```
===============================================================================
*** Basic Information ***
===============================================================================
[Create date] 2017/05/25
-------------------------------------------------------------------------
[Program Name] PowerSaving Sys
-------------------------------------------------------------------------
[Version] 1.L3.12
-------------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------------
[Software category] Normal Release
-------------------------------------------------------------------------
[Release category] Normal Release
-------------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5531C
[File Information]
 File Name       M0AN5531C.fwu
 File Type       Module for Service
 Size         4.00 MB ( 4194832 byte )
[File Information]
 File Name       M0AN5531C.rfu
 File Type       Module for Remote Upgrade
 Size         4.01 MB ( 4202752 byte )
-------------------------------------------------------------------------
[Production reflection] 2017/04
-------------------------------------------------------------------------


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

-------------------------------------------------------------------------



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

-------------------------------------------------------------------------
```

==
*** Modification History ***
==
[Modifications made:]
1st Mass production

[Modification history]

```
===============================================================================
*** Basic Information ***
===============================================================================
[Create date] 2018/09/26
-------------------------------------------------------------------------
[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.] M0AN5533E
[File Information]
 File Name       M0AN5533E.fwu
 File Type       Module for Service
 Size            1.01 MB ( 1054428 byte )
[File Information]
 File Name       M0AN5533E.rfu
 File Type       Module for Remote Upgrade
 Size            1.01 MB ( 1061120 byte )
[Availability of RFU] Yes
-------------------------------------------------------------------------
[Production reflection] 2018/09
-------------------------------------------------------------------------


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

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

-------------------------------------------------------------------------


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

===
[Modifications made:]
Rank C

Symptom corrected:
- When using the application for the Japanese market, the Job Log transfer
  settings might not be set correctly when importing the preference information
  from another device.

[Modification history]

Version 1.01
Rank C

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

Version 1.00
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/06/15
----------------------------------------------------------------
[Program Name] Network Support
----------------------------------------------------------------
[Version] 16.61
----------------------------------------------------------------
[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.] M0AN5535E
[File Information]
 File Name       M0AN5535E.fwu
 File Type       Module for Service
 Size           10.77 MB ( 11292164 byte )
[File Information]
 File Name       M0AN5535E.rfu
 File Type       Module for Remote Upgrade
 Size           10.77 MB ( 11297024 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/06
----------------------------------------------------------------


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

----------------------------------------------------------------


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

----------------------------------------------------------------
```

```
=======================================================================
*** Modification History ***
=======================================================================
```
[Modifications made:]
Rank C

Symptom corrected:
- The device might fail to obtain the fax transmission result using FTP.
- SC819 might occur after updating firmware remotely.
- When conducting AirPrint, if port 80/TCP (HTTP) or port 631/TCP (IPP)
  in the printer is closed, the Apple device cannot find the printer.

[Modification history]

Version 16.60
Rank C

Symptom corrected:
- Fixed unnecessary processing affecting hard disk failure and
  deterioration.
- Unnecessary logs are recorded in the system logs when connecting
  to the network through a wireless LAN.
- When using the DHCP Option204 function, the "Setting change..."
  message might be repeatedly displayed on the operation panel,
  and a user cannot operate the device.
- Fixed the WebAPI bug when obtaining the network property
  information.

Version 16.59
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/10/02
----------------------------------------------------------------
[Program Name] Printer
----------------------------------------------------------------
[Version] 1.10
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5537J
[File Information]
 File Name        M0AN5537J.fwu
 File Type        Module for Service
 Size             4.67 MB ( 4897348 byte )
[File Information]
 File Name        M0AN5537J.rfu
 File Type        Module for Remote Upgrade
 Size             4.68 MB ( 4903168 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/09
----------------------------------------------------------------


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

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

----------------------------------------------------------------


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

==
[Modifications made:]
Rank C

Symptom corrected:
- An SC899 error might occur if displaying the print job history
  on the Web Image Monitor after printing a file with a long name.
- If the machine reboots due to a forced shut-down, a power outage,
  unplugging a power cable, or an SC819 error, jobs using certain applications
  might not print.
- The Replacement Alert settings on the Printer Features configuration page
  don't match the actual settings.

Other changes:
- SP5-490-001 (MF Key Card: Job Permit Setting) is now available.

[Modification history]

Version 1.06
 Symptom corrected:
- It might take time to resume a job if it is suspended while the
  device is in Energy Saver mode.

Version 1.05
Fixed:
- An IPDS Form might not be created when equipping an Internal Multi-fold Unit FD3000.
- IPDS printing might fail when equipping an Internal Multi-fold Unit FD3000.
- The "7 1/4 x 10 1/2" paper size can be set as SEF while creating an IPDS Form.
- An IPDS Form with the paper size of "7 1/4 x 10 1/2" can be set to the bypass tray.

Version 1.04
Fixed:
- IPDS form creation might fail when specifying a custom paper size.
- Some characters in the IPDS form name might be distorted when
  specifying a tray form.

Version 1.03
Symptom corrected:
- When printing a specific job consecutively, it might print upside down.

Version 1.02
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/05/25
--------------------------------------------------------------------
[Program Name] RPCS
--------------------------------------------------------------------
[Version] 3.20.25
--------------------------------------------------------------------
[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.] M0AN5539B
[File Information]
 File Name        M0AN5539B.fwu
 File Type        Module for Service
 Size          0.63 MB ( 661592 byte )
[File Information]
 File Name        M0AN5539B.rfu
 File Type        Module for Remote Upgrade
 Size          0.64 MB ( 667904 byte )
--------------------------------------------------------------------
[Production reflection] 2017/04
--------------------------------------------------------------------


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

--------------------------------------------------------------------



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

--------------------------------------------------------------------
```

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
1st Mass production


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

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/05/25
----------------------------------------------------------------
[Program Name] IRIPS PS3
----------------------------------------------------------------
[Version] 1.00
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5544A
[File Information]
 File Name       M0AN5544A.fwu
 File Type       Module for Service
 Size            0.01 MB ( 1652 byte )
[File Information]
 File Name       M0AN5544A.rfu
 File Type       Module for Remote Upgrade
 Size            0.01 MB ( 8448 byte )
----------------------------------------------------------------
[Production reflection] 1st Mass Production
----------------------------------------------------------------


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

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

----------------------------------------------------------------
```

```
==========================================================================
*** Modification History ***
==========================================================================
[Modifications made:]
1st Mass production


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

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/05/15
----------------------------------------------------------------
[Program Name] IRIPS PDF
----------------------------------------------------------------
[Version] 1.10
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5546K
[File Information]
 File Name      M0AN5546K.fwu
 File Type      Module for Service
 Size          2.77 MB ( 2899700 byte )
[File Information]
 File Name      M0AN5546K.rfu
 File Type      Module for Remote Upgrade
 Size          2.77 MB ( 2904320 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2019/05
----------------------------------------------------------------


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

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

----------------------------------------------------------------


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

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[Modifications made:]
Rank C

Symptom corrected:
- The minus sign (-) in a PDF file might not be printed via PDF Direct.
- When printing a PDF file that contains circled letters or numbers, the circle itself might be distorted.
- PDF files that are generated by certain applications might not print via Direct Print.
- When printing a PDF file that contains downloaded fonts, an invalid font error might occur, and the print job might be canceled.
- When printing a file containing images as a booklet, the output might be distorted.
- A locked print job might not be stored on the machine if it is printed using PJL commands.
- When printing a PDF file that contains exceptionally small fonts, an invalid font error might occur, and the print job might not be printed correctly.

[Modification history]

Version 1.09
Rank C

Symptom corrected:
- Images might not appear as expected when printing a PDF file via AirPrint.

Version 1.08
Rank C

Symptom corrected:
- Data that includes a masked background image might not print correctly.
- When printing from a memory storage device from the Bypass Tray,
  if there is a paper size mismatch between the System Settings
  and the paper size specified for the Bypass Tray, it might not print correctly.
- An SC899 error might occur when printing PostScript data that includes a watermark
  with a non-standard font using the PS V4 driver.

Version 1.07
Rank C

Symptom corrected:
- When printing a PDF with a specific command, an invalidfont error might occur.
- Some Type 0 fonts in a PDF might not print correctly.
- Some Symbolic fonts in a PDF might not print correctly.
- The image might be rotated 180 degrees when printing Landscape document via the SmartSDK.
- When printing a PDF with an embedded TrueType font, some characters might be garbled.

Version 1.06
Rank C

Symptom corrected:
- The scaling might be wrong when printing PDF data that contains
  the FITTOPAGESIZE command but not PRINTSCALING.
- Linux print jobs in Stored Print might be canceled.
- Pages printed as a booklet might be centered incorrectly.
- With booklet printing or N-Up printing, the scaling ratio might be

wrong.
- Characters might become too thick if the transparency is specified.

Version 1.05
Fixed:
- Both ends of the watermark might be cut off when printing from the
  V4 driver.
- SC899 might occur while PDF printing.
- The top and bottom ends might be missing if the size is scaled
  when PDF printing.
- Some characters might print in the wrong position when printing a
  PDF containing certain fonts.
- Characters in italics might be unrecognizable.
- SC899 might occur when a watermark is printed from the V4 driver.

Version 1.04
Symptom corrected:
- The printing of a PDF file created by the "Microsoft Print to PDF"
  function might be canceled.
- Some characters might be printed upside down.
- An incorrect paper size may be fed while printing via AirPrint.

Version 1.03
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/07/03
----------------------------------------------------------------
[Program Name] System
----------------------------------------------------------------
[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.] M0AN5550L
[File Information]
 File Name       M0AN5550L.fwu
 File Type       Module for Service
 Size           22.63 MB ( 23724684 byte )
[File Information]
 File Name       M0AN5550L.rfu
 File Type       Module for Remote Upgrade
 Size           22.63 MB ( 23732480 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/06
----------------------------------------------------------------


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

----------------------------------------------------------------


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

----------------------------------------------------------------
```

```
=======================================================================
*** Modification History ***
=======================================================================
[Modifications made:]
Rank C

Symptom corrected:
- When the SMC List is saved to the SD card as a CSV file,
  SP7507 (Latest Jam History) is not correctly recorded.


-------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.08
Rank D

Other changes:
- Minor change for domestic market.


-----------------------------------------
Version 1.07
Rank C

Symptom corrected:
- A bug of SmartSDK API was fixed.
- If some characters are included in a user name, login
  authentication is not correctly done.
- If log tracing on Web Image Monitor is cancelled just after using
  the function, the machine enters into off-line mode.
- User usage restrictions do not come into effect if authentication
  is enabled in Quick Card Authentication.

Other changes:
- Added the function to set user usage restrictions for each
  application.
- Supported RICOH SmartSDK v2.40.


-----------------------------------------
Version 1.06
Rank C

Specification Change:
- The following SP settings will be included in SMC Print:
  - SP2-990-101(LL)
  - SP2-990-102(ML)
  - SP2-990-103(HH)


-----------------------------------------
Version 1.04
```

Rank C

Specification Change:
 - Message description when fusing unit achieve the yield is changed.

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

Version 1.03
Symptom corrected:
- SC998 may occur when powering on if an ESA application is set as a
  priority function.
- An invalid value is returned when obtaining the counter MIB,
  ricohEngCounterValue, during device shutdown.

Specification Change:
- Added the specification of panel coordinate inspection for the
  Smart Operation Panel.

Version 1.02
1st Mass production

===
*** Basic Information ***
===
[Create date] 2017/05/25

[Program Name] MovieData

[Version] 1.01

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)
[Firmware No.] M0AN5560C
[File Information]
 File Name   M0AN5560C.fwu
 File Type   Module for Service
 Size   24.13 MB (25299368 byte)
[File Information]
 File Name   M0AN5560C.rfu
 File Type   Module for Remote Upgrade
 Size   24.13 MB (25305344 byte)

[Production reflection]

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

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

==
*** Modification History ***
==
[Modifications made:]
1st Mass production

[Modification history]

```
==============================================================================
*** Basic Information ***
==============================================================================
[Create date] 2017/05/25
------------------------------------------------------------------------
[Program Name] MovieData2
------------------------------------------------------------------------
[Version] 1.01
------------------------------------------------------------------------
[PCB No.]
------------------------------------------------------------------------
[Interchangeability] X / O
------------------------------------------------------------------------
[Other Firmware Requirements] None
------------------------------------------------------------------------
[PCB Requirements] None
------------------------------------------------------------------------
[Software category] Normal Release
------------------------------------------------------------------------
[Release category] Normal Release
------------------------------------------------------------------------
[Program category] Firmware
------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5561B
[File Information]
 File Name       M0AN5561B.fwu
 File Type       Module for Service
 Size            40.19 MB ( 42141244 byte )
[File Information]
 File Name       M0AN5561B.rfu
 File Type       Module for Remote Upgrade
 Size            40.20 MB ( 42148096 byte )
------------------------------------------------------------------------
[Production reflection]
------------------------------------------------------------------------


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


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


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```

```
===========================================================================
*** Modification History ***
===========================================================================
[Modifications made:]
1st Mass production


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

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/05/25
--------------------------------------------------------------------------
[Program Name] MovieData3
--------------------------------------------------------------------------
[Version] 1.01
--------------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5562B
[File Information]
 File Name        M0AN5562B.fwu
 File Type        Module for Service
 Size           31.74 MB ( 33283216 byte )
[File Information]
 File Name        M0AN5562B.rfu
 File Type        Module for Remote Upgrade
 Size           31.75 MB ( 33288448 byte )
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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

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

--------------------------------------------------------------------------
```

```
================================================================================
*** Modification History ***
================================================================================
[Modifications made:]
1st Mass production


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

==
*** Basic Information ***
==
[Create date] 2017/05/25

[Program Name] PS3

[Version] 1.00

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)
[Firmware No.] M5135731A
[File Information]
 File Name   M5135731A.fwu
 File Type   Module for Service
 Size   0.01 MB (1440 byte)
[File Information]
 File Name   M5135731A.rfu
 File Type   Module for Remote Upgrade
 Size   0.01 MB (8448 byte)

[Production reflection] 1st Mass Production

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

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

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

[Modifications made:]
1st Mass production


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

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/05/15
----------------------------------------------------------------
[Program Name] System
----------------------------------------------------------------
[Version] 1.13
----------------------------------------------------------------
[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.] M0AN5563A
[File Information]
 File Name        M0AN5563A.fwu
 File Type        Module for Service
 Size            22.63 MB ( 23727572 byte )
[File Information]
 File Name        M0AN5563A.rfu
 File Type        Module for Remote Upgrade
 Size            22.63 MB ( 23732480 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2019/05
----------------------------------------------------------------


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

----------------------------------------------------------------


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

----------------------------------------------------------------


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

==
[Modifications made:]
Rank C

Symptom corrected:
- Wireless direct connection might fail in Group Owner Mode.
- Cannot log-in with VM less application during daylight saving time . (Only in the case that the daylight saving time period start at Oct-Dec)
- The time on the Date and Time Widget might be incorrect if the FAX SP1-101-022 (System Switch 15) bit 1(Going into the Energy Saver mode automatically) is set to "1: Disabled".
- When logging in or out repeatedly, SC899 might occur because of an irregular memory exclusion operation.

Other changes:
- If a firmware package is unpublished (for example, when a bug is discovered after release), it is possible to apply a previous firmware package via ARFU, SFU, and Application Site.
- (Previously, if a firmware package is unpublished then ARFU, SFU, and Application Site would display an error dialog and the function could not be used.)
- In the event that a problem is discovered which only affects ARFU, SFU, and/or Application Site, updates via those functions can be disabled on the global download server side. (While still allowing manual downloads by a technician)

[Modification history]

Version 1.12
Rank C

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

Version 1.11
Rank C

Symptom corrected:
- Copy application and FAX application mihgt not start when pressing
  these application icons.
- Login might fail and the application icon might not be displayed.

Version 1.10
Rank C

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

Other changes:
- SP5-490-001 (MF Key Card: Job Permit Setting) is now available.

Version 1.09
Rank C

Symptom corrected:
- When the SMC List is saved to the SD card as a CSV file,
  SP7507 (Latest Jam History) is not correctly recorded.

Version 1.08
Rank D

Other changes:
- Minor change for domestic market.

Version 1.07
Rank C

Symptom corrected:
- A bug of SmartSDK API was fixed.
- If some characters are included in a user name, login
  authentication is not correctly done.
- If log tracing on Web Image Monitor is cancelled just after using
  the function, the machine enters into off-line mode.
- User usage restrictions do not come into effect if authentication
  is enabled in Quick Card Authentication.

Other changes:
- Added the function to set user usage restrictions for each
  application.
- Supported RICOH SmartSDK v2.40.

Version 1.06
Rank C

Specification Change:
- The following SP settings will be included in SMC Print:
  - SP2-990-101(LL)
  - SP2-990-102(ML)
  - SP2-990-103(HH)

Version 1.04
Rank C

Specification Change:
 - Message description when fusing unit achieve the yield is changed.

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

Version 1.03
Symptom corrected:
- SC998 may occur when powering on if an ESA application is set as a
  priority function.
- An invalid value is returned when obtaining the counter MIB,
  ricohEngCounterValue, during device shutdown.

Specification Change:
- Added the specification of panel coordinate inspection for the
  Smart Operation Panel.

Version 1.02
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/07
----------------------------------------------------------------
[Program Name] PDF
----------------------------------------------------------------
[Version] 1.03
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5135733C
[File Information]
 File Name       M5135733C.fwu
 File Type       Module for Service
 Size            4.28 MB ( 4486096 byte )
[File Information]
 File Name       M5135733C.rfu
 File Type       Module for Remote Upgrade
 Size            4.29 MB ( 4493568 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/11
----------------------------------------------------------------


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

----------------------------------------------------------------


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

----------------------------------------------------------------


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

==
[Modifications made:]
Rank C

Symptom corrected:
- If a PDF contains transparent images, printing might be canceled due to a lack of memory.
- Printing a PDF with a transparent image and a shaded image might take a long time due to
  memory release processing, and the shaded image might not be printed as expected.
- When printing a PDF file that contains transparent images via PDF Direct,
  the output might be distorted.
- Images might be missing and an invalid font error might occur when printing a webpage
  with Adobe Typekit fonts.

[Modification history]

Version 1.02
Fixed:
- An incorrect paper size may be fed while printing via AirPrint.
- SC899 might occur while printing via PDF Direct if a job includes
  more than 500 pages.

Version 1.01
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/05/25
----------------------------------------------------------------
[Program Name] XPS
----------------------------------------------------------------
[Version] 1.15
----------------------------------------------------------------
[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.] M5135737A
[File Information]
 File Name       M5135737A.fwu
 File Type       Module for Service
 Size            1.95 MB ( 2047244 byte )
[File Information]
 File Name       M5135737A.rfu
 File Type       Module for Remote Upgrade
 Size            1.96 MB ( 2052352 byte )
----------------------------------------------------------------
[Production reflection] 1st Mass Production
----------------------------------------------------------------


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

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

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```

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
1st Mass production


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

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/10/01
--------------------------------------------------------------------------
[Program Name] Java VM v12 std for eDC
--------------------------------------------------------------------------
[Version] 12.62.00
--------------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5135742D_edc
[File Information]
 File Name        M5135742D_edc.ifu
 File Type        Module for Service
 Size             64.01 MB ( 67115792 byte )
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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*** Note ***
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[Note]

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

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================================================================================
*** Modification History ***
================================================================================
[Modifications made:]
Rank C
```

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

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

[Modification history]

Version 12.57.00
Symptom corrected:
- 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.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.
- The SDK application may stop suddenly due to the increase of memory usage.

Version 12.54.00
Symptom corrected:
- Under the following conditions, when performing on-demand printing
  with the Enhanced Locked Print, the SC899 error might occur.
    - More than 100 connected devices are set as the host name.
    - Host name resolution fails on DNS server.
- 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.
- When showing the device status via a Solution Product (Streamline
  and CAP/ELP), the device's HDD capacity is not displayed correctly.
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- 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 12.47.01
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/10/01
--------------------------------------------------------------------------
[Program Name] Java VM v12 std UpdateTool
--------------------------------------------------------------------------
[Version] 12.62.00
--------------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5135742D_upd
[File Information]
 File Name       M5135742D_upd.exe
 File Type       Module for Service
 Size          63.70 MB ( 66794722 byte )
 Check Sum -8Bit Sum: 6107
        -16Bit Sum(Little Endian): 6BF7
        -16Bit Sum(Big Endian): FC10
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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*** Note ***
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[Note]

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

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

[Modifications made:]
Rank C

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

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

[Modification history]

Version 12.57.00
ymptom corrected:
- 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.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.
- The SDK application may stop suddenly due to the increase of memory usage.

Version 12.54.00
Symptom corrected:
- Under the following conditions, when performing on-demand printing
  with the Enhanced Locked Print, the SC899 error might occur.
    - More than 100 connected devices are set as the host name.
    - Host name resolution fails on DNS server.
- 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.
- When showing the device status via a Solution Product (Streamline
  and CAP/ELP), the device's HDD capacity is not displayed correctly.
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- 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 12.47.01
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/03/30
----------------------------------------------------------------
[Program Name] Engine
----------------------------------------------------------------
[Version] 1.02:00
----------------------------------------------------------------
[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.] M0AN5500F
[File Information]
 File Name       M0AN5500F.fwu
 File Type       Module for Service
 Size           3.94 MB ( 4129268 byte )
[File Information]
 File Name       M0AN5500F.rfu
 File Type       Module for Remote Upgrade
 Size           3.95 MB ( 4137216 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:]
Rank C

Other changes:
- The heater will stay on when the machine is in quiet mode.

[Modification history]

Version 1.01:00
Symptom Corrected:
The following occur if the toner bottle is replaced at Toner Near End:
- The Supply Call for Toner Bottle is not sent to the @Remote Center even though
  SP5-507-080 (Toner Call Trigger) is set to "0: Toner replacement" (default).
- The value of SP8-781-001 (Toner Replacement Counter) does not count up.
   Note: This does not occur if the bottle is used until Toner End.

Version 1.00:00
1st Mass production

<<Package>>
Package(ALL) [CORP15a_pk]
 M0AN5517B Ver. 3.00 -> M0AN5517C Ver. 4.00

<<Separate>>
Engine [CORP15a_eplot]
 M0AN5500F Ver. 1.02:00

System [CORP15a_system]
 M0AN5550F Ver. 1.03 -> M0AN5550L Ver. 1.09

Printer [CORP15d_printer]
 M0AN5536E Ver. 1.03 -> M0AN5536H Ver. 1.06

Network Support [CORP15a_net]
 M0AN5535E Ver. 16.61

NetworkDocBox [CORP15a_nfa]
 M0AN5533D Ver. 1.01

IRIPS PDF [COP15d_prt_IPDF]
 M0AN5545D Ver. 1.04 -> M0AN5545G Ver. 1.07

Web Support [CORP15a_web]
 M0AN5532E Ver. 1.05

PDF [COP15d_prt_PDF]
 M5135740B Ver. 1.02

IRIPS PDF [COP15e_prt_IPDF]
 M0AN5546D Ver. 1.04 -> M0AN5546G Ver. 1.07

Printer [CORP15e_printer]
 M0AN5537E Ver. 1.03 -> M0AN5537H Ver. 1.06

PDF [COP15e_prt_PDF]
 M5135733B Ver. 1.02

M2a_System [M2a_System]
 D2411425A Ver. 1.24.1 -> D2411425H Ver. 1.29

M2a_LegacyUI [M2a_LegacyUI]
 D2411427S Ver. 1.16 -> D2411427Z Ver. 1.22

M2a_WLanguage [M2a_WLanguage]
 D2411431H Ver. 1.06 -> D2411431K Ver. 1.10

M2a_Wtonner [M2a_WTonner]
 D2411434G Ver. 1.05 -> D2411434H Ver. 1.06

M2a_WEcoInfo [M2a_WEcoInfo]
 D2411437F Ver. 1.06 -> D2411437G Ver. 1.07

M2a_MeidaPrt [M2a_MeidaPrt]
 M0AJ1557J Ver. 1.07 -> M0AJ1557L Ver. 1.09

M2a_PrinterInfo [M2a_PrinterInfo]

D2411458N Ver. 1.12 -> D2411458P Ver. 1.13

Application Site [M2a_zoo]
 D2411467J Ver. 1.05.01 -> D2411467L Ver. 1.05.03

 M2a_PrinterSJob [M2a_PrinterSJob]
 D2411446P Ver. 1.73 -> D2411446R Ver. 1.75

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/09/21
----------------------------------------------------------------
[Program Name] Option IPDS
----------------------------------------------------------------
[Version] 8.704
----------------------------------------------------------------
[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.] M5135712
[File Information]
 File Name        M5135712.fwu
 File Type        Module for Service
 Size            8.96 MB ( 9390760 byte )
[File Information]
 File Name        M5135712.rfu
 File Type        Module for Remote Upgrade
 Size            8.96 MB ( 9396480 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 1st Mass Production
----------------------------------------------------------------


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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:]
1st mass production


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[Modification history]
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*** Basic Information ***

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[Create date] 2019/05/15

[Program Name] Web Support

[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.] M0AN5532G

[File Information]

File Name   M0AN5532G.fwu

File Type   Module for Service

Size   6.40 MB (6707412 byte)

[File Information]

File Name   M0AN5532G.rfu

File Type   Module for Remote Upgrade

Size   6.40 MB (6713600 byte)

[Availability of RFU] Yes

[Production reflection] 2019/05

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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 1.06

Rank C

Other changes:

- The following values can be set with solution software that uses SOAP I/F.

- "SNMPv3 Setting"

  - SNMPv3 Trap Communication

  - Encryption Algorithm

  - Permit SNMPv3 Communication

- "Program/Change Administrator"

  - Encryption Password

Version 1.05

Rank C

Symptom corrected:

- Fixed the wording of "Remote Panel Operation" in the menu of the

  Web Image Monitor.

Other changes:

- Added the function to set user usage restrictions for each

  application.

Version 1.04

The version was upgraded for firmware management purpose on the server.

Version 1.03

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/06
----------------------------------------------------------------
[Program Name] NetworkDocBox
----------------------------------------------------------------
[Version] 1.03
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
```

[Firmware No.] M0AN5533F
[File Information]
 File Name   M0AN5533F.fwu
 File Type   Module for Service
 Size   1.04 MB (1087576 byte)
[File Information]
 File Name   M0AN5533F.rfu
 File Type   Module for Remote Upgrade
 Size   1.04 MB (1093888 byte)
[Availability of RFU] Yes

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


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*** Note ***
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[Note]

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

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*** Modification History ***
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==============================================================================
```
[Modifications made:]
Rank C

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

[Modification history]

Version 1.02
Rank C

Symptom corrected:
- When using the application for the Japanese market, the Job Log transfer
  settings might not be set correctly when importing the preference information
  from another device.

Version 1.01
Rank C

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

Version 1.00
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/07
----------------------------------------------------------------
[Program Name] Printer
----------------------------------------------------------------
[Version] 1.11
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5537K
[File Information]
 File Name        M0AN5537K.fwu
 File Type        Module for Service
 Size            4.67 MB ( 4897344 byte )
[File Information]
 File Name        M0AN5537K.rfu
 File Type        Module for Remote Upgrade
 Size            4.68 MB ( 4903168 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/11
----------------------------------------------------------------


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*** Note ***
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[Note]

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

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*** Modification History ***
```

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[Modifications made:]
Rank C

Symptom corrected:
- SC899 might occur when printing a Hold Print file scheduled for a certain time.

[Modification history]

Version 1.10
Rank C

Symptom corrected:
- An SC899 error might occur if displaying the print job history
  on the Web Image Monitor after printing a file with a long name.
- If the machine reboots due to a forced shut-down, a power outage,
  unplugging a power cable, or an SC819 error, jobs using certain applications
  might not print.
- The Replacement Alert settings on the Printer Features configuration page
  don't match the actual settings.

Other changes:
- SP5-490-001 (MF Key Card: Job Permit Setting) is now available.

Version 1.06
 Symptom corrected:
- It might take time to resume a job if it is suspended while the
  device is in Energy Saver mode.

Version 1.05
Fixed:
- An IPDS Form might not be created when equipping an Internal Multi-fold Unit FD3000.
- IPDS printing might fail when equipping an Internal Multi-fold Unit FD3000.
- The "7 1/4 x 10 1/2" paper size can be set as SEF while creating an IPDS Form.
- An IPDS Form with the paper size of "7 1/4 x 10 1/2" can be set to the bypass tray.

Version 1.04
Fixed:
- IPDS form creation might fail when specifying a custom paper size.
- Some characters in the IPDS form name might be distorted when
  specifying a tray form.

Version 1.03
Symptom corrected:
- When printing a specific job consecutively, it might print upside down.

Version 1.02

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/05/15
----------------------------------------------------------------
[Program Name] PCL
----------------------------------------------------------------
[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.] M0AN5542E
[File Information]
 File Name        M0AN5542E.fwu
 File Type        Module for Service
 Size             1.37 MB ( 1438208 byte )
[File Information]
 File Name        M0AN5542E.rfu
 File Type        Module for Remote Upgrade
 Size             1.38 MB ( 1446144 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2019/05
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*** Note ***
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[Note]

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

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

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

[Modification history]

Version 1.01
Rank C

Symptom corrected:
- The overlay image might not be correctly printed with PCL.

Version 1.00
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/07
----------------------------------------------------------------
[Program Name] System
----------------------------------------------------------------
[Version] 1.11
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M0AN5550N
[File Information]
 File Name        M0AN5550N.fwu
 File Type        Module for Service
 Size            22.63 MB ( 23727268 byte )
[File Information]
 File Name        M0AN5550N.rfu
 File Type        Module for Remote Upgrade
 Size            22.63 MB ( 23732480 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/11
----------------------------------------------------------------


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*** Note ***
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[Note]

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

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*** Modification History ***
```

==
[Modifications made:]
Rank C

Symptom corrected:
- Copy application and FAX application mihgt not start when pressing
  these application icons.
- Login might fail and the application icon might not be displayed.

[Modification history]

Version 1.10
Rank C

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

Other changes:
- SP5-490-001 (MF Key Card: Job Permit Setting) is now available.

Version 1.09
Rank C

Symptom corrected:
- When the SMC List is saved to the SD card as a CSV file,
  SP7507 (Latest Jam History) is not correctly recorded.

Version 1.08
Rank D

Other changes:
- Minor change for domestic market.

Version 1.07
Rank C

Symptom corrected:
- A bug of SmartSDK API was fixed.
- If some characters are included in a user name, login
  authentication is not correctly done.
- If log tracing on Web Image Monitor is cancelled just after using
  the function, the machine enters into off-line mode.
- User usage restrictions do not come into effect if authentication
  is enabled in Quick Card Authentication.

Other changes:

- Added the function to set user usage restrictions for each
  application.
- Supported RICOH SmartSDK v2.40.

Version 1.06
Rank C

Specification Change:
- The following SP settings will be included in SMC Print:
  - SP2-990-101(LL)
  - SP2-990-102(ML)
  - SP2-990-103(HH)

Version 1.04
Rank C

Specification Change:
 - Message description when fusing unit achieve the yield is changed.

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

Version 1.03
Symptom corrected:
- SC998 may occur when powering on if an ESA application is set as a
  priority function.
- An invalid value is returned when obtaining the counter MIB,
  ricohEngCounterValue, during device shutdown.

Specification Change:
- Added the specification of panel coordinate inspection for the
  Smart Operation Panel.

Version 1.02
1st Mass production