```
=================================================================
===
```

*** Basic Information ***

```
=================================================================
===
```

[Create date] 2018/11/02

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

[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.] D7015733D

[File Information]

 File Name   D7015733D.fwu

 File Type   Module for Service

 Size   4.06 MB (4256060 byte)

[File Information]

 File Name   D7015733D.rfu

 File Type   Module for Remote Upgrade

 Size   4.07 MB (4264192 byte)

[Availability of RFU] Yes

[Production reflection] 2018/10

==

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*** Note ***

==

===

[Note]

==

===

*** Important Notes ***

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===

[Important Notes]

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===

*** Modification History ***

===

===

[Modifications made:]

Rank C

Symptom corrected:

- PDF file may not be printed via direct print if the PDF file contains True Type fonts.

- Printing might be slow when a spreadsheet containing many cells with patterns

  that are different from the default pattern in the following setting is printed

  from Microsoft Excel 2013:

- Select "Format Cell", select the "Fill" tab, and change the "Pattern Style" setting

- Images might be missing when printing from the PS3 driver.

[Modification history]

Version 1.02

Symptom corrected：

1. When printing PDF data that includes a barcode via PDF Direct Print, the

   barcode lines might be printed thicker than the actual size. (GFPR#RC14090006)

2. PDF Direct jobs containing a mask that was created using tiling, will be reset.

3. A limitcheck error occurs if an image is too small to draw.

Version 1.01

Symptom corrected:

Printing certain web pages from Safari or PDF created by iOS/Mac OS

using AirPrint could cause the system to stall.

Version 1.00

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/08/28
----------------------------------------------------------------
[Program Name] browser
----------------------------------------------------------------
[Version] 1.03.0
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(ja,en,gb,f,e,d,i,nl,s,n,dk,sf,p,pl,h,cz,ru,sc,tc,br,tr,ca)
[Firmware No.] D7015754D
[File Information]
 File Name         D7015754D.fwu
 File Type         Module for Service
 Size           11.70 MB ( 12267232 byte )
[File Information]
 File Name         D7015754D.rfu
 File Type         Module for Remote Upgrade
 Size           11.70 MB ( 12271872 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2017/08
----------------------------------------------------------------


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

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


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

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

===
*** Modification History ***
===
[Modifications made:]
Other Changes:
- Support for TLS 1.0, TLS 1.1, and TLS 1.2.

[Modification history]

Version 1.02.0
Symptom corrected:
- Keyboard response is slow when using the Web Scanner application.
- SC899 may occur when performing Java Script functions.

Version 1.01.0
Symptom corrected:
1. When connecting via HTTPS to the Ricoh Integrated Cloud Environment by using the browser
   on the operation panel, some of the icons might not be displayed.
   Ricoh Integrated Cloud Environment is a local RAC solution.
2. After trying to view a webpage that is not supported by the browser on the operation panel,
   it might take approximately one minute before other, supported webpages can be viewed.
3. SC899 may occur while loading a webpage.
4. Layout of buttons may be broken.
5. Some of the characters may be garbled.
6. JavaScript may not work correctly on a webpage.

Version 1.00.0
1st Mass production

```
===================================================================
*** Basic Information ***
===================================================================
[Create date] 2017/09/04
-------------------------------------------------------------------
[Program Name] OpePanel
-------------------------------------------------------------------
[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) USA_ASI_KOR(ja,en,f,e,d,i,nl,s,n,dk,sf,p,pl,h,cz,ru,sc,tc,kr,br,tr,gr)
[Firmware No.] D1580057E
[File Information]
 File Name        D1580057E.fwu
 File Type        Module for Service
 Size            46.83 MB ( 49104048 byte )
[File Information]
 File Name        D1580057E.rfu
 File Type        Module for Remote Upgrade
 Size            46.84 MB ( 49111296 byte )
[Availability of RFU] Yes
-------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------


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

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


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

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

```
================================================================
*** 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 v1.15 (D1585551S)
Network Support v12.47 (D1585563K)
Web Support v1.07 (D1585559H)
Scanner v01.05 (D1585558D)
OpePanel
- Europe, China, and Taiwan model: v1.08 (D1581491G)
- North America, Asia and Koria model:  v1.06 (D1580057E)

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



------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.05
Other Changes:
- Added support for adhering to the Lot 6 regulation of the EU in
  European devices.



-----------------------------------------
Version 1.04
Specification Change:
- Support for the Portuguese orthography.



-----------------------------------------
Version 1.03
Symptom corrected
Slow response of the operation panel.


-----------------------------------------
Version 1.02
-----------------------------------------
Version 1.02
Other changes:
A login screen is displayed at power ON, which requires the
Administrator or Supervisor to set a password in cases where this
password has not been set yet.

Note: This firmware does not support the Catalan display language.
```

Version 1.01
Other changes:
Supports the Korean languages.

Important: MUST update this OpePanel_KOR with Web Support (V1.04 or later) and
System/Copy (1.05 or later) As a Set.

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/09/04
----------------------------------------------------------------
[Program Name] OpePanel
----------------------------------------------------------------
[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) JPN_EUR_CHN_TWN(ja,en,f,e,d,i,nl,s,n,dk,sf,p,pl,h,cz,ru,sc,tc,br,tr,ca,gr)
[Firmware No.] D1581491G
[File Information]
 File Name        D1581491G.fwu
 File Type        Module for Service
 Size          46.75 MB ( 49021264 byte )
[File Information]
 File Name        D1581491G.rfu
 File Type        Module for Remote Upgrade
 Size          46.76 MB ( 49029376 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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


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

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

==
*** 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 v1.15 (D1585551S)
Network Support v12.47 (D1585563K)
Web Support v1.07 (D1585559H)
Scanner v01.05 (D1585558D)
OpePanel
- Europe, China, and Taiwan model: v1.08 (D1581491G)
- North America, Asia and Koria model: v1.06 (D1580057E)

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

[Modification history]

Version 1.07
Other Changes:
- Added support for adhering to the Lot 6 regulation of the EU in
  European devices.

Version 1.06
Specification Change:
- Support for the Portuguese orthography.

Version 1.05
Symptom corrected
Slow response of the operation panel.

Version 1.04
Other changes:
1. A login screen is displayed at power ON, which requires the
   Administrator or Supervisor to set a password in cases where this
   password has not been set yet.
2. Supports the Korean display language.
   Note: This firmware does not support the Catalan display language.

Version 1.03
Symptom corrected:

Minor bug correction

Version 1.02
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/09/04
----------------------------------------------------------------
[Program Name] System/Copy
----------------------------------------------------------------
[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.] D1585551S
[File Information]
 File Name        D1585551S.fwu
 File Type        Module for Service
 Size           18.63 MB ( 19540096 byte )
[File Information]
 File Name        D1585551S.rfu
 File Type        Module for Remote Upgrade
 Size           18.64 MB ( 19546368 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2017/09
----------------------------------------------------------------


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

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


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

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

```
================================================================
*** 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 v1.15 (D1585551S)
Network Support v12.47 (D1585563K)
Web Support v1.07 (D1585559H)
Scanner v01.05 (D1585558D)
OpePanel
- Europe, China, and Taiwan model: v1.08 (D1581491G)
- North America, Asia and Koria model:  v1.06 (D1580057E)


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




-------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.14
Other Changes:
- Added support for adhering to the Lot 6 regulation of the EU in
  European devices.




-----------------------------------------
Version 1.13
Symptom corrected:
1. The Quick Scan app may freeze under the following conditions:
   - Scanning is set to display the Preview at the same time the data
     is being stored
   - The user displays the Preview after scanning is completed
2. When the display language of the operation panel is set a language
   other than Japanese, backslashes in an FTP folder path in the
   address book are displayed as Japanese yen symbols.
3. SC991-00 (Recoverable software operation error) may occur.
4. When scanning an original containing multiple pages with the
   Twain driver, error (code: 36856) occurs on the client PC and
   scan stops midway.
5. The data may be lacked while Base64 decode process.
6. 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.
7. Received FAX document is not transferred to the folder.


Other changes:
8. Support for the Portuguese orthography.
9. Supports IPv6 and DNS communication with @Remote.
```

Version 1.12
Specification changes:
Supports the Korea model. (addition of PnP for Korea)

Version 1.11
Symptom corrected:
1. 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.
2. A stored reception document is deleted if a paper loading error (incorrect
   loading or tray overload) occurs when the user tries to print it out.

Version 1.10
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. Machine cannot recover from Energy Saver mode.
3. SC672-11 (Controller start up error) occurs when the machine is prompted
   (e.g. by a print job or other operation) to recover from Energy Saver mode.
4. A transmission error occurs during W-NET FAX transmission.

Other changes:
1. This firmware was modified to support a new IC card reader/writer (PR-700),
   as production of the current type (PR-450) was discontinued.

Version 1.09
Symptom corrected:
1. SC899 occurs and the machine stalls.
2. The cause for an ADF jam as listed on the SMC sheet is different from the actual cause.

Version 1.08
Symptoms corrected:
1. 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.
2. "It is time to replace the controller board" is displayed when
   the machine is turned ON or recovers from Energy Saver mode.
3. The machine does not automatically reboot after the installation
   (overwriting) of an SDK app, even though the user has enabled
   this setting.
4. Emails of 44,300KB or less cannot be sent even though the size
   limit for emails sent was set to a value higher than this.

IMPORTANT: To apply the above changes, make sure to install the
following firmware as well:

- Scanner 01.04 (D1585558C)
    - WebUapl 1.02 (D1585560C)

5. The password configuration screen for Administrators closes
   before settings can be completed and SC816 or other operational
   error occurs if the operator taps the [OK] or [Cancel] buttons
   repeatedly to hide/close the software keyboard.
6. SC997 occurs when the main power switch is turned ON.

Version 1.07
Other changes:
A login screen is displayed at power ON that requires the
Administrator or Supervisor to set a password in cases where this
password has not been set yet.

Symptom corrected:
1. "A5SEF"cannot be set as the default for the optional paper bank.
2. SC878 occurs when the machine boots up if a package firmware
   update is performed.
3. USB storage device is not recognized when inserted into the USB
   slot on the operation panel after power ON. (This cannot be
   cleared unless the main power is turned OFF/ON again).
4. The optional secure USB storage device (encrypted) is not
   recognized when inserted into the USB slot on the operation
   panel, after an optional USB storage that does not support
   encrypion is inserted. (This cannot be cleared unless the main
   power is turned OFF/ON again).
5. A blank sheet is printed out when copies are initiated for a job
   using mixed originals and enlargement/reduction. All copies made
   after this are blank until the main power is turned OFF/ON.
6. SC819/SC687 may occur when using the Compuldsory Security Stamp.

Version 1.06
Other changes:
Supports the Korean languages.

Version 1.05
Symptom corrected:
1. The value of the first item in the Preferences file is not
   applied after the file is imported.
2. The toner empty icon on the banner does not clear when the toner
   bottle is replaced following the Toner End alert.
3. SC899 occurs when the machine enters or recovers from Energy
   Saver mode.

Other changes:
Supports the Korean display language.

Version 1.04
Symptoms corrected:
1. Incorrect settings for the tray paper size and the Sleep Mode
   timer are printed on the UP mode data sheets of the SMC report,
   and some default settings are not printed.
2. A memory leak occurs when an upload or download is performed in
   either UP mode or SP mode.
3. If printing a large number of pages job (about 200 pages) with a
   device that does not have a hard disk installed, the device may
   stall and data-in LED may blink continuously.
4. FAX-installed machines: SC899 occurs when the FAX unit recovers
   from Energy Saver mode.

Version 1.03
Other changes:
1. Compliance with BAM regulations.
2. A new SP modes were added:
SP5-305-101 (Auto Off Set - Limit Set)
0: OFF
1: ON (Default)

Version 1.02
Symptom corrected:
1. @Remote communication may fail in some customer network
   environments.
   IMPORTANT: To apply the above changes, update to the following
   Network Support firmware as well:
   Network Support v12.39 (D1585563B) or later
2. The machine may freeze while the user settings are being exported.
3. The destination for Scan to Folder might not be displayed.

Other changes:
1. The layout of the AZERTY keyboard was changed.
2. A new SP mode was added:SP5-900-001 (ID Card Copy Mode)
   0: Original size depends on print paper size.
   1: Original size is fixed (main-scan: 55mm, sub-scan: 87 mm).

Version 1.01
Symptom Corrected:
SC874-10 occurs when performing "Erase All Memory" function in the
system setting - administrator tools.

Version 1.00.2
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/08
----------------------------------------------------------------
[Program Name] Scanner
----------------------------------------------------------------
[Version] 01.06
----------------------------------------------------------------
[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.] D1585558E
[File Information]
 File Name        D1585558E.fwu
 File Type        Module for Service
 Size          1.24 MB ( 1301224 byte )
[File Information]
 File Name        D1585558E.rfu
 File Type        Module for Remote Upgrade
 Size          1.25 MB ( 1306880 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/10
----------------------------------------------------------------


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

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


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

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


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

```
================================================================
```
[Modifications made:]
Rank C

Symptom corrected:
- Max. Email Size for scanner send settings cannot be configure via DMNX.
- If the ADF is not installed, scanning from the exposure glass via the TWAIN driver might fail
  when Auto Detect is selected as the Original Size.


```
--------------------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version 01.05
Other changes:
- Newly added SMBv2/v3 support.
This firmware is dependent on the following firmware modules.
Please be sure to update all of them:

System/Copy v1.15 (D1585551S)
Network Support v12.47 (D1585563K)
Web Support v1.07 (D1585559H)
Scanner v01.05 (D1585558D)
OpePanel
- Europe, China, and Taiwan model: v1.08 (D1581491G)
- North America, Asia and Koria model: v1.06 (D1580057E)

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


```
-----------------------------------------
```
Version 01.04
Symptom corrected:
Scan to E-mail might fail even if the email size is 44,300 KB or
less when the following conditions are met:
- The HDD is not installed.
- "Scanner Features" > "Send Settings" > "Max. E-mail Size" is set
  to "On", and the size is set to 44,301 KB or more.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System/Copy firmware v1.08(D1585551K) or later
- WebUapl firmware v1.02(D1585560C) or later


```
-----------------------------------------
```
Version 01.03
Symptom corrected:
The machine stalls if the user clicks Run Export in the Device
Setting Information: Export (Memory Storage Device) option of
Administrator Tools in System Settings in a language environment
that is not in English or Japanese.


```
-----------------------------------------
```
Version 01.02
1st Mass production

```
========================================================================
*** Basic Information ***
========================================================================
[Create date] 2017/09/04
------------------------------------------------------------------------
[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.] D1585559H
[File Information]
 File Name        D1585559H.fwu
 File Type        Module for Service
 Size             5.41 MB ( 5677604 byte )
[File Information]
 File Name        D1585559H.rfu
 File Type        Module for Remote Upgrade
 Size             5.42 MB ( 5685504 byte )
[Availability of RFU] Yes
------------------------------------------------------------------------
[Production reflection] 2017/09
------------------------------------------------------------------------


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

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


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

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

```
================================================================
*** 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 v1.15 (D1585551S)
Network Support v12.47 (D1585563K)
Web Support v1.07 (D1585559H)
Scanner v01.05 (D1585558D)
OpePanel
- Europe, China, and Taiwan model: v1.08 (D1581491G)
- North America, Asia and Koria model:  v1.06 (D1580057E)

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


-------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.06
Other changes:
- Added support for adhering to the Lot 6 regulation of the EU in
  European devices.


-----------------------------------------
Version 1.05
Other changes:
- Support for the Portuguese orthography.


-----------------------------------------
Version 1.04
Other changes:
Supports the Korean languages.


-----------------------------------------
Version 1.03
Symptom corrected:
When using the web development tools like Firebug in Web Image
Monitor,users who do not have the authority of editing might even be
able to edit the administrative privileges of each.


-----------------------------------------
Version 1.02
Other changes:
```

Compliance with BAM regulations.

Version 1.01
Symptom corrected:
The following problems occur in Web Image Monitor when using Windows
Internet Explorer 10:
- Cannot select, drag, delete, or move icons in Device Management >
  Device Home Management > Edit Icons.
- Cannot drag selected items or display or hide items in Device
  Management > Address Book > Maintenance > Items Displayed in
  Address List.
- When adding icons in Device Management > Device Home Management >
  Edit Icons, the column headings of the table are out of alignment.
- When adding a user in Device Management > Address Book > Address
  List (Display All Items), the column headings of the table are out
  of alignment.

Version 1.00.2
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/08
----------------------------------------------------------------
[Program Name] Network Support
----------------------------------------------------------------
[Version] 12.49
----------------------------------------------------------------
[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.] D1585563M
[File Information]
 File Name        D1585563M.fwu
 File Type        Module for Service
 Size            8.32 MB ( 8724492 byte )
[File Information]
 File Name        D1585563M.rfu
 File Type        Module for Remote Upgrade
 Size            8.33 MB ( 8732928 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/10
----------------------------------------------------------------


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

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


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

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


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

===
[Modifications made:]
Rank C

Symptom corrected:
- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active",
  authentication will fail.
- SMB client timeout configuration is not correctly applied in the device.
- SC899 occurs when conducting Scan to Folder, and the device might automatically restart.
- When conducting Scan to Folder, if a host name is resolved to multiple IP addresses by NBNS,
  the device tries to connect to only the first resolved IP address.
- When a HP device is working on the same subnet, Scan to Folder will fail.
- Network browsing sometimes fails when conducting Scan to Folder.
- The device might freeze during data transmission when conducting Scan to Folder with SMBv2/v3.
- When conducting Scan to Folder in a high-load network environment,
  the device's status gets stuck on sending and the scanner becomes unusable.
- When conducting Scan to Folder using SMBv2/v3, if the device receives UDP communication
  from the outside to the port used by SMBv2/v3, Scan to Folder might fail.
- SC819 might occur after updating firmware remotely.

[Modification history]

Version 12.48
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 12.47
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 v1.15 (D1585551S)
Network Support v12.47 (D1585563K)
Web Support v1.07 (D1585559H)
Scanner v01.05 (D1585558D)
OpePanel
- Europe, China, and Taiwan model: v1.08 (D1581491G)
- North America, Asia and Koria model: v1.06 (D1580057E)

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

Version 12.46
Other Changes:
- Added support for adhering to the Lot 6 regulation of the EU in
  European devices.

Version 12.45
Other changes:
1. Support of @Remote for IPv6.
2. 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 12.44
Symptom corrected:
- When the display language of the operation panel is set to Catalan,
  Scan to Folder fails.

Version 12.43
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.

Other changes:
- 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.

Version 12.42
Symptom corrected:
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.

Version 12.41
Symptom corrected:
1. When simultaneously printing from AppleTalk on a Mac and a
   protocol other than AppleTalk in Windows, an SC899 error might
   occur.
2. When PEAP or TTLS is used as the IEEE 802.1X authentication
   method and the server certification check is disabled, the IP
   address might not be obtained after the device is restarted.

Version 12.40
Symptom corrected:
1. Although the LLMNR of IPv4 and IPv6 are enabled in Web Image
   Monitor, it might not affect the printed result of the NIB
   Summary (SP5-990-007) and/or the Print List in Interface Settings
   of System Settings.
2. When DHCP v6 is enabled, turning the power off and then on might
   cause a memory leak.

Version 12.39
Symptom corrected:
@Remote communication may fail under some customer networks.

IMPORTANT: To apply the above changes, update to the following
System/Copy firmware as well:
System/Copy v1.02 (D1585551D) or later

Version 12.38
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/09/18
----------------------------------------------------------------
[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.] D1585564C
[File Information]
 File Name        D1585564C.fwu
 File Type        Module for Service
 Size            2.41 MB ( 2529968 byte )
[File Information]
 File Name        D1585564C.rfu
 File Type        Module for Remote Upgrade
 Size            2.42 MB ( 2535680 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/09
----------------------------------------------------------------


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

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


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

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


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

==
[Modifications made:]
Rank C

Symptom corrected:
- 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.
- 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.

[Modification history]

Version 1.01
Symptom corrected:
Received fax files are not monitored by Auto Document Link and/or
are not displayed using Desk Top Binder if both the Output Mode
Switch Timer setting is enabled and the Reception File
Processing "Store" setting is enabled.

Version 1.00
1st Mass production