```
================================================================
*** Basic Information ***
================================================================
[Create date] 2017/08/31
----------------------------------------------------------------
[Program Name] Java VM v10 std for eDC
----------------------------------------------------------------
[Version] 10.27.04
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1295722A_edc
[File Information]
 File Name        D1295722A_edc.ifu
 File Type        Module for Service
 Size             53.42 MB ( 56014088 byte )
[Availability of RFU] No
----------------------------------------------------------------
[Production reflection]
----------------------------------------------------------------


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

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



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

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



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

===
[Modifications made:]
Symptom corrected:
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
   - An SDK application is set as a priority function.
   - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- The server certificate for DSDK has been changed to RSA2048/SHA256
  for security improvement purposes.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager NX
  family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
   - Device Manager NX Enterprise fails to retrieve the information
     about the application(s) installed on the device.
   - GlobalScan NX fails to apply profiles or retrieve device information
     when using the AdminTool.

[Modification history]

Version 10.26.01
Symptom Corrected:
1. After applying the security update that changes the priority
   order for cipher suites, SSL communication fails between an
   application that includes an SSL server function and the Windows
   operating system.
2. SDK application behavior may be incorrect or inconsistent.
   (CAP/ELP/SLNX/GSNX/etc.)
   Both the Standard (Compatibility mode) application and the SOP
   Optimized (Hybrid mode) application are affected by these issues.
   - Cannot log in.
   - Cannot scan.
   - Cannot print.
   - Error message appears.
3. When conducting location-free printing or authentication processing
   by using a solution product, an SC899 error might occur or Java
   VM might close unexpectedly and an SC error related to Java VM
   not responding might occur.
4. The DSDK application fails to connect to the LDAP server when
   using Kerberos authentication.

Version 10.25.00
Symptom corrected:
- Sending fax from the document server using IPv4-mapped address may
  result in an error.

Version 10.24.01
Symptom corrected:
- Less than 128-bit encryption methods will be prohibited.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- Machine may stall, if scanned from the contact glass with Size
  Setting disabled.
- SC637 may occur, if the machine is shut down while printing.
- CAP V2 is disabled if switched to Energy Saver mode while CAP V2
  starts up after power ON.
- The machine cannot enter Energy Saver Mode after repeatedly
  entering and recovering from the mode.
- If a keystroke reader is connected to the device, SC 899 may occur
  when the device is returned from energy save mode.

Version 10.20.05
Symptom corrected
1. In SLNX v2.3.0 or later, the printer accounting method will be changed to
   match the MFP specifications in SLNX.
2. When an ESA application is installed via Remote Install Manager, the heap size
   may be reset to the default size from the specified size.
3. When Java VM is updated via Remote Install Manager, the stack size may be
   reset to the default size from the specified size.
4. If the following is repeated, devices with CAP v2 installed will stall
   or behave slowly.
   - Log in to the device --> Switch to energy save mode --> Return from energy save mode
5. When an ESA application remains in an offline state such as an ESA application
   accesses the device HDD or entering SP mode, if the device switches to offline mode
   (such as when entering UP), the device may stall.

Version 10.19.00
 Symptom corrected:
- In the case that "Allow" is selected for "Print jobs without user
  names" in a Streamline NX AAM-E device template, jobs sent
  directly from the host system to a device can be printed
  immediately even though the jobs do not contain user information.
- Less than 128-bit encryption methods will be prohibited.

Version 10.17.00
 Error Correction:
- Minor bug correction

Version 10.16.05
Symptom Corrected:
- If the ESA application is installed, HTTP communication may not be
  performed correctly.
- Application switching might not be perfomed when Steamline NX or
  3rd vendor application switches the normal application on the
  operation panel.
- When the device display language is Turkish or Catalan, the ESA
  application icon does not display on the home screen.
- When switching a language on the initial setting screen, if the
  initial setting screen is closed immediately, the display does not
  switch the language in the ESA application.

Version 10.15.00
Fixed:
1. SC899 may occur when the machine recovered from energy saver mode.
2. An unexpected screen may appear when a device with 9 or more
   ESA applications installed recovers from energy saver mode.

Version 10.13.06
Fixed:
1. The User Code Authentication screen may not appear properly after
   a device with the "Administrator Authentication Management"
   setting enabled recovers from energy saver mode.
2. When an ESA application is closed by a user moving to the Home screen,
   the ESA application continues behaving as if it is displayed on
   the operation panel. As a result, the user cannot move to other
   applications because the screen is locked by the ESA application.
3. ESA application name is displayed in Japanese if the device
   language is not supported by the ESA application.
4. After performing a Java VM remote update process on the device,
   installed ESA applications show a "Stopped" status and do not
   restart automatically.
5. When a device failed to reboot after receiving a reboot request
   from a device management application, installed ESA applications
   would not restart automatically and remained in "Stopped" status.

Version 10.12.02
Fixed:
1. SC997 may occur on a device during repeated entries and recoveries
   from energy saver mode.
2. Unnecessary temporary files remain after the remote installation of
   ESA applications.
3. The device freezes and displays "Please wait..." on the operation panel
   when the device receives a print job while in energy saver mode.
4. An application that doesn't have enhanced encryption may be

installed to the device even though "Enhanced Encryption Strength"
is turned ON to prohibit it.
5. Unable to display the device settings screen or Web Image Monitor
because of internal process locks.
6. SC990 may occur when a device with a CAPv2 installation recovers
from energy saver mode.
7. SC672-02 may occur when a device with a GlobalScan NX installation
recovers from energy saver mode.
8. WVGA LP devices cannot display the Java TM Platform settings screen.
9. A Java VM internal processing may result in a failure of the
device reboot, SC991 or SDK application stopped.

Version 10.11.02
Fixed:
1. Device reboot takes longer than is standard if the completion
message displayed after importing "Device Setting Information" is
not closed promptly.
2. Pop-up messages are displayed without message text if the message
is displayed immediately after changing the device's language setting.
3. In rare conditions, SC899 or "Internal Error" might occur because
of a Java VM bug.
4. The "Please wait..." screen is not closed when attempting to
access a SDK application after recovering from energy saver mode.

Version 10.10.01
Fixed:
SC997 may occur when the device recovers from energy saver mode.

Version 10.09.00
Fixed:
Switching to ELP-NX v2 from another application may cause SC997 if
switching is performed while a large number of jobs are being
transmitted to the device.

Version 10.07.02
Fixed:
Kerberos Authentication is performed multiple times, causing a
memory leak.

Version 10.06.02
Symptom corrected:
1. More internal resources are consumed than required during
internal file open and close operations, such as SDK application
installation. This could result in unexpected behavior.

2. CAP v1.4.7 or later doesn't start-up due to a bug in an internal
   process which affects the AL-C2(D129, D130), GR-C1(D117, D118) and
   S-C5(D127,D128).

Version 10.05.01
Symptom corrected:
1. An error occurs with the Auto Start-up feature of SDK/J applications.
2. The last page is not printed when attempting to print out certain PS data.
3. The user cannot obtain a login password.
4. The software keyboard used with an Xlet application does not close
   (cannot be cleared) when User Authentication is enabled.
5. The application's main screen cannot be displayed after the
   software keyboard is closed.
6. The Card Authentication Package (SDK/J application) does not
   recover following a failed machine reboot.
7. Cannot reboot/stop an Xlet application when the installation of
   the application is cancelled.
8. The SDK/J application cannot be activated after switching from
   off-line to on-line.
9. A log-out error occurs with certain SDK applications.
10. The FAX sender's name appears garbled if composed of multi-byte characters.
11. The platform does not reboot when the SDK heap is set to its
    maximum value.
12. Other minor corrections were applied.

Version 10.04.02
Symptom corrected:
1. SC899 occurs when a user swipes a card on the card reader
   while the device is in 'sleep' mode.
2. An "OutOfMemory" error occurs due to lack of device memory
   when some programs are running.
3. SDK application installation infrequently results in the disappearance
   of a previously installed SDK application if multiple
   embedded programs are installed.
4. Garbled characters can be included in the FAX "TSI" attribute
   if the fax is handled by the Java VM. This can cause unexpected
   results for SDK applications, such as file naming errors if using
   the "TSI" attribute for naming metadata.

Version 10.03.01
Symptom corrected:
1. Even when the file type has been fixed at "PDF/A", other types of
   PDF files can be created.
2. User codes and names are not displayed in the Job Log for jobs
   that involve scanning or plotting using an SDJ/J application.
3. The area of the screen displayed behind a modal dialog responds
   to touch operations under the following conditions:
   Modal dialog is displayed -> User changes the screen (e.g. Copier
   to Home screen) -> User returns to original screen with dialog

4. Cannot login following a series of repeated logins and logouts.
5. The stack size cannot be changed.
6. "OutOfMemoryException" occurs.
7. "StateMachine" cannot be stopped or canceled correctly.
8. A time-out occurs in Muffling mode.
9. Some of the login User IDs acquired by the application appear blank.
10. SC899 sometimes occurs at the conclusion of an SSL session.

Other changes:
1. Revised the wording of the error message displayed when the
   screen is unable to switch to another application using a
   requestVisibleXlet.
2. The threshold for triggering "Memory full" was changed.
3. Supports VM Card eDC-i1.2.

Version 10.01.06
Initial release

```
================================================================================
*** Basic Information ***
================================================================================
[Create date] 2017/08/31
--------------------------------------------------------------------
[Program Name] Java VM v10 std UpdateTool
--------------------------------------------------------------------
[Version] 10.27.04
--------------------------------------------------------------------
[PCB No.]
--------------------------------------------------------------------
[Interchangeability] X / O
--------------------------------------------------------------------
[Other Firmware Requirements] None
--------------------------------------------------------------------
[PCB Requirements] None
--------------------------------------------------------------------
[Software category] Normal Release
--------------------------------------------------------------------
[Release category] Normal Release
--------------------------------------------------------------------
[Program category] Firmware
--------------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1295722A_upd
[File Information]
 File Name        D1295722A_upd.exe
 File Type        Module for Service
 Size             52.65 MB ( 55203590 byte )
 Check Sum -8Bit Sum: A698
        -16Bit Sum(Little Endian): A4E2
        -16Bit Sum(Big Endian): 99B6
[Availability of RFU] No
--------------------------------------------------------------------
[Production reflection]
--------------------------------------------------------------------


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

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



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

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

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
Symptom corrected:
- Startup may take a long time and SC998 may occur if Streamline NX
  and CAP v2 are installed.
- The SDK application icon might not be displayed after recovering
  from energy saving mode under the following conditions:
    - An SDK application is set as a priority function.
    - An SDK application is set as a function key.
- SC899-00 may occur if logging in from a keyboard.
- The server certificate for DSDK has been changed to RSA2048/SHA256
  for security improvement purposes.
- If only IPv6 is enabled on the device, utility tools (e.g. Device Manager NX
  family or Streamline NX v3) will fail to install applications remotely.
- The following issues occur if any device certificate is imported
  using the Device Manager NX Enterprise Certificate Management Tool.
    - Device Manager NX Enterprise fails to retrieve the information
      about the application(s) installed on the device.
    - GlobalScan NX fails to apply profiles or retrieve device information
      when using the AdminTool.



----------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 10.26.01
Symptom Corrected:
1. After applying the security update that changes the priority
   order for cipher suites, SSL communication fails between an
   application that includes an SSL server function and the Windows
   operating system.
2. SDK application behavior may be incorrect or inconsistent.
   (CAP/ELP/SLNX/GSNX/etc.)
   Both the Standard (Compatibility mode) application and the SOP
   Optimized (Hybrid mode) application are affected by these issues.
    - Cannot log in.
    - Cannot scan.
    - Cannot print.
    - Error message appears.
3. When conducting location-free printing or authentication processing
   by using a solution product, an SC899 error might occur or Java
   VM might close unexpectedly and an SC error related to Java VM
   not responding might occur.
4. The DSDK application fails to connect to the LDAP server when
   using Kerberos authentication.



-----------------------------------------
Version 10.25.00
Symptom corrected:
- Sending fax from the document server using IPv4-mapped address may
```

result in an error.

Version 10.24.01
Symptom corrected:
- Less than 128-bit encryption methods will be prohibited.
- If Kerberos authentication is performed with an ESA application
  (e.g. CAP v2, Streamline NX), the handling cannot time out even if
  the specified time expires.
- If an ESA application that uses Administrator Authentication
  Management, User Authentication Management, or Enhanced External
  Charge Unit Management (e.g. CAP v2, Streamline NX) stops during
  logout handling, the logout cannot be completed.
- Machine may stall, if scanned from the contact glass with Size Setting
  disabled.
- SC637 may occur, if the machine is shut down while printing.
- CAP V2 is disabled if switched to Energy Saver mode while CAP V2
  starts up after power ON.
- The machine cannot enter Energy Saver Mode after repeatedly entering
  and recovering from the mode.
- If a keystroke reader is connected to the device, SC 899 may occur
  when the device is returned from energy save mode.

Version 10.20.05
Symptom corrected:
- In SLNX v2.3.0 or later, the printer accounting method will be
  changed to match the MFP specifications in SLNX.
- When an ESA application is installed via Remote Install Manager,
  the heap size may be reset to the default size from the specified
  size.
- When Java VM is updated via Remote Install Manager, the stack size
  may be reset to the default size from the specified size.
- If the following is repeated, devices with CAP v2 installed will
  stall or behave slowly.
  Log in to the device --> Switch to energy save mode --> Return
  from energy save mode
- When an ESA application remains in an offline state such as an ESA
  application accesses the device HDD or entering SP mode, if the
  device switches to offline mode (such as when entering UP), the
  device may stall.

Version 10.19.00
 Symptom corrected:
- In the case that "Allow" is selected for "Print jobs without user
  names" in a Streamline NX AAM-E device template, jobs sent
  directly from the host system to a device can be printed
  immediately even though the jobs do not contain user information.
- Less than 128-bit encryption methods will be prohibited.

Version 10.17.00
 Error Correction:
- Minor bug correction

Version 10.16.05
Symptom Corrected:
- If the ESA application is installed, HTTP communication may not be
  performed correctly.
- Application switching might not be perfomed when Steamline NX or
  3rd vendor application switches the normal application on the
  operation panel.
- When the device display language is Turkish or Catalan, the ESA
  application icon does not display on the home screen.
- When switching a language on the initial setting screen, if the
  initial setting screen is closed immediately, the display does not
  switch the language in the ESA application.

Version 10.15.00
Fixed:
1. SC899 may occur when the machine recovered from energy saver mode.
2. An unexpected screen may appear when a device with 9 or more
   ESA applications installed recovers from energy saver mode.

Version 10.13.06
Fixed:
1. The User Code Authentication screen may not appear properly after
   a device with the "Administrator Authentication Management"
   setting enabled recovers from energy saver mode.
2. When an ESA application is closed by a user moving to the Home screen,
   the ESA application continues behaving as if it is displayed on
   the operation panel. As a result, the user cannot move to other
   applications because the screen is locked by the ESA application.
3. ESA application name is displayed in Japanese if the device
   language is not supported by the ESA application.
4. After performing a Java VM remote update process on the device,
   installed ESA applications show a "Stopped" status and do not
   restart automatically.
5. When a device failed to reboot after receiving a reboot request
   from a device management application, installed ESA applications
   would not restart automatically and remained in "Stopped" status.
6. SC997 may occur on a device during repeated entries and
   recoveries from energy saver mode.
7. Unnecessary temporary files remain after the remote installation
   of ESA applications.
8. The device freezes and displays "Please wait..." on the operation

panel when the device receives a print job while in energy saver mode.
9. An application that doesn't have enhanced encryption may be
   installed to the device even though "Enhanced Encryption Strength"
   is turned ON to prohibit it.
10. Unable to display the device settings screen or Web Image Monitor
    because of internal process locks.
11. SC990 may occur when a device with a CAPv2 installation recovers
    from energy saver mode.
12. SC672-02 may occur when a device with a GlobalScan NX
    installation recovers from energy saver mode.
13. A Java VM internal processing may result in a failure of the
    device reboot, SC991 or SDK application stopped.

Version 10.12.02
Fixed:
1. SC997 may occur on a device during repeated entries and
   recoveries from energy saver mode.
2. Unnecessary temporary files remain after the remote installation
   of ESA applications.
3. The device freezes and displays "Please wait..." on the operation
   panel when the device receives a print job while in energy saver mode.
4. An application that doesn't have enhanced encryption may be
   installed to the device even though "Enhanced Encryption Strength"
   is turned ON to prohibit it.
5. Unable to display the device settings screen or Web Image Monitor
   because of internal process locks.
6. SC990 may occur when a device with a CAPv2 installation recovers
   from energy saver mode.
7. SC672-02 may occur when a device with a GlobalScan NX installation
   recovers from energy saver mode.
8. WVGA LP devices cannot display the Java TM Platform settings screen.
9. A Java VM internal processing may result in a failure of the
   device reboot, SC991 or SDK application stopped.

Version 10.11.02
Fixed:
1. Device reboot takes longer than is standard if the completion
   message displayed after importing "Device Setting Information" is
   not closed promptly.
2. Pop-up messages are displayed without message text if the message
   is displayed immediately after changing the device's language setting.
3. In rare conditions, SC899 or "Internal Error" might occur because
   of a Java VM bug.
4. The "Please wait..." screen is not closed when attempting to access
   a SDK application after recovering from energy saver mode.

Version 10.10.01
Fixed:

SC997 may occur when the device recovers from energy saver mode.

Version 10.09.00
Fixed:
Switching to ELP-NX v2 from another application may cause SC997 if
switching is performed while a large number of jobs are being
transmitted to the device.

Version 10.07.02
Fixed:
Kerberos Authentication is performed multiple times, causing a
memory leak.

Version 10.06.02
Symptom corrected:
1. More internal resources are consumed than required during
   internal file open and close operations, such as SDK application
   installation. This could result in unexpected behavior.
2. CAP v1.4.7 or later doesn't start-up due to a bug in an internal
   process which affects the AL-C2(D129, D130), GR-C1(D117, D118) and
   S-C5(D127,D128).

Version 10.05.01
Symptom corrected:
1. An error occurs with the Auto Start-up feature of SDK/J applications.
2. The last page is not printed when attempting to print out certain PS data.
3. The user cannot obtain a login password.
4. The software keyboard used with an Xlet application does not close
   (cannot be cleared) when User Authentication is enabled.
5. The application's main screen cannot be displayed after the
   software keyboard is closed.
6. The Card Authentication Package (SDK/J application) does not
   recover following a failed machine reboot.
7. Cannot reboot/stop an Xlet application when the installation of
   the application is cancelled.
8. The SDK/J application cannot be activated after switching from
   off-line to on-line.
9. A log-out error occurs with certain SDK applications.
10. The FAX sender's name appears garbled if composed of multi-byte characters.
11. The platform does not reboot when the SDK heap is set to its
    maximum value.
12. Other minor corrections were applied.

Version 10.04.02
Symptom corrected:

1. SC899 occurs when a user swipes a card on the card reader while the device is in 'sleep' mode.
2. An "OutOfMemory" error occurs due to lack of device memory when some programs are running.
3. SDK application installation infrequently results in the disappearance of a previously installed SDK application if multiple embedded programs are installed.
4. Garbled characters can be included in the FAX "TSI" attribute if the fax is handled by the Java VM. This can cause unexpected results for SDK applications, such as file naming errors if using the "TSI" attribute for naming metadata.

Version 10.03.01
Symptom corrected:
1. Even when the file type has been fixed at "PDF/A", other types of PDF files can be created.
2. User codes and names are not displayed in the Job Log for jobs that involve scanning or plotting using an SDJ/J application.
3. The area of the screen displayed behind a modal dialog responds to touch operations under the following conditions:
   Modal dialog is displayed -> User changes the screen (e.g. Copier to Home screen) -> User returns to original screen with dialog
4. Cannot login following a series of repeated logins and logouts.
5. The stack size cannot be changed.
6. "OutOfMemoryException" occurs.
7. "StateMachine" cannot be stopped or canceled correctly.
8. A time-out occurs in Muffling mode.
9. Some of the login User IDs acquired by the application appear blank.
10. SC899 sometimes occurs at the conclusion of an SSL session.

Other changes:
1. Revised the wording of the error message displayed when the screen is unable to switch to another application using a requestVisibleXlet.
2. The threshold for triggering "Memory full" was changed.
3. Supports VM Card eDC-i1.2.

Version 10.01.06
Initial release

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/03/29
----------------------------------------------------------------
[Program Name] Web Support
----------------------------------------------------------------
[Version] 1.20
----------------------------------------------------------------
[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.] D1295755N
[File Information]
 File Name        D1295755N.fwu
 File Type        Module for Service
 Size           5.23 MB ( 5485908 byte )
[File Information]
 File Name        D1295755N.rfu
 File Type        Module for Remote Upgrade
 Size           5.24 MB ( 5492992 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/04
----------------------------------------------------------------


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

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


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

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

```
=================================================================
*** Basic Information ***
=================================================================
[Create date] 2019/12/19
-----------------------------------------------------------------
[Program Name] Network Support
-----------------------------------------------------------------
[Version] 12.02
-----------------------------------------------------------------
[PCB No.]
-----------------------------------------------------------------
[Interchangeability] X / O
-----------------------------------------------------------------
[Other Firmware Requirements] None
-----------------------------------------------------------------
[PCB Requirements] None
-----------------------------------------------------------------
[Software category] Normal Release
-----------------------------------------------------------------
[Release category] Normal Release
-----------------------------------------------------------------
[Program category] Firmware
-----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1295754T
[File Information]
 File Name        D1295754T.fwu
 File Type        Module for Service
 Size             8.31 MB ( 8717804 byte )
[File Information]
 File Name        D1295754T.rfu
 File Type        Module for Remote Upgrade
 Size             8.32 MB ( 8724736 byte )
[Availability of RFU] Yes
-----------------------------------------------------------------
[Production reflection] 2019/11
-----------------------------------------------------------------


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

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


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

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


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

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

Other changes:
The chage is effective only for Japanese machine.

[Modification history]

Version 12.01
Rank C

Symptom corrected:

- A vulnerability (CVE-2019-1559) to a Padding Oracle Attack on CBC
  encryption has been fixed.
  To activate this fix, CBC mode must be disabled after updating the firmware.
  msh> set cbc down
  msh> logout
  Enter "yes" to save the changes.

Version 11.104.1
Rank C

Symptom corrected:
- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to
  "active", authentication will fail.
- SC819 might occur after updating firmware remotely.

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 v2.20 (D1295760B)
  Network Support v11.104.1 (D1295754R)
  Web Support v1.20 (D1295755N)
  Scanner v01.14 (D1295759F)

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

Version 11.103
Other changes:
- Changed the DH key specification to use 2,048 bits instead of 512
  bits to prevent the Logjam vulnerability (CVE-2015-4000).
  In addition, by modifying this specification, SSL/TLS communication
  can be established when using Mac OS X 10.10.4 and iOS 8.4.

Version 11.102

Symptom corrected:
- When the display language of the operation panel is set to Catalan,
  Scan to Folder fails.

Other changes:
Supports IPv6 and DNS communication with @Remote.

IMPORTANT: To apply the above change(s), make sure to install this firmware together
as a set with the following:
  System/Copy firmware v2.16 (D1295751Y) or later

Version 11.101
 Other changes:
- When printing from the Windows operating system, if the RAW
  protocol is used for the standard TCP/IP port, a significant
  amount of time might pass until the next job is printed. Because
  of this, the initial print timeout period is changed to 15 seconds
  and the shortest timeout period that can be set is changed to 5
  seconds.

Version 11.100
Symptom corrected:
- When the device repeatedly goes in and out of Energy Saver Mode
  while the web browser is running on the operation panel, an SC899
  error might occur.

Version 11.99
Symptom corrected:
1. Although the LLMNR of IPv4 and IPv6 are enabled in Web Image
   Monitor, it might not affect the printed result of the NIB
   Summary (SP5-990-007) and/or the Print List in Interface Settings
   of System Settings.
2. When DHCP v6 is enabled, turning the power off and then on might
   cause a memory leak.
3. When simultaneously printing from AppleTalk on a Mac and a
   protocol other than AppleTalk in Windows, an SC899 error might
   occur.
4. When PEAP or TTLS is used as the IEEE 802.1X authentication
   method and the server certification check is disabled, the IP
   address might not be obtained after the device is restarted.
5. When DHCP is enabled and the network settings are changed, it
   might take more than two minutes for the settings to finish
   updating.
6. @Remote communication may fail.
   Note: To apply this change, make sure to update to System v2.11
        (D1295751S) or later.

Version 11.98
Other changes:

- Support for AirPrint.

Version 11.96
Symptom corrected:
- SC899 occurs if an error occurs with the wireless card.
- When NBT is "OFF", Browse list is not shown if touch the Browse
  Network button on destination folder of Scan to folder.
- Cannot scan to shared folders in Windows 8 and Windows Server 2012.
- Cannot scan to shared folders in Mac OS X 10.7 or Mac OS X 10.8.
- Unable to set the Mask Length in Configuration > User
  Authentication Management when the user sets the IPv6 Access
  Control Range as Mask in Configuration > Security > Access Control
  in the Web Image Monitor.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
System/Copy firmware v2.08(D1295751P) or later

Version 11.93.3
 Symptom corrected:
- SMB timeout increased to 20 seconds (from 10 seconds).
- If the device is unable to login to Active Directory (because of a bad password for example),
  it will continue to try logging in and the account will eventually be locked.
  This only occured when Kerberos Authentication was being used.
- Printing the NIB Summary (SP-5-990-007) and/or " System Settings > Interface Settings > Print List "
  multiple times might result in an SC819.

Other changes:
Support for AirPrint.
-This firmware is dependent on the following firmware modules.
 Please be sure to update all of them:
   Printer firmware v1.08 (D1295763E) or later
   PDF v1.03 (D1295734B) or later

Version 11.92
Symptom corrected:
- The MFP will always authenticate users using the Domain Name of
  the device (configured via WIM or User Tools) instead of a domain
  specified when a user enters their username in the format user@domain.
- If the MFP acquires its hostname from DHCP, the NCS daemon's boot
  process will restart. While NCS is restarting, it is unable to
  respond to requests from the printing system to start some of the
  printing-related services (diprint, lpd, usbd, wsprnd...).
- DHCP option 204 has no effect on device settings.

Version 11.88.1
Symptom corrected:
1. The device allows users with invalid Windows usernames
   (containing specific combinations of the '@' and 'backslash' characters)

to authenticate, via Windows Authentication as Guests.
2. Attempting to establish a WPA connection to an SSID consisting of
   exactly 32-bytes might result in an SC899.
3. If the hard disk is not installed, the device might fail 802.1x authentication
   and cannot connect to the network.
4. If the hard disk is not installed, the device cannot create the
   certificate by selecting the SHA512WithRSA4096 algorithm or the
   SHA256WithRSA4096 algorithm.

Version 11.86
Symptom corrected:
1. Access violation might not be logged even if the number of access
    exceeds the threshold.
2. Enabling DHCP Option 204 via telnet might result in SC899 and the
    device being inaccessible via network. It affected the device in
    which DHCPv6 is enabled.
3. If the telnet command "ssh genky" does not have the key length option,
    an 1024 bit SSH public key might be created instead of 2048 bit.
4. @Remote cannot log the use of the WSD-Printer protocol.
5. LLNMR host name resolution via wireless connection might fail if
    the default hostname setting is used.
6. IPv6 Access Control Range setting might not work if the Mask
    Length setting is used.
7. A user in a different but trusted domain might fail in Windows
    Authentication.
8. 802.1x authentication via wired LAN might fail if LEAP is
    selected for the EAP Type setting.
9. The SSL session might be disconnected by a server which only
    supports DSA authentication. It affected the device in which only
    3DES is selected for Encryption Strength Setting.
10. When the device connects to a switch, SC899 might occur and the
    device might be rebooted. It affected the device that meets all
    of the following conditions:
     - 802.1x authentication is enabled
     - Any EAP type other than LEAP is selected
     - Site Certificate is enabled

Version 11.77.2
 Symptom corrected:
1.Making successive configuration changes to the device via a WIM
 https connection, while the device is in sleep mode, might result
 in the device hanging up.

Version 11.77
1st Mass production

```
================================================================
*** Modification History ***
================================================================
[Modifications made:]
Rank C
Other changes:
- Newly added SMBv2/v3 support.
  This firmware is dependent on the following firmware modules.
  Please be sure to update all of them:

  Network Support v11.104.1 (D1295754R)
  Web Support v1.20 (D1295755N)
  Scanner v01.14 (D1295759F)


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



--------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 1.19
 Other changes:
- In SLNX v2.3.0 or later, the printer accounting method will be
  changed to match the MFP specifications in SLNX.



-----------------------------------------
Version 1.18
Symptom corrected:
When using the web development tools like Firebug in Web Image
Monitor,users who do not have the authority of editing might even be
able to edit the administrative privileges of each.




-----------------------------------------
Version 1.17
Specification change:
Compliant with Blue Angel regulations.



-----------------------------------------
Version 1.16
Symptom Corrected:
The following problems occur in Web Image Monitor when using Windows Internet Explorer 10:

- Cannot select, drag, delete, or move icons in Device Management >
  Device Home Management > Edit Icons.
- Cannot drag selected items or display or hide items in Device Management >
  Address Book > Maintenance > Items Displayed in Address List.
- When adding icons in Device Management > Device Home Management >
  Edit Icons, the column headings of the table are out of alignment.
```

- When adding a user in Device Management > Address Book >
  Address List (Display All Items), the column headings of the table are out of alignment.

Version 1.15
Symptom corrected:
Administrators cannot edit a user's Fax Destination by using the Wizard
Method in the Web Image Monitor.

Version 1.14
Symptom corrected:
- Even using a valid image file, errors occur when an image is added
  to the Home Screen (Device Management > Device Home Management >
  Home Screen Settings > Insert Image).
- If the device encounters an unrecoverable error, the unrecoverable
  error will not be displayed in WIM. WIM will show the device status as "OK".
- If an SDK is selected as the operation panel's priority function
  (WIM > Configuration > Function Key Allocation/Function Priority >
  Function Priority), the Copier screen will be the operation panel's
  priority function instead of the selected SDK application.

Version 1.13
Symptom corrected:
The LDAP fields "Login Name Attribute" and "Unique Attribute" only
allow alpha-numeric characters, not symbols.

Version 1.12
Symptom corrected:
Users that were added to the addressbook by logging in to a device
using Card Authentication Package v2 will not be able to edit their
Home Screen icons.

Version 1.11
Symptom corrected:
1. The error message "The backup file or the encryption key is
   invalid. Unable to restore." is displayed after a successful
   restoration of the Address Book using a backup created from a
   device with different Accessories.
2. Fixed: Problems affecting the error messages displayed by Web
   Image Monitor. Some of the pages on which the problems occurred
   include "Device Setting Information: Import Setting (Server)"
   and " Import Test" page.
3. Fixed: The value of the Adjust Stamp Position setting's X
   coordinate shown in Web Image Monitor might not match the one
   configured in the operation panel.

4. The Import Test (initiated from inside Preferences) always
   returns a result of "Successful", even when the test actually
   fails, if it is initiated while the machine is in operation.
5. SC990 occurs or the machine stops printing after the first job,
   if the user tries to print out a large number of stored documents at once.
6. The previous (most recent) counter value for each unrestricted
   user is displayed as "0" on the touch panel, when it should be
   displayed as "--------".
7. The previous value of the ECO counter may be cleared if the user
   continuously presses "Clear current value".

Other changes:
Supports Remote FAX.

Version 1.07
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/03/29
----------------------------------------------------------------
[Program Name] Scanner
----------------------------------------------------------------
[Version] 01.14
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1295759F
[File Information]
 File Name       D1295759F.fwu
 File Type       Module for Service
 Size        1.24 MB ( 1301516 byte )
[File Information]
 File Name       D1295759F.rfu
 File Type       Module for Remote Upgrade
 Size        1.25 MB ( 1306880 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/04
----------------------------------------------------------------


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

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


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

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

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

Symptom corrected:
- When a machine administrator logs in to the device, the "Scanner Features"
  screen might suffer from low brightness and be unresponsive.


----------------------------------------------------------------------
[Modification history]
-----------------------------------------
Version 01.13
Symptom corrected:
- When changing the configuration in the Initial Settings screen or
  Web Image Monitor, a message appears, stating that the settings
  for each application's configuration were reset even though the
  appropriate settings were applied.

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


-----------------------------------------
Version 01.12
Symptom corrected:
Only the admin is able to add/remove Copier or Scanner icons from
the Home screen using "Program to Home".


-----------------------------------------
Version 01.11
 Symptom corrected:
1.SC889 may occur when storing data via "Scan To Media".
2.TWAIN jobs  that are recovered after an error ("Scanning has been
  aborted.", "Scanner is not available. Check the scanner connection
  status.") are not recorded in the MFP's Job Log. Note: Please
  remember that Web Smart Device Monitors logs are derived partly
  from the Job Log. Therefore these recovered jobs will also be
  missing from there.


-----------------------------------------
Version 01.09
1st Mass production
```

```
========================================================================
*** Basic Information ***
========================================================================
[Create date] 2020/01/20
------------------------------------------------------------------------
[Program Name] System/Copy
------------------------------------------------------------------------
[Version] 2.24
------------------------------------------------------------------------
[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.] D1295760F
[File Information]
 File Name        D1295760F.fwu
 File Type        Module for Service
 Size             18.69 MB ( 19596440 byte )
[File Information]
 File Name        D1295760F.rfu
 File Type        Module for Remote Upgrade
 Size             18.70 MB ( 19603712 byte )
[Availability of RFU] Yes
------------------------------------------------------------------------
[Production reflection] 2019/12
------------------------------------------------------------------------


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

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


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

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


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

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

Symptom corrected:
- The startup process for JavaVM was adjusted to lower the risk of
  SC899 occurring when using Streamline NX.


```
----------------------------------------------------------------
```
[Modification history]
```
----------------------------------------
```
Version 2.23
Rank C

Other changes:
When using the Stream Line NX ver3 for a certain amount of time,
SC899 or "Functional Error. Please restart device" message might be displayed.


```
----------------------------------------
```
Version 2.22
Rank C

Other changes:

The wait timer for the startup of the SDK/J application can be
increased through SP mode.
SP5-101-190: PrimacyApli WaitTimer
 0: 180 seconds
 1: 360 seconds


```
----------------------------------------
```
Version 2.21
Rank C

Symptom corrected:
- Kerberos authentication might take time because the TCP timestamp
  starts with a zero.


```
----------------------------------------
```
Version 2.20
Rank C

Symptom corrected:
- In the case of the following conditions, when attempting to log in
  to a device with CAP v2 installed, the attempt may fail with the
  "Failed to authenticate. Address Book is being updated." error message.
  - The FAX function is enabled on the device.
  - "Logout Using Card" is set as "On" in the CAP configuration tool.
- When a machine administrator logs in to the device, the "Scanner
  Features" screen might suffer from low brightness and be unresponsive.
- An invalid value is returned when obtaining the counter MIB,
  ricohEngCounterValue, during device shutdown.
- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
- System/Copy v2.20 (D1295760B)
- Network Support v11.104.1 (D1295754R)
- Web Support v1.20 (D1295755N)
- Scanner v01.14 (D1295759F)
Please refer to the RTB(No.RGene095) for details.

Version 2.19
Symptom Corrected:
- An SC819 error might occur when using network-related functions,
  such as accessing Web Image Monitor.
- The machine may stall without displaying the preview and thumbnail
  of the scanned data.

Version 2.18
Symptom Corrected:
1. SC867 may occur if an SDK application is (already) installed on
   the machine.
2. LDAP server connection test, LDAP address book research and user
   login may fail with SSL enabled LDAP server.
3. POP mail may not be received, if the mail contains UIDL that does
   not comply with RFC.

Version 2.17
Symptom Corrected:
SC 817, SC 819, SC 878-03 occur.

Version 2.16
Symptom Corrected:
1. The tracking information for a FAX transmission job is not sent to the tracking app.
2. SC637 may occur.

Other changes:
1. If a job from a remote HDD is printing on a device with ELP-NX v2 installed,
   if the device where the print job is spooled encounters high CPU usage,
   SC997 will not occur but the message "Loading... Please wait." will appear.
2. Supports IPv6 and DNS communication with @Remote.

IMPORTANT: To apply the above change(s), make sure to install this firmware together
as a set with the following:
   Network Support firmware v11.102 (D1295754P) or later

Version 2.15
 Symptom Corrected:
1. When reaching the near-end status of the fusing web unit, the
   banner message "Prepare new Maintenance Kit B" does not appear
   on the operation panel.

Other changes:
1. Authorized EQ information has been supported.
2. When an MFP receives a print job that includes a userID, the MFP
   can use the userID to authenticate in embedded applications that
   allow user code authentication.
3. SP5-490-001 (MF Key Card: Job Permit Setting) is now available.
Note: Previously, this SP could only be used on machines sold in
      Japan.

Version 2.14
 Other changes:
- This firmware was modified to support a new IC card reader/writer
  (PR-700), as production of the current type (PR-450) was
  discontinued.

Version 2.13
Symptom corrected:
1. Debug log data cannot be extracted to an SD card.
2. The following occur if the [OK] or [Cancel] button (software
   keys) on the Security screen is repeatedly pressed to close the
   SKB screen.
   - SC816
   - Hard keys do not respond
   - The machine cannot recover from Sleep mode.

Version 2.12
Other changes:
A login screen is displayed at power ON, which requires the
Administrator or Supervisor to set a password in cases where this
password has not been set yet.

Version 2.11
Symptom corrected:
1. The machine does not detect a USB storage device inserted into
   the SD slot.
2. The machine stops detecting USB storage devices that support
   encryption after a USB device that does not support encryption is
   connected.
3. The time correction for Summer Time (Southern Hemisphere) is not
   applied after the setting is enabled.
4. All communication between an Embedded RC Gate and the @Remote
   Center is interrupted if a time-out error occurs during SSL
   negotiation.
   Note: Instead of retrying the negotiation, the machine switches
   to Rescue Mode (updating of machine certificates).
   To apply this change, make sure to update to Network Support
   v11.99 (D1295754L) or later.
5. [Embedded RC Gate]: @Remote auto calls (Ex. service calls, supply
   calls, alarm calls) are not sent from the device if engine-

related SC errors occur frequently within a short period of time.
6. Some text in the Administrator settings screen for the Eco-
   friendly Counter may appear as garbled characters.
7. Some customized icons (used by SDK apps) may not appear on the
   Home screen when the machine is woken from Energy Saver mode
   using an IC card (auto login).
8. The machine may stall due to a memory leak when Preferences
   import/export is executed.
9. SC878 occurs when the main power is turned on, and the controller
   board cannot boot up normally.

Version 2.10
Specification change:
Compliant with Blue Angel regulations.

Error Correction:
1. When the SDK is installed, it might not be possible to switch to
   other functions from the Home screen.
2. After logging on, when switching to another application, the
   window for entering a login username and password might appear.
3. When User Authentication or User Code authentication is set,
   logging on from Web Image Monitor and the operation panel at the
   same time might fail. If that occurs, pressing the Cancel button
   on the operation panel will not function properly.
4. If printing a large number of pages job(about 200 pages) by the
   device that doesn't have a hard disk, the device might stall with
   blinking the Data In LED light.

Version 2.09
Symptom corrected:
1. Cannot modify the SDK authentication settings using a utility;
   Settings for SDK1 are overwritten instead.
2. SC637-01 may occur when a Copy job is initiated from an SDK application.
Conditions:
- The user is not registered with the SDK
- Usage restrictions via the optional external counter apply to the SDK

Version 2.08
Symptom corrected:
1. When recovering from Energy Saver mode, a message appears which
   stating that the settings for each application's configuration were reset.
2. Only the admin is able to add/remove Copier icon from the Home
   screen using "Program to Home".
3. Cannot scan to shared folders in Mac OS X 10.7 or Mac OS X 10.8.

Version 2.07
Symptom corrected:

1. The user is able to edit scanner forwarding addresses that were
   added after an LDAP search, even though usage restrictions for

scanner addresses have been enabled.
2. The addition, modification, or deletion of a User Code is not
   applied to the tracking application, even though Tracking has
   been enabled for User Code Authentication or Basic Authentication.
3. The SDK logout notification may be sent out twice.
4. Some SP related items on the SMC sheet (e.g. Assert generation
   information, ROM part number, software version, etc.) may appear
   on the SMC printout as "No String" if the report is printed out in Text mode.
5. The machine may instruct the user to login as a Machine
   Administrator if the user attempts to save or delete a Copier or
   Scanner application to/from the Home screen.

Version 2.06
Other changes:
The default value for A3/DLT Double Count (SP5-104-001) was changed to "1".
0: Single count
1: Double count (default)

Version 2.05
Other changes:
SP5-083-001 was newly added.
  0: Does not blink (default)
  1: Blinks

Note:
- This SP makes it possible to set whether or not the [Check Status]
  key blinks when Toner Near End is reached.
- With previous firmware versions, this key always blinked when Toner Near End was reached.

Version 2.04
Symptom corrected:
1. The Hub and device may not be able to communicate if "100M Full Duplex" is selected/set.
2. Part of the panel display for SP5-749 appears garbled.

Version 2.03
Symptom corrected:
The page for Extended Features cannot be displayed in WIM if the
 page accessed while the machine is switching to Energy Saver mode.

Version 2.02
Symptom corrected:
1. SC819 or SC870 may occur under the following conditions:
  - The user programs an entry into the Address Book after the
    machine recovers from Energy Saver mode, and
  - The FAX option is installed but the HDD unit is not
2. SC819 or SC878 may occur if the machine cannot correctly detect
   the onboard NAND flash (USB device) when recovering from Energy

Saver mode or at power ON.
3. SC819 may occur when the Inquiry List is printed out if the
   display language is set to Brazilian Portuguese.
4. Administrators may be able to log in to the machine even if their
   account has been locked out.

Version 2.01
Symptom corrected:
1. SC899 may occur if the operator interrupts a Copy job, changes
   the job settings, and then resumes the job.
2. The Check Status screen may not be displayed after the operator
   wakes the machine from Energy Saver mode by pressing the "Check Status" key.
3. The job name may appear as asterisks ("***") if the user is
   logged into the machine via Basic Authentication.
4. A job may be displayed in the Job List even after it has been deleted.
5. When an authenticated user deletes all of one's own Print jobs,
   other users' jobs may also be deleted.
6. The estimated time until printing may be displayed as "999 minutes".
7. The machine may freeze if the Back up/Restore feature (user
   custom settings) is used shortly after the machine boots up.
8. The machine may freeze when a Document Server document is printed
   out using Combine.
9. Other minor bug corrections were applied.

Version 2.00.3
Symptom corrected:
1. SC819 may occur when the SDK/J is installed via an administration server.
2. The machine recovers from Energy Saver mode according to the
   weekly timer, even after the user has cleared the timer.
3. The buzzer sounds when an unauthorized user or Administrator
   pushes a button for a restricted function.
4. The touch screen may turn white if the user selects "No" when
   asked if they wish to log out after trying to exit from the
   Extended Features screen.
5. SC899 may occur when the user selects "Startup Settings" inside
   the Extended Features screen in the WIM interface.
6. Installation of a Type-C SDK application may fail if the
   application's SD card is inserted in Slot 2 and the installation
   is performed from the WIM interface.
7. Movement of EXJS firmware to an SD card may fail.
8. Text characters cannot be input correctly using an external keyboard.
9. Other minor bug corrections were applied.

Other changes:
Supports Remote FAX.

Version 1.05.5
Minor bug correction

Version 1.05.4
Symptom corrected:
The E-region of the S5 chart shows light image density.

Version 1.05.3
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/04/06
----------------------------------------------------------------
[Program Name] PCL
----------------------------------------------------------------
[Version] 1.21
----------------------------------------------------------------
[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.] D1295762R
[File Information]
 File Name        D1295762R.fwu
 File Type        Module for Service
 Size            1.32 MB ( 1380348 byte )
[File Information]
 File Name        D1295762R.rfu
 File Type        Module for Remote Upgrade
 Size            1.32 MB ( 1384704 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/04
----------------------------------------------------------------


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

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


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

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

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

[Modifications made:]

Symptom corrected:

- When characters that contain the incorrect TrueType font data are
  printed, not only are incorrect characters missing but also are
  correct characters that follow incorrect characters.
  (GFPR#RE16030046)
- An SC899 error occurs when using the PCL6 driver to print a PDF
  from the Reader application in Windows 8.1.
  (GFPR#RA15050002)
- Some lines and/or borders might be missing from PCL jobs.
  (GFPR#RC16040013)
- If a PCL5 job is printed under certain conditions related to the
  font header information when using host printing, PCL default
  fonts are used. (GFPR#RE14100009)
- The image quality output from PCL5 data might be poor if the image
  was created by using certain applications, such as RICOH ProcessDirector.
  (GFPR#RE15030034)
- An SC899 error might occur when printing a PCL job which contains
  reduce or enlarge image.
  (GFPR#RE16020028)


```
----------------------------------------------------------------------
```
[Modification history]
```
-----------------------------------------
```
Version 1.20

 Symptom Corrected:

- If a raster image is specified in the PCL6 driver to be reduced,
  be enlarged, or undergo N-up printing, unexpected white lines
  might appear in the printout. (GFPR#RA14080005, GFPR#RA14110005)


```
-----------------------------------------
```
Version 1.19

 Symptom corrected:

1. Using a bitmap font might result in jobs being cancelled.
   (GFPR#RE13100030)
2. If an image size is big and has been enlarged by using
   the "Reduce/Enlarge" option in the PCL6 driver, unexpected white
   lines might appear in the printout.
3. When printing an N-up PCL6 job by using a printer driver that is
   for Windows 8 or a later Windows operating system, some
   characters are missing.
4. When printing a PCL5 host-printing job in which 32,000 or more of
   the fill patterns are specified, the device will stall.


```
-----------------------------------------
```
Version 1.18

Symptom corrected:
When printing more than 111,600 bytes of a bitmap font-equivalent
to a character that is larger than 39.62mm x 39.62mm-via a driver,
an SC899 might occur.

Version 1.17
 Symptom corrected:
1. Text in duplex PCL jobs are shifted and therefore overlap other
   text when the data is subjected to both of the following
   conditions:
   - Specify the frontside of the page by using the < Esc >&a1G
     command when the current page is the backside.
   - The offset command < ESC >&l#U or < ESC >&l#Z is used after the
     drawing command is specified.
   (GFPR#RC13060012, GFPR#RE14010003)

2. When printing PCL5 jobs that include a scalable font, an SC899
   error occurs or the device automatically reboots when fonts have
   exceeded the 256-character limit available for download.
   (GFPR#RE14020003)
3. PCL jobs with a specified clip range might print unnecessary 1-
   pixel width lines on the printout.
4. If the glyph data of TrueType fonts includes hinting information
   that is on the edge of the frame, an SC899 error might occur.
   (GFPR#RC14030010)

Version 1.16
Symptom corrected:
1. Transparencies might be blacked out of printed pages.
   (GFPR#RE13040026)
2. When printing certain documents in Microsoft Word, an SC899 error
   might occur.

Version 1.15
Symptom corrected:
1. Print data that contains many intricate curve lines might take a
   long time to print. (GFPR#RE13030010)
2. Specific TrueType fonts that include problematic hinting data
   might cause an SC899 error to occur. (GFPR#RA13030005)

Version 1.14
Symptom corrected:
When a PCL5 job includes a raster image, the text and images might
be placed in the wrong position, which would result in an unexpected
printout. (GFPR#RE13020014)

Version 1.13
Symptom corrected:
When specifying a tray other than the Auto Tray Select as the Input
Tray and using Shift Collate or Rotate Collate, the documents are
printed without being shifted.(GFPR#RE12110018)

Version 1.12
Symptom corrected:
Error SC899 caused by PCL jobs names (@PJL JOBNAME) that contain
any number of "%" characters and a banner page. (GFPR#RE12090010)

Version 1.11
Symptom corrected:
If a PCL job includes multiple types of characters, large font sizes
in a substantial print job, or graphics that are of large file sizes,
the printer cancels the job in the middle of printing.

Version 1.10
Symptom corrected:
1. PCL5 jobs containing an "ECS&l0C" command result in an SC899.
2. Blank Page Print bug resulting in PCL5 overlays stalling (Blank
   Page Print = Off) or the device continually printing blank pages
   until the MFP runs out of paper (Blank Page Print = On).

Version 1.09
Symptom corrected
1. Fixed: "Font Number" 0 (operation panels' PCL Menu) is always
   used as the default font for PCL5 jobs. Selection of another font
   as the default had no effect.

Version 1.08
Symptom corrected
1. SC899 caused by the printing of specific kinds of scalable
   TrueType fonts. (GFPR#RE11100007)
2. The use of a PCL5 macro results in an extra blank page being
   added to the job. (GFPR#RE11110012)
3. PCL5 tray selection commands might be ignored resulting in the
   job being printed from tray 1.
   PCL XL jobs with valid tray selection commands might result in
   the PCL XL error "Warning IllegalMadiaSource".

Version 1.07
1st Mass production

```
================================================================
*** Basic Information ***
================================================================
[Create date] 2018/04/03
----------------------------------------------------------------
[Program Name] Printer
----------------------------------------------------------------
[Version] 1.13
----------------------------------------------------------------
[PCB No.]
----------------------------------------------------------------
[Interchangeability] X / O
----------------------------------------------------------------
[Other Firmware Requirements] None
----------------------------------------------------------------
[PCB Requirements] None
----------------------------------------------------------------
[Software category] Normal Release
----------------------------------------------------------------
[Release category] Normal Release
----------------------------------------------------------------
[Program category] Firmware
----------------------------------------------------------------
Exported to(language) GEN(all)
[Firmware No.] D1295763K
[File Information]
 File Name        D1295763K.fwu
 File Type        Module for Service
 Size            3.58 MB ( 3752744 byte )
[File Information]
 File Name        D1295763K.rfu
 File Type        Module for Remote Upgrade
 Size            3.59 MB ( 3760384 byte )
[Availability of RFU] Yes
----------------------------------------------------------------
[Production reflection] 2018/04
----------------------------------------------------------------


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

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


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

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

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

Symptom corrected:
- When a job is sent to the device while it is in Energy Saver mode,
  "Auto Continue" function does not work and a paper size error occurs.

[Modification history]

Version 1.12
 Other changes:
SP5-490-001 (MF Key Card: Job Permit Setting) is now available.
Note: Previously, this SP could only be used on machines sold in Japan.

Version 1.11
Symptom corrected:
1. The Compulsory Security Stamp is not printed under the following
   conditions:
   - "Compulsory Security Stamp: Printer" is enabled in the
     Administrator Tools of System Settings.
   - The printer displays one of the following languages: Simplified
     Chinese, Traditional Chinese, Korean, Thai, Hebrew, Arabic, or
     Turkish. (GFPR#RA13100005)
2. The printer might stall when one of the following is performed:
   - Printing without storing jobs that contain exclusions when
     using the "Card Authentication Package V2", "Enhanced Locked
     Print NX V2", "Card Authentication Package Enterprise Server
     V2", or "Enhanced Locked Print NX Flex Server V2" setting.
   - Printing a webpage from the browser on the operation panel.
3. When an A4-size document is printed from the bypass tray while
   the printer is in Low Power Mode, the setting "Paper Confirmation
   for Bypass Tray" is configured to "Display", and A4 paper is set
   to LEF in the bypass tray, a paper jam occurs.

Version 1.10
Symptom corrected:
When printing a gzip file, print jobs might be reset. If that
occurs, the message "Compressed Data Error." will appear on the
display.

Version 1.09
Symptom corrected:
The Compulsory Security Stamp either does not print correctly or

is might be missing from printouts when printing.

Version 1.08
Other changes
Changed: Support for AirPrint.
This firmware is dependent on the following firmware modules.
Please be sure to update all of them:
Network Support Firmware v11.93.3 (D1295754H) or later
PDF v1.03 (D1295734B) or later

Version 1.07
Symptom corrected:
The Scheduled Printing function (a Hold Print function) might not
 work with Basic Authentication.

Version 1.06
Symptom corrected:
1. If Store and Skip Errored Job = ON, then printing 200 (max. #
   that can be held in the queue) Hold Print jobs might result in
   the printer stalling or automatically rebooting.
2. The 'Store and Skip Errored Job' icon might be shown on the
   printer's Job List tab, indicating that a job has been stored and
   skipped, even if a job has not been stored and skipped.
3. The label "Host Interface" of the the Printer Features > Host
   Interface tab is too long and extends beyond the edge of the tab.
4. If the "Store and Skip Errored Jobs" function is enabled some
   jobs might take longer than normal to start printing.
5. The job attributes (User ID, job name, etc.) shown in the Sample
   Print and Hold Print dialogues might not be the attributes of the
   currently selected job. For example, when the Delete button in
   the Hold Print dialogue is pressed, the confirmation message
   might ask whether to delete another job.

Version 1.05.1
1st Mass production