```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/05/08
----------------------------------------------------------------
[Program Name] Engine
----------------------------------------------------------------
[Version] 1.29:06
----------------------------------------------------------------
[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.] D1945415E
[File Information]
 File Name       D1945415E.fwu
 File Type       Module for Service
 Size           15.75 MB ( 16515700 byte )
[File Information]
 File Name       D1945415E.rfu
 File Type       Module for Remote Upgrade
 Size           15.76 MB ( 16523520 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2019/04
----------------------------------------------------------------


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

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


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

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


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

Other changes:
- SC450-03 was added to notify anomalies of the PTR high voltage
  power supply PCB.

Note: This release takes effect with System/Copy firmware ver. 3.17 or later.
Make sure to update together as a set.

[Modification history]

Version 1.28:06
Rank C

Symptom corrected:
- The density may appear much lighter than expected when printed in
  1C using a specialty color toner.
- Toner supply may not start automatically after replacing the toner bottle.
- Home position detection error of the Drum drive motor or
  Development motor occurs while the system initializes the image
  registration adjustment before starting a job, and the job does not start.
- Jam 15 occurs, if the tray runs out of paper during a
  saddle-stitched booklet jobs.

Version 1.27:06
Rank C

Symptom corrected:
- JAM204 occurs, if jobs are run continuously after a saddle-stitch job.

Version 1.26:06
Rank C

Symptom corrected:
- If the tray becomes empty and switches to another tray, Process
  Control runs and causes the hue of the color to change.
- Color registration shift occurs when front/back magnification
  correction in main scan direction is set to 0.025%.

Other changes:
- For the support of the newly added specialty color Invisible Red,
  the following SP default values were changed.
  - SP3-201-214 (TnrDensity Upper TC: Special Color4) : "9" to "11"
  - SP3-332-214 (M/A Calculation Corrct Coef: Special Color4) : "1" to "1.06"
  - SP3-620-214 (ProCon Target M/A Plain: Maximum M/A: Special Color4) : "0.200" to "0.444"
  - SP3-630-214 (Dev gamma:Disp/Set Initial:Special Color4) : "1" to "1.2"

Version 1.25:06
Other changes:

The default values of the following SP were corrected in line with the addition of the new Neon Pink toner:
 - SP3-201-213 (TnrDensity Upper TC:Special Color3):
   9 -> 11
 - SP3-332-213 (M/A Calculation-Corrct Coef:Special Color3):
   1.00 -> 0.94
 - SP3-620-213 (ProCon Target M/A Plain:Maximum M/A:Special Color3):
   0.20 -> 0.39
 - SP3-630-213 (Dev gamma :Disp/Set Initial:Special Color3):
   1.00 -> 1.20

Version 1.24:06
Specification Change:
- Control of the toner inner bottle cap was modified to reduce the risk of
  breaking the shutter.

Symptom corrected:
- Misfeeds and double-feeds may occur when feeding thin media from Vacuum
  Feed LCIT RT5100.
- When the trimmings box full message of the Trimmer TR5040 appears,
  the message on the panel remains "Waiting" even after emptying the
  trimmings box and closing the front door.

Version 1.23:06
Specification Change:
Default value of the following SPs were changed for higher reliability against
the following problems:
- Color shift immediately after process control
- Density fluctuation after continuously running high image coverage jobs
     SP3-201-011   3   ->   2
     SP3-201-012   3   ->   1.5
     SP3-201-013   3   ->   1.5
     SP3-201-014   3   ->   1.5
     SP3-535-031   1000 ->   50000
     SP3-211-002   4.7   ->   4.9

Symptom corrected:
The following problems may occur, if multiple pages are printed using only
special color toner with [Image Create Mode FCS Mode Fixed] enabled:
- The first print is darker in density compared to the succeeding pages.
- Image registration of the first page is shifted 0.5~1.5mm.

Version 1.22:06
Symptom Corrected:
SC324 and/or In-track lines occurs due to toner coagulation in moderate
operational environment.

Version 1.21:06
Specification Change:
- When a problem is detected in the power pack, the system alerts SC450 and stops.

Symptoms corrected:
- The data-in LED remains flashing and printing does not resume, if process control
  runs during a job.

Version 1.20:06
Symptom corrected:
- Productivity reduces in perfect binding jobs.
- Error message does not appear when the drum cleaning unit is not set properly.

Version 1.19:06
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

- The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

Symptoms corrected:

- To prevent possible jams that occur with newly registered custom papers,
changes were made to the following SP:

Change of default
 SP1-916-002
 2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 1.18:06
Symptoms corrected:
The following problems may occur in the first job operation after
opening/closing the door to recover from a jam:
- In a print job immediately after recovering from a jam, a particular
  color is missing from the first copy.
- In a copy job immediately after recovering from a jam, the system
  stalls with the message "Please wait" displayed.

Version 1.17:06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A

- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

The following SPs were added in line with this modification:

 SP1-109-001~051, SP1-110-001~051, SP1-125-001~051,
 SP1-126-001~051, SP1-127-001~051, SP1-128-001~051,
 SP1-967-001~051, SP1-980-001~051, SP1-981-001~051,
 SP1-984-001~051, SP1-986-001~051, SP1-990-001~051,
 SP1-991-001~051, SP1-996-001~051

Version 1.16:06
Symptoms corrected:
For Black and Magenta, toner call is not triggered at the correct timing.

Version 1.15:06
Symptom corrected:
- If Manual Paper Setting is applied, non-feeds may occur with paper
  of 148mm in length (in paper feed direction) and Weight 3-7.
- The coverage counter is smaller than the actual number of coverages
  produced.
- If an original smaller than A4 is scanned in 600dpi and enlarged to A4,
  image on a different page appears.

Version 1.14:06
Symptoms corrected:
- After replacing the toner bottle or waste toner bottle, Process Control
  repeats and does not stop.

Version 1.13:06
Symptom corrected:
- JAM99 is alerted even when a double-feed had not occurred.
- "Manual Toner Refresh S" causes solid areas in white to gradually
  decrease in density.
- Shade of the color is inconsistent within a job.

Version 1.12:06
Symptom corrected:
- Double-feed occurs with Vacuum Feed LCIT RT5100.
- If the job contains a back cover fed from the Interposer Tray CI5030
  and a jam occurs with a paper fed from the mainframe tray bank,
  the machine stalls without displaying an error message.

- Print speed decreases, if repeatedly printing a duplex job that is
  FCS on the first side and FC on the second side.

Version 1.11:06
Error Correction:
- Drum scratches occur when filling developer in the PCDU of the 5th station.
* Temporary procedure to avoid drum scratches announced in RTB RD194033 will
  NOT be required from this version.
- SC39X occurs
* Temporary procedure to prevent SC39X announced in RTB RD194079 will NOT be
  required from this version.

Version 1.10:06
Specification Change:
- Paper purge specs were improved to prevent paper from remaining in the
  paper exit unit when jams occur.

Error Correction:
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
- Paper wraps around the transfer timing roller when purging paper.

Version 1.09:06
Specification Change:
- Fan control was modified to prevent banding in 189mm pitch caused by ozone.

Note:
Applying this firmware to machines not installed with the modified fans will
cause SC584-00.
To resolve this SC, upgrade the System/Copy firmware to version 3.02, apply
the following SP values, and then turn OFF/ON the machine.

SP1-945-009 set to 100
SP1-945-011 set to 100
SP1-945-017 set to 100
SP1-945-019 set to 100
SP1-945-021 set to 100
SP1-945-052 set to 0

See the toner shield glass cover plate to identify if the machine is modified
one or not. The modified ones have the duct shown below.

Error Correction:
- Breakage of the pressure roller
- SC545/565
- Counter does not count up correctly when switching to a new special color
  toner, causing toner near-end alert earlier than expected.
- Jam in the paper purge process
- Distance based counters of the YMC PCDU, Charge roller unit, and Drum
  cleaning unit are falsely counted up even after the print mode has switched
  from FC to B/W.

- SC670 when recovering from energy saving mode

Version 1.08:06
Specification Change:
SP3025-001 (Dev Fill OK?) will always show "1" after filling up the developer
regardless of the results, to enable initialization automatically at all times.
The purpose is to prevent unwanted symptoms caused when the machine mistakenly
recognizes the developer filling as failure ("3") even when successfully executed.

Error Correction:
- Printer does not reach ready status after manually refreshing
  special color toner.
- Cannot adjust front/back sides with NICE correctly.
- CIS data is not saved when feeding paper from Vacuum Feed LCIT
  RT5100.
- Process control does not complete after a print job.
- SC670, if finishing options are connected and a jam occurs in the
  mainframe exit unit.
- Skew occurs with banner printing on custom paper.

Version 1.07:06
Error Correction:
- Machine stalls in "Printing..." after recovering from a cover open
  status of finishing peripherals.
- SC670 might occur, if paper fed from tray 3 of LCIT RT5100 results
  in a jam.
- Machine stalls, if a paper mis-feed jams occurs in a folding job.
- Machine stalls, if a paper jam occurs in a duplex job applied with
  finishing options.

Version 1.06:06
Symptoms Corrected:
- When changed to another special color the counter does not switch
  and the new toner quickly reaches near end.
- Remaining toner amount displayed is incorrect on brand new machines.
- System notifies clear toner end even if the clear toner bottle is
  not empty.
- The fuser cleaning web counter does not count up.
- If the front door is opened exactly while the system is
  communicating with the ID chip on the fuser unit, the system will
  not restart even if the door is closed.
- Print speed of the printer model is slower than the copier model
  when creating booklets.
- SC900 might occur in banner printing jobs.
- Machine might stall while upgrading firmware.

Version 1.05.1:06
Symptoms Corrected:
- Sympathetic resonance of the mainframe causes "banding".

- Running jobs in FCS/S color mode after replacing the special color
  toner causes to increase the fusing belt smoothing roller operation,
  shortening the smoothing roller life.
- Running jobs in FCS/S color mode after replacing the special color
  toner causes wrap around jams, if the trailing edge of a page
  contains solid images.
- Jam 510 occurs when running stapling jobs.
- Jam 510 occurs when the rings are set incorrectly on the ring binder.
- Jam location Z4 is not displayed on the operation panel, if jams
  occur in duplex jobs.
- If jam occurs on a system consisted of the Plockmatic and RPIP
  Interface Box TypeS3, paper in the path are not purged.
- Engine continues to run idle after recovering from a jam on the
  Plockmatic.
- Engine does not reach ready status, if the tray is set incorrectly
  or damaged.
- DEMS does not function properly.
- Forcibly terminating DEMS operation causes SC670.
- The system acknowledges a wrong special color because the special
  color ID written on the PCDU ID chip is incorrect.

Version 1.04.1:06
Symptoms Corrected:
The density of White gradually lightens or darkens during a job.

Version 1.04:06
Specification Changes:
- PM counters of CMY paper transfer rollers count up even when
  printing in b/w.
- PM counters of PM parts in the Black station count up even when
  printing using only the special toner.

Symptoms Corrected:
- Turning on the machine power in a room temperature below 0 degrees
  Celsius causes SC551.
- Dirty background occurs randomly in Cyan.

Version 1.02:06
1st Mass production

```
=======================================================================
*** Basic Information ***
=======================================================================
[Create date] 2018/07/05
-----------------------------------------------------------------------
[Program Name] Engine
-----------------------------------------------------------------------
[Version] 1.27:06
-----------------------------------------------------------------------
[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.] D1945415C
[File Information]
 File Name        D1945415C.fwu
 File Type        Module for Service
 Size             15.75 MB ( 16515700 byte )
[File Information]
 File Name        D1945415C.rfu
 File Type        Module for Remote Upgrade
 Size             15.76 MB ( 16523520 byte )
[Availability of RFU] No
-----------------------------------------------------------------------
[Production reflection] 2018/07
-----------------------------------------------------------------------


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

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


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

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

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

Symptom corrected:
- JAM204 occurs, if jobs are run continuously after a saddle-stitch job.

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-----------------------------------------------------------------------------
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[Modification history]
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-------------------------------------------
```
Version 1.26:06
Rank C

Symptom corrected:
- If the tray becomes empty and switches to another tray, Process
  Control runs and causes the hue of the color to change.
- Color registration shift occurs when front/back magnification
  correction in main scan direction is set to 0.025%.

Other changes:
- For the support of the newly added specialty color Invisible Red,
  the following SP default values were changed.
  - SP3-201-214 (TnrDensity Upper TC: Special Color4) : "9" to "11"
  - SP3-332-214 (M/A Calculation Corrct Coef: Special Color4) : "1" to "1.06"
  - SP3-620-214 (ProCon Target M/A Plain: Maximum M/A: Special Color4) : "0.200" to "0.444"
  - SP3-630-214 (Dev gamma:Disp/Set Initial:Special Color4) : "1" to "1.2"

```
-------------------------------------------
```
Version 1.25:06
Other changes:
The default values of the following SP were corrected in line with the addition
of the new Neon Pink toner:
 - SP3-201-213 (TnrDensity Upper TC:Special Color3):
   9 -> 11
 - SP3-332-213 (M/A Calculation-Corrct Coef:Special Color3):
   1.00 -> 0.94
 - SP3-620-213 (ProCon Target M/A Plain:Maximum M/A:Special Color3):
   0.20 -> 0.39
 - SP3-630-213 (Dev gamma :Disp/Set Initial:Special Color3):
   1.00 -> 1.20

```
-------------------------------------------
```
Version 1.24:06
Specification Change:
- Control of the toner inner bottle cap was modified to reduce the risk of
  breaking the shutter.

Symptom corrected:
- Misfeeds and double-feeds may occur when feeding thin media from Vacuum
  Feed LCIT RT5100.
- When the trimmings box full message of the Trimmer TR5040 appears,
  the message on the panel remains "Waiting" even after emptying the
  trimmings box and closing the front door.

Version 1.23:06
Specification Change:
Default value of the following SPs were changed for higher reliability against
the following problems:
- Color shift immediately after process control
- Density fluctuation after continuously running high image coverage jobs
      SP3-201-011   3   ->   2
      SP3-201-012   3   ->   1.5
      SP3-201-013   3   ->   1.5
      SP3-201-014   3   ->   1.5
      SP3-535-031   1000 ->   50000
      SP3-211-002   4.7   ->   4.9

Symptom corrected:
The following problems may occur, if multiple pages are printed using only
special color toner with [Image Create Mode FCS Mode Fixed] enabled:
- The first print is darker in density compared to the succeeding pages.
- Image registration of the first page is shifted 0.5~1.5mm.

Version 1.22:06
Symptom Corrected:
SC324 and/or In-track lines occurs due to toner coagulation in moderate
operational environment.

Version 1.21:06
Specification Change:
- When a problem is detected in the power pack, the system alerts SC450 and stops.

Symptoms corrected:
- The data-in LED remains flashing and printing does not resume, if process control
  runs during a job.

Version 1.20:06
Symptom corrected:

- Productivity reduces in perfect binding jobs.
- Error message does not appear when the drum cleaning unit is not set properly.

Version 1.19:06
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

- The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

Symptoms corrected:

- To prevent possible jams that occur with newly registered custom papers,
changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 1.18:06

Symptoms corrected:
The following problems may occur in the first job operation after
opening/closing the door to recover from a jam:
- In a print job immediately after recovering from a jam, a particular
  color is missing from the first copy.
- In a copy job immediately after recovering from a jam, the system
  stalls with the message "Please wait" displayed.

Version 1.17:06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

The following SPs were added in line with this modification:

 SP1-109-001~051, SP1-110-001~051, SP1-125-001~051,
 SP1-126-001~051, SP1-127-001~051, SP1-128-001~051,
 SP1-967-001~051, SP1-980-001~051, SP1-981-001~051,
 SP1-984-001~051, SP1-986-001~051, SP1-990-001~051,
 SP1-991-001~051, SP1-996-001~051

Version 1.16:06
Symptoms corrected:
For Black and Magenta, toner call is not triggered at the correct timing.

Version 1.15:06
Symptom corrected:
- If Manual Paper Setting is applied, non-feeds may occur with paper
  of 148mm in length (in paper feed direction) and Weight 3-7.
- The coverage counter is smaller than the actual number of coverages
  produced.
- If an original smaller than A4 is scanned in 600dpi and enlarged to A4,
  image on a different page appears.

Version 1.14:06
Symptoms corrected:
- After replacing the toner bottle or waste toner bottle, Process Control
  repeats and does not stop.

Version 1.13:06
Symptom corrected:
- JAM99 is alerted even when a double-feed had not occurred.
- "Manual Toner Refresh S" causes solid areas in white to gradually
  decrease in density.
- Shade of the color is inconsistent within a job.

Version 1.12:06
Symptom corrected:
- Double-feed occurs with Vacuum Feed LCIT RT5100.
- If the job contains a back cover fed from the Interposer Tray CI5030
  and a jam occurs with a paper fed from the mainframe tray bank,
  the machine stalls without displaying an error message.
- Print speed decreases, if repeatedly printing a duplex job that is
  FCS on the first side and FC on the second side.

Version 1.11:06

Error Correction:
- Drum scratches occur when filling developer in the PCDU of the 5th station.
* Temporary procedure to avoid drum scratches announced in RTB RD194033 will
  NOT be required from this version.
- SC39X occurs
* Temporary procedure to prevent SC39X announced in RTB RD194079 will NOT be
  required from this version.

Version 1.10:06
Specification Change:
- Paper purge specs were improved to prevent paper from remaining in the
  paper exit unit when jams occur.

Error Correction:
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
- Paper wraps around the transfer timing roller when purging paper.

Version 1.09:06
Specification Change:
- Fan control was modified to prevent banding in 189mm pitch caused by ozone.

Note:
Applying this firmware to machines not installed with the modified fans will
cause SC584-00.
To resolve this SC, upgrade the System/Copy firmware to version 3.02, apply
the following SP values, and then turn OFF/ON the machine.

SP1-945-009 set to 100
SP1-945-011 set to 100
SP1-945-017 set to 100
SP1-945-019 set to 100
SP1-945-021 set to 100
SP1-945-052 set to 0

See the toner shield glass cover plate to identify if the machine is modified
one or not. The modified ones have the duct shown below.

Error Correction:
- Breakage of the pressure roller
- SC545/565
- Counter does not count up correctly when switching to a new special color
  toner, causing toner near-end alert earlier than expected.
- Jam in the paper purge process
- Distance based counters of the YMC PCDU, Charge roller unit, and Drum
  cleaning unit are falsely counted up even after the print mode has switched
  from FC to B/W.
- SC670 when recovering from energy saving mode

Version 1.08:06
Specification Change:
SP3025-001 (Dev Fill OK?) will always show "1" after filling up the developer
regardless of the results, to enable initialization automatically at all times.
The purpose is to prevent unwanted symptoms caused when the machine mistakenly
recognizes the developer filling as failure ("3") even when successfully executed.

Error Correction:
- Printer does not reach ready status after manually refreshing
  special color toner.
- Cannot adjust front/back sides with NICE correctly.
- CIS data is not saved when feeding paper from Vacuum Feed LCIT
  RT5100.
- Process control does not complete after a print job.
- SC670, if finishing options are connected and a jam occurs in the
  mainframe exit unit.
- Skew occurs with banner printing on custom paper.

Version 1.07:06
Error Correction:
- Machine stalls in "Printing..." after recovering from a cover open
  status of finishing peripherals.
- SC670 might occur, if paper fed from tray 3 of LCIT RT5100 results
  in a jam.
- Machine stalls, if a paper mis-feed jams occurs in a folding job.
- Machine stalls, if a paper jam occurs in a duplex job applied with
  finishing options.

Version 1.06:06
Symptoms Corrected:
- When changed to another special color the counter does not switch
  and the new toner quickly reaches near end.
- Remaining toner amount displayed is incorrect on brand new machines.
- System notifies clear toner end even if the clear toner bottle is
  not empty.
- The fuser cleaning web counter does not count up.
- If the front door is opened exactly while the system is
  communicating with the ID chip on the fuser unit, the system will
  not restart even if the door is closed.
- Print speed of the printer model is slower than the copier model
  when creating booklets.
- SC900 might occur in banner printing jobs.
- Machine might stall while upgrading firmware.

Version 1.05.1:06
Symptoms Corrected:
- Sympathetic resonance of the mainframe causes "banding".

- Running jobs in FCS/S color mode after replacing the special color
  toner causes to increase the fusing belt smoothing roller operation,
  shortening the smoothing roller life.
- Running jobs in FCS/S color mode after replacing the special color
  toner causes wrap around jams, if the trailing edge of a page
  contains solid images.
- Jam 510 occurs when running stapling jobs.
- Jam 510 occurs when the rings are set incorrectly on the ring binder.
- Jam location Z4 is not displayed on the operation panel, if jams
  occur in duplex jobs.
- If jam occurs on a system consisted of the Plockmatic and RPIP
  Interface Box TypeS3, paper in the path are not purged.
- Engine continues to run idle after recovering from a jam on the
  Plockmatic.
- Engine does not reach ready status, if the tray is set incorrectly
  or damaged.
- DEMS does not function properly.
- Forcibly terminating DEMS operation causes SC670.
- The system acknowledges a wrong special color because the special
  color ID written on the PCDU ID chip is incorrect.

Version 1.04.1:06
Symptoms Corrected:
The density of White gradually lightens or darkens during a job.

Version 1.04:06
Specification Changes:
- PM counters of CMY paper transfer rollers count up even when
  printing in b/w.
- PM counters of PM parts in the Black station count up even when
  printing using only the special toner.

Symptoms Corrected:
- Turning on the machine power in a room temperature below 0 degrees
  Celsius causes SC551.
- Dirty background occurs randomly in Cyan.

Version 1.02:06
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/13
----------------------------------------------------------------
[Program Name] PCL
----------------------------------------------------------------
[Version] 1.09
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1915796J
[File Information]
 File Name        D1915796J.fwu
 File Type        Module for Service
 Size             1.22 MB ( 1282456 byte )
[File Information]
 File Name        D1915796J.rfu
 File Type        Module for Remote Upgrade
 Size             1.23 MB ( 1290496 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/12
----------------------------------------------------------------


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

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


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

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


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

==
[Modifications made:]
Rank C

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

[Modification history]

Version 1.08
Rank C

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

Version 1.07
Symptom corrected
- The printing results of the second and subsequent pages might not
  be as expected while PCL5 host printing.
- When printing the contents of an A3 size document on A4 size paper
  via Direct printing, the text might be distorted.
- Image backgrounds might be filled unexpectedly.
- A pattern put on top of an image or graphic might be blacked out.
- When printing a PCL job which contains images via host printing,
  an SC899 error might occur.
- The device might stall when printing a heavy-duty job.

Version 1.06
Symptom corrected:
1. An error might occur while printing a job when "Unauthorized Copy
   Prevention" is enabled and asterisks are included with characters
   in the "Enter User Text".
2. An SC899 error occurs when using the PCL6 driver to print a PDF
   from the Reader application in Windows 8.1. (GFPR#RA15050002)
3. When characters that contain the incorrect TrueType font data are
   printed, not only are incorrect characters missing but also are
   correct characters that follow incorrect characters. (GFPR#RE16030046)
4. The image quality output from PCL5 data might be poor if the
   image was created by using certain applications, such as RICOH
   ProcessDirector. (GFPR#RE15030034)
5. When printing a PCL5 job, black text might be drawn by using
   process black and result in a blurred or thicker-than-expected
   output. (GFPR#RA16010003)

Version 1.05
Symptom corrected:
1. Some lines and/or borders might be missing from PCL jobs. (GFPR#RC16040013)
2. An SC899 error might occur when printing a PCL job which contains reduce

or enlarge image. (GFPR#RE16020028)
3. A blank page or missing image is printed out if the PCL data
   created by certain applications (such as Microsoft Excel 2010)
   contains a significant amount of graphics and/or transparent objects.

Version 1.04
Symptom corrected:
1. When printing a RPCS vector job that contains an image with transparent
   parts that the driver generates, the transparent parts are printed
   in black.(GFPRRE14040024)
2. When "Unauthorized Copy Prevention Printing: Printer" is enabled,
   an error might occur, causing the job to be cancelled.(GFPR#RA14120002)

Version 1.03
Symptom corrected:
1. If an image size is big and has been enlarged by using the
   "Reduce/Enlarge" option in the PCL6 driver, unexpected white
   lines might appear in the printout.
2. Using a bitmap font might result in jobs being cancelled.
   (GFPR#RE13100030)
3. If a raster image is specified in the PCL6 driver to be reduced,
   be enlarged, or undergo N-up printing, unexpected white lines
   might appear in the printout. (GFPR#RA14080005, GFPR#RA14110005)

Version 1.02
 Symptom corrected:
1. The even page of the duplex job cannot be previewed from the SDK
   application.
2. When the print settings are changed for a stored document that
   includes a banner page, the changed settings are not applied when
   the document is printed.
3. If the glyph data of TrueType fonts includes hinting information
   that is on the edge of the frame, an SC899 error might occur.
   (GFPR#RC14030010)

Version 1.01
1st Mass production

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

Symptom corrected:
- On the "Custom Paper" registration screen on the Web Image Monitor,
  the "Fusing Temp" range is incorrect.



------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.11
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 v3.13 (D1955720R)
Network Support v14.68.1 (D1955730G)
Web Support v1.11 (D1955726L)
Scanner v02.04 (D1955725G)
OpePanel v2.07 (D1955729J)

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



-----------------------------------------
Version 1.10
Symptom corrected:
Fixed mistakes in the names of setting items in "Registration Adjustment: Across Feed".



-----------------------------------------
Version 1.09
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
```

- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

Symptoms corrected:
To prevent possible jams that occur with newly registered custom papers,
changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

- When user code authentication is enabled, if a user logs in to Web Image Monitor
  after logging in on the operation panel, the login screen for user code
  authentication will be displayed again on the operation panel.

Version 1.08
Symptom Corrected
Some descriptions of advanced settings for custom paper are incorrect in German.

Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.

Changed the names of the items in the "Adjustment Settings for
Operators" and "Adjustment Settings for Skilled Operators" menus.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System/Copy firmware ver.3.08 or later
- Printer firmware ver.3.03 or later (if external controller is not used)
- OpePanel firmware ver.2.05 or later
- WebUapl firmware ver.1.03 or later

Version 1.06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

<strong><font color="#cf142b">For the above change to take effect, the following firmware, controller patches,

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/05/08
----------------------------------------------------------------
[Program Name] Engine
----------------------------------------------------------------
[Version] 1.29:06
----------------------------------------------------------------
[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.] M1955415E
[File Information]
 File Name        M1955415E.fwu
 File Type        Module for Service
 Size            15.75 MB ( 16515700 byte )
[File Information]
 File Name        M1955415E.rfu
 File Type        Module for Remote Upgrade
 Size            15.76 MB ( 16523520 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2019/04
----------------------------------------------------------------


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

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


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

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


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

==

[Modifications made:]
Rank C

Other changes:
- SC450-03 was added to notify anomalies of the PTR high voltage
  power supply PCB.

Note: This release takes effect with System firmware ver. 3.15 or later.
Make sure to update together as a set.

[Modification history]

Version 1.28:06
Rank C

Symptom corrected:
- The density may appear much lighter than expected when printed in
  1C using a specialty color toner.
- Toner supply may not start automatically after replacing the toner bottle.
- Home position detection error of the Drum drive motor or
  Development motor occurs while the system initializes the image
  registration adjustment before starting a job, and the job does not start.
- Jam 15 occurs, if the tray runs out of paper during a
  saddle-stitched booklet jobs.

Version 1.27:06
Rank C

Symptom corrected:
- JAM204 occurs, if jobs are run continuously after a saddle-stitch job.

Version 1.26:06
Rank C

Symptom corrected:
- If the tray becomes empty and switches to another tray, Process
  Control runs and causes the hue of the color to change.
- Color registration shift occurs when front/back magnification
  correction in main scan direction is set to 0.025%.

Other changes:
- For the support of the newly added specialty color Invisible Red,
  the following SP default values were changed.
  - SP3-201-214 (TnrDensity Upper TC: Special Color4) : "9" to "11"
  - SP3-332-214 (M/A Calculation Corrct Coef: Special Color4) : "1" to "1.06"
  - SP3-620-214 (ProCon Target M/A Plain: Maximum M/A: Special Color4) : "0.200" to "0.444"
  - SP3-630-214 (Dev gamma:Disp/Set Initial:Special Color4) : "1" to "1.2"

Version 1.25:06
Other changes:

The default values of the following SP were corrected in line with the addition
of the new Neon Pink toner:
- SP3-201-213 (TnrDensity Upper TC:Special Color3):
  9 -> 11
- SP3-332-213 (M/A Calculation-Corrct Coef:Special Color3):
  1.00 -> 0.94
- SP3-620-213 (ProCon Target M/A Plain:Maximum M/A:Special Color3):
  0.20 -> 0.39
- SP3-630-213 (Dev gamma :Disp/Set Initial:Special Color3):
  1.00 -> 1.20

Version 1.24:06
Specification Change:
- Control of the toner inner bottle cap was modified to reduce the risk of
  breaking the shutter.

Symptom corrected:
- Misfeeds and double-feeds may occur when feeding thin media from Vacuum
  Feed LCIT RT5100.
- When the trimmings box full message of the Trimmer TR5040 appears,
  the message on the panel remains "Waiting" even after emptying the
  trimmings box and closing the front door.

Version 1.23:06
Specification Change:
Default value of the following SPs were changed for higher reliability against
the following problems:
- Color shift immediately after process control
- Density fluctuation after continuously running high image coverage jobs
    SP3-201-011   3   ->   2
    SP3-201-012   3   ->   1.5
    SP3-201-013   3   ->   1.5
    SP3-201-014   3   ->   1.5
    SP3-535-031   1000 ->   50000
    SP3-211-002   4.7   ->   4.9

Symptom corrected:
The following problems may occur, if multiple pages are printed using only
special color toner with [Image Create Mode FCS Mode Fixed] enabled:
- The first print is darker in density compared to the succeeding pages.
- Image registration of the first page is shifted 0.5~1.5mm.

Version 1.22:06
Symptom Corrected:
SC324 and/or In-track lines occurs due to toner coagulation in moderate
operational environment.

Version 1.21:06
Specification Change:
- When a problem is detected in the power pack, the system alerts SC450 and stops.

Symptoms corrected:
- The data-in LED remains flashing and printing does not resume, if process control
  runs during a job.

Version 1.20:06
Symptom corrected:
- Productivity reduces in perfect binding jobs.
- Error message does not appear when the drum cleaning unit is not set properly.

Version 1.19:06
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

- The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

Symptoms corrected:
- To prevent possible jams that occur with newly registered custom papers,
  changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 1.18:06
Symptoms corrected:
The following problems may occur in the first job operation after
opening/closing the door to recover from a jam:
- In a print job immediately after recovering from a jam, a particular
  color is missing from the first copy.
- In a copy job immediately after recovering from a jam, the system
  stalls with the message "Please wait" displayed.

Version 1.17:06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library

- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

The following SPs were added in line with this modification:

 SP1-109-001~051, SP1-110-001~051, SP1-125-001~051,
 SP1-126-001~051, SP1-127-001~051, SP1-128-001~051,
 SP1-967-001~051, SP1-980-001~051, SP1-981-001~051,
 SP1-984-001~051, SP1-986-001~051, SP1-990-001~051,
 SP1-991-001~051, SP1-996-001~051

Version 1.16:06
Symptoms corrected:
For Black and Magenta, toner call is not triggered at the correct timing.

Version 1.15:06
Symptom corrected:
- If Manual Paper Setting is applied, non-feeds may occur with paper
  of 148mm in length (in paper feed direction) and Weight 3-7.
- The coverage counter is smaller than the actual number of coverages
  produced.

Version 1.14:06
Symptoms corrected:
- After replacing the toner bottle or waste toner bottle, Process Control repeats
and does not stop.

Version 1.13:06
Symptom corrected:
- JAM99 is alerted even when a double-feed had not occurred.
- "Manual Toner Refresh S" causes solid areas in white to gradually decrease
  in density.
- Shade of the color is inconsistent within a job.

Version 1.12:06

Symptom corrected:
- Double-feed occurs with Vacuum Feed LCIT RT5100.
- If the job contains a back cover fed from the Interposer Tray CI5030 and
  a jam occurs with a paper fed from the mainframe tray bank, the machine
  stalls without displaying an error message.
- Print speed decreases, if repeatedly printing a duplex job that is FCS
  on the first side and FC on the second side.

Version 1.11:06
Error Correction:
- Drum scratches occur when filling developer in the PCDU of the 5th station.
* Temporary procedure to avoid drum scratches announced in RTB RD194033 will
  NOT be required from this version.
- SC39X occurs
* Temporary procedure to prevent SC39X announced in RTB RD194079 will NOT be
  required from this version.

Version 1.10:06
Specification Change:
- Paper purge specs were improved to prevent paper from remaining in
  the paper exit unit when jams occur.

Error Correction:
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
- Paper wraps around the transfer timing roller when purging paper.

Version 1.09:06
Specification Change:
- Fan control was modified to prevent banding in 189mm pitch caused by ozone.

Note:
Applying this firmware to machines not installed with the modified fans will
cause SC584-00.
To resolve this SC, upgrade the System/Copy firmware to version 3.02, apply
the following SP values, and then turn OFF/ON the machine.

SP1-945-009 set to 100
SP1-945-011 set to 100
SP1-945-017 set to 100
SP1-945-019 set to 100
SP1-945-021 set to 100
SP1-945-052 set to 0

See the toner shield glass cover plate to identify if the machine is modified
one or not. The modified ones have the duct shown below.

Error Correction:
- Breakage of the pressure roller
- SC545/565
- Counter does not count up correctly when switching to a new special color
  toner, causing toner near-end alert earlier than expected.
- Jam in the paper purge process
- Distance based counters of the YMC PCDU, Charge roller unit, and Drum
  cleaning unit are falsely counted up even after the print mode has switched
  from FC to B/W.
- SC670 when recovering from energy saving mode

Version 1.08:06

Specification Change:
SP3025-001 (Dev Fill OK?) will always show "1" after filling up the developer regardless of the results, to enable initialization automatically at all times.
The purpose is to prevent unwanted symptoms caused when the machine mistakenly recognizes the developer filling as failure ("3") even when successfully executed.

Error Correction:
- Printer does not reach ready status after manually refreshing
  special color toner.
- Cannot adjust front/back sides with NICE correctly.
- CIS data is not saved when feeding paper from Vacuum Feed LCIT
  RT5100.
- Process control does not complete after a print job.
- SC670, if finishing options are connected and a jam occurs in the
  mainframe exit unit.
- Skew occurs with banner printing on custom paper.

Version 1.07:06
Error Correction:
- Print speed is slower than the copier model when printing duplex
  jobs with two staples at the center.
- Machine stalls in "Printing..." after recovering from a cover open
  status of finishing peripherals.
- SC670 might occur, if paper fed from tray 3 of LCIT RT5100 results
  in a jam.
- Machine stalls, if a paper mis-feed jams occurs in a folding job.
- Machine stalls, if a paper jam occurs in a duplex job applied with
  finishing options.

Version 1.06:06
Symptoms Corrected:
- When changed to another special color the counter does not switch
  and the new toner quickly reaches near end.
- Remaining toner amount displayed is incorrect on brand new
  machines.
- System notifies clear toner end even if the clear toner bottle is
  not empty.
- The fuser cleaning web counter does not count up.
- If the front door is opened exactly while the system is
  communicating with the ID chip on the fuser unit, the system will
  not restart even if the door is closed.
- Print speed of the printer model is slower than the copier model
  when creating booklets.
- SC900 might occur in banner printing jobs.
- Machine might stall while upgrading firmware.

Version 1.05.1:06
Symptoms Corrected:
- Sympathetic resonance of the mainframe causes "banding".
- Running jobs in FCS/S color mode after replacing the special color
  toner causes to increase the fusing belt smoothing roller

operation, shortening the smoothing roller life.
- Running jobs in FCS/S color mode after replacing the special color
  toner causes wrap around jams, if the trailing edge of a page
  contains solid images.
- Jam 510 occurs when running stapling jobs.
- Jam 510 occurs when the rings are set incorrectly on the ring binder.
- Jam location Z4 is not displayed on the operation panel, if jams
  occur in duplex jobs.
- If jam occurs on a system consisted of the Plockmatic and RPIP
  Interface Box TypeS3, paper in the path are not purged.
- Engine continues to run idle after recovering from a jam on the
  Plockmatic.
- Engine does not reach ready status, if the tray is set incorrectly
  or damaged.
- DEMS does not function properly.
- Forcibly terminating DEMS operation causes SC670.
- The system acknowledges a wrong special color because the special
  color ID written on the PCDU ID chip is incorrect.

Version 1.04.1:06
Symptoms Corrected:
The density of White gradually lightens or darkens during a job.

Version 1.04:06
Specification Changes:
- PM counters of CMY paper transfer rollers count up even when
  printing in b/w.
- PM counters of PM parts in the Black station count up even when
  printing using only the special toner.

Symptoms Corrected:
- Turning on the machine power in a room temperature below 0 degrees
  Celsius causes SC551.
- Dirty background occurs randomly in Cyan.

Version 1.02:06
1st mass production

driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Symptom corrected:
- When the following settings are enabled, print jobs that have been conducted
  are not displayed on the job history screen:
   - On the operation panel: User Tools > Printer Features > System tab >
     Store and Skip Errored Job
   - In Web Image Monitor: Device Management > Configuration > Printer >
     Basic Settings > Store and Skip Errored Job
This firmware is dependent on System/Copy firmware v3.06(D1955720K) or later,
so please be sure to update it.

Version 1.05
Other changes:
- Support of paper width 100mm-210mm feeding from the multi bypass
  banner sheet tray Type S3.

Version 1.04
Specification Change
Custom paper settings can be changed even if that paper has already
been assigned to a tray.

Version 1.03
Error Correction:
Double-feed or no-feed occurs when the size of a custom paper (clear
folder and magnet paper) has been changed.

Other changes:
Added interposer options to "Tray to set" in the Separation Sheet
Tray settings when the two-source cover interposer is installed.

Version 1.02
1st Mass production

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

Symptom corrected:
- It might take time to resume a job if it is suspended while the device is in
  Energy Saver mode.
- The output might print a lighter color when printing the Custom Paper.




-------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 3.06
Fixed:
- When a job is sent to the device while it is in Energy Saver mode,
  "Auto Continue" function does not work and a paper size error occurs.
- An error may occur when trying to display a preview in the Print
  from Storage Device application.




-----------------------------------------
Version 3.05
Symptom corrected:
- The device pauses for 20 to 30 seconds when a job that contains more than
  100 pages is to be stapled.
- After an SC reboot occurs, if the dialog window stating that the automatic
  reboot has occurred is not closed, SDK-J applications cannot be started,
  which results in an SC990 error occurring.




-----------------------------------------
Version 3.04
Symptom corrected:
Minor bug correction.




-----------------------------------------
Version 3.03
Symptoms Corrected:
Minor bug correction.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System/Copy firmware ver.3.08 or later
- OpePanel firmware ver.2.05 or later
- Web Support firmware ver.1.08 or later
- WebUapl firmware ver.1.03 or later
```

Version 3.02
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches, driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 3.01
Error Correction:
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
NOTE: The following firmware combinations are required for this release
     to take effect.

- Engine: 1.10:06
 - System/Copy: 3.03
 - Animation: 2.00
 - OpePanel 2.03

Version 3.00
Symptom corrected:
The job is canceled if perfect binding for the pages of the document
is set to the SEF direction.

Version 2.00
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/06/29
--------------------------------------------------------------------------
[Program Name] RPCS
--------------------------------------------------------------------------
[Version] 3.17.3
--------------------------------------------------------------------------
[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.] D1955736B
[File Information]
 File Name        D1955736B.fwu
 File Type        Module for Service
 Size          0.53 MB ( 559060 byte )
[File Information]
 File Name        D1955736B.rfu
 File Type        Module for Remote Upgrade
 Size          0.54 MB ( 565504 byte )
[Availability of RFU] Yes
--------------------------------------------------------------------------
[Production reflection] 2017/07
--------------------------------------------------------------------------


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

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


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

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

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
Fixed:
- When "Unauthorized Copy Prevention Printing: Printer" is enabled,
  an error might occur, causing the job to be cancelled. (GFPR#RA14120002)


-------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 3.17.2
1st Mass production
```

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/20
----------------------------------------------------------------
[Program Name] PCL
----------------------------------------------------------------
[Version] 1.07
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1955738F
[File Information]
 File Name       D1955738F.fwu
 File Type       Module for Service
 Size            1.18 MB ( 1242500 byte )
[File Information]
 File Name       D1955738F.rfu
 File Type       Module for Remote Upgrade
 Size            1.19 MB ( 1249536 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2018/11
----------------------------------------------------------------


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

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


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

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


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

===
[Modifications made:]
Rank C

Symptom corrected:
- If printing PCL5 data after installing the Andale font on the
  machine, some Chinese characters might not be printed.
- The overlay image might not be correctly printed with PCL.
- Some characters might be filled with black when the color balance
  is set below zero.

[Modification history]

Version 1.06
Rank C

Symptom corrected:
- The device might stall when printing a heavy-duty job.

Version 1.05
Symptom corrected:
- The printing results of the second and subsequent pages might not
  be as expected while PCL5 host printing.
- A blank page or missing image is printed out if the print data
  created by certain applications (such as Microsoft Excel 2010)
  contains a significant amount of graphics and/or transparent objects.
- When printing a PCL5 job, black text might be drawn by using
  process black and result in a blurred or thicker-than-expected
  output. (GFPR#RA16010003)
- Image backgrounds might be filled unexpectedly.
- A pattern put on top of an image or graphic might be blacked out.
- When printing a PCL job which contains images via host printing,
  an SC899 error might occur.
- When "Unauthorized Copy Prevention Printing: Printer" is enabled,
  an error might occur, causing the job to be cancelled. (GFPR#RA14120002)

Version 1.04
Symptom corrected:
- PCL macros that were uploaded to the HDD cannot be printed.
  (GFPR#RE16080014)
- An error might occur while printing a job when "Unauthorized Copy
  Prevention" is enabled and asterisks are included with characters
  in the "Enter User Text".
- An SC899 error occurs when using the PCL6 driver to print a PDF
  from the Reader application in Windows 8.1. (GFPR#RA15050002)

Version 1.03
Symptom corrected:
- The image quality output from PCL5 data might be poor if the image

was created by using certain applications, such as RICOH ProcessDirector.
(GFPR#RE15030034)
- When characters that contain the incorrect TrueType font data are
  printed, not only are incorrect characters missing but also are
  correct characters that follow incorrect characters.
  (GFPR#RE16030046)
- Some lines and/or borders might be missing from PCL jobs.
  (GFPR#RC16040013)
- An SC899 error might occur when printing a PCL job which contains
  reduce or enlarge image. (GFPR#RE16020028)

Version 1.02
1st mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/06/19
----------------------------------------------------------------
[Program Name] System
----------------------------------------------------------------
[Version] 3.14
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M1965720S
[File Information]
 File Name        M1965720S.fwu
 File Type        Module for Service
 Size            18.24 MB ( 19125976 byte )
[File Information]
 File Name        M1965720S.rfu
 File Type        Module for Remote Upgrade
 Size            18.25 MB ( 19132672 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2018/05
----------------------------------------------------------------


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

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


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

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

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

Symptom corrected:
- Printing does not resume even if the staples are refilled after
  they run out.
- When attempted to print from an external controller the operation
  panel displays "Printing" but the job does not get printed.



--------------------------------------------------------------------------
[Modification history]
------------------------------------------
Version 3.13
Rank C

Symptom corrected:
- It takes time to login after authenticating the card.
- Pressing the Fiery button on the operation panel after powering on the machine
  does not display the "Please Wait" screen.
- SC899 occurs when printed a duplex job that exceeds the max allowable pages.



------------------------------------------
Version 3.12
Symptom Corrected:
- If paper library data had been backed up and restored, a paper mismatch error
  may occur with jobs using custom paper.
- Auto Detect may falsely be applied to a job set with a specific custom size,
  disabling Prinect DFE's connection to the engine.
- Character corruption may occur for the paper size described on the "Print the Settings"
  printed from [Edit Custom Paper], if printed on custom paper size.
- If an original jams in the sample copy of a stapled job, the first set is not
  printed out.
- If the Cover Interposer runs out of paper during the job and the tray is
  reloaded with paper but the paper size is not detected correctly due to poor
  set, the machine stalls when switching to the succeeding job.
- If a job is sent from the Fiery controller while the engine enters the energy
  saver mode, the engine does not wake up and the job is not run.



------------------------------------------
Version 3.11
- If printed from Prinect DFE after accessing the Adjustment Settings for
  Operators/Skilled Operators menus, the system stalls displaying "Printing."
```

Version 3.10
Specification Change:
1. Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

2. The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

3. The minimum supported size for automatic duplex was reduced from 210mm to 200mm.
4. SC code of "Controller Box Ozone Collecting Fan error" was changed from
   SC570-06 to SC570-05.
5. Printer name for the Heidelberg model was changed from Linoprint to Versafire.
   For the Heidelberg model, make sure to update the Prinect DFE microcode to
   version 1.6.004 or later. (refer to relating RTB#RD194154)

Symptoms corrected:
1. The operation panel freezes, if searched for a custom paper that contains
   2 byte character in its name.
2. SC911-62 occurs and the communication with the engine disconnects,
   if the engine and TotalFlow Print Server R-61A are synchronized when the index
   width specified on the operation panel is exceeding the maximum width.
3. If a perfect bound job is printed from the Document Server, another perfect
   bound job cannot follow.
4. Fata Error occurs, if multiple jobs are run with the stacker shift tray
   assigned as the output tray on the TotalFlow Print Server R-61A and the output
   tray reaches full status.
5. SC990 may occur with models installed only with the platen cover without the ADF.
6. To prevent possible jams that occur with newly registered custom papers,
   changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 3.08
Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.
- Better display of search result of paper.

Improved usability of the "Adjustment Settings for Operators"
and "Adjustment Settings for Skilled Operators" menus
- Numeric keypad on the operation panel can be used to enter values.
- Changed the descriptions of several items in the menu.

Change in login/logout spec. See RTB No. RD194141 for detail.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- Printer firmware ver.3.05 or later (if external controller is not used)
- OpePanel firmware ver.2.05 or later
- Web Support firmware ver.1.08 or later

Version 3.06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696

Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

- SP5-748-102 was added.
   0 (default): Does not perform the following behavior
             (no different to the behavior before this SP was added)
   1: Allows access to the following menu screens when run on external
     controllers (Aldebaran, EFI Fiery)
    - Tray Paper Settings Screen
    - Adjustment Settings for Operators Screen
    - Adjustment Settings for Skilled Operators Screen

Symptom corrected:

- An SC819 error might occur when using network-related functions,
  such as accessing Web Image Monitor.

- When the following settings are enabled, print jobs that have been
  conducted are not displayed on the job history screen:
    - On the operation panel: User Tools > Printer Features > System tab >
      Store and Skip Errored Job
    - In Web Image Monitor: Device Management > Configuration > Printer >
      Basic Settings > Store and Skip Errored Job

This firmware is dependent on Web Support firmware v1.06 or later,
so please be sure to update it.

Version 3.05
Specification Change:
- Support of paper width 100mm-210mm feeding from the multi bypass banner

sheet tray Type S3.

Symptom corrected:
- In the latest jam history listed in the SMC, the paper weight information
  may be wrong.
- If toner runs out during a during duplex job and the system is run with
  an external controller, the operation panel will continue to display
  "printing" status and the job cannot be cancelled.

Version 3.04
Symptom corrected:
- Machine occasionally stalls when it receives a job and attempts to recover
  from the sleep mode (STR).

Version 3.03
Specification Change:
- "Paper Type Auto Identify" button was added to the Media Identification
  Unit setup screen:
       i) Edit Custom Paper
       ii) Recall from Paper Library
       iii) Recall from Saved Paper Library
- PnP name was added for the Heidelberg model.

Error Correction:
- SC991 occurs when rebooting Total Flow Print Server R-60A
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
NOTE: The following firmware combinations are required for this release
to take effect.
- Engine: 1.10:06
- System/Copy: 3.03
- Animation: 2.00
- OpePanel: 2.03

Version 3.02
Specification Change:
- Fan control was modified to prevent blurred images caused by ozone.

Error Correction:
- SC545/565
- Counter does not count up correctly when switching to a new
  special color toner, causing toner near-end alert earlier than expected.
- SC670 when recovering from energy saving mode
- SPSP5104-001 value could not retrieve via NRS

Version 3.01

Specification Change:
Custom paper settings can be changed even if that paper has already
been assigned to a tray.

Error Correction:
If "Display" is selected under "Paper Confirmation for Bypass Tray,"
printing is available only in LEF.
(User Tool -> Printer Features -> System -> Tray Setting Priority ->
Paper Confirmation for Bypass Tray)

Version 3.00
Specification changes:
- Error message "Set OPC clean Unt/Wrong PCDU(K)" appears when a
  PCDU of a wrong color is installed.
- In the Tray Paper Settings menu, "Edit Custom Paper" button was
  changed to "Edit" and a new "Search" button was added next to the
  Edit button.

IMPORTANT: OpePanel firmware must be updated to Ver.2.02 for the above to take effect.

Symptoms corrected:
1. Disconnecting and reconnecting the USB cable disables the machine
   to detect Media Identification Unit Type S3 and USB key board.
2. User paper settings are applied without any alert messages when
   scanned with Media Identification Unit Type S3.
3. "Copy view" button is displayed on the "Adjustment Settings for
   Operators" menu screen.
4. Cannot return to the SP mode, if entered the copy application
   view from the SP mode with the "Copy view" button.
5. Copy job set with punch to the right is printed out face-up
   instead of face-down, if the job is run after the following job:
   - Copy/scan on contact glass
   - Face-up delivery
   - Punch

Error Correction:
Cannot enter the paper setting screen on the operation panel during
printing.
Change SP5748-102 from "0" to "1" for the solution to take effect.

Version 2.00
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/05/08
----------------------------------------------------------------
[Program Name] System
----------------------------------------------------------------
[Version] 3.15
----------------------------------------------------------------
[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.] M1965720T
[File Information]
 File Name        M1965720T.fwu
 File Type        Module for Service
 Size            18.24 MB ( 19126580 byte )
[File Information]
 File Name        M1965720T.rfu
 File Type        Module for Remote Upgrade
 Size            18.25 MB ( 19132672 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2019/03
----------------------------------------------------------------


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

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


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

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


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

===

[Modifications made:]
Rank C

Symptom corrected:
- Color shifts occur during the job and after process control.

Other changes:
- SC450-03 was added to notify anomalies of the PTR high voltage power supply PCB.
Note: This release takes effect with Engine firmware ver. 1.29:06 or later. Make sure to update together as a set.

- The default values of the following SP were corrected in line with the addition of the new Neon Pink toner:
  - SP3-201-213 (TnrDensity Upper TC:Special Color3):
    9 -> 11
  - SP3-332-213 (M/A Calculation-Corrct Coef:Special Color3):
    1.00 -> 0.94
  - SP3-620-213 (ProCon Target M/A Plain:Maximum M/A:Special Color3):
    0.20 -> 0.39
  - SP3-630-213 (Dev gamma :Disp/Set Initial:Special Color3):
    1.00 -> 1.20
- For the support of the newly added specialty color Invisible Red, the following SP default values were changed.
  - SP3-201-214 (TnrDensity Upper TC: Special Color4) : "9" to "11"
  - SP3-332-214 (M/A Calculation Corrct Coef: Special Color4) : "1" to "1.06"
  - SP3-620-214 (ProCon Target M/A Plain: Maximum M/A: Special Color4) : "0.200" to "0.444"
  - SP3-630-214 (Dev gamma:Disp/Set Initial:Special Color4) : "1" to "1.2"

[Modification history]

Version 3.14
Rank C

Symptom corrected:
- Printing does not resume even if the staples are refilled after
  they run out.
- When attempted to print from an external controller the operation
  panel displays "Printing" but the job does not get printed.

Version 3.13
Rank C

Symptom corrected:
- It takes time to login after authenticating the card.
- Pressing the Fiery button on the operation panel after powering on the machine
  does not display the "Please Wait" screen.
- SC899 occurs when printed a duplex job that exceeds the max allowable pages.

Version 3.12
Symptom Corrected:
- If paper library data had been backed up and restored, a paper mismatch error
  may occur with jobs using custom paper.
- Auto Detect may falsely be applied to a job set with a specific custom size,

disabling Prinect DFE's connection to the engine.
- Character corruption may occur for the paper size described on the "Print the Settings"
  printed from [Edit Custom Paper], if printed on custom paper size.
- If an original jams in the sample copy of a stapled job, the first set is not
  printed out.
- If the Cover Interposer runs out of paper during the job and the tray is
  reloaded with paper but the paper size is not detected correctly due to poor
  set, the machine stalls when switching to the succeeding job.
- If a job is sent from the Fiery controller while the engine enters the energy
  saver mode, the engine does not wake up and the job is not run.

Version 3.11
- If printed from Prinect DFE after accessing the Adjustment Settings for
  Operators/Skilled Operators menus, the system stalls displaying "Printing."

Version 3.10
Specification Change:
1. Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

2. The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

3. The minimum supported size for automatic duplex was reduced from 210mm to 200mm.
4. SC code of "Controller Box Ozone Collecting Fan error" was changed from
   SC570-06 to SC570-05.
5. Printer name for the Heidelberg model was changed from Linoprint to Versafire.
   For the Heidelberg model, make sure to update the Prinect DFE microcode to
   version 1.6.004 or later. (refer to relating RTB#RD194154)

Symptoms corrected:
1. The operation panel freezes, if searched for a custom paper that contains
   2 byte character in its name.
2. SC911-62 occurs and the communication with the engine disconnects,
   if the engine and TotalFlow Print Server R-61A are synchronized when the index
   width specified on the operation panel is exceeding the maximum width.
3. If a perfect bound job is printed from the Document Server, another perfect
   bound job cannot follow.
4. Fata Error occurs, if multiple jobs are run with the stacker shift tray
   assigned as the output tray on the TotalFlow Print Server R-61A and the output
   tray reaches full status.
5. SC990 may occur with models installed only with the platen cover without the ADF.
6. To prevent possible jams that occur with newly registered custom papers,
   changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 3.08
Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.
- Better display of search result of paper.

Improved usability of the "Adjustment Settings for Operators"
and "Adjustment Settings for Skilled Operators" menus
- Numeric keypad on the operation panel can be used to enter values.
- Changed the descriptions of several items in the menu.

Change in login/logout spec. See RTB No. RD194141 for detail.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- Printer firmware ver.3.05 or later (if external controller is not used)
- OpePanel firmware ver.2.05 or later
- Web Support firmware ver.1.08 or later

Version 3.06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also

involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

- SP5-748-102 was added.
   0 (default): Does not perform the following behavior
            (no different to the behavior before this SP was added)
   1: Allows access to the following menu screens when run on external
     controllers (Aldebaran, EFI Fiery)
    - Tray Paper Settings Screen
    - Adjustment Settings for Operators Screen
    - Adjustment Settings for Skilled Operators Screen

Symptom corrected:

- An SC819 error might occur when using network-related functions,
  such as accessing Web Image Monitor.

- When the following settings are enabled, print jobs that have been
  conducted are not displayed on the job history screen:
    - On the operation panel: User Tools > Printer Features > System tab >
      Store and Skip Errored Job
    - In Web Image Monitor: Device Management > Configuration > Printer >
      Basic Settings > Store and Skip Errored Job

This firmware is dependent on Web Support firmware v1.06 or later,
so please be sure to update it.

Version 3.05
Specification Change:
- Support of paper width 100mm-210mm feeding from the multi bypass banner
  sheet tray Type S3.

Symptom corrected:
- In the latest jam history listed in the SMC, the paper weight information
  may be wrong.
- If toner runs out during a during duplex job and the system is run with
  an external controller, the operation panel will continue to display
  "printing" status and the job cannot be cancelled.

Version 3.04
Symptom corrected:
- Machine occasionally stalls when it receives a job and attempts to recover
  from the sleep mode (STR).

Version 3.03
Specification Change:
- "Paper Type Auto Identify" button was added to the Media Identification
  Unit setup screen:
       i) Edit Custom Paper
       ii) Recall from Paper Library
       iii) Recall from Saved Paper Library
- PnP name was added for the Heidelberg model.

Error Correction:
- SC991 occurs when rebooting Total Flow Print Server R-60A
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
NOTE: The following firmware combinations are required for this release
to take effect.
- Engine: 1.10:06
- System/Copy: 3.03
- Animation: 2.00
- OpePanel: 2.03

Version 3.02
Specification Change:
- Fan control was modified to prevent blurred images caused by ozone.

Error Correction:
- SC545/565
- Counter does not count up correctly when switching to a new
  special color toner, causing toner near-end alert earlier than expected.
- SC670 when recovering from energy saving mode

- SPSP5104-001 value could not retrieve via NRS

Version 3.01
Specification Change:
Custom paper settings can be changed even if that paper has already
been assigned to a tray.

Error Correction:
If "Display" is selected under "Paper Confirmation for Bypass Tray,"
printing is available only in LEF.
(User Tool -> Printer Features -> System -> Tray Setting Priority ->
Paper Confirmation for Bypass Tray)

Version 3.00
Specification changes:
- Error message "Set OPC clean Unt/Wrong PCDU(K)" appears when a
  PCDU of a wrong color is installed.
- In the Tray Paper Settings menu, "Edit Custom Paper" button was
  changed to "Edit" and a new "Search" button was added next to the
  Edit button.

IMPORTANT: OpePanel firmware must be updated to Ver.2.02 for the above to take effect.

Symptoms corrected:
1. Disconnecting and reconnecting the USB cable disables the machine
   to detect Media Identification Unit Type S3 and USB key board.
2. User paper settings are applied without any alert messages when
   scanned with Media Identification Unit Type S3.
3. "Copy view" button is displayed on the "Adjustment Settings for
   Operators" menu screen.
4. Cannot return to the SP mode, if entered the copy application
   view from the SP mode with the "Copy view" button.
5. Copy job set with punch to the right is printed out face-up
   instead of face-down, if the job is run after the following job:
   - Copy/scan on contact glass
   - Face-up delivery
   - Punch

Error Correction:
Cannot enter the paper setting screen on the operation panel during
printing.
Change SP5748-102 from "0" to "1" for the solution to take effect.

Version 2.00
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/02/14
----------------------------------------------------------------
[Program Name] Web Support
----------------------------------------------------------------
[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.] M1965725L
[File Information]
 File Name        M1965725L.fwu
 File Type        Module for Service
 Size           6.03 MB ( 6318160 byte )
[File Information]
 File Name        M1965725L.rfu
 File Type        Module for Remote Upgrade
 Size           6.03 MB ( 6324480 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2018/02
----------------------------------------------------------------


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

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


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

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

M1965725L_readme.txt[2018/02/15 10:14:42]

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

Symptom corrected:
- On the "Custom Paper" registration screen on the Web Image Monitor,
  the "Fusing Temp" range is incorrect.



-------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.10
Symptom corrected:
- Fixed mistakes in the names of setting items in "Registration Adjustment: Across Feed".



-----------------------------------------
Version 1.09
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix up
the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.



Symptoms corrected:
To prevent possible jams that occur with newly registered custom papers,
changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]
```

- When user code authentication is enabled, if a user logs in to Web Image Monitor
  after logging in on the operation panel, the login screen for user code
  authentication will be displayed again on the operation panel.

Version 1.08
Symptom Corrected
Some descriptions of advanced settings for custom paper are incorrect in German.

Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.

Changed the names of the items in the "Adjustment Settings for
Operators" and "Adjustment Settings for Skilled Operators" menus.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System firmware ver.3.08 or later
- Printer firmware ver.3.05 or later (if external controller is not used)
- OpePanel firmware ver.2.05 or later

Version 1.06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A

- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Symptom corrected:
- When the following settings are enabled, print jobs that have been conducted
  are not displayed on the job history screen:
    - On the operation panel: User Tools > Printer Features > System tab >
      Store and Skip Errored Job
    - In Web Image Monitor: Device Management > Configuration > Printer >
      Basic Settings > Store and Skip Errored Job
  This firmware is dependent on System/Copy firmware v3.06(M1965720K) or later,
  so please be sure to update it.

Version 1.05
Other changes:
- Support of paper width 100mm-210mm feeding from the multi bypass banner
sheet tray Type S3.

Version 1.04
Specification Change:
Custom paper settings can be changed even if that paper has already
been assigned to a tray.

Version 1.03
Error Correction:
Double-feed or no-feed occurs when the size of a custom paper (clear
folder and magnet paper) has been changed.

Other changes:

Added interposer options to "Tray to set" in the Separation Sheet
Tray settings when the two-source cover interposer is installed.

Version 1.02
1st mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/02/02
----------------------------------------------------------------
[Program Name] Printer
----------------------------------------------------------------
[Version] 3.13
----------------------------------------------------------------
[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.] M1965734J
[File Information]
 File Name       M1965734J.fwu
 File Type       Module for Service
 Size          4.41 MB ( 4619556 byte )
[File Information]
 File Name       M1965734J.rfu
 File Type       Module for Remote Upgrade
 Size          4.41 MB ( 4624640 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2018/02
----------------------------------------------------------------


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

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


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

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

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

Symptom corrected:
- It might take time to resume a job if it is suspended while the device is in
  Energy Saver mode.
- The output might print a lighter color when printing the Custom Paper.



------------------------------------------------------------------------
[Modification history]
------------------------------------------
Version 3.12
Fixed:
- When a job is sent to the device while it is in Energy Saver mode,
  "Auto Continue" function does not work and a paper size error occurs.
- An error may occur when trying to display a preview in the Print
  from Storage Device application.



------------------------------------------
Version 3.11
Symptom corrected:
- The device pauses for 20 to 30 seconds when a job that contains more than
  100 pages is to be stapled.
- After an SC reboot occurs, if the dialog window stating that the automatic
  reboot has occurred is not closed, SDK-J applications cannot be started,
  which results in an SC990 error occurring.



------------------------------------------
Version 3.09
Symptom corrected:
Minor bug correction.



------------------------------------------
Version 3.05
Symptoms Corrected:
Minor bug correction.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System firmware ver.3.08 or later
- OpePanel firmware ver.2.05 or later
- Web Support firmware ver.1.08 or later
```

Version 3.04
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches, driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 3.03
Error Correction:
- Jam removal procedure shown on the operation panel is incorrect when jams
  occur with banner paper.
NOTE: The following firmware combinations are required for this release to
    take effect.
  - Engine: 1.10:06

- System: 3.03
- Animation: 2.00
- OpePanel: 2.03

Version 2.00
1st mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/06/29
----------------------------------------------------------------
[Program Name] RPCS
----------------------------------------------------------------
[Version] 3.17.3
----------------------------------------------------------------
[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.] M1965735B
[File Information]
 File Name      M1965735B.fwu
 File Type      Module for Service
 Size          0.64 MB ( 671316 byte )
[File Information]
 File Name      M1965735B.rfu
 File Type      Module for Remote Upgrade
 Size          0.64 MB ( 676096 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2017/07
----------------------------------------------------------------


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

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


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

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

===
*** Modification History ***
===
[Modifications made:]
Fixed:
- When "Unauthorized Copy Prevention Printing: Printer" is enabled,
  an error might occur, causing the job to be cancelled. (GFPR#RA14120002)

[Modification history]

Version 3.17.2
1st mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/09/13
----------------------------------------------------------------
[Program Name] Scanner
----------------------------------------------------------------
[Version] 02.04
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1955725G
[File Information]
 File Name       D1955725G.fwu
 File Type       Module for Service
 Size          4.82 MB ( 5058856 byte )
[File Information]
 File Name       D1955725G.rfu
 File Type       Module for Remote Upgrade
 Size          4.83 MB ( 5067008 byte )
[Availability of RFU] No
----------------------------------------------------------------
[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 v3.13 (D1955720R)
Network Support v14.68.1 (D1955730G)
Web Support v1.11 (D1955726L)
Scanner v02.04 (D1955725G)
OpePanel v2.07 (D1955729J)

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

[Modification history]

Version 02.03
Symptom corrected:
- When opening a program after Simple Screen has been applied on the home screen,
  the program settings are not retrieved.
- When scanning with "Hungarian" or "Polish" selected under "Cognitive Language"
  in "OCR Settings", if the value of a Unicode character exceeds 256, then the
  character will be converted to a question mark ("?").
This firmware is dependent on the following firmware module.
Please be sure to update it:
System/Copy firmware: v3.06 or later

Version 02.02
Symptom corrected:
- When Simplified Chinese is selected in the "Insert Additional
  Email Info" setting in Send Settings, text in an email sent by
  using Scan to URL is garbled.

Version 02.01
 Symptom corrected:
When using a TWAIN driver in certain software applications, such as
Pneumologis, an SC899 error occurs.

Version 02.00

1st Mass production

```
==============================================================================
*** Basic Information ***
==============================================================================
[Create date] 2017/09/13
------------------------------------------------------------------------
[Program Name] OpePanel
------------------------------------------------------------------------
[Version] 2.07
------------------------------------------------------------------------
[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(ja,en,f,e,d,i,nl,s,n,dk,sf,p,pl,h,cz,ru,sc,tc,kr,br,tr,ca,gr)
[Firmware No.] D1955729J
[File Information]
 File Name        D1955729J.fwu
 File Type        Module for Service
 Size             51.15 MB ( 53635500 byte )
[File Information]
 File Name        D1955729J.rfu
 File Type        Module for Remote Upgrade
 Size             51.16 MB ( 53641472 byte )
[Availability of RFU] No
------------------------------------------------------------------------
[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 v3.13 (D1955720R)
Network Support v14.68.1 (D1955730G)
Web Support v1.11 (D1955726L)
Scanner v02.04 (D1955725G)
OpePanel v2.07 (D1955729J)

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

[Modification history]

Version 2.06
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

Version 2.05
Specification change:

Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.

- Several terms used in the paper library were changed for better comprehensibility.
- Better display of search result of paper.

Improved usability of the "Adjustment Settings for Operators"
and "Adjustment Settings for Skilled Operators" menus
- Numeric keypad on the operation panel can be used to enter values.
- Changed the descriptions of several items in the menu.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System/Copy firmware ver.3.08 or later
- Printer firmware ver.3.03 or later (if external controller is not used)
- Web Support firmware ver.1.08 or later
- WebUapl firmware ver.1.03 or later

Version 2.04
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 2.03
Specification Change:
- "Paper Type Auto Identify" button was added to the Media Identification Unit
  setup screen:
       i)   Edit Custom Paper
       ii) Recall from Paper Library
       iii) Recall from Saved Paper Library

Error Correction:
- Jam removal procedure shown on the operation panel is incorrect for jams that
  occur with banner printing.
- "Administrator" was misspelled in Spanish language setting.
NOTE: The following firmware combinations are required for this release to
take effect.
- Engine: 1.10:06
- System/Copy: 3.03
- Animation: 2.00
- OpePanel: 2.03

Version 2.02
Spec change:
In the Tray Paper Settings menu, "Edit Custom Paper" button was
changed to "Edit" and a new "Search" button was added next to the
Edit button.

IMPORTANT: System/Copy firmware must be updated to Ver.3.00 for the
            above to take effect.

Version 2.01
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/06/04
----------------------------------------------------------------
[Program Name] Network Support
----------------------------------------------------------------
[Version] 14.70
----------------------------------------------------------------
[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.] D1955730J
[File Information]
 File Name        D1955730J.fwu
 File Type        Module for Service
 Size             10.53 MB ( 11043908 byte )
[File Information]
 File Name        D1955730J.rfu
 File Type        Module for Remote Upgrade
 Size             10.54 MB ( 11051264 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/05
----------------------------------------------------------------


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

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


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

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

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

Symptom corrected:
- SC819 might occur after ARFU or RFU.
- If the device has not being used a significant amount of times,
  functions that require a network connection might fail.
- The device might freeze during data transmission when conducting Scan to Folder
  with SMBv2/v3.
- When conducting Scan to Folder in a high-load network environment,
  the device's status gets stuck on sending and the scanner becomes unusable.
- When conducting Scan to Folder using SMBv2/v3, if the device receives UDP communication
  from the outside to the port used by SMBv2/v3, Scan to Folder might fail.

[Modification history]

Version 14.69
Rank C

Symptom corrected:
- When the device is in Energy Saver Mode, if information about the network
  interface for the device is being obtained from the SNMP Manager application,
  nonexistent errors are recorded in the system logs.
- SMB client timeout configuration is not correctly applied in the device.
- SC899 occurs when conducting Scan to Folder, and the device might automatically
  restart.
- When conducting Scan to Folder, if a host name is resolved to multiple IP addresses
  by NBNS, the device tries to connect to only the first resolved IP address.
- When a HP device is working on the same subnet, Scan to Folder will fail.
- Network browsing sometimes fails when conducting Scan to Folder.

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

Version 14.68.1
Other changes:
- Newly added SMBv2/v3 support.
This firmware is dependent on the following firmware modules. Please be sure
to update all of them:

System/Copy v3.13 (D1955720R)
Network Support v14.68.1 (D1955730G)
Web Support v1.11 (D1955726L)

Scanner v02.04 (D1955725G)
OpePanel v2.07 (D1955729J)

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

Version 14.67
Symptom Corrected:
- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active",
  authentication will fail.

Version 14.66
Other changes:
- Changed the DH key specification to use 2,048 bits instead of 512 bits
  to prevent the Logjam vulnerability (CVE-2015-4000).
  In addition, by modifying this specification, SSL/TLS communication
  can be established when using Mac OS X 10.10.4 and iOS 8.4.

Version 14.65
 Symptom corrected:
Minor bug correction.

Version 14.64
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/10/18
--------------------------------------------------------------------------
[Program Name] MediaLibNA4st AB
--------------------------------------------------------------------------
[Version] 13
--------------------------------------------------------------------------
[PCB No.] -
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------
[Program category] Others
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945780_R13
[File Information]
 File Name        D1945780_R13.mqp
 File Type        Module for Service
 Size          0.12 MB ( 130121 byte )
 Check Sum -8Bit Sum: B9F0
        -16Bit Sum(Little Endian): 6B68
        -16Bit Sum(Big Endian): 3E88
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
[R13]
- To prevent jams, the default of "Paper Feed Position" of the
  Advanced Settings was changed from Low to High for Paper Weight
  0~3 of all paper types.

[R12]
- 33 new media were added to the media list under CU type.
  (30 new rank A, 3 new rank B)

[Modification history]

Version 11
[R11]
- 4 new media were added to the media list under ST2 type.

[R10]
- 18 new media were added to the media list under ST2 type.
- Paper Weight was made common with other Production name:
    NA_00010, NA_00011, NA_00012, NA_00013, NA_00032, NA_00033,
    NA_00034, NA_00035, NA_00036, NA_00037, NA_00091, NA_00093,
    NA_00094, NA_00095, NA_00096, NA_00097, NA_00098, NA_00101,
    NA_00102, NA_00186, NA_00187, NA_00189, NA_00197, NA_00198,
    NA_00200, NA_00209, NA_00213, NA_00214, NA_00215, NA_00221,
    NA_00223, NA_00224, NA_00225
- Symbols used to denote the media ranks were changed.
    NA_00111, NA_00116

Version 9
[R9]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A

- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 8
[R8]
- 29 new media were added to the media list under ST2 type.

[R7]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 6
- The following media information was deleted:
  NA_00114

Symptoms Corrected
- Japanese keyboard appears on the screen when attempted to change
  the custom paper name.

Version 5
- The following media information was deleted:
  NA_00059, NA_00060, NA_00075, NA_00083, NA_00084

Version 4
- "High Quality entry" was added.
- The following media information was added:
  NA_00076, NA_00078 and NA_00119
- Thirteen media information was added.
- Remark *1 on thick paper was corrected.

Version 3
1st Release

==
*** Basic Information ***
==
[Create date] 2017/10/18

[Program Name] MediaLibNA5st AB

[Version] 13

[PCB No.] -

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)
[Firmware No.] D1945781_R13
[File Information]
 File Name   D1945781_R13.mqp
 File Type   Module for Service
 Size   0.25 MB (260210 byte)
 Check Sum -8Bit Sum: D869
        -16Bit Sum(Little Endian): 7DD6
        -16Bit Sum(Big Endian): C393
[Availability of RFU] No

[Production reflection]

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

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

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

[Modifications made:]
[R13]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R12]
- 33 new media were added to the media list under CU type.
  (30 new rank A, 3 new rank B)
- The Media Library file, which used to be released separately for
  Clear toner and White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner
  had to temporarily install the file to both "Paper Library" and
  "Saved Paper Library" and switch the file according to the special
  toner in use, but installation to the Paper Library will only be necessary.
   Past modifications:
     - Clear toner: MediaLibNAcl AB ver.11 (RTB No. RD194055e)
     - White toner: MediaLibNAwh AB ver.11 (RTB No. RD194056e)

[Modification history]

```
==============================================================================
*** Basic Information ***
==============================================================================
[Create date] 2017/10/18
------------------------------------------------------------------------
[Program Name] MediaLibNA4st AB
------------------------------------------------------------------------
[Version] 13
------------------------------------------------------------------------
[PCB No.] -
------------------------------------------------------------------------
[Interchangeability] X / O
------------------------------------------------------------------------
[Other Firmware Requirements] None
------------------------------------------------------------------------
[PCB Requirements] None
------------------------------------------------------------------------
[Software category] Normal Release
------------------------------------------------------------------------
[Release category] Normal Release
------------------------------------------------------------------------
[Program category] Others
------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945790_R13
[File Information]
 File Name        D1945790_R13.mqp
 File Type        Module for Service
 Size          0.12 MB ( 130121 byte )
 Check Sum -8Bit Sum: B9F5
        -16Bit Sum(Little Endian): 7068
        -16Bit Sum(Big Endian): 3E8D
[Availability of RFU] No
------------------------------------------------------------------------
[Production reflection]
------------------------------------------------------------------------


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

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

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



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

[Modifications made:]
[R13]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R12]
- 30 new rank A and 3 new rank B media were added to the media libraly under CU type.

[Modification history]

Version 11
[R11]
- 4 new media were added to the media list under ST2 type.

[R10]
- 18 new media were added to the media list under ST2 type.
- Paper Weight was made common with other Production name:
    NA_00010, NA_00011, NA_00012, NA_00013, NA_00032, NA_00033,
    NA_00034, NA_00035, NA_00036, NA_00037, NA_00091, NA_00093,
    NA_00094, NA_00095, NA_00096, NA_00097, NA_00098, NA_00101,
    NA_00102, NA_00186, NA_00187, NA_00189, NA_00197, NA_00198,
    NA_00200, NA_00209, NA_00213, NA_00214, NA_00215, NA_00221,
    NA_00223, NA_00224, NA_00225
- Symbols used to denote the media ranks were changed.
    NA_00111, NA_00116

Version 9
[R9]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches, driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 8
[R8]
- 29 new media were added to the media list under ST2 type.

[R7]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 6
- The following media information was deleted:
  NA_00114

Symptoms Corrected
- Japanese keyboard appears on the screen when attempted to change
  the custom paper name.

Version 5
- The following media information was deleted:
  NA_00059, NA_00060, NA_00075, NA_00083, NA_00084

Version 4
- "High Quality entry" was added.
- The following media information was added:
  NA_00076, NA_00078 and NA_00119
- Thirteen media information was added.
- Remark *1 on thick paper was corrected.

Version 3

1st Release

==
*** Basic Information ***
==
[Create date] 2017/10/18

[Program Name] MediaLibNA5st AB

[Version] 13

[PCB No.] -

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)
[Firmware No.] D1945791_R13
[File Information]
 File Name   D1945791_R13.mqp
 File Type   Module for Service
 Size   0.25 MB (260210 byte)
 Check Sum -8Bit Sum: D86E
         -16Bit Sum(Little Endian): 82D6
         -16Bit Sum(Big Endian): C398
[Availability of RFU] No

[Production reflection]

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

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

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

[Modifications made:]
[R13]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R12]
- 33 new media were added to the media list under CU type.
  (30 new rank A, 3 new rank B)
- The Media Library file, which used to be released separately for Clear toner
  and White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use, but installation to
  the Paper Library will only be necessary.
    Past modifications:
      - Clear toner: MediaLibNAcl AB ver.11 (RTB No. RD194058e)
      - White toner: MediaLibNAwh AB ver.11 (RTB No. RD194059e)

[Modification history]

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/10/22
----------------------------------------------------------------
[Program Name] Engine
----------------------------------------------------------------
[Version] 1.28:06
----------------------------------------------------------------
[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.] D1945415D
[File Information]
 File Name        D1945415D.fwu
 File Type        Module for Service
 Size             15.75 MB ( 16515700 byte )
[File Information]
 File Name        D1945415D.rfu
 File Type        Module for Remote Upgrade
 Size             15.76 MB ( 16523520 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/10
----------------------------------------------------------------


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

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

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



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

==
[Modifications made:]
Rank C

Symptom corrected:
- The density may appear much lighter than expected when printed in
  1C using a specialty color toner.
- Toner supply may not start automatically after replacing the toner bottle.
- Home position detection error of the Drum drive motor or
  Development motor occurs while the system initializes the image
  registration adjustment before starting a job, and the job does not start.
- Jam 15 occurs, if the tray runs out of paper during a
  saddle-stitched booklet jobs.

[Modification history]

Version 1.27:06
Rank C

Symptom corrected:
- JAM204 occurs, if jobs are run continuously after a saddle-stitch job.

Version 1.26:06
Rank C

Symptom corrected:
- If the tray becomes empty and switches to another tray, Process
  Control runs and causes the hue of the color to change.
- Color registration shift occurs when front/back magnification
  correction in main scan direction is set to 0.025%.

Other changes:
- For the support of the newly added specialty color Invisible Red,
  the following SP default values were changed.
  - SP3-201-214 (TnrDensity Upper TC: Special Color4) : "9" to "11"
  - SP3-332-214 (M/A Calculation Corrct Coef: Special Color4) : "1" to "1.06"
  - SP3-620-214 (ProCon Target M/A Plain: Maximum M/A: Special Color4) : "0.200" to "0.444"
  - SP3-630-214 (Dev gamma:Disp/Set Initial:Special Color4) : "1" to "1.2"

Version 1.25:06
Other changes:
The default values of the following SP were corrected in line with the addition
of the new Neon Pink toner:
 - SP3-201-213 (TnrDensity Upper TC:Special Color3):
   9 -> 11
 - SP3-332-213 (M/A Calculation-Corrct Coef:Special Color3):
   1.00 -> 0.94
 - SP3-620-213 (ProCon Target M/A Plain:Maximum M/A:Special Color3):
   0.20 -> 0.39
 - SP3-630-213 (Dev gamma :Disp/Set Initial:Special Color3):
   1.00 -> 1.20

Version 1.24:06
Specification Change:
- Control of the toner inner bottle cap was modified to reduce the risk of
  breaking the shutter.

Symptom corrected:
- Misfeeds and double-feeds may occur when feeding thin media from Vacuum
  Feed LCIT RT5100.
- When the trimmings box full message of the Trimmer TR5040 appears,
  the message on the panel remains "Waiting" even after emptying the
  trimmings box and closing the front door.

Version 1.23:06
Specification Change:
Default value of the following SPs were changed for higher reliability against
the following problems:
- Color shift immediately after process control
- Density fluctuation after continuously running high image coverage jobs
     SP3-201-011   3   ->   2
     SP3-201-012   3   ->   1.5
     SP3-201-013   3   ->   1.5
     SP3-201-014   3   ->   1.5
     SP3-535-031   1000 ->   50000
     SP3-211-002   4.7   ->   4.9

Symptom corrected:
The following problems may occur, if multiple pages are printed using only
special color toner with [Image Create Mode FCS Mode Fixed] enabled:
- The first print is darker in density compared to the succeeding pages.
- Image registration of the first page is shifted 0.5~1.5mm.

Version 1.22:06
Symptom Corrected:
SC324 and/or In-track lines occurs due to toner coagulation in moderate
operational environment.

Version 1.21:06
Specification Change:
- When a problem is detected in the power pack, the system alerts SC450 and stops.

Symptoms corrected:
- The data-in LED remains flashing and printing does not resume, if process control
  runs during a job.

Version 1.20:06
Symptom corrected:
- Productivity reduces in perfect binding jobs.
- Error message does not appear when the drum cleaning unit is not set properly.

Version 1.19:06
Specification Change:
- Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

- The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

Symptoms corrected:

- To prevent possible jams that occur with newly registered custom papers,
changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 1.18:06

Symptoms corrected:
The following problems may occur in the first job operation after
opening/closing the door to recover from a jam:
- In a print job immediately after recovering from a jam, a particular
  color is missing from the first copy.
- In a copy job immediately after recovering from a jam, the system
  stalls with the message "Please wait" displayed.

Version 1.17:06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
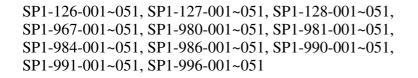- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

The following SPs were added in line with this modification:

 SP1-109-001~051, SP1-110-001~051, SP1-125-001~051,

SP1-126-001~051, SP1-127-001~051, SP1-128-001~051,
SP1-967-001~051, SP1-980-001~051, SP1-981-001~051,
SP1-984-001~051, SP1-986-001~051, SP1-990-001~051,
SP1-991-001~051, SP1-996-001~051

Version 1.16:06
Symptoms corrected:
For Black and Magenta, toner call is not triggered at the correct timing.

Version 1.15:06
Symptom corrected:
- If Manual Paper Setting is applied, non-feeds may occur with paper
  of 148mm in length (in paper feed direction) and Weight 3-7.
- The coverage counter is smaller than the actual number of coverages
  produced.
- If an original smaller than A4 is scanned in 600dpi and enlarged to A4,
  image on a different page appears.

Version 1.14:06
Symptoms corrected:
- After replacing the toner bottle or waste toner bottle, Process Control
  repeats and does not stop.

Version 1.13:06
Symptom corrected:
- JAM99 is alerted even when a double-feed had not occurred.
- "Manual Toner Refresh S" causes solid areas in white to gradually
  decrease in density.
- Shade of the color is inconsistent within a job.

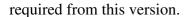---
Version 1.12:06
Symptom corrected:
- Double-feed occurs with Vacuum Feed LCIT RT5100.
- If the job contains a back cover fed from the Interposer Tray CI5030
  and a jam occurs with a paper fed from the mainframe tray bank,
  the machine stalls without displaying an error message.
- Print speed decreases, if repeatedly printing a duplex job that is
  FCS on the first side and FC on the second side.

Version 1.11:06
Error Correction:
- Drum scratches occur when filling developer in the PCDU of the 5th station.
* Temporary procedure to avoid drum scratches announced in RTB RD194033 will
  NOT be required from this version.
- SC39X occurs
* Temporary procedure to prevent SC39X announced in RTB RD194079 will NOT be

required from this version.

Version 1.10:06
Specification Change:
- Paper purge specs were improved to prevent paper from remaining in the
  paper exit unit when jams occur.

Error Correction:
- Jam removal procedure shown on the operation panel is incorrect when
  jams occur with banner paper.
- Paper wraps around the transfer timing roller when purging paper.

Version 1.09:06
Specification Change:
- Fan control was modified to prevent banding in 189mm pitch caused by ozone.

Note:
Applying this firmware to machines not installed with the modified fans will
cause SC584-00.
To resolve this SC, upgrade the System/Copy firmware to version 3.02, apply
the following SP values, and then turn OFF/ON the machine.

SP1-945-009 set to 100
SP1-945-011 set to 100
SP1-945-017 set to 100
SP1-945-019 set to 100
SP1-945-021 set to 100
SP1-945-052 set to 0

See the toner shield glass cover plate to identify if the machine is modified
one or not. The modified ones have the duct shown below.

Error Correction:
- Breakage of the pressure roller
- SC545/565
- Counter does not count up correctly when switching to a new special color
  toner, causing toner near-end alert earlier than expected.
- Jam in the paper purge process
- Distance based counters of the YMC PCDU, Charge roller unit, and Drum
  cleaning unit are falsely counted up even after the print mode has switched
  from FC to B/W.
- SC670 when recovering from energy saving mode

Version 1.08:06
Specification Change:
SP3025-001 (Dev Fill OK?) will always show "1" after filling up the developer
regardless of the results, to enable initialization automatically at all times.
The purpose is to prevent unwanted symptoms caused when the machine mistakenly
recognizes the developer filling as failure ("3") even when successfully executed.

Error Correction:

- Printer does not reach ready status after manually refreshing
  special color toner.
- Cannot adjust front/back sides with NICE correctly.
- CIS data is not saved when feeding paper from Vacuum Feed LCIT
  RT5100.
- Process control does not complete after a print job.
- SC670, if finishing options are connected and a jam occurs in the
  mainframe exit unit.
- Skew occurs with banner printing on custom paper.

Version 1.07:06
Error Correction:
- Machine stalls in "Printing..." after recovering from a cover open
  status of finishing peripherals.
- SC670 might occur, if paper fed from tray 3 of LCIT RT5100 results
  in a jam.
- Machine stalls, if a paper mis-feed jams occurs in a folding job.
- Machine stalls, if a paper jam occurs in a duplex job applied with
  finishing options.

Version 1.06:06
Symptoms Corrected:
- When changed to another special color the counter does not switch
  and the new toner quickly reaches near end.
- Remaining toner amount displayed is incorrect on brand new machines.
- System notifies clear toner end even if the clear toner bottle is
  not empty.
- The fuser cleaning web counter does not count up.
- If the front door is opened exactly while the system is
  communicating with the ID chip on the fuser unit, the system will
  not restart even if the door is closed.
- Print speed of the printer model is slower than the copier model
  when creating booklets.
- SC900 might occur in banner printing jobs.
- Machine might stall while upgrading firmware.

Version 1.05.1:06
Symptoms Corrected:
- Sympathetic resonance of the mainframe causes "banding".
- Running jobs in FCS/S color mode after replacing the special color
  toner causes to increase the fusing belt smoothing roller operation,
  shortening the smoothing roller life.
- Running jobs in FCS/S color mode after replacing the special color
  toner causes wrap around jams, if the trailing edge of a page
  contains solid images.
- Jam 510 occurs when running stapling jobs.
- Jam 510 occurs when the rings are set incorrectly on the ring binder.
- Jam location Z4 is not displayed on the operation panel, if jams
  occur in duplex jobs.
- If jam occurs on a system consisted of the Plockmatic and RPIP
  Interface Box TypeS3, paper in the path are not purged.

- Engine continues to run idle after recovering from a jam on the
  Plockmatic.
- Engine does not reach ready status, if the tray is set incorrectly
  or damaged.
- DEMS does not function properly.
- Forcibly terminating DEMS operation causes SC670.
- The system acknowledges a wrong special color because the special
  color ID written on the PCDU ID chip is incorrect.

Version 1.04.1:06
Symptoms Corrected:
The density of White gradually lightens or darkens during a job.

Version 1.04:06
Specification Changes:
- PM counters of CMY paper transfer rollers count up even when
  printing in b/w.
- PM counters of PM parts in the Black station count up even when
  printing using only the special toner.

Symptoms Corrected:
- Turning on the machine power in a room temperature below 0 degrees
  Celsius causes SC551.
- Dirty background occurs randomly in Cyan.

Version 1.02:06
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/11/16
----------------------------------------------------------------
[Program Name] MediaLibEU5st AB
----------------------------------------------------------------
[Version] 17
----------------------------------------------------------------
[PCB No.] -
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Others
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945783_R17
[File Information]
 File Name        D1945783_R17.mqp
 File Type        Module for Service
 Size          0.34 MB ( 361671 byte )
 Check Sum -8Bit Sum: 4444
        -16Bit Sum(Little Endian): 706A
        -16Bit Sum(Big Endian): 17DA
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/15
----------------------------------------------------------------
[Program Name] MediaLibEU4st AB
----------------------------------------------------------------
[Version] 18
----------------------------------------------------------------
[PCB No.] -
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Others
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945782_R18
[File Information]
 File Name        D1945782_R18.mqp
 File Type        Module for Service
 Size          0.18 MB ( 185693 byte )
 Check Sum -8Bit Sum: 6A33
         -16Bit Sum(Little Endian): 4C0C
         -16Bit Sum(Big Endian): 5127
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Media list
- Added 16 new entries ([FC] Rank A: 4, Rank B: 12, Rank C: 0)

[Modification history]

Version 17
[R17]
- 36 new media were added to the media libraly. (24 new rank A*1, 12 new rank B*2)

*1: The following rank A media are not included in this release. They will be
   available in the next release.
   RE_00328, RE_00337, RE_00345, RE_00349, RE_00352, RE_00382, RE_00395, RE_00441,
   RE_00444, RE_00518, RE_00531, RE_00678, RE_00683, RE_00794

*2: The following rank B media are not included in this release. They will be
   available in the next release.
   RE_00333, RE_00336, RE_00381, RE_00440, RE_00471, RE_00640, RE_00795

[R16]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R15]
- 43 new media were added to the media list.
  (19 new rank A, 19 new rank B, 5 new rank C)

[R14]
- 5 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

Version 13
[R13]
- Paper Weight values were modified from "135" to "162" for the following:
  RE_00516, RE_00517

Version 11
[R11]
- 2 new rank B media were added to the media list.
- 2 new rank B media were added to the media libraly.

Version 10
[R10]
- 3 new rank A and 1 new rank C media were added to the media list.
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Creative Papers":
  RE_00190, RE_00191
- Media name was corrected from "Creative Rives Dot" to " Rives Dot" for the
  following:
  RE_00190, RE_00191
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins Creative" to "Arjowiggins Creative
  Papers":
  RE_00157, RE_00158, RE_00173, RE_00174, RE_00256
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Graphic":
  RE_00223, RE_00224, RE_00261
- 3 new rank A media were added to the media libraly.

Version 9
[R9]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Symptoms Corrected:

- Media name was corrected from "CreatorStar" to "Creator Star" for
  the following:
  RE_00082, RE_00083, RE_00084, RE_00085

Version 8
[R8]
8 new media were added to the media list under ST2 type.

[R7]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 6
- The following media information was deleted:
  RE_00209, RE_00210
- The following media information was added:
  RE_00250

Symptoms Corrected
- Japanese keyboard appears on the screen when attempted to change
  the custom paper name.

Version 5
- The media list was corrected as follows according to the
  correction of the vendor name of the media from "Anatalis"
  to "Antalis".
  RE_00016B to RE_00019B, RE_00212B to RE_00216B
- The following media list was corrected according to the correction
  of the image quality priority from "NA" to "-".
  RE_00141
- The following media information was added:
  RE_00028
- The following media information was deleted:
  RE_000132
- Media size data was corrected from "SRA3" to "A4" for the
  following:
  RE_00012, RE_00025, RE_00026, RE_00027, RE_00035, RE_00036,
  RE_00036A, RE_00037, RE_00037A, RE_00168, RE_00226, RE_00242,
  RE_00261

Version 4
- "High Quality entry" was added.
- The following media information was added:
  RE_00049, RE_00054, RE_00058, RE_00082, RE_00142, RE_00143,
  RE_00227, RE_00187, RE_00188
- RE_00094 was deleted.
- Remark *1 on thick paper was corrected.
- Ten media information was added.
- Information on the following media was corrected:
  RE_00204, RE_00235.

Version 3
1st Release

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/15
----------------------------------------------------------------
[Program Name] MediaLibEU5st AB
----------------------------------------------------------------
[Version] 18
----------------------------------------------------------------
[PCB No.] -
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Others
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945783_R18
[File Information]
 File Name       D1945783_R18.mqp
 File Type       Module for Service
 Size            0.35 MB ( 369249 byte )
 Check Sum -8Bit Sum: D368
         -16Bit Sum(Little Endian): 49E6
         -16Bit Sum(Big Endian): F182
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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


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



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


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



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

[Modifications made:]
Rank C

Media list
- Added 16 new entries ([FC] Rank A: 4, Rank B: 12, Rank C: 0)

[Modification history]

Version 17
[R17]
- 36 new media were added to the media libraly. (24 new rank A*1, 12 new rank B*2)

*1: The following rank A media are not included in this release. They will be
    available in the next release.
    RE_00328, RE_00337, RE_00345, RE_00349, RE_00352, RE_00382, RE_00395, RE_00441,
    RE_00444, RE_00518, RE_00531, RE_00678, RE_00683, RE_00794

*2: The following rank B media are not included in this release. They will be
    available in the next release.
    RE_00333, RE_00336, RE_00381, RE_00440, RE_00471, RE_00640, RE_00795

[R16]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R15]
- 43 new media were added to the media list.
  (19 new rank A, 19 new rank B, 5 new rank C)

[R14]
- 5 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

Version 13
[R13]
- Paper Weight values were modified from "135" to "162" for the following:
  RE_00516, RE_00517

Version 11
[R11]
- 2 new rank B media were added to the media list.
- 2 new rank B media were added to the media libraly.

- The Media Library file, which used to be released separately for Clear toner
  and White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use,
  but installation to the Paper Library will only be necessary.

  Past modifications:
    - Clear toner: MediaLibEUcl AB ver.10 (RTB No. RD194043e)
    - White toner: MediaLibEUwh AB ver.10 (RTB No. RD194044e)

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/11/10
--------------------------------------------------------------------------
[Program Name] MediaLibAP4st AB
--------------------------------------------------------------------------
[Version] 11
--------------------------------------------------------------------------
[PCB No.] -
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------
[Program category] Others
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945784_R11
[File Information]
 File Name        D1945784_R11.mqp
 File Type        Module for Service
 Size          0.16 MB ( 172221 byte )
 Check Sum -8Bit Sum: A359
        -16Bit Sum(Little Endian): F1CE
        -16Bit Sum(Big Endian): 0A8B
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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

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



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

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

```
==================================================================
*** Modification History ***
==================================================================
```
[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R10]
- 38 new media were added to the media list. (19 new rank A, 19 new rank B)

[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235


```
--------------------------------------------------------------------------
```
[Modification history]
```
------------------------------------------
```
Version 8
[R8]
- 3 new rank A and 1 new rank C media were added to the media list.
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Creative Papers":
  RE_00190, RE_00191
- Media name was corrected from "Creative Rives Dot" to " Rives Dot" for the
  following:
  RE_00190, RE_00191
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins Creative" to "Arjowiggins Creative
  Papers":
  RE_00157, RE_00158, RE_00173, RE_00174, RE_00256
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Graphic":
  RE_00223, RE_00224, RE_00261
- 3 new rank A media were added to the media libraly.


```
------------------------------------------
```
Version 7
[R7]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also

involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 6
[R6]
- 8 new media were added to the media list under ST2 type.
- Media name was corrected from "CreatorStar" to "Creator Star" for the
  following:
  RE_00082, RE_00083, RE_00084, RE_00085
- Media name was corrected from "Colotec+" to "Colotech+" for the following:
  AP_00023

[R5]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 4
- The following media information was added:
  RE_00250, AP_00012, AP_00013, AP_00014, AP_00022, AP_00024,
  AP_00028, AP_00035
- The following media information was deleted:
  RE_00209, RE_00210
- Moses data was corrected for the following:
  RE_00250

Symptoms Corrected:
- Japanese software keyboard appear when modify custom paper name.

Version 3
- "High Quality entry" was added.
- The following media information was added:
  RE_00049,RE_00054,RE_00058,RE_00082,RE_00142,RE_00143,RE_00227,
  RE_00187,RE_00188
- RE_00094 was deleted.
- "Productivity" data was added to following paper
  RE_00187, RE_00188
- Remark *1 on thick paper was corrected.
- Fifty one paper information was added
- Information on the following media was corrected:
  RE_00204, RE_00235.

Version 2
1st Release

==
*** Basic Information ***
==
[Create date] 2017/11/10

[Program Name] MediaLibAP5st AB

[Version] 11

[PCB No.] -

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)
[Firmware No.] D1945785_R11
[File Information]
 File Name   D1945785_R11.mqp
 File Type   Module for Service
 Size   0.33 MB (341463 byte)
 Check Sum -8Bit Sum: 7101
         -16Bit Sum(Little Endian): EEB5
         -16Bit Sum(Big Endian): 834C
[Availability of RFU] No

[Production reflection]

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

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

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.


[R10]
- 38 new media were added to the media list. (19 new rank A, 19 new rank B)


[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

- The Media Library file, which used to be released separately for Clear toner
  and White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use, but installation to
  the Paper Library will only be necessary.
  Past modifications:
    - Clear toner: MediaLibAPcl AB ver.8 (RTB No. RD194049e)
    - White toner: MediaLibAPwh AB ver.8 (RTB No. RD194050e)


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

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/11/10
----------------------------------------------------------------
[Program Name] MediaLibCN4st AB
----------------------------------------------------------------
[Version] 11
----------------------------------------------------------------
[PCB No.] -
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Others
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945786_R11
[File Information]
 File Name       D1945786_R11.mqp
 File Type       Module for Service
 Size          0.18 MB ( 188219 byte )
 Check Sum -8Bit Sum: 7CA8
         -16Bit Sum(Little Endian): E021
         -16Bit Sum(Big Endian): 4487
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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

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

[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R10]
- 38 new media were added to the media list. (19 new rank A, 19 new rank B)

[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235


```
------------------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version 8
[R8]
- 3 new rank A and 1 new rank C media were added to the media list.
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Creative Papers":
  RE_00190, RE_00191
- Media name was corrected from "Creative Rives Dot" to " Rives Dot" for the
  following:
  RE_00190, RE_00191
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins Creative" to "Arjowiggins Creative
  Papers":
  RE_00157, RE_00158, RE_00173, RE_00174, RE_00256
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Graphic":
  RE_00223, RE_00224, RE_00261
- 3 new rank A media were added to the media libraly.


```
-----------------------------------------
```
Version 7
[R7]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also

involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

- Paper Name and Vendor were changed from Pinyin to Chinese characters.

Version 6
[R6]
- 8 new media were added to the media list under ST2 type.
- Media name was corrected from "CreatorStar" to "Creator Star" for the
  following:
  RE_00082, RE_00083, RE_00084, RE_00085
- Media name was corrected from "Colotec+" to "Colotech+" for the following:
  AP_00023

[R5]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 4
- The following media information was added:
  AP_00012,AP_00013,AP_00014,AP_00022,AP_00024,AP_00028,AP_00035,
- The following media information was deleted:
  RE_00209,RE_00210
- Moses data was corrected for the following:
  RE_00250

Symptoms Corrected:
Display of paper names on the operation panel was changed from
simplified Chinese to Pinyin (alphabet) characters to prevent character
corruption.

Version 2
1st Release

===
*** Basic Information ***
===
[Create date] 2017/11/10

[Program Name] MediaLibCN5st AB

[Version] 11

[PCB No.] -

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)
[Firmware No.] D1945787_R11
[File Information]
 File Name   D1945787_R11.mqp
 File Type   Module for Service
 Size   0.36 MB (373459 byte)
 Check Sum -8Bit Sum: 98E6
        -16Bit Sum(Little Endian): B8E9
        -16Bit Sum(Big Endian): C5FD
[Availability of RFU] No

[Production reflection]

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

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

```
========================================================================
```
*** Modification History ***
```
========================================================================
```
[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R10]
- 38 new media were added to the media list. (19 new rank A, 19 new rank B)

[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

- The Media Library file, which used to be released separately for Clear toner
  and White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use, but installation to
  the Paper Library will only be necessary.
  Past modifications:
    - Clear toner: MediaLibCNcl AB ver.8 (RTB No. RD194069d)
    - White toner: MediaLibCNwh AB ver.8 (RTB No. RD194068d)

[Modification history]

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/11/15
-----------------------------------------------------------------------
[Program Name] MediaLibEU4st AB
-----------------------------------------------------------------------
[Version] 18
-----------------------------------------------------------------------
[PCB No.] -
-----------------------------------------------------------------------
[Interchangeability] X / O
-----------------------------------------------------------------------
[Other Firmware Requirements] None
-----------------------------------------------------------------------
[PCB Requirements] None
-----------------------------------------------------------------------
[Software category] Normal Release
-----------------------------------------------------------------------
[Release category] Normal Release
-----------------------------------------------------------------------
[Program category] Others
-----------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945792_R18
[File Information]
 File Name        D1945792_R18.mqp
 File Type        Module for Service
 Size          0.18 MB ( 185693 byte )
 Check Sum -8Bit Sum: 6A38
        -16Bit Sum(Little Endian): 510C
        -16Bit Sum(Big Endian): 512C
[Availability of RFU] No
-----------------------------------------------------------------------
[Production reflection]
-----------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Media list
- Added 16 new entries ([FC] Rank A: 4, Rank B: 12, Rank C: 0)

[Modification history]

Version 17
[R17]
- 36 new media were added to the media libraly. (24 new rank A*1, 12 new rank B*2)

*1: The following rank A media are not included in this release. They will be
    available in the next release.
    RE_00328, RE_00337, RE_00345, RE_00349, RE_00352, RE_00382, RE_00395, RE_00441,
    RE_00444, RE_00518, RE_00531, RE_00678, RE_00683, RE_00794

*2: The following rank B media are not included in this release. They will be
    available in the next release.
    RE_00333, RE_00336, RE_00381, RE_00440, RE_00471, RE_00640, RE_00795

[R16]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R15]
- 43 new media were added to the media list.
  (19 new rank A, 19 new rank B, 5 new rank C)

[R14]
- 5 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

Version 13
[R13]
- Paper Weight values were modified from "135" to "162" for the following:
  RE_00516, RE_00517

Version 11
[R11]
- 2 new rank B media were added to the media list.
- 2 new rank B media were added to the media libraly.

Version 10
[R10]
- 3 new rank A and 1 new rank C media were added to the media list.
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Creative Papers":
  RE_00190, RE_00191
- Media name was corrected from "Creative Rives Dot" to " Rives Dot" for the
  following:
  RE_00190, RE_00191
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins Creative" to "Arjowiggins Creative
  Papers":
  RE_00157, RE_00158, RE_00173, RE_00174, RE_00256
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Graphic":
  RE_00223, RE_00224, RE_00261
- 3 new rank A media were added to the media libraly.

Version 9
[R9]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A

- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Symptoms Corrected:

- Media name was corrected from "CreatorStar" to "Creator Star" for
  the following:
  RE_00082, RE_00083, RE_00084, RE_00085

Version 8
[R8]
8 new media were added to the media list under ST2 type.

[R7]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 6
- The following media information was deleted:
  RE_00209, RE_00210
- The following media information was added:
  RE_00250

Symptoms Corrected
- Japanese keyboard appears on the screen when attempted to change
  the custom paper name.

Version 5
- The media list was corrected as follows according to the
  correction of the vendor name of the media from "Anatalis"
  to "Antalis".
  RE_00016B to RE_00019B, RE_00212B to RE_00216B

- The following media list was corrected according to the correction
  of the image quality priority from "NA" to "-".
  RE_00141,
- The following media information was added:
  RE_00028
- The following media information was deleted:
  RE_000132
- Media size data was corrected from "SRA3" to "A4" for the following:
  RE_00012, RE_00025, RE_00026, RE_00027, RE_00035, RE_00036,
  RE_00036A, RE_00037, RE_00037A, RE_00168, RE_00226, RE_00242, RE_00261

Version 4
- "High Quality entry" was added.
- The following media information was added:
  RE_00049, RE_00054, RE_00058, RE_00082, RE_00142, RE_00143,
  RE_00227, RE_00187, RE_00188
- RE_00094 was deleted.
- Remark *1 on thick paper was corrected.
- Ten media information was added.
- Information on the following media was corrected:
  RE_00204, RE_00235.

Version 3
1st Release

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/11/15
--------------------------------------------------------------------
[Program Name] MediaLibEU5st AB
--------------------------------------------------------------------
[Version] 18
--------------------------------------------------------------------
[PCB No.] -
--------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------
[Program category] Others
--------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945793_R18
[File Information]
 File Name        D1945793_R18.mqp
 File Type        Module for Service
 Size          0.35 MB ( 369249 byte )
 Check Sum -8Bit Sum: D4DE
        -16Bit Sum(Little Endian): 4561
        -16Bit Sum(Big Endian): 6D7D
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Media list
- Added 16 new entries ([FC] Rank A: 4, Rank B: 12, Rank C: 0)

[Modification history]

Version 17
[R17]
- 36 new media were added to the media libraly. (24 new rank A*1, 12 new rank B*2)

*1: The following rank A media are not included in this release. They will be
    available in the next release.
    RE_00328, RE_00337, RE_00345, RE_00349, RE_00352, RE_00382, RE_00395, RE_00441,
    RE_00444, RE_00518, RE_00531, RE_00678, RE_00683, RE_00794

*2: The following rank B media are not included in this release. They will be
    available in the next release.
    RE_00333, RE_00336, RE_00381, RE_00440, RE_00471, RE_00640, RE_00795

[R16]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R15]
- 43 new media were added to the media list.
  (19 new rank A, 19 new rank B, 5 new rank C)

[R14]
- 5 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

Version 13
[R13]
- Paper Weight values were modified from "135" to "162" for the following:
  RE_00516, RE_00517

Version 12
[R12]
Installation of the MQP file fails.

Version 11
[R11]
- 2 new rank B media were added to the media list.
- 2 new rank B media were added to the media libraly.
- The Media Library file, which used to be released separately for Clear toner
  and White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use,
  but installation to the Paper Library will only be necessary.

 Past modifications:
  - Clear toner: MediaLibEUcl AB ver.10 (RTB No. RD194046e)
  - White toner: MediaLibEUwh AB ver.10 (RTB No. RD194047e)

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/11/10
----------------------------------------------------------------
[Program Name] MediaLibAP4st AB
----------------------------------------------------------------
[Version] 11
----------------------------------------------------------------
[PCB No.] -
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Others
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945794_R11
[File Information]
 File Name        D1945794_R11.mqp
 File Type        Module for Service
 Size          0.16 MB ( 172221 byte )
 Check Sum -8Bit Sum: A35E
         -16Bit Sum(Little Endian): F6CE
         -16Bit Sum(Big Endian): 0A90
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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

```
==================================================================
*** Modification History ***
==================================================================
```
[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R10]
- 19 new rank A and 19 new rank B media were added to the media libraly.

[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

[Modification history]

Version 8
[R8]
- 3 new rank A and 1 new rank C media were added to the media list.
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Creative Papers":
  RE_00190, RE_00191
- Media name was corrected from "Creative Rives Dot" to " Rives Dot" for the
  following:
  RE_00190, RE_00191
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins Creative" to "Arjowiggins Creative
  Papers":
  RE_00157, RE_00158, RE_00173, RE_00174, RE_00256
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Graphic":
  RE_00223, RE_00224, RE_00261
- 3 new rank A media were added to the media libraly.

Version 7
[R7]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also

involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

Version 6
[R6]
- 8 new media were added to the media list under ST2 type.
- Media name was corrected from "CreatorStar" to "Creator Star" for the
  following:
  RE_00082, RE_00083, RE_00084, RE_00085
- Media name was corrected from "Colotec+" to "Colotech+" for the following:
  AP_00023

[R5]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment
- Coloured_paper_detection_lighting_mode_setting

Version 4
- The following media information was added:
  RE_00250, AP_00012, AP_00013, AP_00014, AP_00022, AP_00024,
  AP_00028, AP_00035
- The following media information was deleted:
  RE_00209, RE_00210

Symptoms Corrected:
- Japanese software keyboard appear when modify custom paper name.

Version 3
"High Quality entry" was added.
- The following media information was added:
  RE_00049, RE_00054, RE_00058, RE_00082, RE_00142, RE_00143,
  RE_00227, RE_00187, RE_00188
- RE_00094 was deleted.
-"Productivity" data was added to following paper
  RE_00187, RE_00188
- Remark *1 on thick paper was corrected.
- Fifty one paper information was added
- Information on the following media was corrected:
  RE_00204, RE_00235.

Version 2
1st Release

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/11/10
--------------------------------------------------------------------------
[Program Name] MediaLibAP5st AB
--------------------------------------------------------------------------
[Version] 11
--------------------------------------------------------------------------
[PCB No.] -
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------------
[Program category] Others
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945795_R11
[File Information]
 File Name        D1945795_R11.mqp
 File Type        Module for Service
 Size          0.33 MB ( 341463 byte )
 Check Sum -8Bit Sum: 7106
        -16Bit Sum(Little Endian): F3B5
        -16Bit Sum(Big Endian): 8351
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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

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



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

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

===
*** Modification History ***
===
[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R10]
- 38 new media were added to the media list. (19 new rank A, 19 new rank B)

[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

- The Media Library file, which used to be released separately for Clear toner and
  White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use, but installation to
  the Paper Library will only be necessary.
   Past modifications:
     - Clear toner: MediaLibCNcl AB ver.8 (RTB No. RD194069d)
     - White toner: MediaLibCNwh AB ver.8 (RTB No. RD194068d)

[Modification history]

```
============================================================================
*** Basic Information ***
============================================================================
[Create date] 2019/05/08
----------------------------------------------------------------------------
[Program Name] System/Copy
----------------------------------------------------------------------------
[Version] 3.17
----------------------------------------------------------------------------
[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.] D1955720W
[File Information]
 File Name         D1955720W.fwu
 File Type         Module for Service
 Size              21.50 MB ( 22547480 byte )
[File Information]
 File Name         D1955720W.rfu
 File Type         Module for Remote Upgrade
 Size              21.51 MB ( 22552832 byte )
[Availability of RFU] No
----------------------------------------------------------------------------
[Production reflection] 2019/04
----------------------------------------------------------------------------


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

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


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

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


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

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

Symptom corrected:
- Color shifts occur during the job and after process control.

Other changes:
- SC450-03 was added to notify anomalies of the PTR high voltage
  power supply PCB.
Note: This release takes effect with Engine firmware ver. 1.29:06 or later.
Make sure to update together as a set.

- The default values of the following SP were corrected in line with
  the addition of the new Neon Pink toner:
  - SP3-201-213 (TnrDensity Upper TC:Special Color3):
    9 -> 11
  - SP3-332-213 (M/A Calculation-Corrct Coef:Special Color3):
    1.00 -> 0.94
  - SP3-620-213 (ProCon Target M/A Plain:Maximum M/A:Special Color3):
    0.20 -> 0.39
  - SP3-630-213 (Dev gamma :Disp/Set Initial:Special Color3):
    1.00 -> 1.20
- For the support of the newly added specialty color Invisible Red,
  the following SP default values were changed.
  - SP3-201-214 (TnrDensity Upper TC: Special Color4) : "9" to "11"
  - SP3-332-214 (M/A Calculation Corrct Coef: Special Color4) : "1" to "1.06"
  - SP3-620-214 (ProCon Target M/A Plain: Maximum M/A: Special Color4) : "0.200" to "0.444"
  - SP3-630-214 (Dev gamma:Disp/Set Initial:Special Color4) : "1" to "1.2"

[Modification history]

Version 3.16
Rank C

Symptom corrected:
- A machine might freeze, when the copy is suspended by sample copy
  feature or pressing stop key under the conditions of auto color
  select, half folding, multiple copies, and duplex.

Version 3.15
Rank C

Symptom corrected:
- Printing does not resume even if the staples are refilled after they run out.
- When attempted to print from an external controller the operation panel
  displays "Printing" but the job does not get printed.

Version 3.14
Rank C

Symptom corrected:

- It takes time to login after authenticating the card.
- Pressing the Fiery button on the operation panel after powering on the machine
  does not display the "Please Wait" screen.
- SC899 occurs when printed a duplex job that exceeds the max allowable pages.

Other changes:
- The description of the fifth station was changed from "clear toner" to "special toner."

Version 3.13
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 v3.13 (D1955720R)
Network Support v14.68.1 (D1955730G)
Web Support v1.11 (D1955726L)
Scanner v02.04 (D1955725G)
OpePanel v2.07 (D1955729J)

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

Version 3.12
Symptom Corrected:
- If paper library data had been backed up and restored, a paper mismatch error
  may occur with jobs using custom paper.
- Auto Detect may falsely be applied to a job set with a specific custom size,
  disabling Prinect DFE's connection to the engine.
- Remaining printing time displayed is incorrect (e.g. 999min) for jobs printed
  from the document server.
- If an original jams in the sample copy of a stapled job, the first set is not
  printed out.
- If the Cover Interposer runs out of paper during the job and the tray is
  reloaded with paper but the paper size is not detected correctly due to poor
  set, the machine stalls when switching to the succeeding job.
- If a job is sent from the Fiery controller while the engine enters the energy
  saver mode, the engine does not wake up and the job is not run.
- SC994 occurs, if multiple application screens are opened.
- After entering the user code to start up the Copy application, the user code
  input screen does not disappear.
- When a job is suspended it may falsely get canceled and become unable to resume.
- Hard keys become ineffective on the Copy screen, if operated as follows:
  * Log in and copy either on the exposure glass or from ADF, or run a batch copy job.
  * Press the Stop key before the copies are delivered. Manually or automatically log out.
  * Log in again.

Version 3.11
- If printed from Prinect DFE after accessing the Adjustment Settings for

Operators/Skilled Operators menus, the system stalls displaying "Printing."

Version 3.10
Specification Change
1. Support of new special color

Note:
Make sure to update the below software as a set. Updating individually will mix
up the display of Clear and Special.
Firmware
- Engine: v1.19:06 or later
- System/Copy (Copier), System (Printer): v 3.10 or later
- Web Support: v1.09 or later
- OpePanel: v2.06 or later

Total Flow Print Server R-60A/R-61A
- Microcode: v2.2.003 or later
- Driver (Windows): v1.1.0.0 or later
- Driver (Mac): v 2.1.58 or later

For more detail about the new special color toner, please refer to RTB RD194151.

2. The default values of the following SP were corrected:

SP7-623-103
  Pro C7100S, ProC7100SX: 450000 -> 600000 page
  Pro C7110S, Pro C7110SX: 500000 -> 670000 page

SP7-940-103
  186000 -> 248000m

3. The minimum supported size for automatic duplex was reduced from 210mm to 200mm.
4. SC code of "Controller Box Ozone Collecting Fan error" was changed from
   SC570-06 to SC570-05.
5. Printer name for the Heidelberg model was changed from Linoprint to Versafire.
   For the Heidelberg model, make sure to update the Prinect DFE microcode to
   version 1.6.004 or later. (refer to relating RTB#RD194154)

Symptoms corrected:
1. The operation panel freezes, if searched for a custom paper that contains
   2 byte character in its name.
2. SC911-62 occurs and the communication with the engine disconnects, if the
   engine and TotalFlow Print Server R-61A are synchronized when the index width
   specified on the operation panel is exceeding the maximum width.
3. If a perfect bound job is printed from the Document Server, another perfect
   bound job cannot follow.
4. Fata Error occurs, if multiple jobs are run with the stacker shift tray assigned
   as the output tray on the TotalFlow Print Server R-61A and the output tray
   reaches full status.
5. SC990 may occur with models installed only with the platen cover without the ADF.
6. To prevent possible jams that occur with newly registered custom papers,
   changes were made to the following SP:

Change of default
 SP1-916-002
  2.27 -> 10.00

Newly added
 SP1-915-100: CIS Mode Setting [0 to 1/ 0/ 1]
 SP1-915-101: CIS Mode Setting [0 to 1/ 0/ 1]

Version 3.08
Specification change:
Improved usability of the IMSS functions
- In "Edit Custom Paper" settings, multiple papers can be selected
  for "Print the Settings" and "Delete."
- A new button "New Program" was added to enable easier registration of new paper.
- Numbers assigned for existing custom paper can be changed.
- Several terms used in the paper library were changed for better comprehensibility.
- Better display of search result of paper.

Improved usability of the "Adjustment Settings for Operators"
and "Adjustment Settings for Skilled Operators" menus
- Numeric keypad on the operation panel can be used to enter values.
- Changed the descriptions of several items in the menu.

Change in login/logout spec. See RTB No. RD194141 for detail.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- OpePanel firmware ver.2.05 or later
- Printer firmware ver.3.03 or later (if external controller is not used)
- Web Support firmware ver.1.08 or later
- WebUapl firmware ver.1.03 or later

Version 3.06
Specification change:

- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also
involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A

- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

The following SPs were added in line with this modification:

 SP1-109-001~051, SP1-110-001~051, SP1-125-001~051,
 SP1-126-001~051, SP1-127-001~051, SP1-128-001~051,
 SP1-967-001~051, SP1-980-001~051, SP1-981-001~051,
 SP1-984-001~051, SP1-986-001~051, SP1-990-001~051,
 SP1-991-001~051, SP1-996-001~051

- SP5-748-102 was added.
   0(default): Does not perform the following behavior (no different to
           the behavior before this SP was added)
  1: Allows access to the following menu screens when run on external
     controllers (Aldebaran, EFI Fiery)
    - Tray Paper Settings Screen
    - Adjustment Settings for Operators Screen
    - Adjustment Settings for Skilled Operators Screen

Symptom corrected:

- When scanning with "Hungarian" or "Polish" selected under "Cognitive Language"
  in "OCR Settings", if the value of a Unicode character exceeds 256, then the
  character will be converted to a question mark ("?").

This firmware is dependent on Scanner firmware v2.03 or later, so please be sure
to update it.

- Output image may appear abnormal when scanning certain originals in full color.

- An SC819 error might occur when using network-related functions, such as accessing
  Web Image Monitor.

- When the following settings are enabled, print jobs that have been conducted
  are not displayed on the job history screen:
    - On the operation panel: User Tools > Printer Features > System tab >

Store and Skip Errored Job
 - In Web Image Monitor: Device Management > Configuration > Printer >
   Basic Settings > Store and Skip Errored Job

This firmware is dependent on Web Support firmware v1.06 or later, so please
be sure to update it.

Version 3.05
Specification Change:
- Support of paper width 100mm-210mm feeding from the multi bypass banner
  sheet tray Type S3.

Symptom corrected:
- When scanning an original containing multiple pages with the Twain driver,
  error (code: 36856) occurs on the client PC and scan stops midway.
- In the latest jam history listed in the SMC, the paper weight information
  may be wrong.
- If an email sent by scan-to-email is opened in the Office 365 cloud mail
  service, contents of the attached file may falsely appear in the body of
  the message with the characters garbled.
- If toner runs out during a during duplex job and the system is run with
  an external controller, the operation panel will continue to display
  "printing" status and the job cannot be cancelled.

Version 3.04
Symptom corrected:
- Machine occasionally stalls when it receives a job and attempts to recover
  from the sleep mode (STR).

Version 3.03
Specification Change:
- "Paper Type Auto Identify" button was added to the Media Identification Unit
  setup screen:
      i)   Edit Custom Paper
      ii) Recall from Paper Library
      iii) Recall from Saved Paper Library
- PnP name was added for the Heidelberg model.

Error Correction:
- SC991 occurs when rebooting Total Flow Print Server R-60A
- Jam removal procedure shown on the operation panel is incorrect when jams
  occur with banner paper.
NOTE: The following firmware combinations are required for this release to
take effect.
- Engine: 1.10:06
- System/Copy: 3.03
- Animation: 2.00
- OpePanel: 2.03

Version 3.02
Specification Change
- Fan control was modified to prevent blurred images caused by ozone.

Error Correction
- SC545/565
- Counter does not count up correctly when switching to a new
  special color toner, causing toner near-end alert earlier than
  expected.
- SC670 when recovering from energy saving mode

Version 3.01
Specification Change:
Custom paper settings can be changed even if that paper has already
been assigned to a tray.

Error Correction:
If "Display" is selected under "Paper Confirmation for Bypass Tray,"
printing is available only in LEF.
(User Tool -> Printer Features -> System -> Tray Setting Priority ->
Paper Confirmation for Bypass Tray)

Version 3.00
Specification changes:
- Error message "Set OPC clean Unt/Wrong PCDU(K)" appears when a
  PCDU of a wrong color is installed.
- In the Tray Paper Settings menu, "Edit Custom Paper" button was
  changed to "Edit" and a new "Search" button was added next to the
  Edit button.

IMPORTANT: OpePanel firmware must be updated to Ver.2.02 for the
           above to take effect.

Symptoms corrected:
1. Disconnecting and reconnecting the USB cable disables the machine
   to detect Media Identification Unit Type S3 and USB key board.
2. User paper settings are applied without any alert messages when
   scanned with Media Identification Unit Type S3.
3. "Copy view" button is displayed on the "Adjustment Settings for
   Operators" menu screen.
4. Cannot return to the SP mode, if entered the copy application
   view from the SP mode with the "Copy view" button.
5. Copy job set with punch to the right is printed out face-up
   instead of face-down, if the job is run after the following job:
    - Copy/scan on contact glass
    - Face-up delivery
    - Punch

Error Correction:
Cannot enter the paper setting screen on the operation panel during
printing.

Change SP5748-102 from "0" to "1" for the solution to take effect.

Version 2.00
1st Mass production

==
*** Basic Information ***
==
[Create date] 2017/11/10

[Program Name] MediaLibCN4st AB

[Version] 11

[PCB No.] -

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Others

Exported to(language) GEN(all)
[Firmware No.] D1945796_R11
[File Information]
 File Name   D1945796_R11.mqp
 File Type   Module for Service
 Size   0.18 MB (188219 byte)
 Check Sum -8Bit Sum: 7CAD
        -16Bit Sum(Little Endian): E521
        -16Bit Sum(Big Endian): 448C
[Availability of RFU] No

[Production reflection]

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

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

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.


[R10]
- 19 new rank A and 19 new rank B media were added to the media libraly.


[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235
```

[Modification history]

Version 8
[R8]
- 3 new rank A and 1 new rank C media were added to the media list.
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Creative Papers":
  RE_00190, RE_00191
- Media name was corrected from "Creative Rives Dot" to " Rives Dot" for the
  following:
  RE_00190, RE_00191
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins Creative" to "Arjowiggins
  Creative Papers":
  RE_00157, RE_00158, RE_00173, RE_00174, RE_00256
- The media list was corrected as follows according to the correction of the
  vendor name of the media from "Arjowiggins" to "Arjowiggins Graphic":
  RE_00223, RE_00224, RE_00261
- 3 new rank A media were added to the media libraly.

Version 7
[R7]
Specification change:
- Setup location of the HQ mode was changed from Custom Paper Library to Driver/Utility.

For the above change to take effect, the following firmware, controller patches,
driver, and media library <u>must be updated together as a set</u>.
Make sure to refer to RTB No.RD194138 for the update procedure, which also

involves format conversion of the custom paper library.

Firmware
- Engine 1.17:06
- System/Copy or System v3.06
- Websys v1.06
- Printer v3.02
- OpePane v2.04

Controller patches
Fiery E-43A
- Fiery Patch FIT101135696
Fiery E-83A
- Fiery Patch FIT101135696
TotalFlow Print Server R-60A
- MicroCode v1.6.004

Driver
GW model
- PCL6 (Windows) v1.3
- PS3 (Windows) v1.4
- PCL6 for Universal Print (Windows) v4.10.0.0
- PS for Universal Print (Windows) v1.0.3
Fiery E-43A/83A
- PS3 (Windows) v1.0.2
- PS3 (Mac) v1.0.3
TotalFlow Print Server R-60A
- PS3 (Windows) v1.5.0.0
- PS3 (Mac) v1.0.56.0

Paper Library
- For China: Rev.7
- For RA: Rev.7
- For RE: Rev.9
- For RAC: Rev.9

- Paper Name and Vendor were changed from Pinyin to Chinese characters.

Version 6
[R6]
- 8 new media were added to the media list under ST2 type.
- Media name was corrected from "CreatorStar" to "Creator Star" for the
  following:
  RE_00082, RE_00083, RE_00084, RE_00085
- Media name was corrected from "Colotec+" to "Colotech+" for the following:
  AP_00023

[R5]
Luminance values were modified for the following media types:
light color, dark color, metallic, clear File Folder.
- Coloured_paper_edge_detection_adjustment

- Coloured_paper_detection_lighting_mode_setting

Version 4
- The following media information was added:
  AP_00012,AP_00013,AP_00014,AP_00022,AP_00024,AP_00028,AP_00035,
- The following media information was deleted:
  RE_00209,RE_00210
- Moses data was corrected for the following:
  RE_00250

Symptoms Corrected:
Display of paper names on the operation panel was changed from
simplified Chinese to Pinyin (alphabet) characters to prevent
character corruption.

Version 2
1st Release

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/11/10
-------------------------------------------------------------------------
[Program Name] MediaLibCN5st AB
-------------------------------------------------------------------------
[Version] 11
-------------------------------------------------------------------------
[PCB No.] -
-------------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------------
[Software category] Normal Release
-------------------------------------------------------------------------
[Release category] Normal Release
-------------------------------------------------------------------------
[Program category] Others
-------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1945797_R11
[File Information]
 File Name        D1945797_R11.mqp
 File Type        Module for Service
 Size          0.36 MB ( 373459 byte )
 Check Sum -8Bit Sum: 98EB
        -16Bit Sum(Little Endian): BDE9
        -16Bit Sum(Big Endian): C602
[Availability of RFU] No
-------------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------------


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

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



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

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

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

[Modifications made:]
[R11]
- To prevent jams, the default of "Paper Feed Position" of the Advanced Settings
  was changed from Low to High for Paper Weight 0~3 of all paper types.

[R10]
- 38 new media were added to the media list. (19 new rank A, 19 new rank B)

[R9]
- 7 new media were added to the media libraly.
- Index Shift Amount was corrected from "10" to "0" for the following:
  RE_00204, RE_00235
- Type was corrected from "0" to "10" for the following:
  RE_00204, RE_00235

- The Media Library file, which used to be released separately for Clear toner and
  White toner, has been integrated since this release.
  With the previous releases, users who use both Clear and White toner had to
  temporarily install the file to both "Paper Library" and "Saved Paper Library"
  and switch the file according to the special toner in use, but installation to
  the Paper Library will only be necessary.
   Past modifications:
    - Clear toner: MediaLibCNcl AB ver.8 (RTB No. RD194072d)
    - White toner: MediaLibCNwh AB ver.8 (RTB No. RD194071d)

[Modification history]

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/12/04
----------------------------------------------------------------
[Program Name] Java VM v12 std for eDC
----------------------------------------------------------------
[Version] 12.57.00
----------------------------------------------------------------
[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.] D1955732F_edc
[File Information]
 File Name        D1955732F_edc.ifu
 File Type        Module for Service
 Size             61.71 MB ( 64711792 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

==
[Modifications made:]
Symptom corrected:
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may
  not be able to start during the boot process due to a Java VM error.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager
  NX family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
   - Device Manager NX Enterprise fails to retrieve the information
     about the application(s) installed on the device.
   - GlobalScan NX fails to apply profiles or retrieve device
     information when using the AdminTool.
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
   - An SDK application is set as a priority function.
   - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.

[Modification history]

Version 12.46.01
Symptom corrected:
- Job cannot resume and the machine remains on-line, if paper near-
  end occurs while printing General format files.
- SC637 may occur, if the machine is shut down while printing.
- Sending fax from the document server using IPv4-mapped address may
  result in an error.
- An alert message unrelated to scan operation (for example, JAM)
  appears across the entire screen of the operation panel, disabling
  scan operation.
- Replacing with a new controller board installed with the latest
  Java VM version may disallow downgrading to previous version or
  retrieve customized version and cause trouble for users who wish
  to use specific or customized versions.
- If the "Chng Stgs" button is pressed after pressing the "Preview"
  button in ELP-NX, the "Change Print Settings" configuration may
  not be set correctly.
- After applying the security update that changes the priority order
  for cipher suites, SSL communication fails between an application
  that includes an SSL server function and the Windows operating system.
- When "Tracking Permission" and "Stop Printing" are enabled in
  "Enhanced Print Volume Limitation", processing of the job might fail.
- SDK application behavior may be incorrect or inconsistent.
  (CAP/ELP/SLNX/GSNX/etc.)

Both the Standard (Compatibility mode) application and the SOP
Optimized (Hybrid mode) application are affected by these issues.
- Cannot log in.
- Cannot scan.
- Cannot print.
- Error message appears.
etc.
- When conducting location-free printing or authentication processing
  by using a solution product, an SC899 error might occur or Java VM
  might close unexpectedly and an SC error related to Java VM not
  responding might occur.
- The DSDK application fails to connect to the LDAP server when
  using Kerberos authentication.

Version 12.15.03
Symptom corrected:
- If the firmware is updated remotely while the device is in energy
  saving mode, the SDK platform may not boot up.

Version 12.12.06
Symptom corrected:
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified size.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- Java VM may not start up correctly if the main power switch is
  turned OFF about three minutes after the "Success" banner is
  displayed following a successful update of the Java VM using the
  update tool.
- In the case that Streamline NX is installed (with the PKI module)
  on the following models, authentication may not be performed.
    - MP W7100/W8140/W6700
    - Pro C7100S/C7100SX
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.

Version 12.05.03

1st Mass production

```
==============================================================================
*** Basic Information ***
==============================================================================
[Create date] 2017/12/04
------------------------------------------------------------------------
[Program Name] Java VM v12 std UpdateTool
------------------------------------------------------------------------
[Version] 12.57.00
------------------------------------------------------------------------
[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.] D1955732F_upd
[File Information]
 File Name        D1955732F_upd.exe
 File Type        Module for Service
 Size            61.55 MB ( 64540941 byte )
 Check Sum -8Bit Sum: 2C0C
        -16Bit Sum(Little Endian): 08F5
        -16Bit Sum(Big Endian): 2F17
[Availability of RFU] No
------------------------------------------------------------------------
[Production reflection]
------------------------------------------------------------------------


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

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



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

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

==
*** Modification History ***
==
[Modifications made:]
Symptom corrected:
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may
  not be able to start during the boot process due to a Java VM error.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager
  NX family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
  - Device Manager NX Enterprise fails to retrieve the information
    about the application(s) installed on the device.
  - GlobalScan NX fails to apply profiles or retrieve device
    information when using the AdminTool.
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
  - An SDK application is set as a priority function.
  - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.

[Modification history]

Version 12.46.01
Symptom corrected:
- Job cannot resume and the machine remains on-line, if paper near-
  end occurs while printing General format files.
- SC637 may occur, if the machine is shut down while printing.
- Sending fax from the document server using IPv4-mapped address may
  result in an error.
- An alert message unrelated to scan operation (for example, JAM)
  appears across the entire screen of the operation panel, disabling
  scan operation.
- Replacing with a new controller board installed with the latest
  Java VM version may disallow downgrading to previous version or
  retrieve customized version and cause trouble for users who wish
  to use specific or customized versions.
- If the "Chng Stgs" button is pressed after pressing the "Preview"
  button in ELP-NX, the "Change Print Settings" configuration may
  not be set correctly.
- After applying the security update that changes the priority order
  for cipher suites, SSL communication fails between an application
  that includes an SSL server function and the Windows operating system.
- When "Tracking Permission" and "Stop Printing" are enabled in

"Enhanced Print Volume Limitation", processing of the job might fail.
- SDK application behavior may be incorrect or inconsistent.
  (CAP/ELP/SLNX/GSNX/etc.)
  Both the Standard (Compatibility mode) application and the SOP
  Optimized (Hybrid mode) application are affected by these issues.
  - Cannot log in.
  - Cannot scan.
  - Cannot print.
  - Error message appears.
  etc.
- When conducting location-free printing or authentication processing
  by using a solution product, an SC899 error might occur or Java VM
  might close unexpectedly and an SC error related to Java VM not
  responding might occur.
- The DSDK application fails to connect to the LDAP server when
  using Kerberos authentication.

Version 12.15.03
Symptom corrected:
- If the firmware is updated remotely while the device is in energy
  saving mode, the SDK platform may not boot up.

Version 12.12.06
Symptom corrected:
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified size.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- Java VM may not start up correctly if the main power switch is
  turned OFF about three minutes after the "Success" banner is
  displayed following a successful update of the Java VM using the
  update tool.
- In the case that Streamline NX is installed (with the PKI module)
  on the following models, authentication may not be performed.
    - MP W7100/W8140/W6700
    - Pro C7100S/C7100SX
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.

Version 12.05.03
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/12/04
----------------------------------------------------------------
[Program Name] Java VM v12 std for eDC
----------------------------------------------------------------
[Version] 12.57.00
----------------------------------------------------------------
[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.] M1965731F_edc
[File Information]
 File Name        M1965731F_edc.ifu
 File Type        Module for Service
 Size          61.71 MB ( 64711792 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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


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

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


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

==
[Modifications made:]
Symptom corrected:
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may
  not be able to start during the boot process due to a Java VM error.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager
  NX family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
   - Device Manager NX Enterprise fails to retrieve the information
     about the application(s) installed on the device.
   - GlobalScan NX fails to apply profiles or retrieve device
     information when using the AdminTool.
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
   - An SDK application is set as a priority function.
   - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.

[Modification history]

Version 12.46.01
Symptom corrected:
- Job cannot resume and the machine remains on-line, if paper near-
  end occurs while printing General format files.
- SC637 may occur, if the machine is shut down while printing.
- Sending fax from the document server using IPv4-mapped address may
  result in an error.
- Replacing with a new controller board installed with the latest
  Java VM version may disallow downgrading to previous version or
  retrieve customized version and cause trouble for users who wish
  to use specific or customized versions.
- If the "Chng Stgs" button is pressed after pressing the "Preview"
  button in ELP-NX, the "Change Print Settings" configuration may
  not be set correctly.
- After applying the security update that changes the priority order
  for cipher suites, SSL communication fails between an application
  that includes an SSL server function and the Windows operating system.
- When "Tracking Permission" and "Stop Printing" are enabled in
  "Enhanced Print Volume Limitation", processing of the job might fail.
- SDK application behavior may be incorrect or inconsistent.
  (CAP/ELP/SLNX/GSNX/etc.)
  Both the Standard (Compatibility mode) application and the SOP
  Optimized (Hybrid mode) application are affected by these issues.
   - Cannot log in.

- Cannot scan.
  - Cannot print.
  - Error message appears.
  etc.
- When conducting location-free printing or authentication processing
  by using a solution product, an SC899 error might occur or Java VM
  might close unexpectedly and an SC error related to Java VM not
  responding might occur.
- The DSDK application fails to connect to the LDAP server when using
  Kerberos authentication.

Version 12.15.03
Symptom corrected:
- If the firmware is updated remotely while the device is in energy
  saving mode, the SDK platform may not boot up.

Version 12.12.06
Symptom corrected:
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified size.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- Java VM may not start up correctly if the main power switch is
  turned OFF about three minutes after the "Success" banner is
  displayed following a successful update of the Java VM using the
  update tool.
- In the case that Streamline NX is installed (with the PKI module)
  on the following models, authentication may not be performed.
    - MP W7100/W8140/W6700
    - Pro C7100S/C7100SX
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.

Version 12.05.03
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/12/04
----------------------------------------------------------------
[Program Name] Java VM v12 std UpdateTool
----------------------------------------------------------------
[Version] 12.57.00
----------------------------------------------------------------
[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.] M1965731F_upd
[File Information]
 File Name        M1965731F_upd.exe
 File Type        Module for Service
 Size          61.55 MB ( 64540942 byte )
 Check Sum -8Bit Sum: 6305
        -16Bit Sum(Little Endian): C20E
        -16Bit Sum(Big Endian): A5F7
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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*** Modification History ***
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[Modifications made:]
Symptom corrected:
- SDK applications (e.g. Streamline NX, GlobalScan NX, CAP/ELP) may
  not be able to start during the boot process due to a Java VM error.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager
  NX family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
   - Device Manager NX Enterprise fails to retrieve the information
     about the application(s) installed on the device.
   - GlobalScan NX fails to apply profiles or retrieve device
     information when using the AdminTool.
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
   - An SDK application is set as a priority function.
   - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- FAX cannot be transmitted if CAP v2 is installed.
- The wrong JavaVM firmware can be mistakenly installed on any machine,
  possibly leading to unexpected errors occurring with JavaVM or
  bootup failing.
- The printing speed is not as fast as the past model if CAP V2 is installed.


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[Modification history]
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Version 12.46.01
Symptom corrected:
- Job cannot resume and the machine remains on-line, if paper near-
  end occurs while printing General format files.
- SC637 may occur, if the machine is shut down while printing.
- Sending fax from the document server using IPv4-mapped address may
  result in an error.
- Replacing with a new controller board installed with the latest
  Java VM version may disallow downgrading to previous version or
  retrieve customized version and cause trouble for users who wish
  to use specific or customized versions.
- If the "Chng Stgs" button is pressed after pressing the "Preview"
  button in ELP-NX, the "Change Print Settings" configuration may
  not be set correctly.
- After applying the security update that changes the priority order
  for cipher suites, SSL communication fails between an application
  that includes an SSL server function and the Windows operating system.
- When "Tracking Permission" and "Stop Printing" are enabled in
  "Enhanced Print Volume Limitation", processing of the job might fail.
- SDK application behavior may be incorrect or inconsistent.
  (CAP/ELP/SLNX/GSNX/etc.)
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Both the Standard (Compatibility mode) application and the SOP
Optimized (Hybrid mode) application are affected by these issues.
- Cannot log in.
- Cannot scan.
- Cannot print.
- Error message appears.
etc.
- When conducting location-free printing or authentication processing
  by using a solution product, an SC899 error might occur or Java VM
  might close unexpectedly and an SC error related to Java VM not
  responding might occur.
- The DSDK application fails to connect to the LDAP server when
  using Kerberos authentication.

Version 12.15.03
Symptom corrected:
- If the firmware is updated remotely while the device is in energy
  saving mode, the SDK platform may not boot up.

Version 12.12.06
Symptom corrected:
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified size.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- Java VM may not start up correctly if the main power switch is
  turned OFF about three minutes after the "Success" banner is
  displayed following a successful update of the Java VM using the
  update tool.
- In the case that Streamline NX is installed (with the PKI module)
  on the following models, authentication may not be performed.
    - MP W7100/W8140/W6700
    - Pro C7100S/C7100SX
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.

Version 12.05.03

1st Mass production

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================================================================
*** Basic Information ***
================================================================
[Create date] 2019/04/19
----------------------------------------------------------------
[Program Name] Network Support
----------------------------------------------------------------
[Version] 14.70
----------------------------------------------------------------
[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.] M1965729J
[File Information]
 File Name       M1965729J.fwu
 File Type       Module for Service
 Size          9.54 MB ( 9998860 byte )
[File Information]
 File Name       M1965729J.rfu
 File Type       Module for Remote Upgrade
 Size          9.54 MB ( 10006784 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection] 2019/04
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*** Note ***
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[Note]

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

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

Symptom corrected:
- There is a probability (1/256) that the SSL connection to the
  device will fail if the connecting component doesn't have a
  process to retry the SSL connection.

[Modification history]

Version 14.69
Rank C

Symptom corrected:
- SC819 might occur after ARFU or RFU.
- If the device has not being used a significant amount of times,
  functions that require a network connection might fail.

Version 14.68
Rank C

Symptom corrected:
- When the device is in Energy Saver Mode, if information about the network
  interface for the device is being obtained from the SNMP Manager application,
  nonexistent errors are recorded in the system logs.

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

Version 14.67
Symptom Corrected:
- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active",
  authentication will fail.

Version 14.66
Other changes:
- Changed the DH key specification to use 2,048 bits instead of 512 bits
  to prevent the Logjam vulnerability (CVE-2015-4000).
  In addition, by modifying this specification, SSL/TLS communication can be
  established when using Mac OS X 10.10.4 and iOS 8.4.

Version 14.65
 Symptom corrected:
Minor bug correction.

Version 14.64
1st mass production