, the cancellation is not recorded in the job log.
 - When the countdown for "Wait Time for Next Originals" is displayed, the color mode in Scan Settings cannot be changed.
 - When manually entering a destination to send a scanned document, the destination history appears in the "Recent Destination" section of the legacy applications that use the scan function.

Version 02.02

Symptom corrected:

- Invalid/void thumbnail URI is sent out in notification when a job that supports thumbnails is cancelled.
- SC991-0 occurs if the [Next] button is pressed repeatedly while the scan sample app displays a preview of the scanned image.
- The second scanned PDF image onward cannot be captured if a browser or other client captures a PDF image (prior to this) under certain conditions.
- API preview cannot be displayed if JBIG2 is selected/activated in System Settings.

Other changes:

- Supported APIs for web applications v1.01.

Version 02.01

Other changes:

- Supported APIs for web applications.

Version 02.00.1

1st Mass production

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

[Create date] 2017/09/01

[Program Name] animation

[Version] 3.00

[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.] D1935778B

[File Information]

File Name D1935778B.fwu

File Type Module for Service

Size 9.41 MB (9865992 byte)

[File Information]

File Name D1935778B.rfu

File Type Module for Remote Upgrade

Size 9.41 MB (9871616 byte)

[Availability of RFU] Yes

[Production reflection]

=====
*** 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 v1.11 (D1935771L)

Network Support v13.67 (D1935792F)

Web Support v2.02 (D1935788B)

Scanner v03.03 (D1935777H)

animation v3.00 (D1935778B)

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

[Modification history]

Version 2.00

Symptom Corrected:

1. Traditional Chinese: "Print" is incorrectly displayed as "Copy" on the Print Volume Use Limitation screen (System Settings).
2. Portuguese: "Gestao de" is incorrectly displayed as "Selecionar band. papel" on the Program/Change Administrator screen (Printer Features).

Version 1.00

1st Mass production

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

[Create date] 2019/04/16

[Program Name] Web Support

[Version] 2.04

[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.] D1935788D

[File Information]

File Name D1935788D.fwu

File Type Module for Service

Size 5.89 MB (6180148 byte)

[File Information]

File Name D1935788D.rfu

File Type Module for Remote Upgrade

Size 5.90 MB (6185216 byte)

[Availability of RFU] Yes

[Production reflection] 2019/04

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

[Note]

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

[Important Notes]

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

=====
[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.

[Modification history]

Version 2.03

Rank C

Symptom corrected:

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

Other changes:

- 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 v1.11 (D1915771M) or later, so please be sure to update that firmware as well.

Version 2.02

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 v1.11 (D1935771L)

Network Support v13.67 (D1935792F)

Web Support v2.02 (D1935788B)

Scanner v03.03 (D1935777H)

animation v3.00 (D1935778B)

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

Version 2.01

Symptom corrected:

1. The following settings are no longer available in Web Image Monitor:

- Device Management > Configuration > Function Priority
- Device Management > Device Home Management
- Device Management > User's Own Customization
- Homepage > Customize Screen per User

This firmware is dependent on System/Copy firmware v1.05 (D1935771E) or later, so please be sure to update it.

Version 2.00
1st Mass production

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

[Create date] 2019/11/18

[Program Name] Network Support

[Version] 13.72

[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.] D1935792K

[File Information]

File Name D1935792K.fwu

File Type Module for Service

Size 10.83 MB (11358572 byte)

[File Information]

File Name D1935792K.rfu

File Type Module for Remote Upgrade

Size 10.84 MB (11366656 byte)

[Availability of RFU] Yes

[Production reflection]

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

[Note]

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*** 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 13.70

Rank C

Symptom corrected:

- DNS name resolution for the device might fail if DDNS is enabled in a DHCPv6 environment.
- There is a probability (1/256) that the SSL connection to the device will fail if the connecting component doesn't have a process to retry the SSL connection.

Version 13.69

Rank C

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.
- 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.
- If the device has not been used a significant amount of times, functions that require a network connection might fail.
- 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.

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 13.68

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 13.67

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 v1.11 (D1935771L)

Network Support v13.67 (D1935792F)

Web Support v2.02 (D1935788B)

Scanner v03.03 (D1935777H)

animation v3.00 (D1935778B)

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

Version 13.66

Symptom Corrected:

- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active", authentication will fail.

Version 13.65

Other changes:

- Changed the DH key specification to use 2,048 bits instead of 512 bits to prevent the Logjam vulnerability (CVE-2015-4000). In addition, by modifying this specification, SSL/TLS communication can be established when using Mac OS X 10.10.4 and iOS 8.4.

Version 13.64

Symptom corrected:

1. 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.
2. When the display language of the operation panel is set to Catalan, Scan to Folder fails.
3. When performing IPP printing with the job spool enabled in Mac OS X 10.7 or later and iOS 6 or later, the document is not printed even though the machine supports AirPrint 1.2.

Version 13.63

Symptom corrected:

1. When resuming from an Energy Saver mode, functions that use HTTP, including Web Image Monitor, might not be usable and the device might not be operable.
2. When SP5-985-001 is set to "0" (disabled) and SP5-985-002 is set to "1" (enabled), an SC997 error might occur if repeatedly switching between the home screen and the system settings screen.
3. When conducting IPP printing on Mac OS X 10.9, the document might not print.
4. When running the port scan tool via the IPP port (TCP 631), an SC899 error might occur.
5. When transitioning to multiple webpages in the Web Browser application on the operation panel, a connection error might occur and then the application might not be accessible for a certain period.

Other changes:

1. When printing from the Windows operating system, if the RAW protocol is used for the standard TCP/IP port, a significant amount of time might pass until the next job is printed.
Because of this, the initial print timeout period is changed to 15 seconds and the shortest timeout period that can be set is changed to 5 seconds.
2. Support for AirPrint.
This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
 - Printer firmware: v1.03 or later (D1935794C)

Version 13.62

Symptom corrected:

1. If an error occurs during DSM scanner transmission and the job is cancelled, and then the DSM scanner is reinitiated, a page might be missing from the result of the scanned document.
2. The API for web applications might not work after updating the firmware.

Other changes:

- Supported APIs for web applications.

Version 13.60

1st Mass production

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*** Basic Information ***
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[Create date] 2017/11/15

[Program Name] Printer

[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.] D1915794G

[File Information]

File Name D1915794G.fwu

File Type Module for Service

Size 4.14 MB (4341540 byte)

[File Information]

File Name D1915794G.rfu

File Type Module for Remote Upgrade

Size 4.14 MB (4346112 byte)

[Availability of RFU] Yes

[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:

- IPDS printing might stall if IPDS jobs are printed continuously.
- Printer configuration page might show incorrect information about the bypass tray paper size.
- 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.
- It might take time to resume a job if it is suspended while the device is in Energy Saver mode.

[Modification history]

Version 1.05

Symptom corrected:

- Poor-quality text is output when printing a job that contains multiple PDL data.

Version 1.04

Other changes:

- Enabled administrators with rights to access "capability", "status", and "supportedPDL" in the printer API (version 1.00 to 2.00).

Version 1.03

Symptom corrected:

Print jobs being processed can be canceled by anyone even if user authentication is set.

Version 1.02

Symptom Corrected:

1. While printing a job by using Enhanced Locked Print NX v2, the following jobs cannot be spooled on the device. Because of this, the data-in LED does not blink until all of the pages from the current job have finished printing.
2. A specific combination of Staple and Punch or Staple and Duplex/Booklet cannot be selected from the SDK application even though the combination is supported.
3. A specific combination of Staple and Punch or Staple and Duplex/Booklet can be selected from the SDK application even though the combination is not supported; however, the selected configuration is not applied.

4. A print job conducted from Ricoh Smart Device Print&Scan via Enhanced Locked Print NX FS v2 cannot be printed.

Other Changes:

1. Changed: Support for AirPrint.

This firmware is dependent on the following firmware module.

Please be sure to update it:

- Network Support firmware: v13.61 or later

Version 1.01

Symptom corrected:

1. The Compulsory Security Stamp is not printed under the following conditions:

- "Compulsory Security Stamp: Printer" is enabled in the Administrator Tools of System Settings.
- The printer displays one of the following languages: Simplified Chinese, Traditional Chinese, Korean, Thai, Hebrew, Arabic, or Turkish. (GFPR#RA13100005)

Version 1.00.2

1st Mass production

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*** Basic Information ***
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[Create date] 2018/11/13

[Program Name] PCL

[Version] 1.09

[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.] D1915796J

[File Information]

File Name D1915796J.fwu

File Type Module for Service

Size 1.22 MB (1282456 byte)

[File Information]

File Name D1915796J.rfu

File Type Module for Remote Upgrade

Size 1.23 MB (1290496 byte)

[Availability of RFU] Yes

[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:

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

[Modification history]

Version 1.08

Rank C

Symptom corrected:

- Some characters might be filled with black when the color balance is set below zero.

Version 1.07

Symptom corrected

- The printing results of the second and subsequent pages might not be as expected while PCL5 host printing.
- When printing the contents of an A3 size document on A4 size paper via Direct printing, the text might be distorted.
- Image backgrounds might be filled unexpectedly.
- A pattern put on top of an image or graphic might be blacked out.
- When printing a PCL job which contains images via host printing, an SC899 error might occur.
- The device might stall when printing a heavy-duty job.

Version 1.06

Symptom corrected:

1. An error might occur while printing a job when "Unauthorized Copy Prevention" is enabled and asterisks are included with characters in the "Enter User Text".
2. An SC899 error occurs when using the PCL6 driver to print a PDF from the Reader application in Windows 8.1. (GFPR#RA15050002)
3. When characters that contain the incorrect TrueType font data are printed, not only are incorrect characters missing but also are correct characters that follow incorrect characters. (GFPR#RE16030046)
4. The image quality output from PCL5 data might be poor if the image was created by using certain applications, such as RICOH ProcessDirector. (GFPR#RE15030034)
5. When printing a PCL5 job, black text might be drawn by using process black and result in a blurred or thicker-than-expected output. (GFPR#RA16010003)

Version 1.05

Symptom corrected:

1. Some lines and/or borders might be missing from PCL jobs. (GFPR#RC16040013)
2. An SC899 error might occur when printing a PCL job which contains reduce

or enlarge image. (GFPR#RE16020028)

3. A blank page or missing image is printed out if the PCL data created by certain applications (such as Microsoft Excel 2010) contains a significant amount of graphics and/or transparent objects.

Version 1.04

Symptom corrected:

1. When printing a RPCS vector job that contains an image with transparent parts that the driver generates, the transparent parts are printed in black.(GFPRRE14040024)
2. When "Unauthorized Copy Prevention Printing: Printer" is enabled, an error might occur, causing the job to be cancelled.(GFPR#RA14120002)

Version 1.03

Symptom corrected:

1. If an image size is big and has been enlarged by using the "Reduce/Enlarge" option in the PCL6 driver, unexpected white lines might appear in the printout.
2. Using a bitmap font might result in jobs being cancelled. (GFPR#RE13100030)
3. If a raster image is specified in the PCL6 driver to be reduced, be enlarged, or undergo N-up printing, unexpected white lines might appear in the printout. (GFPR#RA14080005, GFPR#RA14110005)

Version 1.02

Symptom corrected:

1. The even page of the duplex job cannot be previewed from the SDK application.
2. When the print settings are changed for a stored document that includes a banner page, the changed settings are not applied when the document is printed.
3. If the glyph data of TrueType fonts includes hinting information that is on the edge of the frame, an SC899 error might occur. (GFPR#RC14030010)

Version 1.01

1st Mass production

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

[Create date] 2017/11/15

[Program Name] Printer

[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.] D1935794G

[File Information]

File Name D1935794G.fwu

File Type Module for Service

Size 4.14 MB (4341376 byte)

[File Information]

File Name D1935794G.rfu

File Type Module for Remote Upgrade

Size 4.14 MB (4346112 byte)

[Availability of RFU] Yes

[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:

- IPDS printing might stall if IPDS jobs are printed continuously.
- Printer configuration page might show incorrect information about the bypass tray paper size.
- 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.
- It might take time to resume a job if it is suspended while the device is in Energy Saver mode.

[Modification history]

Version 1.06

Symptom corrected:

1. When printing from an application that uses the SmartSDK interface, the number of pages to be printed that is displayed in the application might be incorrect.
2. Poor-quality text is output when printing a job that contains multiple PDL data.

Version 1.05

Symptom corrected:

- If a certain application is installed on the Smart Operation Panel, an SC899 error might occur when the device is recovering from sleep mode.

Other changes:

- Enabled administrators with rights to access "capability", "status", and "supportedPDL" in the printer API (version 1.00 to 2.00).

Version 1.04

Symptom corrected:

- A print job conducted from Ricoh Smart Device Print&Scan via Enhanced Locked Print NX FS v2 cannot be printed.
- Print jobs being processed can be canceled by anyone even if user authentication is set.

Version 1.03

Other changes:

Support for AirPrint.

This firmware is dependent on the following firmware module.

Please be sure to update it:

- Network Support firmware: v13.61 or later

Version 1.02

Symptom corrected:

- The printer API might encounter an error state and send data that is different from the actual state of the printer. This occurs when the printer status level is "Warning" and when the printer status is retrieved by the printer API.

Other changes:

- Supported APIs for web applications v1.01.

Version 1.01

Symptom corrected:

1. A specific combination of Staple and Punch or Staple and Duplex/Booklet cannot be selected from the SDK application even though the combination is supported.
2. A specific combination of Staple and Punch or Staple and Duplex/Booklet can be selected from the SDK application even though the combination is not supported; however, the selected configuration is not applied.

Other changes:

- Supported APIs for web applications.

Version 1.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/13

[Program Name] Fax

[Version] 05.00.00

[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.] D1915774E

[File Information]

File Name D1915774E.fwu

File Type Module for Service

Size 2.08 MB (2179944 byte)

[File Information]

File Name D1915774E.rfu

File Type Module for Remote Upgrade

Size 2.09 MB (2187520 byte)

[Availability of RFU] Yes

[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 fax function might not work if the machine isn't turned off for over 300 days after disabling energy saving mode.
- 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.
- Fax application may stall when recovering from energy saving mode.
- SC899 might occur if there are multiple FAX alerts.

[Modification history]

Version 04.00.00

Other changes:

- Added support for adhering to the Lot 6 regulation of the EU in European devices.

Version 03.00.00

Symptom Corrected

1. The machine may freeze if error in waiting and in scanning is occurred at the same time.
2. A system warning is not displayed when an error occurs while scanning an original through the ADF for a FAX job.
3. A system warning is not displayed when the FAX function is launched.
4. FAX transmission may fail.
5. SC899 (software performance error) may occur when launching Easy FAX.
6. SC899 (software performance error) may occur on the Main machine if a Remote FAX is sent from the Sub machine.
7. SC899 (software performance error) may occur if the pre-transmission Preview is enabled.
8. The FAX function may not start up following continuous FAX communication.
9. The login screen is not displayed while Basic Authentication is enabled.
10. The Address Book cannot be opened, and Quick FAX does not start up.
11. Bug with notices for stored reception files.
12. The sender name is printed on the paper even when this feature is disabled.
13. The job is denied when the Key Card is enabled (SP5-113-01).

Version 02.00.00

Symptom corrected

1. [Simplified display only]: Icons on the Home Screen created by the user to

link with specific programs do not call (link with) those programs correctly.

2. The "Deleting" status message does not clear after the user initiates deletion of a stored FAX document.
3. SC899 (Auto reboot) may occur on the remote machine during FAX Connection transmission.

Note: To re-establish connection after the reboot, it is necessary to perform a manual operation on the client-side machine, and also to tap the confirmation button displayed on the LCD of the remote machine.

4. The machine may freeze (which can only be cleared by power OFF/ON) if a FAX is received while performing a Copy job that will require at least 5 minutes to complete set for duplex, multi-page, and stapling.

Version 01.00.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/13

[Program Name] RemoteFax

[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.] D1915775D

[File Information]

File Name D1915775D.fwu

File Type Module for Service

Size 1.59 MB (1663704 byte)

[File Information]

File Name D1915775D.rfu

File Type Module for Remote Upgrade

Size 1.59 MB (1671424 byte)

[Availability of RFU] Yes

[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:

- Cannot view the Web Image Monitor after sending a PC-Fax
- A sending error might occur with PC-FAX.

[Modification history]

Version 03.00.00

Other changes:

- Added support for adhering to the Lot 6 regulation of the EU in European devices.

Version 02.00.00

Symptom corrected:

Cannot receive an IP Fax

Version 01.00.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/20

[Program Name] NetworkDocBox

[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.] D1915793C

[File Information]

File Name D1915793C.fwu

File Type Module for Service

Size 2.03 MB (2130068 byte)

[File Information]

File Name D1915793C.rfu

File Type Module for Remote Upgrade

Size 2.04 MB (2138368 byte)

[Availability of RFU] Yes

[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:

- Pressing the copy program button may cause the operation panel to become inactive for 30 sec followed by SC997.
- If a user logs in to a device via Basic Authentication just after the device is started up, the Smart Operation Panel application may not work as expected.
- If the device is turned on or is accessed from an application, the guest user authentication logs remain as access logs.
- When attempting to log in to a device management service, such as DeskTopBinder, with a specific user account, a guest account might be used instead.
- An SC899 error might occur when Device Manager NX Accounting frequently requests a device log collection.
- If a device management tool, such as Device Manager NX, is used, an SC899 error might occur when an IC card is used to log in.
- When downloading a scanned document that includes a mix of monochrome and grayscale pages from Web Image Monitor or Scan to URL, an error occurs and the document cannot be downloaded.
- 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.

[Modification history]

Version 1.01

Symptom corrected:

- SC997 will occur if a user logs in to an MFP via an SDK application when the device management software is collecting the Volume Use Counter.

Other changes:

- Supported RICOH SmartSDK v1.04.

Version 1.00

1st Mass production

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*** Basic Information ***
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[Create date] 2019/04/18

[Program Name] System/Copy

[Version] 1.14

[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.] D1935771P

[File Information]

File Name D1935771P.fwu

File Type Module for Service

Size 20.88 MB (21898764 byte)

[File Information]

File Name D1935771P.rfu

File Type Module for Remote Upgrade

Size 20.89 MB (21905664 byte)

[Availability of RFU] Yes

[Production reflection] 2019/04

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*** Note ***
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[Note]

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

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

Rank C

Symptom corrected:

- Error occurs, if new addresses are continuously registered to the address book using Smart SDK.
- If some characters are included in a user name, login authentication is not correctly done.
- SP5-074-002 setting does not work.
- If turning ON the power with SP5-758-001(Remote UI Setting Authentication) set to "1", SC673-10 may appear with the LED lighting in red.
- Copy application and FAX application might not start when pressing these application icons.
- 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.
- Login might fail and the application icon might not be displayed.

[Modification history]

Version 1.13

Rank C

Symptom corrected:

- It takes time to login after authenticating the card.
- If an original jams in the sample copy of a stapled job, the first set is not printed out.
- When updating the address book via Group Destination Helper, the following issues might occur:
 - A group can't be deleted.
 - No more than 125 users can be added to a group.
 - The protection code might disappear when updating the group information.
 - The maximum number of digits for the protection code can't be set.
- If an address book entry for a user's title information that includes both "Frequent" and "optional title" is imported to the device by using Device Manager NX, the user's title from the address book does not display correctly on the device operation panel.
- Kerberos authentication might take time because the TCP timestamp starts with a zero.
- 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.

Version 1.12

Rank C

Other changes:

- 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 v1.12 (D1935771M) or later,

so please be sure to update that firmware as well.

Version 1.11

Symptom corrected:

- On machines with the language set to Russian, "No" is mistranslated to "Yes" in the message that appears when printed from a USB memory stick.

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 v1.11 (D1935771L)

Network Support v13.67 (D1935792F)

Web Support v2.02 (D1935788B)

Scanner v03.03 (D1935777H)

animation v3.00 (D1935778B)

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

Version 1.10

System correction:

- The SC819 occurs when performing an auto logout.
- When using a TWAIN driver in certain software applications, such as Pneumologis, an SC899 error occurs.
- The Java VM does not boot up at main power ON when SP5-730-001 is enabled.
- SC990 occurs when card authentication is enabled.
- 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.
- After entering the user code to start up the Copy application, the user code input screen does not disappear.
- When feeding from the by-pass tray, the Start key may falsely become active before specifying the paper size.
- [WebAPI] counter information cannot be obtained without logging in.
- When scanning with "Hungarian" or "Polish" selected under "Cognitive Language" in "OCR Settings", if the value of a Unicode character exceeds 256, then the character will be converted to a question mark ("?").
- Fax data encoded with Base64 is not correctly received.
- If an email sent by scan-to-email is opened in Office 365 cloud mail service, contents of the attached file may falsely appear in the body of the message with the characters corrupted.
- Fax received is not printed and forwarded to the folder, if "Forwarding setting of Reception File Setting" is enabled.
- logged in using CAP and the device enters Energy Save mode, the device may stall and logging out will fail.
- When an unnecessary authentication method is configured in the application-specific authentication setting of an SDK application, the icon is not displayed on the home screen in logout status.
- The Start key is inactive after recovering from low power mode.
- SC816-38 may occur when the machine switches to Energy Saver mode.
- SC819

Version 1.09

Symptom Corrected:

- The location of the legacy FAX application icon on the display changes, if the firmware is updated with the SD card or by Remote Firmware Update.
- SC899 may occur after recovering from low power mode

Version 1.08

Symptom Corrected:

1. If "Display" is selected under "Paper Confirmation for Bypass Tray," printing is available only in LEF.
(User Tool -> Printer Features -> System -> Tray Setting Priority -> Paper Confirmation for Bypass Tray)
2. When scanning documents of different sizes with all of the following configured, a send error occurs:
 - Set the original feed type setting for original orientation to "Readable orientation".
 - Enabling "Auto detect" and "Mixed original sizes".
 - Selecting any of the "Black & White" scanning settings.
 - Using multi-pass ADF and OCR.

Version 1.07

Specification Changes:

1. Supports CDN (Contents Delivery Network).

Symptom corrected:

1. A transmission error occurs during internet FAX transmission (Direct SMTP).
2. Traditional Chinese: "Print" is incorrectly displayed as "Copy" on the Print Volume Use Limitation screen (System Settings).
3. Portuguese: "Gestao de" is incorrectly displayed as "Selecionar band. papel" on the Program/Change Administrator screen (Printer Features).
4. Internet FAX function does not work under the following conditions.
 - Mail receiving protocol is set to SMTP
 - OS of SMTP client side is Windows
 - The receiving device is kept off-line
5. SC899 occurs when using Quick Copy application.
6. All the keys on the operation panel become inactive after making settings in User Tools.
7. SC673-10 occurs when the banner message appears on the Smart Operation Panel.
8. SC673-10 occurs when turning on the main switch or recovering from the energy saver mode.
9. The application icons on the Smart Operation Panel do not appear immediately after turning on the main switch.
10. SC819-38 occurs if the machine repeatedly enters and recovers from Energy Saver mode after the main power switch is turned ON, followed by SC819 if the machine is used continuously after that.
11. Even if the device is configured to restrict users from registering a destination in the address book, as shown below, a user can still register a destination by using the Scan to Folder

Helper application:

- "System Settings > Administrator Tools > Extended Security > Restrict User of Destination(Fax)" set to "ON".
 - "System Settings > Administrator Tools > Extended Security > Restrict User of Destinations(Scanner)" set to "ON".
12. "Authenticating... Please wait..." will be displayed if a user logs in to a device with CAP v2 (Hybrid mode) installed in the case that "Security Setting for Access Violation" is set as "On" in UP --> System Settings --> Administrator Tools --> Extended Security.
 13. In wireless LAN environments, when A-MSDU is enabled, the device cannot receive packet data that is more than 2,048 bytes.
 14. When trying to establish an ad-hoc connection among three or more devices, the third and subsequent devices cannot connect.
 15. The device cannot communicate when using the WMM (Wi-Fi Multimedia) function.
 16. In wireless LAN environments, when large volume printing is being conducted, the job is cancelled in the middle of printing.
 17. In wireless LAN environments, when the authentication methods WPA2 and A-MPDU are enabled, printing might take a significant amount of time.
 18. When the threshold for fragmentation is set in the access point settings, the MFP/LP will fail to receive the packet data if the computer sends data that is larger than the threshold that is set.
 19. When the CTS protection function is enabled, the throughput for the wireless LAN connection is reduced.
 20. Print jobs being processed can be canceled by anyone even if user authentication is set.

Other changes:

1. Supported RICOH SmartSDK v1.04.
2. The maximum data transmission speed has been changed to 130 Mbps because 40-MHz wireless LAN bandwidth is no longer supported.

Version 1.06

Error Correction

1. Machine operation not possible after the user tries to log out while there are still originals stacked in the ADF to be scanned.
2. Cannot login by IC card when password login is enabled.
3. Guest users are able to perform jobs of any type remotely via the WebAPI despite the Enhanced External Charge Unit being enabled, which normally restricts such users from performing all but Printer jobs.
4. Copy color authentication is disabled when card authentication is enabled.
5. The user's title from the Address Book is not displayed correctly on the operation panel if the title includes data in both the "Frequent" and "Optional title" fields and the title is imported to the MFP using Device Manager NX.

Version 1.05

Symptom corrected

1. The Copier function is not available if a copy job originates from Rimoco.
2. The IP address appears as "0.0.0.0." on the System Settings List for the Printer.

3. SC998 occurs when a print request is generated in the machine transitioning back to fusing unit off mode from sleep mode.
4. SC899 occurs when logging into Service SP mode.
5. SC899 occurs the second time a name is searched via the LDAP server.
6. The machine may not accept incoming data after a Cheetah remote F/W update is performed.
7. The user cannot log out of normal authentication if logging out of EQ authentication first, in cases where EQ and normal authentication logins are performed at the same time.
8. SC899 occurs if a request is generated if the URL string data in the Web API is more than 512B.
9. Screen transition becomes unavailable when logging in to Cheetah Service SP mode right after turning the machine power ON.
10. The UI for the Function Priority setting appears in System Settings, even though this model does not have this function.

Other changes:

11. Supports Web application API V1.02.
12. Supports QR code applications

Version 1.04

Other changes

- This firmware was modified to support a new IC card reader/writer (PR-700), as production of the current it (PR-450) was discontinued.
- Supports remote install of SOP App.

Version 1.03

Other changes:

- Supports Web application API.

Error Correction

1. SC370-02 is posted when using the Type-EX controller.
2. SC997 may occur when the machine powered on.
3. The machine may stall (no response) at incoming faxes.
4. A memory leak occurs while the Web API is being used.
5. A 128-byte password is truncated to 32 bytes when stored in the Address Book (Web API).
6. A UI customized app shuts down when the user logs in using the Web API Authentication UI Customization function.
7. A logged-in user authorized to use the FAX cannot log out when he/she presses the [Logout] button on the SOP (a message stating the user cannot logout is displayed twice).
8. Scan tracking information is accidentally notified to the tracking application of SOP.
9. The notification screen for when IC card login (with a PIN) fails is not displayed when using a UI customized app.
10. A 128-byte User ID that is used to login to the Web UI is shortened to 32 bytes.
11. Multi-byte User IDs sent to the SOP may appear as garbled characters.
12. A memory leak occurs if the authentication request sent to the authentication logic customized app. times out.

Version 1.02

Symptom Corrected:

1. "Machine Status" information displayed in "Check Status" screen may not be updated as required.
2. Estimating energy consumption data cannot be reported via @Remote.
3. When "OCR Settings" is set to "On", if the keywords in a PDF file are scanned by selecting a language other than "Japanese" in the "Cognitive Language" setting, the position of the search results might be incorrect.

Version 1.01

Symptom Corrected:

1. Job application display may not be shown correctly while/after printing out under the silent mode.
2. Trailing edge of a transmitted scanned job shows black streaks caused by network packet corruption.
3. Machine may not recover from the energy saving mode (STR mode).

Version 1.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/19

[Program Name] Fax

[Version] 06.00.00

[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.] D1935774E

[File Information]

File Name D1935774E.fwu

File Type Module for Service

Size 2.08 MB (2179960 byte)

[File Information]

File Name D1935774E.rfu

File Type Module for Remote Upgrade

Size 2.09 MB (2187520 byte)

[Availability of RFU] Yes

[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 fax function might not work if the machine isn't turned off for over 300 days after disabling energy saving mode.
- Fax application may stall when recovering from energy saving mode.
- SC899 might occur if there are multiple FAX alerts.
- 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.

[Modification history]

Version 05.00.00

Symptom Corrected

1. SC899 (software performance error) may occur when launching Easy FAX.
2. SC899 (software performance error) may occur on the Main machine if a Remote FAX is sent from the Sub machine.
3. SC899 (software performance error) may occur if the pre-transmission Preview is enabled.
4. The FAX function may not start up following continuous FAX communication.
5. FAX transmission may fail.
6. A system warning is not displayed when the FAX function is launched.
7. The Address Book cannot be opened, and Quick FAX does not start up.
8. The login screen is not displayed while Basic Authentication is enabled.
9. Bug with notices for stored reception files.
10. The sender name is printed on the paper even when this feature is disabled.
11. The job is denied when the Key Card is enabled (SP5-113-01).

Version 04.00.00

Symptom corrected

1. SC899 may occur on the main machine if a Remote FAX is sent from the sub machine.
2. The machine may freeze (which can only be cleared by power OFF/ON) if a FAX is received while performing a Copy job that will require at least 5 minutes to complete set for duplex, multi-page, and stapling.

Version 03.00.00

Symptom Corrected:

[Simplified display only]: Icons on the Home Screen created by the user

to link with specific programs do not call (link with) those programs correctly.

Version 02.00.00

Symptom corrected:

1. The LCD stalls when a Document Server document is deleted.
2. No further operations are possible when the user presses the Stop key (a message is displayed telling the user that the Stop key has been pressed and the job is being cancelled).
3. The Preview screen is not displayed if the specify file path input method is used with Smart SDK.

Version 01.00.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/19

[Program Name] RemoteFax

[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.] D1935775C

[File Information]

File Name D1935775C.fwu

File Type Module for Service

Size 1.59 MB (1662264 byte)

[File Information]

File Name D1935775C.rfu

File Type Module for Remote Upgrade

Size 1.59 MB (1667328 byte)

[Availability of RFU] Yes

[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:

- Cannot view the Web Image Monitor after sending a PC-Fax
- A sending error might occur with PC-FAX.

[Modification history]

Version 03.00.00

Symptom corrected:

Cannot receive an IP Fax

Version 02.00.00

Symptom corrected:

- The machine may stall when the Smart Operation Panel option is installed.

Version 01.00.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/20

[Program Name] NetworkDocBox

[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.] D1935793D

[File Information]

File Name D1935793D.fwu

File Type Module for Service

Size 2.04 MB (2137528 byte)

[File Information]

File Name D1935793D.rfu

File Type Module for Remote Upgrade

Size 2.04 MB (2142464 byte)

[Availability of RFU] Yes

[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:

- Pressing the copy program button may cause the operation panel to become inactive for 30 sec followed by SC997.
- If a user logs in to a device via Basic Authentication just after the device is started up, the Smart Operation Panel application may not work as expected.
- If the device is turned on or is accessed from an application, the guest user authentication logs remain as access logs.
- When attempting to log in to a device management service, such as DeskTopBinder, with a specific user account, a guest account might be used instead.
- An SC899 error might occur when Device Manager NX Accounting frequently requests a device log collection.
- If a device management tool, such as Device Manager NX, is used, an SC899 error might occur when an IC card is used to log in.
- When downloading a scanned document that includes a mix of monochrome and grayscale pages from Web Image Monitor or Scan to URL, an error occurs and the document cannot be downloaded.
- 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.

[Modification history]

Version 1.03

Symptom corrected:

- SC997 will occur if a user logs in to an MFP via an SDK application when the device management software is collecting the Volume Use Counter.

Version 1.02

Specification Change:

- Supported RICOH SmartSDK v1.02.

Version 1.01

Other changes:

- Supported APIs for web applications.

Symptom corrected:

- When Device Log Collection is conducted approximately 4,000 times by using Device Manager NX Accounting, unexpected behavior might occur.

Version 1.00

1st Mass production

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*** Basic Information ***
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[Create date] 2018/07/19

[Program Name] XPS

[Version] 1.08

[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.] D7925738C

[File Information]

File Name D7925738C.fwu

File Type Module for Service

Size 1.77 MB (1850892 byte)

[File Information]

File Name D7925738C.rfu

File Type Module for Remote Upgrade

Size 1.77 MB (1855744 byte)

[Availability of RFU] Yes

[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:

- When printing the contents of an A3 size document on A4 size paper via Direct printing, the text might be distorted.

[Modification history]

Version 1.07

Symptom corrected:

- When "Unauthorized Copy Prevention Printing: Printer" is enabled, an error might occur, causing the job to be cancelled. (GFPR#RA14120002)

Version 1.06

1st Mass production