```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/11/11
--------------------------------------------------------------------
[Program Name] BOS_1/6
--------------------------------------------------------------------
[Version] 123.19.050_v2.13.001
--------------------------------------------------------------------
[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.] M5075000M_1
[File Information]
 File Name        M5075000M_1.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: CDFE
         -16Bit Sum(Little Endian): 561C
         -16Bit Sum(Big Endian): 75E2
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version 123.19.050_v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version 123.19.050_v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 123.19.050_v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 123.19.050_v2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
    - Input of device link profile
    - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 123.19.048_v2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
        First job: 1-page punch job
        Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
    is enabled:
        - Product logo does not appear on the local console login screen.
        - The same user name is registered repeatedly every time when logged in
          by the default user.

- The default user name does not appear under the ID drop-down list when attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running, resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 123.19.048_v2.05.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that for PDF jobs; priority is given to output profiles associated with media included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version 123.19.048_v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when processing using a base profile and the following settings:
    - Black (text/line art) in pure black
    - Preserve pure black
    - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on

the DFE Console, a program check error occurs and displays a warning message
"invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
    displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version 123.19.048_v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version 123.19.048_v2.03.009
BOS
Same as previously released ones.

MICOROCODE
Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page counter display stalls at page 999.

Version 123.19.048_v2.02.003
BOS
Same as previously released ones.

MICOROCODE
Version v2.02.003

Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or specified on the console or the control panel or the driver of R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will mix up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version 123.19.048_v2.01.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/11/11
----------------------------------------------------------------
[Program Name] BOS_2/6
----------------------------------------------------------------
[Version] 123.19.050_v2.13.001
----------------------------------------------------------------
[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.] M5075000M_2
[File Information]
 File Name        M5075000M_2.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size            800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: 55D4
         -16Bit Sum(Little Endian): 4068
         -16Bit Sum(Big Endian): E96C
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version 123.19.050_v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version 123.19.050_v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 123.19.050_v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 123.19.050_v2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
    - Input of device link profile
    - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 123.19.048_v2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
   function.
2. Output tray for proof prints can be switched from the finisher proof tray to
   the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
   of paper while running the second job, the job is falsely applied with the
   punch option after resuming:
     First job: 1-page punch job
     Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
   is enabled:
     - Product logo does not appear on the local console login screen.
     - The same user name is registered repeatedly every time when logged in
       by the default user.

- The default user name does not appear under the ID drop-down list when attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running, resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 123.19.048_v2.05.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that for PDF jobs; priority is given to output profiles associated with media included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version 123.19.048_v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on the DFE Console, a program check error occurs and displays a warning message

"invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
     - fatal error
     - side id 397 freed...
     - Errorjmdb_getJobList;rc=3;prtr=1
     - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
    displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version 123.19.048_v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version 123.19.048_v2.03.009
BOS
Same as previously released ones.

MICOROCODE
Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page counter display stalls at page 999.

Version 123.19.048_v2.02.003
BOS
Same as previously released ones.

MICOROCODE
Version v2.02.003

Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or specified on the console or the control panel or the driver of R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will mix up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version 123.19.048_v2.01.003
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/11/11
--------------------------------------------------------------------------
[Program Name] BOS_3/6
--------------------------------------------------------------------------
[Version] 123.19.050_v2.13.001
--------------------------------------------------------------------------
[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.] M5075000M_3
[File Information]
 File Name        M5075000M_3.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: 92EE
         -16Bit Sum(Little Endian): 0433
         -16Bit Sum(Big Endian): 7CBB
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version 123.19.050_v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version 123.19.050_v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 123.19.050_v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 123.19.050_v2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
    - Input of device link profile
    - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 123.19.048_v2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
        First job: 1-page punch job
        Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
    is enabled:
        - Product logo does not appear on the local console login screen.
        - The same user name is registered repeatedly every time when logged in
          by the default user.

- The default user name does not appear under the ID drop-down list when attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running, resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 123.19.048_v2.05.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that for PDF jobs; priority is given to output profiles associated with media included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version 123.19.048_v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when processing using a base profile and the following settings:
    - Black (text/line art) in pure black
    - Preserve pure black
    - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on

the DFE Console, a program check error occurs and displays a warning message
"invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
   of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
   printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
   list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
   printing stops with an SC919.
16. Punch jobs may result in the following errors:
   - fatal error
   - side id 397 freed...
   - Errorjmdb_getJobList;rc=3;prtr=1
   - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
   displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version 123.19.048_v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version 123.19.048_v2.03.009
BOS
Same as previously released ones.

MICOROCODE

Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom
   paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version 123.19.048_v2.02.003
BOS
Same as previously released ones.

MICOROCODE
Version v2.02.003

Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will mix
   up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version 123.19.048_v2.01.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/11/11
----------------------------------------------------------------
[Program Name] BOS_4/6
----------------------------------------------------------------
[Version] 123.19.050_v2.13.001
----------------------------------------------------------------
[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.] M5075000M_4
[File Information]
 File Name        M5075000M_4.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: CFC3
        -16Bit Sum(Little Endian): 00E4
        -16Bit Sum(Big Endian): 91DF
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version 123.19.050_v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version 123.19.050_v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 123.19.050_v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 123.19.050_v2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
   - Input of device link profile
   - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 123.19.048_v2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
       First job: 1-page punch job
       Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
    is enabled:
       - Product logo does not appear on the local console login screen.
       - The same user name is registered repeatedly every time when logged in
         by the default user.

- The default user name does not appear under the ID drop-down list when attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running, resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 123.19.048_v2.05.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that for PDF jobs; priority is given to output profiles associated with media included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version 123.19.048_v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when processing using a base profile and the following settings:
    - Black (text/line art) in pure black
    - Preserve pure black
    - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.

8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
    displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version 123.19.048_v2.04.016
Version 123.19.048_v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version 123.19.048_v2.03.009
BOS
Same as previously released ones.

MICOROCODE
Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom
   paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version 123.19.048_v2.02.003
BOS
Same as previously released ones.

MICOROCODE
Version v2.02.003

Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."
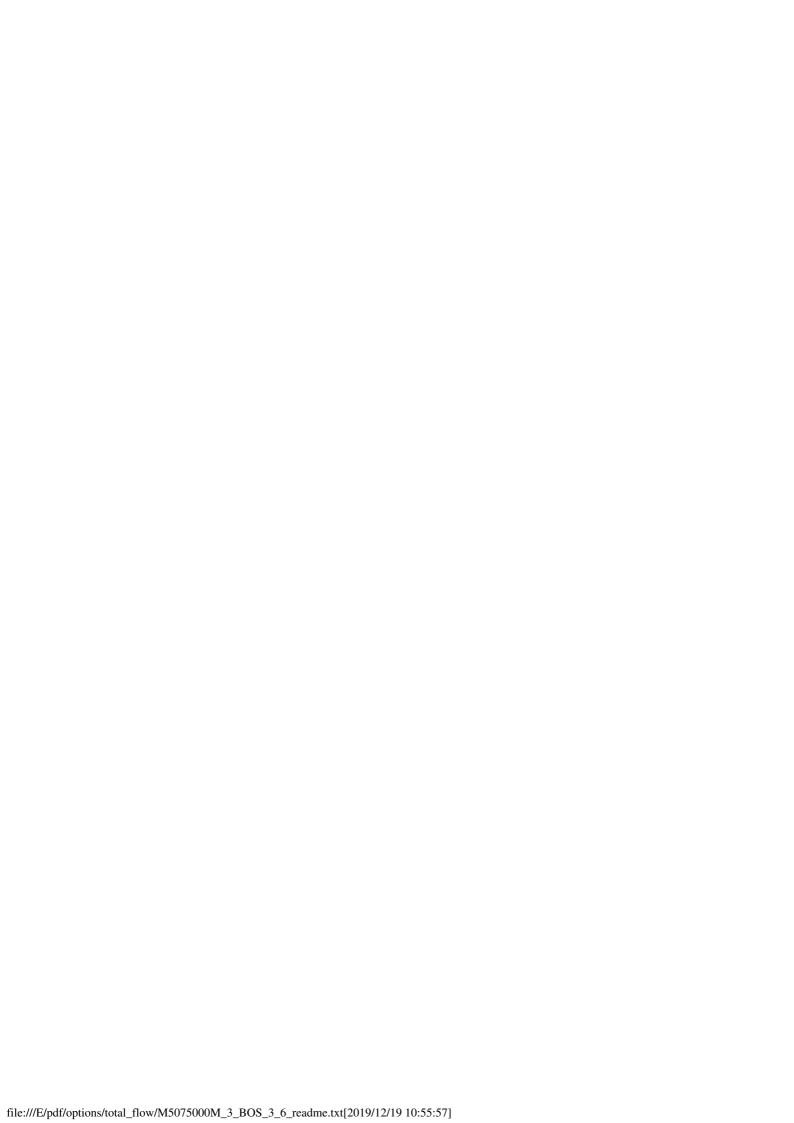
   Note:
   Make sure to update the below software as a set. Updating individually will mix
   up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - Engine: v1.19:06 or later
     - System/Copy (Copier), System (Printer): v 3.10 or later
     - Web Support: v1.09 or later
     - OpePanel: v2.06 or later

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version 123.19.048_v2.01.003
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/11/11
--------------------------------------------------------------------
[Program Name] BOS_5/6
--------------------------------------------------------------------
[Version] 123.19.050_v2.13.001
--------------------------------------------------------------------
[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.] M5075000M_5
[File Information]
 File Name        M5075000M_5.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size            800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: 1000
         -16Bit Sum(Little Endian): 7B32
         -16Bit Sum(Big Endian): 94CE
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version 123.19.050_v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version 123.19.050_v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 123.19.050_v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 123.19.050_v2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
  - Input of device link profile
  - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 123.19.048_v2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
   function.
2. Output tray for proof prints can be switched from the finisher proof tray to
   the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
   of paper while running the second job, the job is falsely applied with the
   punch option after resuming:
       First job: 1-page punch job
       Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
   is enabled:
       - Product logo does not appear on the local console login screen.
       - The same user name is registered repeatedly every time when logged in
         by the default user.

- The default user name does not appear under the ID drop-down list when
    attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
   microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
   job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
   resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 123.19.048_v2.05.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned
   to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version 123.19.048_v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on

the DFE Console, a program check error occurs and displays a warning message "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version 123.19.048_v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages that go through the duplex path instead of the simplex path was increased from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version 123.19.048_v2.03.009
BOS
Same as previously released ones.

MICOROCODE

Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom
   paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version 123.19.048_v2.02.003
BOS
Same as previously released ones.

MICOROCODE
Version v2.02.003

Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will mix
   up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version 123.19.048_v2.01.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/11/11
----------------------------------------------------------------
[Program Name] BOS_6/6
----------------------------------------------------------------
[Version] 123.19.050_v2.13.001
----------------------------------------------------------------
[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.] M5075000M_6
[File Information]
 File Name        M5075000M_6.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size           34.81 MB ( 36496898 byte )
 Check Sum -8Bit Sum: E787
        -16Bit Sum(Little Endian): B357
        -16Bit Sum(Big Endian): BB30
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version 123.19.050_v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version 123.19.050_v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 123.19.050_v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 123.19.050_v2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
   - Input of device link profile
   - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 123.19.048_v2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
   function.
2. Output tray for proof prints can be switched from the finisher proof tray to
   the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
   of paper while running the second job, the job is falsely applied with the
   punch option after resuming:
      First job: 1-page punch job
      Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
   is enabled:
      - Product logo does not appear on the local console login screen.
      - The same user name is registered repeatedly every time when logged in
       by the default user.

      - The default user name does not appear under the ID drop-down list when
        attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
   microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
   job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
   resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 123.19.048_v2.05.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned
   to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version 123.19.048_v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.

8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on the DFE Console, a program check error occurs and displays a warning message "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version 123.19.048_v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages that go through the duplex path instead of the simplex path was increased from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version 123.19.048_v2.03.009
BOS
Same as previously released ones.

MICOROCODE
Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom
   paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version 123.19.048_v2.02.003
BOS
Same as previously released ones.

MICOROCODE
Version v2.02.003

Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will mix
   up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version 123.19.048_v2.01.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/09/01
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] 2.5.003
----------------------------------------------------------------
[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.] M2735012
[File Information]
 File Name        M2735012.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size            1,471.78 MB ( 1543271306 byte )
 Check Sum -8Bit Sum: B563
         -16Bit Sum(Little Endian): B214
         -16Bit Sum(Big Endian): 664F
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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

M2735012_readme.txt[2017/09/04 15:24:27]

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

[Modifications made:]
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned
   to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

```
-------------------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
      - Black (text/line art) in pure black
      - Preserve pure black
      - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to
   a jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs)
   on the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number

of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.02.003
Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."
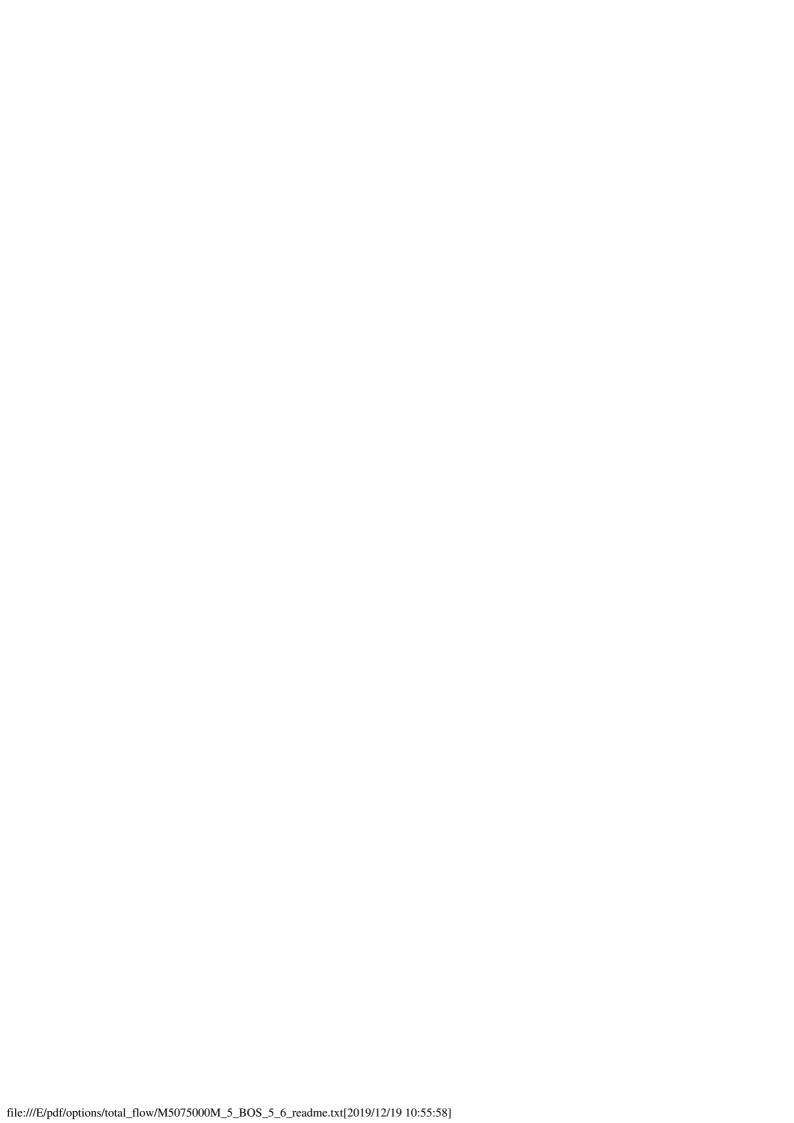
   Note:
   Make sure to update the below software as a set. Updating individually will mix up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
    - Engine: v1.19:06 or later
    - System/Copy (Copier), System (Printer): v 3.10 or later
    - Web Support: v1.09 or later
    - OpePanel: v2.06 or later

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version v1.6.004
1. Fatal Error occurs when a jammed paper is removed in an IPDS job.
2. Submitting a job from Prinect does not recover the engine from energy saver mode (STR).
3. Printing takes longer than expected with jobs sorted Reverse Order/Face-Up.
4. If printing is stopped and then resumed, the number of sheets printed out

is incorrect.
5. Horizontal lines contained in the data are not printed, but an error is not
   displayed.
6. SC919 occurs because an adequate process time is not allocated for the module.
7. K90% printed in grayscale data is paler than expected, if the following Color
   settings are set.
   Color/Black and white: Black and white, Input Profile: Pass through
8. Fatal error occurs, if the Email notification contains a message over
   255 bytes.
9. Printing a PDF file with APPE enabled may result in an error, if CPSI
   is disabled.

Specification change:
"Fuser setting" function was added.
The "Fuser setting" function is purposed to specify the desired image quality
of jobs printed in clear toner. The options available for this function are
"Standard" and "High quality."
The function can be accessed from "Job property" Priority is given to image
quality when "High quality" is selected with a trade-off in productivity.

NOTE: Update of the engine firmware is required to use this function.

Version v1.5.001
1. Updating the microcode causes the calibration data to return to default
   (Plain Japan).
2. If changes are made to a paper catalog associated to a tray before
   loading the calibration data, fatal error occurs during calibration.
3. Productivity is low with jobs consisted of 100 pages and printed on
   heavy weight A3 paper.
4. If tray empty error occurs during sample print and then the tray is
   loaded with paper, sample print does not resume.
5. If color calibration is performed on a paper weight 6 or heavier,
   an error message appears indicating that the paper cannot be printed
   out to the designated output tray and fails to print.
6. On the Prinect model, the DFE appears to be stalling when in
   "Preprocessing state".
7. When configuring a new preset in the virtual printer job properties,
   message "Ricoh not loaded" appears.
8. The following message appears, if the DFE and engine is offline and
   the paper tray setting is changed to banner:
   "Additional Data: Bad ConfigResult(2) when copying into:
   manualTrays.paperSize"
9. If a sample print is made during the job from the engine operation panel,
   an error message appears indicating that there are no pages available
   for sample print after completing the job.
10. If a hard abort occurs, the DFE cannot be rebooted from the engine
    operation panel.
11. Part of the image is missing, if printed duplex PS/PDF jobs.
12. SC844-04 or hard abort occurs when attempted to print a job on the
    Printect model.
13. On the Prinect model, fatal error occurs when restoring previous
    print settings from the engine operation panel.
14. Media catalog mismatch error message appears when rebooting.

15. Activation of the DFE stops midway.
16. Deleting a calibration data from the Prinect DFE causes to run
    a program check.
17. After completing an IPDS job, error page is printed to indicate
    a jam occurrence even if a jam had not occurred.
18. Fatal error occurs, if a TIFF file is displayed in the preview screen.
19. When running a job consisted of more than 500 pages, the DFE reboots
    after printing approximately 100 pages followed by a communication
    error between the DFE and engine.
20. Fatal error occurs, if PDF is printed via hot folder.
21. SC844-04, SC161-06, SC 919-00 (cache memory limit error) occurs after
    updating to microcode to v1.4.006.

Version v1.4.002
1. If a PDF job is sent to the Process & Hold or Process & Print queue,
   the controller runs out of memory after processing about 200k pages
   followed by a Hard Abort.
2. Associating a paper catalog created on local/remote console to a tray
   from the engine operation panel causes a Fatal Error.
3. USB connection is not detected, if the USB device is unplugged from a
   port on the controller and connected to another port on that controller.
4. Creating a banner paper entry in paper catalog for a printer configured
   without the banner printing option and enabling "2 Sided (duplex)" on
   the controller causes a Fatal Error.
5. Fatal Error occurs when attempted to recover from a paper mismatch by
   re-selecting the paper on the engine operation panel and pressing the
   Resume button.
6. Program check runs, if the controller has been rebooted after making paper
   tray settings.
7. Printer may stall, if cancelling a PDF job sent to the Print and Store queue.
8. Running a job in the Surface Mode on the HDM model causes a Fatal Error.
9. Printing 85 copies of a 90 page file causes a Fatal Error after making
   10 copies.
10. When attempted to make 4762 copies of a job sent from Prinect,
    the controller stalls after making 436 copies.
11. Printing a PS B&W job from the virtual printer causes a Fatal Error.
12. Printing more than 5 copies in Banner Mode causes a Fatal Error.
13. Offset value defined in the Media Catalog is not honored.
14. The controller reboots, if a jam occurs in the bypass tray.
15. PS error occurs while RIPping, if the PS file contains unsupported commands.
16. For jobs printed from Prinergy, the job file size indicated on the POD
    is smaller than the actual size.
17. The controller stalls, if attempted to print a calibration page while
    the engine is asleep.

Version v1.3.003
1. Warning message appears when opening job properties of jobs submitted
   from Prinergy.
2. SC919 occurs while printing followed by a reboot because the time-out
   set for communication between the DFE and GW is too short.

3. DFE stalls, if importing ICC color profiles that contain 2-byte characters
   in the name.
4. DFE may reboot while printing PDF files. (DPM issue)
5. Files RIPped with previous microcode versions can be falsely printed.
6. Support of Windows 10

Version v1.2.003
1. Changing the time zone in Windows VM enforces two reboots.
2. VM does not activate, if BOS and VM image are reinstalled.
3. Orientation is incorrect on the back side of duplex when imposed.
4. Cannot print 13x19 size jobs.
5. The displayed job size is incorrect for jobs submitted from Prinergy.
6. Error (SC919) occurs while printing followed by a reboot.
7. Importing a color profile that contains 2-byte character in its name
   causes the DFE to hang.

Version v1.2.002
1. The Overprint function does not work properly.
2. Supports the i1 Profiler v1 and i1 Profiler v2 text format data.

Version v1.2.001
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/07/10
--------------------------------------------------------------------
[Program Name] MICROCODE
--------------------------------------------------------------------
[Version] 2.08.009
--------------------------------------------------------------------
[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.] M5075059
[File Information]
 File Name        M5075059.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size            1,415.44 MB ( 1484197238 byte )
 Check Sum -8Bit Sum: 8A93
         -16Bit Sum(Little Endian): 9045
         -16Bit Sum(Big Endian): 8D4E
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


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

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



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

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

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

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
    - Input of device link profile
    - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.


--------------------------------------------------------------------------
[Modification history]
------------------------------------------
Version 2.7.001
Rank C

Supported:
1. IOCA parameters are overwritten with JPEG parameters when IOCA parameters
   contained in IPDS jobs generated by a third party vendor applications are enabled.
2. Supported the color management functions available in SCREEN host application (EQUIOS).
3. Disabled the color space for blending to prevent tone jumps.


Symptoms corrected:
1. A4 size test charts for the Media Management Tool are printed larger than expected,
   if printed using SRA3.
2. Hard abort may occur when continuously printing JMF files that contain return JMF
   commands.
3. Fonts that can be printed in PDF/ASCII cannot be printed in IPDS.
4. Error message "There is not enough free space available." appears when attempted
   to back up files with insufficient storage in the USB.
5. Fatal error occurs due to CPSI memory leak when continuously printed for more
   than approximately 16 hours.
6. Hard abort (signal 9) occurs when printing JMF to the DFE.
7. Fatal error occurs when printing AFP data that contain TIFF files created with
   the wrong format.
8. The same job may falsely be repeated.
9. May fail to print the Printer Configuration sheet.
10. The screen turns white when changing the language setting of the DFE.
11. The following program check runs when opening JTE (Job Ticket Editor) and
    pressing OK without making any changes:
    --------------------------------
    Source: 172
    Id: 1
    Name: GetPlex
    Additional Data: GetValue for JTA_DUPLEX
```

```
    failed
    -------------------------------
```

Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
        First job: 1-page punch job
        Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
    is enabled:
        - Product logo does not appear on the local console login screen.
        - The same user name is registered repeatedly every time when logged in
          by the default user.
        - The default user name does not appear under the ID drop-down list when
          attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
    microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
    job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
    resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer

is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to
   a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
     - fatal error
     - side id 397 freed...
     - Errorjmdb_getJobList;rc=3;prtr=1
     - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
    displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version v2.03.009
1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a
   custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version v2.02.003
Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

Note:
Make sure to update the below software as a set. Updating individually will
mix up the display of Clear and Special.
For more detail about the new special color toner, please refer to RTB RD194151.
  - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version v2.01.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/08/27
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] v2.8.015
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Special Modification
----------------------------------------------------------------
[Release category] Temporary Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075059_PR208015
[File Information]
 File Name        M5075059_PR208015.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,414.39 MB ( 1483097336 byte )
 Check Sum -8Bit Sum: 65DD
         -16Bit Sum(Little Endian): 91FD
         -16Bit Sum(Big Endian): B0E0
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]
Temporary Microcode based on version v2.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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


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

[Important Notes]

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

Symptom corrected:
Symptom:
- Intermittently display Fatal error Source 5002 when printing the
  job using the halftone screen.
- When printing the job which is odd number of pages with duplex and
  one copy, the printer panel shows the number of copy as "2".
- The Copy count on the printer panel returns to '0' if the paper
  setting of input tray is changed during printing a job.

[Modification history]

Version v2.8.013
Rank C

Symptom corrected:
Symptom:
- SC694-01 error with booting up or recovery from energy saver mode.
- The number of copies shows incorrectly on the printer panel.
- IPDS(x'023C') error occurred when the specific font was used.
- The calibration in user custom paper becomes blank or back to
  default when assigning to input tray by Media Management Tool.

Version v2.7.022
Rank C

Symptom corrected:
Symptom:
Restore failed with error("Unable to communicate with the DFE").

Version v2.7.018
Rank C

Symptom corrected:
Symptom:
- Fatal Error during IPDS printing with certain Type 1 font which
  has unusually large "/Copyright" description.
- Hard to see whether Sample print function is enabled or not on the

printer panel.

Version v2.7.012
Rank C

Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
A fatal error occurred after a paper jam.
Program Check error occurred during calibration.

Version v2.6.015
Rank C

Symptom corrected:
Symptom:
- SC 844 error occurred after updating Microcode to v2.5.xxx.

See Modification history of official release (v2.6.011).

Version v2.6.011
Rank C

Symptom corrected:
Symptom:
- Job printed again after completing printout.
- When selecting SRA3 as the paper size of Test chart on Media Management Tool,
  A4 chart image is scaled to fit on SRA3 paper.
- Fatal error(Source: 62) randomly occurred.

See Modification history of official release (v2.6.008).

==
*** Basic Information ***
==
[Create date] 2018/07/10

[Program Name] MICROCODE

[Version] 2.08.009

[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.] M5075059H
[File Information]
 File Name   M5075059H.exe
 File Type   Module for Service(Over 1GByte File .zip/.exe)
 Size   1,415.44 MB (1484197238 byte)
 Check Sum -8Bit Sum: 8A93
        -16Bit Sum(Little Endian): 9045
        -16Bit Sum(Big Endian): 8D4E
[Availability of RFU] No

[Production reflection]

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

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

M5075059H_readme.txt[2018/08/06 14:34:58]

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

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
   - Input of device link profile
   - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.


```
--------------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
       First job: 1-page punch job
       Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
    is enabled:
      - Product logo does not appear on the local console login screen.
      - The same user name is registered repeatedly every time when logged in by
        the default user.
      - The default user name does not appear under the ID drop-down list when
        attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
    microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
    job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
    resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned
   to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be

printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages,
    the DFE displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs
   that contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version v2.03.009
1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.

6. Sample print to the stacker proof tray is not possible, if printed on a
   custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version v2.02.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/04/03
----------------------------------------------------------------
[Program Name] Scanner
----------------------------------------------------------------
[Version] 01.08
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D0AD5560H
[File Information]
 File Name        D0AD5560H.fwu
 File Type        Module for Service
 Size          5.33 MB ( 5589264 byte )
[File Information]
 File Name        D0AD5560H.rfu
 File Type        Module for Remote Upgrade
 Size          5.34 MB ( 5595392 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2019/04
----------------------------------------------------------------


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

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


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

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


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

==
[Modifications made:]
Rank C

Symptom corrected:
- An error might occur when sending mail if the billing code is used
  with the Card Authentication Package v2.

[Modification history]

Version 01.07
Rank C

Other changes:
- Supported RICOH SmartSDK v2.60.

Version 01.06
Rank C

Symptom corrected:
- User and SP settings information in the Legacy copy application
  and the Legacy scanner application might be cleared after version
  up or down to specific firmware version.

Version 01.05
Rank C
Symptom corrected:
- The following bug was fixed again:
  When the device is accessed from Web Image Monitor just before
  scanning is finished under the following conditions, the device
  cannot be logged out from even if "Logout" is pressed, and then
  the Scanner application cannot be used:
   - When user authentication is enabled.
   - When custom authentication, such as Card Authentication Package, is being used.
- In a device not equipped with the ADF, if the document size is
  detected automatically and the TWAIN driver is used for scanning,
  the device will freeze.
- When SP5-836-143 is enabled, the combination of "Black and White"
  and "High Compression PDF" can be selected even though it should not be selectable.
- If the log capture function is enabled when scanning with the
  SmartSDK application, cancelling the scan job while the preview is
  displayed might cause the information of the captured image file to be recorded incorrectly.

Version 01.04
Symptom corrected:
1. When OCR is set and a document over 51 pages is sent by Scan to Email, sending might fail.
2. When OCR is set and a document over 256 pages is scanned,
   the Scanner application might freeze or SC997 might occur.
3. When scanning is conducted repeatedly from a SmartSDK application
   that enables image log capture, the captured image file is not
   deleted and remains on the hard disk.
4. If scanning while "Download File Directly from URL Link" is set to On,
   "Insert Additional Email Info" is set to Off, and OCR is enabled,

an SC899 error might occur after the original is scanned.
5. When scanning with AirPrint in MacOS X 10.12 or later, the device
   sends a full color JPEG even if specifying a black and white JPEG.

Other changes:
- Supported RICOH SmartSDK v2.50.

Version 01.03
Symptom corrected:
1. Under the following conditions, when scanning a document with the
   OCR setting configured that consists of only blank pages or is
   not the original document, an SC899 error might occur:
   - User authentication is enabled.
   - In OCR settings, "Delete Blank Page" is enabled.
   - "Download File Directly From URL Link" is set to "On".
   - Scanner Features > File Emailing Method is set to either of the following:
   - Set to "Send URL Link".
   - Set to "Auto Detect" and specify the URL when scanning.
   - Set to "Set by User" and the data size of the scanned result
     exceeds the sending-size limit.
2. When scanning from SmartSDK applications, files are stored in
   PDF/A format even when trying to store the files in TIFF/JPEG format.
3. The image logs of jobs scanned by GlobalScan NX might not be captured.

Other changes:
- Added the following Scanner SP settings:
- SP2-031-001 Vertical Judgement Settings: Function Setting
- SP2-031-002 Vertical Judgement Settings: Algorithm Setting
  This firmware is dependent on System/Copy firmware v1.05 (D0AD5550D) or later,
  so please be sure to update that firmware as well.

Version 01.02
Other changes:
- Newly added SMBv2/v3 support.
This firmware is dependent on the following firmware modules.
Please be sure to update all of them:

System/Copy v1.04.1(D0AD5550C)
Network Support v15.64 (D0AD5567D)
Web Support v1.02 (D0AD5561B)
Scanner v01.02 (D0AD5560B)
Animation v1.02 (D0AD5564B)

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

Version 01.01
Other changes:
When the Auto Logout timer is invoked can be changed:
SP5-401-230 bit7 = 1: When the job executed from the operation panel is completed.
SP5-401-230 bit7 = 0: When the user last had interaction with the panel.

Version 01.00
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/04/01
-----------------------------------------------------------------------
[Program Name] MICROCODE
-----------------------------------------------------------------------
[Version] v2.10.011
-----------------------------------------------------------------------
[PCB No.]
-----------------------------------------------------------------------
[Interchangeability] X / O
-----------------------------------------------------------------------
[Other Firmware Requirements] None
-----------------------------------------------------------------------
[PCB Requirements] None
-----------------------------------------------------------------------
[Software category] Special Modification
-----------------------------------------------------------------------
[Release category] Temporary Release
-----------------------------------------------------------------------
[Program category] Firmware
-----------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075061_HD210011
[File Information]
 File Name        M5075061_HD210011.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,466.98 MB ( 1538240878 byte )
 Check Sum -8Bit Sum: 9F8E
         -16Bit Sum(Little Endian): 6A27
         -16Bit Sum(Big Endian): C367
[Availability of RFU] No
-----------------------------------------------------------------------
[Production reflection]
-----------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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



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


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```

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


Specification changed:
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.



-------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version v2.9.013
Rank C


Symptom corrected:
Symptom:
- Fatal error occurred when printing the calibration job.



-----------------------------------------
Version v2.8.023
Rank C


Specification changed:
- Changing HDM APPE(Drop) to 4765.



-----------------------------------------
Version v2.7.012
Rank C


Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
A fatal error occurred after a paper jam.
Program Check error occurred during calibration.



-----------------------------------------
Version v2.6.015
Rank C


Symptom corrected:
Symptom:
- SC 844 error occurred after updating Microcode to v2.5.xxx.
```

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/04/01
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] v2.10.011
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Special Modification
----------------------------------------------------------------
[Release category] Temporary Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075061_PR210011
[File Information]
 File Name        M5075061_PR210011.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size          1,466.98 MB ( 1538240878 byte )
 Check Sum -8Bit Sum: 9F8E
        -16Bit Sum(Little Endian): 6A27
        -16Bit Sum(Big Endian): C367
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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



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


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

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

Specification changed:
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
insert blank pages to the back side of simplex pages for the mix-
plex job.


```
--------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version v2.9.015
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Print by "Face-down" even if selecting "Face-up" in Job properties
  when [Side Sensitive] is enabled.
- Print by simplex even if selecting duplex in Job properties when
  [Side Sensitive] is enabled.


```
-----------------------------------------
```
Version v2.9.013
Rank C

Symptom corrected:
Symptom:
- Fatal error occurred when printing the calibration job.


```
-----------------------------------------
```
Version v2.9.011
Rank C

Symptom corrected:
Symptom:
- Fatal error when IPDS printing with certain AFP file.


```
-----------------------------------------
```
Version v2.8.023
Rank C

Specification changed:
- Changing HDM APPE(Drop) to 4765.


```
-----------------------------------------
```
Version v2.8.019
Rank C

Specification changed:
- Show error and move job to Error state properly when detecting
  Interpreter error.
Symptom corrected:
Symptom:
- Not printing all pages without any error.
- Fatal Error(signal 11) with SCREEN APPE.

Version v2.8.015
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error Source 5002 when printing the
  job using the halftone screen.
- When printing the job which is odd number of pages with duplex and
  one copy, the printer panel shows the number of copy as "2".
- The Copy count on the printer panel returns to '0' if the paper
  setting of input tray is changed during printing a job.

Version v2.8.013
Rank C

Symptom corrected:
Symptom:
- SC694-01 error with booting up or recovery from energy saver mode.
- The number of copies shows incorrectly on the printer panel.
- IPDS(x'023C') error occurred when the specific font was used.
- The calibration in user custom paper becomes blank or back to
  default when assigning to input tray by Media Management Tool.

Version v2.7.022
Rank C

Symptom corrected:
Symptom:
Restore failed with error("Unable to communicate with the DFE").

Version v2.7.018
Rank C

Symptom corrected:
Symptom:
- Fatal Error during IPDS printing with certain Type 1 font which
  has unusually large "/Copyright" description.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.

Version v2.7.012
Rank C

Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
A fatal error occurred after a paper jam.
Program Check error occurred during calibration.

Version v2.6.015
Rank C

Symptom corrected:
Symptom:
- SC 844 error occurred after updating Microcode to v2.5.xxx.

See Modification history of official release (v2.6.011).

Version v2.6.011
Rank C

Symptom corrected:
Symptom:
- Job printed again after completing printout.
- When selecting SRA3 as the paper size of Test chart on Media Management Tool,
  A4 chart image is scaled to fit on SRA3 paper.
- Fatal error(Source: 62) randomly occurred.

See Modification history of official release (v2.6.008).

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/03/29
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] v2.10.002
----------------------------------------------------------------
[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.] M5075061H
[File Information]
 File Name       M5075061H.exe
 File Type       Module for Service(Over 1GByte File .zip/.exe)
 Size          1,411.09 MB ( 1479634062 byte )
 Check Sum -8Bit Sum: E81D
        -16Bit Sum(Little Endian): 65C5
        -16Bit Sum(Big Endian): 9F58
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam
  while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

[Modification history]

Version 2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
    - Input of device link profile
    - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:

1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
   of paper while running the second job, the job is falsely applied with the
   punch option after resuming:
     First job: 1-page punch job
     Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
   is enabled:
     - Product logo does not appear on the local console login screen.
     - The same user name is registered repeatedly every time when logged in by
       the default user.
     - The default user name does not appear under the ID drop-down list when
       attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
   microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
   job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
   resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned
   to a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
      - fatal error
      - side id 397 freed...
      - Errorjmdb_getJobList;rc=3;prtr=1
      - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages,
    the DFE displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs
   that contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.

11. IPDS fonts are invalid.

Version v2.03.009
1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a
   custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version v2.02.003
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/06/25
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] v2.11.013
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Special Modification
----------------------------------------------------------------
[Release category] Temporary Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075062_HD211013
[File Information]
 File Name        M5075062_HD211013.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,467.02 MB ( 1538284747 byte )
 Check Sum -8Bit Sum: 47D0
          -16Bit Sum(Little Endian): AE70
          -16Bit Sum(Big Endian): 6960
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------



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


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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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

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

Symptom corrected:
Symptom:
- Crash and reboot when printing with certain color settings.



------------------------------------------------------------------------
[Modification history]
----------------------------------------
Version v2.10.011
Rank C

Specification changed:
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.



----------------------------------------
Version v2.9.013
Rank C

Symptom corrected:
Symptom:
- Fatal error occurred when printing the calibration job.



----------------------------------------
Version v2.8.023
Rank C

Specification changed:
- Changing HDM APPE(Drop) to 4765.



----------------------------------------
Version v2.7.012
Rank C

Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
A fatal error occurred after a paper jam.
Program Check error occurred during calibration.



----------------------------------------
Version v2.6.015
Rank C

Symptom corrected:
Symptom:
```

- SC 844 error occurred after updating Microcode to v2.5.xxx.

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/04/11
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] v2.11.001
----------------------------------------------------------------
[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.] M5075062
[File Information]
 File Name       M5075062.exe
 File Type       Module for Service(Over 1GByte File .zip/.exe)
 Size            1,467.96 MB ( 1539267312 byte )
 Check Sum -8Bit Sum: 983E
          -16Bit Sum(Little Endian): 6816
          -16Bit Sum(Big Endian): 6E28
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

[Modification history]

Version v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam
  while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
   - Input of device link profile
   - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 2.7.001
Rank C

Supported:
1. IOCA parameters are overwritten with JPEG parameters when IOCA parameters
   contained in IPDS jobs generated by a third party vendor applications are enabled.
2. Supported the color management functions available in SCREEN host application (EQUIOS).
3. Disabled the color space for blending to prevent tone jumps.

Symptoms corrected:
1. A4 size test charts for the Media Management Tool are printed larger than expected,
   if printed using SRA3.
2. Hard abort may occur when continuously printing JMF files that contain return JMF
   commands.
3. Fonts that can be printed in PDF/ASCII cannot be printed in IPDS.
4. Error message "There is not enough free space available." appears when attempted
   to back up files with insufficient storage in the USB.
5. Fatal error occurs due to CPSI memory leak when continuously printed for more
   than approximately 16 hours.
6. Hard abort (signal 9) occurs when printing JMF to the DFE.
7. Fatal error occurs when printing AFP data that contain TIFF files created with
   the wrong format.
8. The same job may falsely be repeated.
9. May fail to print the Printer Configuration sheet.
10. The screen turns white when changing the language setting of the DFE.
11. The following program check runs when opening JTE (Job Ticket Editor) and
    pressing OK without making any changes:

    Source: 172
    Id: 1
    Name: GetPlex
    Additional Data: GetValue for JTA_DUPLEX
    failed

Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
       First job: 1-page punch job
       Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"

is enabled:
- Product logo does not appear on the local console login screen.
- The same user name is registered repeatedly every time when logged in
  by the default user.
- The default user name does not appear under the ID drop-down list when
  attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
   microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
   job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
   resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to
   a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.

6. The number of printed pages that appears on the DFE during a pause due to a jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on the DFE Console, a program check error occurs and displays a warning message "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and printing stops with an SC919.
16. Punch jobs may result in the following errors:
    - fatal error
    - side id 397 freed...
    - Errorjmdb_getJobList;rc=3;prtr=1
    - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages that go through the duplex path instead of the simplex path was increased from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version v2.03.009

1. If an entry in the paper catalog is deleted while printing a job, Hard Abort may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page counter display stalls at page 999.

Version v2.02.003
Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or specified on the console or the control panel or the driver of R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will mix up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version v2.01.003
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/06/25
-------------------------------------------------------------------
[Program Name] MICROCODE
-------------------------------------------------------------------
[Version] v2.11.013
-------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------
[Software category] Special Modification
-------------------------------------------------------------------
[Release category] Temporary Release
-------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075062_PR211013
[File Information]
 File Name        M5075062_PR211013.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,467.02 MB ( 1538284747 byte )
 Check Sum -8Bit Sum: 47D0
        -16Bit Sum(Little Endian): AE70
        -16Bit Sum(Big Endian): 6960
[Availability of RFU] No
-------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------


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


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



================================================================================
*** Important Notes ***
================================================================================
[Important Notes]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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

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

Symptom corrected:
Symptom:
- Crash and reboot when printing with certain color settings.


```
------------------------------------------------------------------
```
[Modification history]
```
----------------------------------------
```
Version v2.11.011
Rank C

Symptom corrected:
Symptom:
- Fatal error when printing with "Use Maximum Toner Density" after
  restoring the backup of MC version 1.x which includes calibration.


```
----------------------------------------
```
Version v2.10.011
Rank C

Specification changed:
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
insert blank pages to the back side of simplex pages for the mix-
plex job.


```
----------------------------------------
```
Version v2.9.015
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Print by "Face-down" even if selecting "Face-up" in Job properties
  when [Side Sensitive] is enabled.
- Print by simplex even if selecting duplex in Job properties when
  [Side Sensitive] is enabled.


```
----------------------------------------
```
Version v2.9.013
Rank C

Symptom corrected:
Symptom:
- Fatal error occurred when printing the calibration job.


```
----------------------------------------
```
Version v2.9.011

Rank C

Symptom corrected:
Symptom:
- Fatal error when IPDS printing with certain AFP file.

Version v2.8.023
Rank C

Specification changed:
- Changing HDM APPE(Drop) to 4765.

Version v2.8.019
Rank C

Specification changed:
- Show error and move job to Error state properly when detecting
  Interpreter error.
Symptom corrected:
Symptom:
- Not printing all pages without any error.
- Fatal Error(signal 11) with SCREEN APPE.

Version v2.8.015
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error Source 5002 when printing the
  job using the halftone screen.
- When printing the job which is odd number of pages with duplex and
  one copy, the printer panel shows the number of copy as "2".
- The Copy count on the printer panel returns to '0' if the paper
  setting of input tray is changed during printing a job.

Version v2.8.013
Rank C

Symptom corrected:
Symptom:
- SC694-01 error with booting up or recovery from energy saver mode.
- The number of copies shows incorrectly on the printer panel.
- IPDS(x'023C') error occurred when the specific font was used.
- The calibration in user custom paper becomes blank or back to
  default when assigning to input tray by Media Management Tool.

Version v2.7.022

Rank C

Symptom corrected:
Symptom:
Restore failed with error("Unable to communicate with the DFE").

Version v2.7.018
Rank C

Symptom corrected:
Symptom:
- Fatal Error during IPDS printing with certain Type 1 font which
  has unusually large "/Copyright" description.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.

Version v2.7.012
Rank C

Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
A fatal error occurred after a paper jam.
Program Check error occurred during calibration.

Version v2.6.015
Rank C

Symptom corrected:
Symptom:
- SC 844 error occurred after updating Microcode to v2.5.xxx.

See Modification history of official release (v2.6.011).

Version v2.6.011
Rank C

Symptom corrected:
Symptom:
- Job printed again after completing printout.
- When selecting SRA3 as the paper size of Test chart on Media Management Tool,
  A4 chart image is scaled to fit on SRA3 paper.
- Fatal error(Source: 62) randomly occurred.

See Modification history of official release (v2.6.008).

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/11/08
-------------------------------------------------------------------------
[Program Name] MICROCODE
-------------------------------------------------------------------------
[Version] v2.12.013
-------------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------------
[Software category] Special Modification
-------------------------------------------------------------------------
[Release category] Temporary Release
-------------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075063_HD212013
[File Information]
 File Name        M5075063_HD212013.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,466.93 MB ( 1538192227 byte )
 Check Sum -8Bit Sum: 99F0
         -16Bit Sum(Little Endian): 7953
         -16Bit Sum(Big Endian): 109D
[Availability of RFU] No
-------------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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



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

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

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

Symptom corrected:
Symptom:
- DFE sends wrong information to Prinect when suspending/resuming
the job.



-------------------------------------------------------------------
[Modification history]
----------------------------------------
Version v2.11.013
Rank C

Symptom corrected:
Symptom:
- Crash and reboot when printing with certain color settings.



----------------------------------------
Version v2.10.011
Rank C

Specification changed:
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.



----------------------------------------
Version v2.9.013
Rank C

Symptom corrected:
Symptom:
- Fatal error occurred when printing the calibration job.



----------------------------------------
Version v2.8.023
Rank C

Specification changed:
- Changing HDM APPE(Drop) to 4765.



----------------------------------------
Version v2.7.012
Rank C

Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
```

A fatal error occurred after a paper jam.
Program Check error occurred during calibration.

Version v2.6.015
Rank C

Symptom corrected:
Symptom:
- SC 844 error occurred after updating Microcode to v2.5.xxx.

```
================================================================
```
*** Basic Information ***
```
================================================================
```
[Create date] 2019/07/05
```
----------------------------------------------------------------
```
[Program Name] MICROCODE
```
----------------------------------------------------------------
```
[Version] v2.12.002
```
----------------------------------------------------------------
```
[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.] M5075063
[File Information]
 File Name   M5075063.exe
 File Type   Module for Service(Over 1GByte File .zip/.exe)
 Size   1,468.13 MB (1539449509 byte)
 Check Sum -8Bit Sum: 4BD5
         -16Bit Sum(Little Endian): 9192
         -16Bit Sum(Big Endian): 8F43
[Availability of RFU] No
```
----------------------------------------------------------------
```
[Production reflection]
```
----------------------------------------------------------------
```


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

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


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

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


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

[Modifications made:]
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

[Modification history]

Version v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam
  while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to

tray paper settings for a tray that is not being used for the
present job, the copy count on the OCP shows "0" copies.

Version 2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
   - Input of device link profile
   - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 2.7.001
Rank C

Supported:
1. IOCA parameters are overwritten with JPEG parameters when IOCA parameters
   contained in IPDS jobs generated by a third party vendor applications are enabled.
2. Supported the color management functions available in SCREEN host application (EQUIOS).
3. Disabled the color space for blending to prevent tone jumps.

Symptoms corrected:
1. A4 size test charts for the Media Management Tool are printed larger than expected,
   if printed using SRA3.
2. Hard abort may occur when continuously printing JMF files that contain return JMF
   commands.
3. Fonts that can be printed in PDF/ASCII cannot be printed in IPDS.
4. Error message "There is not enough free space available." appears when attempted
   to back up files with insufficient storage in the USB.
5. Fatal error occurs due to CPSI memory leak when continuously printed for more
   than approximately 16 hours.
6. Hard abort (signal 9) occurs when printing JMF to the DFE.
7. Fatal error occurs when printing AFP data that contain TIFF files created with
   the wrong format.
8. The same job may falsely be repeated.
9. May fail to print the Printer Configuration sheet.
10. The screen turns white when changing the language setting of the DFE.
11. The following program check runs when opening JTE (Job Ticket Editor) and
    pressing OK without making any changes:

    Source: 172
    Id: 1
    Name: GetPlex
    Additional Data: GetValue for JTA_DUPLEX
    failed

Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
   function.
2. Output tray for proof prints can be switched from the finisher proof tray to
   the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
   of paper while running the second job, the job is falsely applied with the
   punch option after resuming:
      First job: 1-page punch job
      Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
   is enabled:
      - Product logo does not appear on the local console login screen.
      - The same user name is registered repeatedly every time when logged in
        by the default user.
      - The default user name does not appear under the ID drop-down list when
        attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
   microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
   job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
   resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to
   a tray via OCP while running a job.

7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
     - fatal error
     - side id 397 freed...
     - Errorjmdb_getJobList;rc=3;prtr=1
     - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
    displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version v2.03.009
1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a
   custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version v2.02.003
Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will
   mix up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.

2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version v2.01.003
1st Mass production

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/11/08
------------------------------------------------------------------------
[Program Name] MICROCODE
------------------------------------------------------------------------
[Version] v2.12.013
------------------------------------------------------------------------
[PCB No.]
------------------------------------------------------------------------
[Interchangeability] X / O
------------------------------------------------------------------------
[Other Firmware Requirements] None
------------------------------------------------------------------------
[PCB Requirements] None
------------------------------------------------------------------------
[Software category] Special Modification
------------------------------------------------------------------------
[Release category] Temporary Release
------------------------------------------------------------------------
[Program category] Firmware
------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5075063_PR212013
[File Information]
 File Name        M5075063_PR212013.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,466.93 MB ( 1538192227 byte )
 Check Sum -8Bit Sum: 99F0
        -16Bit Sum(Little Endian): 7953
        -16Bit Sum(Big Endian): 109D
[Availability of RFU] No
------------------------------------------------------------------------
[Production reflection]
------------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(2.x) is only applicable to BOS 123.19.048/123.19.050.


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


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

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

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

[Modifications made:]
Rank C

Symptom corrected:
Symptom:
- DFE sends wrong information to Prinect when suspending/resuming
the job.
- Crash when changing the color profile setting on Virtual Printer.

```
------------------------------------------------------------
```
[Modification history]
```
----------------------------------------
```
Version v2.11.013
Rank C

Symptom corrected:
Symptom:
- Crash and reboot when printing with certain color settings.

```
----------------------------------------
```
Version v2.11.011
Rank C

Symptom corrected:
Symptom:
- Fatal error when printing with "Use Maximum Toner Density" after
  restoring the backup of MC version 1.x which includes calibration.

```
----------------------------------------
```
Version v2.10.011
Rank C

Specification changed:
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
insert blank pages to the back side of simplex pages for the mix-
plex job.

```
----------------------------------------
```
Version v2.9.015
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Print by "Face-down" even if selecting "Face-up" in Job properties
  when [Side Sensitive] is enabled.
- Print by simplex even if selecting duplex in Job properties when
  [Side Sensitive] is enabled.

Version v2.9.013
Rank C

Symptom corrected:
Symptom:
- Fatal error occurred when printing the calibration job.

Version v2.9.011
Rank C

Symptom corrected:
Symptom:
- Fatal error when IPDS printing with certain AFP file.

Version v2.8.023
Rank C

Specification changed:
- Changing HDM APPE(Drop) to 4765.

Version v2.8.019
Rank C

Specification changed:
- Show error and move job to Error state properly when detecting
  Interpreter error.
Symptom corrected:
Symptom:
- Not printing all pages without any error.
- Fatal Error(signal 11) with SCREEN APPE.

Version v2.8.015
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error Source 5002 when printing the
  job using the halftone screen.
- When printing the job which is odd number of pages with duplex and
  one copy, the printer panel shows the number of copy as "2".
- The Copy count on the printer panel returns to '0' if the paper
  setting of input tray is changed during printing a job.

Version v2.8.013
Rank C

Symptom corrected:
Symptom:
- SC694-01 error with booting up or recovery from energy saver mode.
- The number of copies shows incorrectly on the printer panel.
- IPDS(x'023C') error occurred when the specific font was used.
- The calibration in user custom paper becomes blank or back to
  default when assigning to input tray by Media Management Tool.

Version v2.7.022
Rank C

Symptom corrected:
Symptom:
Restore failed with error("Unable to communicate with the DFE").

Version v2.7.018
Rank C

Symptom corrected:
Symptom:
- Fatal Error during IPDS printing with certain Type 1 font which
  has unusually large "/Copyright" description.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.

Version v2.7.012
Rank C

Symptom corrected:
Symptom:
SC 844 error occurred after updating Microcode to v2.5.xxx.
A fatal error occurred after a paper jam.
Program Check error occurred during calibration.

Version v2.6.015
Rank C

Symptom corrected:
Symptom:
- SC 844 error occurred after updating Microcode to v2.5.xxx.

See Modification history of official release (v2.6.011).

Version v2.6.011
Rank C

Symptom corrected:

Symptom:
- Job printed again after completing printout.
- When selecting SRA3 as the paper size of Test chart on Media Management Tool,
  A4 chart image is scaled to fit on SRA3 paper.
- Fatal error(Source: 62) randomly occurred.

See Modification history of official release (v2.6.008).

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2019/11/11
--------------------------------------------------------------------
[Program Name] MICROCODE
--------------------------------------------------------------------
[Version] v2.13.001
--------------------------------------------------------------------
[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.] M5075064
[File Information]
 File Name        M5075064.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,411.00 MB ( 1479535985 byte )
 Check Sum -8Bit Sum: 9EEB
        -16Bit Sum(Little Endian): 9B02
        -16Bit Sum(Big Endian): EEE9
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

[Modification history]

Version v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
   - Face-up jobs are falsely delivered face-down.
   - Front and back sides of the page are displayed oppositely in
     the preview screen.
   - Simplex jobs are falsely printed in duplex.

Version v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam

while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
   - Input of device link profile
   - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 2.7.001
Rank C

Supported:
1. IOCA parameters are overwritten with JPEG parameters when IOCA parameters
   contained in IPDS jobs generated by a third party vendor applications are enabled.
2. Supported the color management functions available in SCREEN host application (EQUIOS).
3. Disabled the color space for blending to prevent tone jumps.

Symptoms corrected:
1. A4 size test charts for the Media Management Tool are printed larger than expected,
   if printed using SRA3.
2. Hard abort may occur when continuously printing JMF files that contain return JMF
   commands.
3. Fonts that can be printed in PDF/ASCII cannot be printed in IPDS.
4. Error message "There is not enough free space available." appears when attempted
   to back up files with insufficient storage in the USB.
5. Fatal error occurs due to CPSI memory leak when continuously printed for more
   than approximately 16 hours.
6. Hard abort (signal 9) occurs when printing JMF to the DFE.
7. Fatal error occurs when printing AFP data that contain TIFF files created with
   the wrong format.
8. The same job may falsely be repeated.

9. May fail to print the Printer Configuration sheet.
10. The screen turns white when changing the language setting of the DFE.
11. The following program check runs when opening JTE (Job Ticket Editor) and
    pressing OK without making any changes:

    Source: 172
    Id: 1
    Name: GetPlex
    Additional Data: GetValue for JTA_DUPLEX
    failed

Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS
    function.
2. Output tray for proof prints can be switched from the finisher proof tray to
    the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out
    of paper while running the second job, the job is falsely applied with the
    punch option after resuming:
        First job: 1-page punch job
        Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console"
    is enabled:
        - Product logo does not appear on the local console login screen.
        - The same user name is registered repeatedly every time when logged in
          by the default user.
        - The default user name does not appear under the ID drop-down list when
          attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated
    microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the
    job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running,
    resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure

for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to
   a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
      - Black (text/line art) in pure black
      - Preserve pure black
      - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page
    list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
    printing stops with an SC919.
16. Punch jobs may result in the following errors:
      - fatal error
      - side id 397 freed...
      - Errorjmdb_getJobList;rc=3;prtr=1
      - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE

displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version v2.03.009
1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a
   custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version v2.02.003
Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

Note:
Make sure to update the below software as a set. Updating individually will
mix up the display of Clear and Special.
For more detail about the new special color toner, please refer to RTB RD194151.
   - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version v2.01.003
1st Mass production

```
===============================================================================
*** Basic Information ***
===============================================================================
[Create date] 2018/11/21
-------------------------------------------------------------------------
[Program Name] MICROCODE
-------------------------------------------------------------------------
[Version] 3.3.017
-------------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------------
[Software category] Special Modification
-------------------------------------------------------------------------
[Release category] Temporary Release
-------------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_HD303017
[File Information]
 File Name        M5265053_HD303017.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,416.89 MB ( 1485718446 byte )
 Check Sum -8Bit Sum: CE0F
        -16Bit Sum(Little Endian): C1B7
        -16Bit Sum(Big Endian): 1B58
[Availability of RFU] No
-------------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------------


===============================================================================
*** Note ***
===============================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.
-------------------------------------------------------------------------



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

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

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


Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.



--------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 3.3.011
Rank C


Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.


-----------------------------------------
Version 3.2.015
Rank C


Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.


-----------------------------------------
Version 3.2.013
Rank C


Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.


-----------------------------------------
Version 3.1.001
Rank D


1st Microcode for the field machine.
```

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/12/18
---------------------------------------------------------------
[Program Name] MICROCODE
---------------------------------------------------------------
[Version] 3.3.019
---------------------------------------------------------------
[PCB No.]
---------------------------------------------------------------
[Interchangeability] X / O
---------------------------------------------------------------
[Other Firmware Requirements] None
---------------------------------------------------------------
[PCB Requirements] None
---------------------------------------------------------------
[Software category] Special Modification
---------------------------------------------------------------
[Release category] Temporary Release
---------------------------------------------------------------
[Program category] Firmware
---------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_HD303019
[File Information]
 File Name       M5265053_HD303019.exe
 File Type       Module for Service(Over 1GByte File .zip/.exe)
 Size            1,416.88 MB ( 1485704681 byte )
 Check Sum -8Bit Sum: 8DC7
         -16Bit Sum(Little Endian): 983E
         -16Bit Sum(Big Endian): BC89
[Availability of RFU] No
---------------------------------------------------------------
[Production reflection]
---------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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


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

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

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


Symptom corrected:
Symptom:
- Intermittently display Fatal error(Source 5002) when printing.



--------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 3.3.017
Rank C


Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.



-----------------------------------------
Version 3.3.011
Rank C


Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

-----------------------------------------
Version 3.2.015
Rank C


Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.


-----------------------------------------
Version 3.2.013
Rank C


Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.


-----------------------------------------
Version 3.1.001
Rank D


1st Microcode for the field machine.
```

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/10/22
--------------------------------------------------------------------------
[Program Name] MICROCODE
--------------------------------------------------------------------------
[Version] 3.3.013
--------------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------------
[Software category] Special Modification
--------------------------------------------------------------------------
[Release category] Temporary Release
--------------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_PR303013_A
[File Information]
 File Name        M5265053_PR303013_A.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size            1,416.87 MB ( 1485693427 byte )
 Check Sum -8Bit Sum: A9BD
        -16Bit Sum(Little Endian): 9299
        -16Bit Sum(Big Endian): D424
[Availability of RFU] No
--------------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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



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

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

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

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.


------------------------------------------------------------------------
[Modification history]
----------------------------------------
Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.


----------------------------------------
Version 3.2.015
Rank C

Symptom corrected:
Symptom:
Failed to print test chart from SP menu on the printer.


----------------------------------------
Version 3.2.013
Rank C

Symptom corrected:
Symptom:
C014 error occurred after deleting the duplicated paper catalog entry.
```

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/11/08
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] 3.3.015
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Special Modification
----------------------------------------------------------------
[Release category] Temporary Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_PR303015_A
[File Information]
 File Name        M5265053_PR303015_A.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size            1,416.86 MB ( 1485690050 byte )
 Check Sum -8Bit Sum: 7D3D
        -16Bit Sum(Little Endian): C5BE
        -16Bit Sum(Big Endian): F47F
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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


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

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

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

Symptom corrected:
Symptom:
- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.


```
----------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version 3.3.013
Rank C

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.


```
-----------------------------------------
```
Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.


```
-----------------------------------------
```
Version 3.2.015
Rank C

Symptom corrected:
Symptom:
Failed to print test chart from SP menu on the printer.


```
-----------------------------------------
```
Version 3.2.013
Rank C

Symptom corrected:
Symptom:
C014 error occurred after deleting the duplicated paper catalog entry.

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2018/11/13
------------------------------------------------------------------------
[Program Name] MICROCODE
------------------------------------------------------------------------
[Version] 3.3.015
------------------------------------------------------------------------
[PCB No.]
------------------------------------------------------------------------
[Interchangeability] X / O
------------------------------------------------------------------------
[Other Firmware Requirements] None
------------------------------------------------------------------------
[PCB Requirements] None
------------------------------------------------------------------------
[Software category] Special Modification
------------------------------------------------------------------------
[Release category] Temporary Release
------------------------------------------------------------------------
[Program category] Firmware
------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_PR303015_T
[File Information]
 File Name        M5265053_PR303015_T.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,416.86 MB ( 1485690050 byte )
 Check Sum -8Bit Sum: 7D3D
        -16Bit Sum(Little Endian): C5BE
        -16Bit Sum(Big Endian): F47F
[Availability of RFU] No
------------------------------------------------------------------------
[Production reflection]
------------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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


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

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

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

Symptom corrected:
Symptom:
- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.


--------------------------------------------------------------------
[Modification history]
----------------------------------------
Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.


----------------------------------------
Version 3.2.015
Rank C

Symptom corrected:
Symptom:
Failed to print test chart from SP menu on the printer.


----------------------------------------
Version 3.2.013
Rank C

Symptom corrected:
Symptom:
C014 error occurred after deleting the duplicated paper catalog entry.

----------------------------------------
Version 3.1.001
Rank D

1st Microcode for the field machine.
```

```
===============================================================================
*** Basic Information ***
===============================================================================
[Create date] 2018/11/21
-------------------------------------------------------------------------
[Program Name] MICROCODE
-------------------------------------------------------------------------
[Version] 3.3.017
-------------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------------
[Software category] Special Modification
-------------------------------------------------------------------------
[Release category] Temporary Release
-------------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_PR303017
[File Information]
 File Name        M5265053_PR303017.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,416.89 MB ( 1485718446 byte )
 Check Sum -8Bit Sum: CE0F
        -16Bit Sum(Little Endian): C1B7
        -16Bit Sum(Big Endian): 1B58
[Availability of RFU] No
-------------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------------


===============================================================================
*** Note ***
===============================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.
-------------------------------------------------------------------------



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

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

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

[Modifications made:]
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Fatal error (Rs1: handleRdlAddItemRc) occurred when printing certain AFP job.

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

[Modification history]
```
----------------------------------------
```
Version 3.3.015
Rank C

Symptom corrected:
Symptom:
- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.

```
----------------------------------------
```
Version 3.3.013
Rank C

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.

```
----------------------------------------
```
Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

```
----------------------------------------
```
Version 3.2.015
Rank C

Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.

Version 3.2.013
Rank C

Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.

```
===============================================================================
*** Basic Information ***
===============================================================================
[Create date] 2018/12/18
-------------------------------------------------------------------
[Program Name] MICROCODE
-------------------------------------------------------------------
[Version] 3.3.019
-------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------
[Software category] Special Modification
-------------------------------------------------------------------
[Release category] Temporary Release
-------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265053_PR303019
[File Information]
 File Name        M5265053_PR303019.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,416.88 MB ( 1485704681 byte )
 Check Sum -8Bit Sum: 8DC7
         -16Bit Sum(Little Endian): 983E
         -16Bit Sum(Big Endian): BC89
[Availability of RFU] No
-------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------


===============================================================================
*** Note ***
===============================================================================
[Note]
Temporary Microcode based on version v3.x.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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



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

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

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

Symptom corrected:
Symptom:
- Intermittently display Fatal error(Source 5002) when printing.
- IPDS VPA error occurs even if enabling "8B4289" feature.



-------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 3.3.017
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Fatal error (Rs1: handleRdlAddItemRc)  occurred when printing certain AFP job.



-----------------------------------------
Version 3.3.015
Rank C

Symptom corrected:
Symptom:
- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.



-----------------------------------------
Version 3.3.013
Rank C

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.


-----------------------------------------
Version 3.3.011
```

Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

Version 3.2.015
Rank C

Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.

Version 3.2.013
Rank C

Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/04/01
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] 3.4.017
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Special Modification
----------------------------------------------------------------
[Release category] Temporary Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265054_HD304017
[File Information]
 File Name        M5265054_HD304017.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,438.24 MB ( 1508101244 byte )
 Check Sum -8Bit Sum: 9F5B
         -16Bit Sum(Little Endian): 9871
         -16Bit Sum(Big Endian): 61EA
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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


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


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

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

Specification changed:
- Change the GUI of "Sample print" button on the printer panel.
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.
Symptom corrected:
Symptom:
- Duplicate paper catalog registration with certain procedures.
- Fatal error with sample printing.
- Fatal error when printing from Prinect.
- Calibration data is faulty removed

[Modification history]

Version 3.3.019
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error(Source 5002) when printing.

Version 3.3.017
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.

Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

Version 3.2.015
Rank C

Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.

Version 3.2.013
Rank C

Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.

Version 3.1.001
Rank D

1st Microcode for the field machine.

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/04/01
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] 3.4.017
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Special Modification
----------------------------------------------------------------
[Release category] Temporary Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265054_PR304017
[File Information]
 File Name        M5265054_PR304017.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size          1,438.24 MB ( 1508101244 byte )
 Check Sum -8Bit Sum: 9F5B
        -16Bit Sum(Little Endian): 9871
        -16Bit Sum(Big Endian): 61EA
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


================================================================
*** Note ***
================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
If updating from v3.4.011 or before to this version the raster image
of processed jobs is removed.
```

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

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

Specification changed:
- Change the GUI of "Sample print" button on the printer panel.
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.
Symptom corrected:
Symptom:
- Duplicate paper catalog registration with certain procedures.
- Unable to connect to the remote console from printer panel.
- Fatal error with sample printing.
- Fatal error when printing from Prinect.
- DFE does not boot up with an error after updating from v3.2 or
  before to v3.3 or later.
- Calibration data is faulty removed
- Tone curves are not applied properly when setting both at a paper
  catalog and virtual printer.
- SC919 error occurred with particular AFP job.

```
---------------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version 3.4.011
Rank C

Symptom corrected:
Symptom:
- TotalFlow Prep impositions is not saved to the job.
- Program Check error occurred when pressing ESC key right after
  operation on the console screen.

```
-----------------------------------------
```
Version 3.3.019
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error(Source 5002) when printing.
- IPDS VPA error occurs even if enabling "8B4289" feature.

```
-----------------------------------------
```
Version 3.3.017
Rank C

Symptom corrected:
Symptom:

- Manual calibration failed under certain condition.
- Fatal error (Rs1: handleRdlAddItemRc) occurred when printing certain AFP job.

Version 3.3.015
Rank C

Symptom corrected:
Symptom:
- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.

Version 3.3.013
Rank C

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.

Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

Version 3.2.015
Rank C

Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.

Version 3.2.013
Rank C

Symptom corrected:

Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.

==
*** Basic Information ***
==
[Create date] 2019/04/24

[Program Name] MICROCODE

[Version] 3.5.001

[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.] M5265055
[File Information]
 File Name   M5265055.exe
 File Type   Module for Service(Over 1GByte File .zip/.exe)
 Size   1,425.87 MB (1495131712 byte)
 Check Sum -8Bit Sum: FCE6
        -16Bit Sum(Little Endian): 32C3
        -16Bit Sum(Big Endian): B023
[Availability of RFU] No

[Production reflection]

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

==
*** Important Notes ***
==
[Important Notes]
- Once after updating to this release, reverting to a previous
  version will delete all job records and stored jobs from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.

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

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error occurs when printed specific jobs that contain
  halftone images.

[Modification history]

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/06/10
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] 3.6.001
----------------------------------------------------------------
[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.] M5265056
[File Information]
 File Name        M5265056.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,426.38 MB ( 1495669233 byte )
 Check Sum -8Bit Sum: C609
         -16Bit Sum(Little Endian): 258A
         -16Bit Sum(Big Endian): A97F
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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


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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.


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

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

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:
   * Increased the default processing speed.
   * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

[Modification history]

Version 3.5.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting

multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error occurs when printed specific jobs that contain
  halftone images.

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2019/12/18
----------------------------------------------------------------
[Program Name] MICROCODE
----------------------------------------------------------------
[Version] 3.08.002
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] Exist
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265059H
[File Information]
 File Name        M5265059H.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,430.03 MB ( 1499490981 byte )
 Check Sum -8Bit Sum: DF1B
        -16Bit Sum(Little Endian): A5D9
        -16Bit Sum(Big Endian): 5442
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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


================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
v3.4.xxx or earlier will delete all job records and stored jobs from
the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
delete all RIPped data.
- When installing this release, update the mainframe 'animation'
firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware for
all other engine modules.)

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

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

[Modification history]

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2020/04/08
----------------------------------------------------------------
[Program Name] BOS_1/6
----------------------------------------------------------------
[Version] 132.31.064_v3.10.002
----------------------------------------------------------------
[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.] M5265007N_1
[File Information]
 File Name        M5265007N_1.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: 128B
        -16Bit Sum(Little Endian): 26A9
        -16Bit Sum(Big Endian): 76E2
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.
- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
  for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
- Measurement of C100% images with Auto Calibration is lower than
  that measured with spectrophotometer and affects the output.
- Cannot print due to abnormal termination of Adobe PDF library
  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version 132.31.064_v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
  - Advanced > Black (text/line art) is set to "Pure black"

- Some transparency mask objects are not printed in IPDS jobs.

Version 132.31.064_v3.08.002
Rank C

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 132.31.064_v3.06.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 132.31.064_v3.06.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:

* Increased the default processing speed.
 * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 132.31.064_v3.05.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.

- Fatal error occurs when printed specific jobs that contain
  halftone images.

Version 132.31.064_v3.04.001
Rank C

Specification changed:
1. The following functions are supported.
   - Enhance Tone Curve Adjustment
   - Global maintain sequential order and priority handling to input queue
   - Edit Function for Spot Color
   - Overprint support by Kodak and Screen APPE
2. The name of the RDP (remote desktop protocol) application that
   appears on the large operation panel was changed from Print
   Server Console to Digital Printing Terminal (Prinect DFE only).

Symptom corrected:
1. Fatal Error during IPDS printing with certain Type 1 font which
   has unusually large "/Copyright" description.
2. SC694-01 error with booting up or recovery from energy saver mode.
3. IPDS(x'023C') error occurred when the specific font was used.
4. IA fatal error occurs when printed data that uses 2-byte
   character in the ICC profile name.
5. Wire in the Vacuum Feed LCIT may break, if the STR timer is set
   too short and the system frequently wakes up from the STR mode or
   from a power Off state.
6. Fails to copy data to the Windows VM via USB flash drive.

Version 132.31.064_v3.03.004
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of
   the IPDS function.
2. IOCA parameters are overwritten with JPEG parameters when IOCA
   parameters contained in IPDS jobs generated by a third party
   vendor applications are enabled.
3. Using the install feature RIP Model S, the following is capable
   via EQUIOS:
   - Input of device link profile
   - Output without color conversion
4. In Configuration > Output jogging > On job boundary, Jogging
   ON/OFF can be specified on Prinect.
5. To enrich the output density of solid black images printed on RIP
   Model S, PDF data composed of CMY=0% and K=100% are printed in K=100%.
6. Page counter that appears on OCP is also displayed on Prinect via DFE.
7. Upgraded the APPE (feature RIP) version as follows:
   RIP Model H:Ver. 4.4 --> Ver. 4.8
   RIP Model K:Ver. 4.5 --> Ver. 4.7
   RIP Model S:Ver. 4.3 --> Ver. 4.8
8. To prevent unwanted after effects of a color conversion when
   using standard profiles, jobs set to Rich Black for [Text, Line Art]
   that have a white background are printed in Rich Black.
9. On the Feature RIP Model K, the Bleed Box (margin) data is fed

back to the DFE during RIP, to determine whether the color bars
can be printed on the pages or not.

Symptom corrected:
1. Cannot test print while logged on to the SP mode.
2. Error C014 (mismatch of Paper Catalog data between the engine and DFE)
   occurs, if a paper catalog is registered on the engine.

Version 132.31.063_v3.01.001
Rank D

1st Mass production

```
==============================================================================
*** Basic Information ***
==============================================================================
[Create date] 2020/04/08
------------------------------------------------------------------------
[Program Name] BOS_2/6
------------------------------------------------------------------------
[Version] 132.31.064_v3.10.002
------------------------------------------------------------------------
[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.] M5265007N_2
[File Information]
 File Name        M5265007N_2.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: 4E93
          -16Bit Sum(Little Endian): 7D2B
          -16Bit Sum(Big Endian): 6468
[Availability of RFU] No
------------------------------------------------------------------------
[Production reflection]
------------------------------------------------------------------------


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

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



==============================================================================
*** Important Notes ***
==============================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.
- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
- Measurement of C100% images with Auto Calibration is lower than
  that measured with spectrophotometer and affects the output.
- Cannot print due to abnormal termination of Adobe PDF library
  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version 132.31.064_v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
  - Advanced > Black (text/line art) is set to "Pure black"

- Some transparency mask objects are not printed in IPDS jobs.

Version 132.31.064_v3.08.002
Rank C

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 132.31.064_v3.06.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 132.31.064_v3.06.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:

* Increased the default processing speed.
  * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 132.31.064_v3.05.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.

- Fatal error occurs when printed specific jobs that contain
  halftone images.

Version 132.31.064_v3.04.001
Rank C

Specification changed:
1. The following functions are supported.
   - Enhance Tone Curve Adjustment
   - Global maintain sequential order and priority handling to input queue
   - Edit Function for Spot Color
   - Overprint support by Kodak and Screen APPE
2. The name of the RDP (remote desktop protocol) application that
   appears on the large operation panel was changed from Print
   Server Console to Digital Printing Terminal (Prinect DFE only).

Symptom corrected:
1. Fatal Error during IPDS printing with certain Type 1 font which
   has unusually large "/Copyright" description.
2. SC694-01 error with booting up or recovery from energy saver mode.
3. IPDS(x'023C') error occurred when the specific font was used.
4. IA fatal error occurs when printed data that uses 2-byte
   character in the ICC profile name.
5. Wire in the Vacuum Feed LCIT may break, if the STR timer is set
   too short and the system frequently wakes up from the STR mode or
   from a power Off state.
6. Fails to copy data to the Windows VM via USB flash drive.

Version 132.31.064_v3.03.004
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of
   the IPDS function.
2. IOCA parameters are overwritten with JPEG parameters when IOCA
   parameters contained in IPDS jobs generated by a third party
   vendor applications are enabled.
3. Using the install feature RIP Model S, the following is capable
   via EQUIOS:
   - Input of device link profile
   - Output without color conversion
4. In Configuration > Output jogging > On job boundary, Jogging
   ON/OFF can be specified on Prinect.
5. To enrich the output density of solid black images printed on RIP
   Model S, PDF data composed of CMY=0% and K=100% are printed in K=100%.
6. Page counter that appears on OCP is also displayed on Prinect via DFE.
7. Upgraded the APPE (feature RIP) version as follows:
   RIP Model H:Ver. 4.4 --> Ver. 4.8
   RIP Model K:Ver. 4.5 --> Ver. 4.7
   RIP Model S:Ver. 4.3 --> Ver. 4.8
8. To prevent unwanted after effects of a color conversion when
   using standard profiles, jobs set to Rich Black for [Text, Line Art]
   that have a white background are printed in Rich Black.
9. On the Feature RIP Model K, the Bleed Box (margin) data is fed

back to the DFE during RIP, to determine whether the color bars
can be printed on the pages or not.

Symptom corrected:
1. Cannot test print while logged on to the SP mode.
2. Error C014 (mismatch of Paper Catalog data between the engine and DFE)
   occurs, if a paper catalog is registered on the engine.

Version 132.31.063_v3.01.001
Rank D

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2020/04/08
----------------------------------------------------------------
[Program Name] BOS_3/6
----------------------------------------------------------------
[Version] 132.31.064_v3.10.002
----------------------------------------------------------------
[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.] M5265007N_3
[File Information]
 File Name        M5265007N_3.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: C9B1
          -16Bit Sum(Little Endian): 15D4
          -16Bit Sum(Big Endian): 64DD
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.
- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
- Measurement of C100% images with Auto Calibration is lower than
  that measured with spectrophotometer and affects the output.
- Cannot print due to abnormal termination of Adobe PDF library
  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version 132.31.064_v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
  - Advanced > Black (text/line art) is set to "Pure black"

- Some transparency mask objects are not printed in IPDS jobs.

Version 132.31.064_v3.08.002
Rank C

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 132.31.064_v3.06.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 132.31.064_v3.06.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:

* Increased the default processing speed.
  * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 132.31.064_v3.05.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.

- Fatal error occurs when printed specific jobs that contain
  halftone images.

Version 132.31.064_v3.04.001
Rank C

Specification changed:
1. The following functions are supported.
   - Enhance Tone Curve Adjustment
   - Global maintain sequential order and priority handling to input queue
   - Edit Function for Spot Color
   - Overprint support by Kodak and Screen APPE
2. The name of the RDP (remote desktop protocol) application that
   appears on the large operation panel was changed from Print
   Server Console to Digital Printing Terminal (Prinect DFE only).

Symptom corrected:
1. Fatal Error during IPDS printing with certain Type 1 font which
   has unusually large "/Copyright" description.
2. SC694-01 error with booting up or recovery from energy saver mode.
3. IPDS(x'023C') error occurred when the specific font was used.
4. IA fatal error occurs when printed data that uses 2-byte
   character in the ICC profile name.
5. Wire in the Vacuum Feed LCIT may break, if the STR timer is set
   too short and the system frequently wakes up from the STR mode or
   from a power Off state.
6. Fails to copy data to the Windows VM via USB flash drive.

Version 132.31.064_v3.03.004
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of
   the IPDS function.
2. IOCA parameters are overwritten with JPEG parameters when IOCA
   parameters contained in IPDS jobs generated by a third party
   vendor applications are enabled.
3. Using the install feature RIP Model S, the following is capable
   via EQUIOS:
   - Input of device link profile
   - Output without color conversion
4. In Configuration > Output jogging > On job boundary, Jogging
   ON/OFF can be specified on Prinect.
5. To enrich the output density of solid black images printed on RIP
   Model S, PDF data composed of CMY=0% and K=100% are printed in K=100%.
6. Page counter that appears on OCP is also displayed on Prinect via DFE.
7. Upgraded the APPE (feature RIP) version as follows:
   RIP Model H:Ver. 4.4 --> Ver. 4.8
   RIP Model K:Ver. 4.5 --> Ver. 4.7
   RIP Model S:Ver. 4.3 --> Ver. 4.8
8. To prevent unwanted after effects of a color conversion when
   using standard profiles, jobs set to Rich Black for [Text, Line Art]
   that have a white background are printed in Rich Black.

9. On the Feature RIP Model K, the Bleed Box (margin) data is fed
   back to the DFE during RIP, to determine whether the color bars
   can be printed on the pages or not.

Symptom corrected:
1. Cannot test print while logged on to the SP mode.
2. Error C014 (mismatch of Paper Catalog data between the engine and DFE)
   occurs, if a paper catalog is registered on the engine.

Version 132.31.063_v3.01.001
Rank D

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2020/04/08
----------------------------------------------------------------
[Program Name] BOS_4/6
----------------------------------------------------------------
[Version] 132.31.064_v3.10.002
----------------------------------------------------------------
[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.] M5265007N_4
[File Information]
 File Name        M5265007N_4.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             635.83 MB ( 666719466 byte )
 Check Sum -8Bit Sum: 0847
          -16Bit Sum(Little Endian): 6F8C
          -16Bit Sum(Big Endian): DFBB
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
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- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
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  that measured with spectrophotometer and affects the output.
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  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version 132.31.064_v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
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- Some transparency mask objects are not printed in IPDS jobs.

Version 132.31.064_v3.08.002
Rank C

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 132.31.064_v3.06.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 132.31.064_v3.06.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
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- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:

  * Increased the default processing speed.
  * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 132.31.064_v3.05.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.

- Fatal error occurs when printed specific jobs that contain
  halftone images.

Version 132.31.064_v3.04.001
Rank C

Specification changed:
1. The following functions are supported.
   - Enhance Tone Curve Adjustment
   - Global maintain sequential order and priority handling to input queue
   - Edit Function for Spot Color
   - Overprint support by Kodak and Screen APPE
2. The name of the RDP (remote desktop protocol) application that
   appears on the large operation panel was changed from Print
   Server Console to Digital Printing Terminal (Prinect DFE only).

Symptom corrected:
1. Fatal Error during IPDS printing with certain Type 1 font which
   has unusually large "/Copyright" description.
2. SC694-01 error with booting up or recovery from energy saver mode.
3. IPDS(x'023C') error occurred when the specific font was used.
4. IA fatal error occurs when printed data that uses 2-byte
   character in the ICC profile name.
5. Wire in the Vacuum Feed LCIT may break, if the STR timer is set
   too short and the system frequently wakes up from the STR mode or
   from a power Off state.
6. Fails to copy data to the Windows VM via USB flash drive.

Version 132.31.064_v3.03.004
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of
   the IPDS function.
2. IOCA parameters are overwritten with JPEG parameters when IOCA
   parameters contained in IPDS jobs generated by a third party
   vendor applications are enabled.
3. Using the install feature RIP Model S, the following is capable
   via EQUIOS:
   - Input of device link profile
   - Output without color conversion
4. In Configuration > Output jogging > On job boundary, Jogging
   ON/OFF can be specified on Prinect.
5. To enrich the output density of solid black images printed on RIP
   Model S, PDF data composed of CMY=0% and K=100% are printed in K=100%.
6. Page counter that appears on OCP is also displayed on Prinect via DFE.
7. Upgraded the APPE (feature RIP) version as follows:
    RIP Model H:Ver. 4.4 --> Ver. 4.8
    RIP Model K:Ver. 4.5 --> Ver. 4.7
    RIP Model S:Ver. 4.3 --> Ver. 4.8
8. To prevent unwanted after effects of a color conversion when
   using standard profiles, jobs set to Rich Black for [Text, Line Art]
   that have a white background are printed in Rich Black.

9. On the Feature RIP Model K, the Bleed Box (margin) data is fed
   back to the DFE during RIP, to determine whether the color bars
   can be printed on the pages or not.

Symptom corrected:
1. Cannot test print while logged on to the SP mode.
2. Error C014 (mismatch of Paper Catalog data between the engine and DFE)
   occurs, if a paper catalog is registered on the engine.

Version 132.31.063_v3.01.001
Rank D

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2020/04/08
----------------------------------------------------------------
[Program Name] BOS_5/6
----------------------------------------------------------------
[Version] 132.31.064_v3.10.002
----------------------------------------------------------------
[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.] M5265008N_1
[File Information]
 File Name       M5265008N_1.exe
 File Type       Module for Service(Over 1GByte File .zip/.exe)
 Size            800.00 MB ( 838860800 byte )
 Check Sum -8Bit Sum: B8A2
         -16Bit Sum(Little Endian): 2104
         -16Bit Sum(Big Endian): 399E
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.
- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
- Measurement of C100% images with Auto Calibration is lower than
  that measured with spectrophotometer and affects the output.
- Cannot print due to abnormal termination of Adobe PDF library
  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version 132.31.064_v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
  - Advanced > Black (text/line art) is set to "Pure black"

- Some transparency mask objects are not printed in IPDS jobs.

Version 132.31.064_v3.08.002
Rank C

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 132.31.064_v3.06.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 132.31.064_v3.06.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:

* Increased the default processing speed.
  * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 132.31.064_v3.05.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.

- Fatal error occurs when printed specific jobs that contain
  halftone images.

Version 132.31.064_v3.04.001
Rank C

Specification changed:
1. The following functions are supported.
   - Enhance Tone Curve Adjustment
   - Global maintain sequential order and priority handling to input queue
   - Edit Function for Spot Color
   - Overprint support by Kodak and Screen APPE
2. The name of the RDP (remote desktop protocol) application that
   appears on the large operation panel was changed from Print
   Server Console to Digital Printing Terminal (Prinect DFE only).

Symptom corrected:
1. Fatal Error during IPDS printing with certain Type 1 font which
   has unusually large "/Copyright" description.
2. SC694-01 error with booting up or recovery from energy saver mode.
3. IPDS(x'023C') error occurred when the specific font was used.
4. IA fatal error occurs when printed data that uses 2-byte
   character in the ICC profile name.
5. Wire in the Vacuum Feed LCIT may break, if the STR timer is set
   too short and the system frequently wakes up from the STR mode or
   from a power Off state.
6. Fails to copy data to the Windows VM via USB flash drive.

Version 132.31.064_v3.03.004
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of
   the IPDS function.
2. IOCA parameters are overwritten with JPEG parameters when IOCA
   parameters contained in IPDS jobs generated by a third party
   vendor applications are enabled.
3. Using the install feature RIP Model S, the following is capable
   via EQUIOS:
   - Input of device link profile
   - Output without color conversion
4. In Configuration > Output jogging > On job boundary, Jogging
   ON/OFF can be specified on Prinect.
5. To enrich the output density of solid black images printed on RIP
   Model S, PDF data composed of CMY=0% and K=100% are printed in K=100%.
6. Page counter that appears on OCP is also displayed on Prinect via DFE.
7. Upgraded the APPE (feature RIP) version as follows:
   RIP Model H:Ver. 4.4 --> Ver. 4.8
   RIP Model K:Ver. 4.5 --> Ver. 4.7
   RIP Model S:Ver. 4.3 --> Ver. 4.8
8. To prevent unwanted after effects of a color conversion when
   using standard profiles, jobs set to Rich Black for [Text, Line Art]
   that have a white background are printed in Rich Black.
9. On the Feature RIP Model K, the Bleed Box (margin) data is fed

back to the DFE during RIP, to determine whether the color bars
can be printed on the pages or not.

Symptom corrected:
1. Cannot test print while logged on to the SP mode.
2. Error C014 (mismatch of Paper Catalog data between the engine and DFE)
   occurs, if a paper catalog is registered on the engine.

Version 132.31.063_v3.01.001
Rank D

1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2020/04/08
----------------------------------------------------------------
[Program Name] BOS_6/6
----------------------------------------------------------------
[Version] 132.31.064_v3.10.002
----------------------------------------------------------------
[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.] M5265008N_2
[File Information]
 File Name        M5265008N_2.rar
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             630.53 MB ( 661157665 byte )
 Check Sum -8Bit Sum: 2CD4
         -16Bit Sum(Little Endian): 6415
         -16Bit Sum(Big Endian): 9CBF
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



================================================================
*** Important Notes ***
================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.
- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
- Measurement of C100% images with Auto Calibration is lower than
  that measured with spectrophotometer and affects the output.
- Cannot print due to abnormal termination of Adobe PDF library
  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version 132.31.064_v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
  - Advanced > Black (text/line art) is set to "Pure black"

- Some transparency mask objects are not printed in IPDS jobs.

Version 132.31.064_v3.08.002
Rank C

Supported:
- New optional peripherals
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 132.31.064_v3.06.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 132.31.064_v3.06.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:

* Increased the default processing speed.
  * Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 132.31.064_v3.05.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.

- Fatal error occurs when printed specific jobs that contain
  halftone images.

Version 132.31.064_v3.04.001
Rank C

Specification changed:
1. The following functions are supported.
   - Enhance Tone Curve Adjustment
   - Global maintain sequential order and priority handling to input queue
   - Edit Function for Spot Color
   - Overprint support by Kodak and Screen APPE
2. The name of the RDP (remote desktop protocol) application that
   appears on the large operation panel was changed from Print
   Server Console to Digital Printing Terminal (Prinect DFE only).

Symptom corrected:
1. Fatal Error during IPDS printing with certain Type 1 font which
   has unusually large "/Copyright" description.
2. SC694-01 error with booting up or recovery from energy saver mode.
3. IPDS(x'023C') error occurred when the specific font was used.
4. IA fatal error occurs when printed data that uses 2-byte
   character in the ICC profile name.
5. Wire in the Vacuum Feed LCIT may break, if the STR timer is set
   too short and the system frequently wakes up from the STR mode or
   from a power Off state.
6. Fails to copy data to the Windows VM via USB flash drive.

Version 132.31.064_v3.03.004
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of
   the IPDS function.
2. IOCA parameters are overwritten with JPEG parameters when IOCA
   parameters contained in IPDS jobs generated by a third party
   vendor applications are enabled.
3. Using the install feature RIP Model S, the following is capable
   via EQUIOS:
   - Input of device link profile
   - Output without color conversion
4. In Configuration > Output jogging > On job boundary, Jogging
   ON/OFF can be specified on Prinect.
5. To enrich the output density of solid black images printed on RIP
   Model S, PDF data composed of CMY=0% and K=100% are printed in K=100%.
6. Page counter that appears on OCP is also displayed on Prinect via DFE.
7. Upgraded the APPE (feature RIP) version as follows:
   RIP Model H:Ver. 4.4 --> Ver. 4.8
   RIP Model K:Ver. 4.5 --> Ver. 4.7
   RIP Model S:Ver. 4.3 --> Ver. 4.8
8. To prevent unwanted after effects of a color conversion when
   using standard profiles, jobs set to Rich Black for [Text, Line Art]
   that have a white background are printed in Rich Black.
9. On the Feature RIP Model K, the Bleed Box (margin) data is fed

back to the DFE during RIP, to determine whether the color bars
can be printed on the pages or not.

Symptom corrected:
1. Cannot test print while logged on to the SP mode.
2. Error C014 (mismatch of Paper Catalog data between the engine and DFE)
   occurs, if a paper catalog is registered on the engine.

Version 132.31.063_v3.01.001
Rank D

1st Mass production

```
===========================================================================
*** Basic Information ***
===========================================================================
[Create date] 2020/04/08
-----------------------------------------------------------------
[Program Name] MICROCODE
-----------------------------------------------------------------
[Version] 3.10.002
-----------------------------------------------------------------
[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.] M5265061
[File Information]
 File Name        M5265061.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,430.53 MB ( 1500023672 byte )
 Check Sum -8Bit Sum: 4E39
        -16Bit Sum(Little Endian): 6507
        -16Bit Sum(Big Endian): 2232
[Availability of RFU] No
-----------------------------------------------------------------
[Production reflection]
-----------------------------------------------------------------


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

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



===========================================================================
*** Important Notes ***
===========================================================================
[Important Notes]
- Once after updating to this release, reverting to microcode
  v3.4.xxx or earlier will delete all job records and stored jobs
  from the DFE.
- Updating to this release from microcode v3.4.011 or earlier will
  delete all RIPped data.
- When installing this release, update the mainframe 'animation'
  firmware to the latest version together as a set, to allow proper
```

OCP UI display. (It is recommended to also update the firmware
for all other engine modules.)

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

Symptom corrected:
- IPDS printing with CPSI set to "Object Tag ID plane generation"
  causes extensive delay.
- The output color is not as expected or the print is affected by
  noise when cmyk overprint sequence is set to 'before color
  conversion' in Screen print (EQUIOS).
- Fatal error occurs when printed JMF (MJM file) via Hot Folder.
- Measurement of C100% images with Auto Calibration is lower than
  that measured with spectrophotometer and affects the output.
- Cannot print due to abnormal termination of Adobe PDF library
  followed by a fatal error.

Others:
- Correction was made to synchronize the disk check (fsck) and
  progress bar at startup.
- Support of PPML format jobs with the following options:
  * Skew
  * Reflection

[Modification history]

Version v3.09.001
Rank C

Supported:
- Updated APPE (RIP model H) from v4.9 to v5.3.
- For special toner underprint jobs, alert is notified to the DFE
  and printing stops when the special toner runs out.

Symptom corrected:
- DFE unexpectedly reboots during a job when the color option for
  the virtual printer is set as follows:
  - Most of the profiles are set as "Pass through"
  - Advanced > Black (text/line art) is set to "Pure black"

- Some transparency mask objects are not printed in IPDS jobs.

Version 3.08.002
Rank C

Supported:
- Manual calibration of Special toner
- IPDS devicelink profile
- Plockmatic banner sheet LCT

Symptom corrected:
- The console screen does not appear on the printer control panel.
- Fatal error occurs when attempted to run a PPML job that has small
  objects located toward the edges or has no version tag.
- If the job is suspended while printing the first page of a job,
  the job resumes by printing the first page again.
- Job does not print completely due to a fault in the plane memory
  buffer control.

Others:
- Changed the auto calibration printing from face-down to face-up
  delivery.

Version 3.6.002
Rank C

Supported:
- Paper library is supported in line with the new peripherals for
  the Pro C72xx/Pro C92xx series.

Symptom corrected:
- Fatal error occurs when sample print is specified at every 50
  sheets.

Version 3.6.001
Rank C

Supported:
- Using the install feature RIP Model S, the following is capable
  via EQUIOS:
   * Input of device link profile
   * Output without color conversion
- Supported the RPIP Box S3 to allow connection with third party
  vendor peripherals.
- Job separator sheets can be inserted after the job when the
  conditions below are met:
   * Feature 8B0316 is installed and enabled
- Added the new Side by Side Preview function to allow display of
  image before and after tone curve correction.
- When the number of copies defined in JDF is in decimal, the system
  refers to the integer.
- Auto Calibration supports the following new sizes: 12x18, 13x19
  and custom.
- Minor change of the Help display.
- The following changes were made for [175 dot halftone]:
   * Increased the default processing speed.

* Print quality is prioritized when enabled 'Feature 8B0315'.

Symptom corrected:
- Error occurs when graphics are positioned beyond the VPA even with
  Feature 8B4289 enabled.
- Impose settings made in TotalFlow Prep do not work for held jobs.
- The correct number of paper catalog entries may not apply when
  more than four entries are selected.
- Program check error occurs while editing job properties.
- When tone curve and color corrections are applied to RIPped jobs,
  the tone curve correction is not applied.
- Updating the calibration data using the Auto Calibration function
  causes an error.
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version 3.5.001
Rank C

Spec changes:
- In the ImageViewer preview screen, moving the cursor on the RIPped
  image displays the CMYK values.
- In Job Spool, job properties cab be changed in lump by selecting
  multiple jobs.
- Settings for preprinted sheets fed from the Interposer can be made
  on Prinect DFE.
- Output profile associated to the paper catalog entry is
  prioritized for IPDS printing.

Symptom corrected:
- When an extra long banner sheet is assigned to the bypass tray and
  the printer power is turned On/Off, the tray assignment setting is
  invalidated on the DFE.
- Manual calibration using a spectrophotometer results in an error
  with R-62.
- Printing banner sheets via TotalFlow BatchBuilder may result in an
  error.
- Saddle-stitching a one-page job with Plockmatic causes a paper jam
  at a 100% rate.
- Fatal Error occurs, displaying the message 'More pages have
  stacked than have been printed' when printed a AFP job mixed of
  stapled and non-stapled pages.
- Printing AFP files with IPDS results in a Fatal Error (Rs1:
  handleRdlAddItemRc, SM: smC_dispatchMessage).
- Changing the properties of a job RIPped with microcode 3.2.xx
  after updating to v3.3 results in a Fatal Error.
- Hard to see whether Sample print function is enabled or not on the
  printer panel.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error occurs when printed specific jobs that contain

halftone images.

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2020/05/08
--------------------------------------------------------------------
[Program Name] MICROCODE
--------------------------------------------------------------------
[Version] 3.9.019
--------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------
[Software category] Special Modification
--------------------------------------------------------------------
[Release category] Temporary Release
--------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265060_PR309019
[File Information]
 File Name       M5265060_PR309019.exe
 File Type       Module for Service(Over 1GByte File .zip/.exe)
 Size            1,430.56 MB ( 1500048532 byte )
 Check Sum -8Bit Sum: 95DD
        -16Bit Sum(Little Endian): C9E5
        -16Bit Sum(Big Endian): A8F8
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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



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

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

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


Symptom corrected:
- APPE error occurs with particular jobs that show "task complete
  failed" in the job report.
- Job is falsely punched even when punch setting is not applied.



--------------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 3.9.017
Rank C

Symptom corrected:
- BE08 and D305 occurred randomly.
- Fatal error caused by unexpected abort on Adobe PDF library.
- "Resource load error " occurred with certain AFP job.


-----------------------------------------
Version 3.8.011
Rank C

Symptom corrected:
- When printing a specific job, "Failed" is displayed in Job History.
- Fatal error occurred when submitting a lot of files by Prinect hot
  holder.
- Fatal error occurred after the toner supply.
- DFE froze after editing the tone curve in the job image viewer.
- Job failed when printing over 5000 files from MS WORD using
  mailing feature.
- Image Quality problems with SCREEN APPE.


-----------------------------------------
Version 3.6.019
Rank C

Symptom corrected:
Symptom:
- The logo on the document was not printed with a certain IPDS job.


-----------------------------------------
Version 3.6.013
Rank C

Symptom corrected:
Symptom:
- Fatal error when receiving the PPML job.
- Fatal error caused by mishandling error event during printing.
```

Version 3.6.011
Rank C

Symptom corrected:
Symptom:
- Cannot connect to the remote console on the printer Screen.
- Job error(getJobInfo) occurred with certain job.
- Low performance with IPDS job which includes PDF objects.
- Print becomes slow and stops at last with a certain job.
- SC919 occurred with the job whose contents of JDF ticket is too long.
- Enabling [IPDS] [Black/Gray reproduction] [Force K] results in
  very poor performance.
- Incorrect job name displayed when submitting the job through LPR protocol.

Version 3.5.015
Rank C

Symptom corrected:
Symptom:
- Print becomes slow and stops at last with a certain job.
- SC919 occurred with the job whose contents of JDF ticket is too long.
- Enabling [IPDS] [Black/Gray reproduction] [Force K] results in
  very poor performance.

Version 3.5.011
Rank C

Symptom corrected:
Symptom:
- Fatal error when unsupported banner size media(over 440 mm/Paper
  weight 8) is tried to add from Media Management Tool.
- Incorrectly count up as full color with B/W pages on the console.

Version 3.4.017
Rank C

Specification changed:
- Change the GUI of "Sample print" button on the printer panel.
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.
Symptom corrected:
Symptom:
- Duplicate paper catalog registration with certain procedures.
- Unable to connect to the remote console from printer panel.
- Fatal error with sample printing.
- Fatal error when printing from Prinect.
- DFE does not boot up with an error after updating from v3.2 or

before to v3.3 or later.
- Calibration data is faulty removed
- Tone curves are not applied properly when setting both at a paper
  catalog and virtual printer.
- SC919 error occurred with particular AFP job.

Version 3.4.011
Rank C

Symptom corrected:
Symptom:
- TotalFlow Prep impositions is not saved to the job.
- Program Check error occurred when pressing ESC key right after
  operation on the console screen.

Version 3.3.019
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error(Source 5002) when printing.
- IPDS VPA error occurs even if enabling "8B4289" feature.

Version 3.3.017
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Fatal error (Rs1: handleRdlAddItemRc) occurred when printing certain AFP job.

Version 3.3.015
Rank C

Symptom corrected:
Symptom:
- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.

Version 3.3.013
Rank C

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.

Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

Version 3.2.015
Rank C

Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.

Version 3.2.013
Rank C

Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2020/05/11
-------------------------------------------------------------------
[Program Name] MICROCODE
-------------------------------------------------------------------
[Version] 3.10.015
-------------------------------------------------------------------
[PCB No.]
-------------------------------------------------------------------
[Interchangeability] X / O
-------------------------------------------------------------------
[Other Firmware Requirements] None
-------------------------------------------------------------------
[PCB Requirements] None
-------------------------------------------------------------------
[Software category] Special Modification
-------------------------------------------------------------------
[Release category] Temporary Release
-------------------------------------------------------------------
[Program category] Firmware
-------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] M5265061_PR310015
[File Information]
 File Name        M5265061_PR310015.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,430.66 MB ( 1500152720 byte )
 Check Sum -8Bit Sum: 1F22
         -16Bit Sum(Little Endian): 5B6C
         -16Bit Sum(Big Endian): E5B6
[Availability of RFU] No
-------------------------------------------------------------------
[Production reflection]
-------------------------------------------------------------------


================================================================================
*** Note ***
================================================================================
[Note]
Microcode release for field issues.
See "Modifications made:" for detail.
**IMPORTANT**
This microcode(3.x) is only applicable to BOS 132.31.063/132.31.064.


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



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

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

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

Symptom corrected:
- System freezes when adjusting the tone curve in image view.
- When the memory runs out while printing, the error shows "program
  check" instead of "job failure."
- A fatal error occurs when processing a job specified with an
  incorrect page range.

[Modification history]

Version 3.9.019
Rank C

Symptom corrected:
- APPE error occurs with particular jobs that show "task complete
  failed" in the job report.
- Job is falsely punched even when punch setting is not applied.

Version 3.9.017
Rank C

Symptom corrected:
- BE08 and D305 occurred randomly.
- Fatal error caused by unexpected abort on Adobe PDF library.
- "Resource load error " occurred with certain AFP job.

Version 3.8.011
Rank C

Symptom corrected:
- When printing a specific job, "Failed" is displayed in Job History.
- Fatal error occurred when submitting a lot of files by Prinect hot
  holder.
- Fatal error occurred after the toner supply.
- DFE froze after editing the tone curve in the job image viewer.
- Job failed when printing over 5000 files from MS WORD using
  mailing feature.
- Image Quality problems with SCREEN APPE.

Version 3.6.019
Rank C

Symptom corrected:

Symptom:
- The logo on the document was not printed with a certain IPDS job.

Version 3.6.013
Rank C

Symptom corrected:
Symptom:
- Fatal error when receiving the PPML job.
- Fatal error caused by mishandling error event during printing.

Version 3.6.011
Rank C

Symptom corrected:
Symptom:
- Cannot connect to the remote console on the printer Screen.
- Job error(getJobInfo) occurred with certain job.
- Low performance with IPDS job which includes PDF objects.
- Print becomes slow and stops at last with a certain job.
- SC919 occurred with the job whose contents of JDF ticket is too long.
- Enabling [IPDS] [Black/Gray reproduction] [Force K] results in
  very poor performance.
- Incorrect job name displayed when submitting the job through LPR protocol.

Version 3.5.015
Rank C

Symptom corrected:
Symptom:
- Print becomes slow and stops at last with a certain job.
- SC919 occurred with the job whose contents of JDF ticket is too long.
- Enabling [IPDS] [Black/Gray reproduction] [Force K] results in
  very poor performance.

Version 3.5.011
Rank C

Symptom corrected:
Symptom:
- Fatal error when unsupported banner size media(over 440 mm/Paper
  weight 8) is tried to add from Media Management Tool.
- Incorrectly count up as full color with B/W pages on the console.

Version 3.4.017
Rank C

Specification changed:
- Change the GUI of "Sample print" button on the printer panel.
- Add new enhancement feature "8B0310_ZERO" that allows disabling to
  insert blank pages to the back side of simplex pages for the mix-
  plex job.
Symptom corrected:
Symptom:
- Duplicate paper catalog registration with certain procedures.
- Unable to connect to the remote console from printer panel.
- Fatal error with sample printing.
- Fatal error when printing from Prinect.
- DFE does not boot up with an error after updating from v3.2 or
  before to v3.3 or later.
- Calibration data is faulty removed
- Tone curves are not applied properly when setting both at a paper
  catalog and virtual printer.
- SC919 error occurred with particular AFP job.

Version 3.4.011
Rank C

Symptom corrected:
Symptom:
- TotalFlow Prep impositions is not saved to the job.
- Program Check error occurred when pressing ESC key right after
  operation on the console screen.

Version 3.3.019
Rank C

Symptom corrected:
Symptom:
- Intermittently display Fatal error(Source 5002) when printing.
- IPDS VPA error occurs even if enabling "8B4289" feature.

Version 3.3.017
Rank C

Symptom corrected:
Symptom:
- Manual calibration failed under certain condition.
- Fatal error (Rs1: handleRdlAddItemRc) occurred when printing certain AFP job.

Version 3.3.015
Rank C

Symptom corrected:
Symptom:

- Failed to print a single page job with folding by Plockmatic
  finisher.
- Fatal Error("More pages have stacked than have been printed")
  occurred when printing certain AFP job.
- Unnecessary waking up from energy saver mode occurred and it leads
  breaking the wire of LCT.
- Auto calibration error when updating the existed calibration.

Version 3.3.013
Rank C

Symptom corrected:
Symptom:
- Banner sheets do not print when sending print jobs from TotalFlow
  BatchBuilder.
- Fatal error("Subsystem 94 (RastIPDSSat1) caught a signal 11")
  occurred with AFP job using Type 1 font.
- IPDS : x'023C' error occurred when specific GMC fixed font was
  used.
- Disconnection between DFE and the printer with Energy saver mode.
- Fatal("FreeSerQGet") error occurred during printing.

Version 3.3.011
Rank C

Symptom corrected:
Symptom:
- Extra long paper(770.1-1260mm) assigned to Input tray was not
  recognized on the DFE after rebooting the printer.

Version 3.2.015
Rank C

Symptom corrected:
Symptom:
- Failed to print test chart from SP menu on the printer.

Version 3.2.013
Rank C

Symptom corrected:
Symptom:
- C014 error occurred after deleting the duplicated paper catalog entry.

```
===========================================================================
*** Basic Information ***
===========================================================================
[Create date] 2020/05/27
---------------------------------------------------------------------------
[Program Name] MICROCODE
---------------------------------------------------------------------------
[Version] v2.14.001
---------------------------------------------------------------------------
[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.] M5075065
[File Information]
 File Name        M5075065.exe
 File Type        Module for Service(Over 1GByte File .zip/.exe)
 Size             1,411.08 MB ( 1479629401 byte )
 Check Sum -8Bit Sum: 6251
         -16Bit Sum(Little Endian): 9738
         -16Bit Sum(Big Endian): 1C19
[Availability of RFU] No
---------------------------------------------------------------------------
[Production reflection]
---------------------------------------------------------------------------


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

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



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

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



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

[Modifications made:]
Rank C

Symptom corrected:
- Magenta appears darker than expected in the second and later
  copies, if a blank sheet is inserted between sets from the same
  tray as the printouts.

[Modification history]

Version v2.13.001
Rank C

Symptom corrected:
- TotalFlow Print Server restarts unexpectedly, if the job is
printed after making edits in Job Properties for Virtual Printer:
Print -> Color as follows:
  - Most of the profiles are set to "pass through" in the color menu.
  - Advanced -> Black(text/line art) is set to "Pure black".

Version v2.12.002
Rank C

Supported:
- Memory expansion was made available to increase the usage of
  memory.

Symptom corrected:
- Fatal error occurs if "Use Maximum Toner Density" is enabled for a
  calibration data created on the predecessor TotalFlow Print Server
  R-60/R-60A.
- The following errors occur when "Side Sensitive" is enabled in
  print settings:
  - Face-up jobs are falsely delivered face-down.
  - Front and back sides of the page are displayed oppositely in
    the preview screen.
  - Simplex jobs are falsely printed in duplex.

Version v2.11.001
Rank C

Symptom corrected:
- Pages are missing from the output when printed jobs that contain
  corrupted characters from the printer driver. Remote Console does
  not indicate any error after the job completes.
- Continuously running face-up mixplex jobs causes to print the
  first three pages of the job on the wrong side of the sheet.

Version v2.10.002
Rank C

Symptom corrected:
- Assigning a paper catalog entry created with MMT to a paper tray
  causes the calibration name on the DFE to appear blank.
- SC919 occurs with specific AFP jobs that contain overlays composed
  of small text objects.
- Fatal error may occur when printing is cancelled due to a jam
  while the DFE receives multiple PS jobs.
- Program check error "llegal access: calibrationLibraryData[14/14]"
  occurs while calibrating.
- Fatal Error "sysTraySettingRspProc" occurs while printing.
- Manual calibration using a spectrophotometer may result in a error
  showing incorrect measurements.
- If printed 1 copy of a job consisted of odd number pages in
  duplex, the OCP shows "2 copies" while printing the last page.
- Fatal error occurs when printed specific jobs that contain
  halftone images.
- Fatal error occurs as a result of incorrect file path name of the
  input calibration profile.
- If run a job set to print multiple copies and changes are made to
  tray paper settings for a tray that is not being used for the
  present job, the copy count on the OCP shows "0" copies.

Version 2.08.009
Rank C

Supported:
- Page counter that appears on OCP is also displayed on Prinect via DFE.
- In Configuration > Output jogging > On job boundary,
  Jogging ON/OFF can be specified on Prinect.
- Half-folding 297mmx467mm custom paper size with the multi-folding unit supported.
- Using the install feature RIP Model S, the following is capable via EQUIOS:
  - Input of device link profile
  - Output without color conversion

Symptom corrected:
- When the tray runs empty and paper is reloaded to resume the job, some pages are missing.

Version 2.7.001
Rank C

Supported:
1. IOCA parameters are overwritten with JPEG parameters when IOCA parameters
   contained in IPDS jobs generated by a third party vendor applications are enabled.
2. Supported the color management functions available in SCREEN host application (EQUIOS).
3. Disabled the color space for blending to prevent tone jumps.

Symptoms corrected:
1. A4 size test charts for the Media Management Tool are printed larger than expected,
   if printed using SRA3.
2. Hard abort may occur when continuously printing JMF files that contain return JMF

commands.
3. Fonts that can be printed in PDF/ASCII cannot be printed in IPDS.
4. Error message "There is not enough free space available." appears when attempted to back up files with insufficient storage in the USB.
5. Fatal error occurs due to CPSI memory leak when continuously printed for more than approximately 16 hours.
6. Hard abort (signal 9) occurs when printing JMF to the DFE.
7. Fatal error occurs when printing AFP data that contain TIFF files created with the wrong format.
8. The same job may falsely be repeated.
9. May fail to print the Printer Configuration sheet.
10. The screen turns white when changing the language setting of the DFE.
11. The following program check runs when opening JTE (Job Ticket Editor) and pressing OK without making any changes:

   Source: 172
   Id: 1
   Name: GetPlex
   Additional Data: GetValue for JTA_DUPLEX
   failed

Version 2.6.008
Rank C

Supported:
1. The new barcode of the Royal Mail (of UK) is supported as part of the IPDS function.
2. Output tray for proof prints can be switched from the finisher proof tray to the high capacity stacker proof tray.
3. Samba v2 was enabled for the Samba vulnerability issue.
4. DFE shares the device link profile information with the host system.

Symptom corrected:
1. Program check error "Cache is going suspiciously large" occurs during the job.
2. If the following jobs are run in the order as described and the tray runs out of paper while running the second job, the job is falsely applied with the punch option after resuming:
      First job: 1-page punch job
      Second job: Staple job (no punch)
3. The following symptoms occur if "Authentication required for local console" is enabled:
      - Product logo does not appear on the local console login screen.
      - The same user name is registered repeatedly every time when logged in by the default user.
      - The default user name does not appear under the ID drop-down list when attempted to log in.
4. Fatal error occurs, if a job saved on microcode v2.2.003 is run on an updated microcode v2.4.017.
5. If the job ticket size is too large, information cannot be written onto the job ticket partition and an SC919 occurs.
6. DFE falsely acknowledges the job as complete despite the job is still running, resulting in an SC919.
7. An inappropriate error message appears while calibrating.

Version 2.5.003
Specification Change:
1. The method for specifying output profile for IPDS jobs was made same to that
   for PDF jobs; priority is given to output profiles associated with media
   included in the paper catalog.
2. Device link profiling was added as a part of the profile setting procedure
   for IPDS jobs, to prevent unnecessary color conversion.

Symptom Corrected:
1. When inserting a separation page, color shift occurs on the pages before and
   after the separation page.
2. After rebooting the DFE, the Filter setting (String Replace) of virtual printer
   is lost.
3. If the "mm/inch" setting is changed in the paper catalog Print Registration
   screen, the change does not take effect.
4. Program Check error may occur while printing a PDF file by a process failure
   of Adobe Flex code.
5. The Impression counter falsely counts up Job Separation Sheets.
6. Response of the operation panel slows down, if a paper catalog is assigned to
   a tray via OCP while running a job.
7. Printing with the Filter function enabled causes the DFE to lock up.

Version v2.04.023
Spec changes:
1. Color conversion does not apply to black or gray (composed only of K) when
   processing using a base profile and the following settings:
     - Black (text/line art) in pure black
     - Preserve pure black
     - Print gray RGB using black

Symptoms corrected:
1. After the job completes the same job may get falsely reprinted.
2. Cannot apply the selected toner curve for IPDS jobs.
3. The DFE fails to connect to TotalFlow Ptint Manager and TotalFlow Prep.
4. Files may get lost if imported to the DFE.
5. Cannot send jobs to the DFE from a laptop PC.
6. The number of printed pages that appears on the DFE during a pause due to a
   jam or an empty tray is incorrect.
7. The number of printed pages that appears on the DFE may be incorrect.
8. If attempted to display the logs (Maintenance > Tools and logs > Logs) on
   the DFE Console, a program check error occurs and displays a warning message
   "invalid prb variable format."
9. Printing heavy jobs causes fatal errors and hard abort.
10. If the tray runs out of paper and then reloaded during the job, the number
    of copies printed is incorrect.
11. Number of pages printed is incorrect in PS jobs.
12. After rebooting the Prinect DFE and engine, BC12 occurs and jobs cannot be
    printed.
13. Jam occurs followed by SC919, if the system contains a Plockmatic finisher.
14. If the last page of a duplex job is specified as a blank page using the page

list function on a Prinect DFE, the last page is not counted.
15. When attempted to print a AFP job, a warning message appears on the DFE and
   printing stops with an SC919.
16. Punch jobs may result in the following errors:
   - fatal error
   - side id 397 freed...
   - Errorjmdb_getJobList;rc=3;prtr=1
   - SC670, SC919, SC844-11
17. When attempted to print jobs containing more than 40,000 pages, the DFE
   displays "Waiting to print" and stalls.
18. Fatal error (Signal 6 aborts) occurs while printing.

Version v2.04.016
Spec changes:
1. IPDS supports ForceK/PreserveK, similarly to APPE/CPSI.
2. To enable higher productivity for mixplex jobs, the number of simplex pages
   that go through the duplex path instead of the simplex path was increased
   from 3 to 10, and the function can also be enabled or disabled.
3. EQUIOS APPE version 4.3 supported.

Symptoms corrected:
1. Fatal error occurs when switching to a different toner on the 5th station.
2. Page number displayed during the job is incorrect, showing the numerator
   (pages printed) higher than the denominator (total number of pages).
3. Program check error message "a cooke KScreenSets could not be loaded" may
   appear after rebooting the DFE.
4. When printing a PDF job, printing stops midway after a few copies.
5. Blank pages are falsely counted as monochrome pages.
6. Printing stops unexpectedly in booklet jobs using the Plockmatic.
7. Fatal error (62) occurs during printing.
8. Device link profile is invalid.
9. Preview display takes about 2 minutes and a fatal error occurs in jobs that
   contain approximately 20,000 pages.
10. Texts are missing in IPDS jobs printed via Prisma Production.
11. IPDS fonts are invalid.

Version v2.03.009
1. If an entry in the paper catalog is deleted while printing a job, Hard Abort
   may occur depending on the timing of the deletion.
2. Fatal Error occurs, if the paper catalog is edited simultaneously from the
   printer operation panel and client PC.
3. Fatal Error may occur while the DFE attempts to recover from multiple errors.
4. Restoration fails after upgrading the microcode from v1.5.001 or earlier to
   v2.xx.xxx.
5. If a jam occurs in a staple job, the DFE reboots followed by a Fatal Error.
6. Sample print to the stacker proof tray is not possible, if printed on a
   custom paper of a size approximate to SRA3.
7. When starting up Prinect DFE, reaching Ready status from Not Ready status
   takes 5 minutes (at maximum).
8. If run a PS job that contains 20,000 or more pages, the job or the page
   counter display stalls at page 999.

Version v2.02.003
Specification Change:
1. GBC punch unit supported on Prinect DFE.
2. Following the release of the new neon yellow toner, "Clear Toner" displayed or
   specified on the console or the control panel or the driver of
   R-60A (v2.1.0.0 or later)/R-61A (v1.1.0.0 or later) changes to "Special Toner."

   Note:
   Make sure to update the below software as a set. Updating individually will
   mix up the display of Clear and Special.
   For more detail about the new special color toner, please refer to RTB RD194151.
     - 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

3. Minimum paper size for duplex printing was changed from 210.0mm to 200.0mm.
4. Calibration on the console supported.

Symptom Corrected:
1. SC919 and SC844-0x may occur when printing large jobs.
2. If a page range is selected from the first page of a PS job, the system remains
   in 'printing' status even after printing the selected range.
3. Sample print made on SRA3 cannot be fed out to the proof tray.

Version v2.01.003
1st Mass production