

**Reissued: 06-Jan-15**

Model: Java VM v4 Update Tool	Date: 09-Jul-12	No.: RGene050e
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**RTB Reissue**

The items in bold italics have been corrected or added.

Subject: Firmware Release Note: Java VM v4 Update Tool		Prepared by: K. Kunimatsu	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Java VM v4 Update Tool**.

AG-C1(D016), AI-C1(D009, D011, D012, D013), AP-C2(D027, D029), AGL-C1(D097), Aries-C1.5(D095), AT-C2(D023, D025), Be-C1.5(D154, D155), DI-C1(D037, D038, D040, D041), R-C5(D017, D018, D019, D020), V-C2(D014, D015), AI-P1(G179), G-P3(G190), Be-C1(D046, D049), AI-C1.5(D091, D092), R-C5.5(D084, D085)

Version	Model	Type	Program No.	Effective Date
<b>4.30.00</b>	<b><i>AG-C1, AI-C1, AP-C2, AGL-C1, Aries-C1.5, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2</i></b>	<b><i>Opt.</i></b>	<b><i>D4135765T_upd</i></b>	<b><i>December 2014 production</i></b>
	<b><i>AI-P1, G-P3</i></b>	<b><i>Opt.</i></b>	<b><i>M3445915V_upd</i></b>	
	<b><i>Be-C1, Be-C1.5</i></b>	<b><i>Prn.</i></b>	<b><i>D5685765J_upd</i></b>	
	<b><i>AI-C1.5, R-C5.5</i></b>	<b><i>Std.</i></b>	<b><i>D3775918L_upd</i></b>	
4.29.00	AG-C1, AI-C1, AP-C2, AGL-C1, Aries-C1.5, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2	Opt.	D4135765S_upd	April 2013 production
	AI-P1, G-P3	Opt.	M3445915T_upd	
	Be-C1, Be-C1.5	Prn.	D5685765H_upd	
	AI-C1.5, R-C5.5	Std.	D3775918K_upd	
	AI-C1.5 (for China)	Opt.	D3775928G_upd	
4.28.00	AG-C1, AI-C1, AP-C2, AGL-C1, Aries-C1.5, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2	Opt.	D4135765R_upd	January 2013 production
	AI-P1, G-P3	Opt.	M3445915S_upd	
	Be-C1, Be-C1.5	Prn.	D5685765G_upd	
	AI-C1.5, R-C5.5	Std.	D3775918J_upd	
	AI-C1.5 (for China)	Opt.	D3775928F_upd	

**Reissued: 06-Jan-15**

Model: Java VM v4 Update Tool		Date: 09-Jul-12		No.: RGene050e
4.27.00	AG-C1, AI-C1, AP-C2, AGL-C1, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2	Opt.	D4135765Q_upd	July 2012 production
	AI-P1, G-P3	Opt.	M3445915R_upd	
	Be-C1, Be-C1.5	Prn.	D5685765F_upd	
	AI-C1.5, R-C5.5	Std.	D3775918H_upd	
	AI-C1.5 (for China)	Opt.	D3775928E_upd	
4.26.05	AG-C1, AI-C1, AP-C2, AGL-C1, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2	Opt.	D4135765P_upd	June 2012 production
	AI-P1, G-P3	Opt.	M3445915Q_upd	
	Be-C1, Be-C1.5	Prn.	D5685765E_upd	
	AI-C1.5, R-C5.5	Std.	D3775918G_upd	
	AI-C1.5 (for China)	Opt.	D3775928D_upd	
4.25.07a	AG-C1, AI-C1, AP-C2, AGL-C1, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2	Opt.	D4135765N_upd_a	November 2011 production
	AI-P1, G-P3	Opt.	M3445915P_upd_a	
	Be-C1, Be-C1.5	Prn.	D5685765D_upd_a	
	AI-C1.5, R-C5.5	Std.	D3775918F_upd_a	
	AI-C1.5 (for China)	Opt.	D3775928C_upd_a	
4.25.07	AG-C1, AI-C1, AP-C2, AGL-C1, AT-C2, Be-C1.5, DI-C1, R-C5, V-C2	Opt.	D4135765N_upd	November 2011 production
	AI-P1, G-P3	Opt.	M3445915P_upd	
	Be-C1, Be-C1.5	Prn.	D5685765D_upd	
	AI-C1.5, R-C5.5	Std.	D3775918F_upd	
	AI-C1.5 (for China)	Opt.	D3775928C_upd	

Version	Modified Points or Symptom Corrected
<b>4.30.00</b>	<b>Error corrected:</b> <b>SDK platform may not boot up when next power-on if stopping start process of SDK app.</b>
4.29.00	Fixed: 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.
4.28.00	Fixed: 1. When tracking is enabled using usage control service, incorrect scanning paper size information is sent from ESA application which is installed on A4 models.

**Reissued: 06-Jan-15**

Model: Java VM v4 Update Tool		Date: 09-Jul-12	No.: RGene050e
Version	Modified Points or Symptom Corrected		
	<ol style="list-style-type: none"> <li>Unlock the application switching function might results in "NullPointerException" error.</li> <li>When ESA application sends a FAX job using multibyte character set, the sender is garbled on the recipient device.</li> <li>AES-256 may be used as Kerberos encryption algorithm even though it is not specified.</li> </ol>		
4.27.00	Fixed: 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.		
4.26.05	Fixed: <ol style="list-style-type: none"> <li>Kerberos authentication using AES128/AES256 results are slow compared to Kerberos authentication using RC4HMAC.</li> <li>Saved passwords cannot be retrieved properly and causes application authentication failure.</li> <li>SDK application installation infrequently results in the disappearance of a previously installed SDK application if multiple embedded programs are installed.</li> <li>The device's operation panel sometimes freezes when the software keyboard is closed.</li> </ol>		
4.25.07a	Symptom corrected: Program number "D3775901" version update fails.		
4.25.07	Symptom corrected: <ol style="list-style-type: none"> <li>SDK/J starting logo screen does not change.</li> <li>Vulnerability to the re-negotiation of SSL/TLS .</li> <li>Other minor bugs corrections.</li> </ol> Other changes: <ol style="list-style-type: none"> <li>Kerberos certification corresponding to RC4-HMAC code form.</li> <li>Support for Model Be-C1.5 (D154)</li> </ol>		
4.24 or earlier	Please refer to the separate RTBs for previous version release.		

**Reissued: 06-Jan-15**

Model: Java VM v4 for eDC	Date: 27-Jul-12	No.: RGene056c
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**RTB Reissue**

The items in bold italics have been corrected.

Subject: Firmware Release Note: Java VM v4 for eDC		Prepared by: K. Kunimatsu	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Java VM v4 for eDC**.

This module is for Remote Install Manager and updating Java VM. Please apply the Program No. corresponding to each model for eDC update.

AI-C1(D009, D011, D012, D013), AP-C2(D027, D029), AT-C2(D023, D025),  
 Be-C1(D046, D049), ~~Be-C1.5(D154, D155)~~, DI-C1(D037, D038, D040, D041),  
 R-C5(D017, D018, D019, D020), V-C2(D014, D015), AI-P1(G179), G-P3(G190),  
 AI-C1.5(D091, D092), R-C5.5(D084, D085)

Version	Model	Type	Program No.	Effective Date
4.30.00	<b><i>AI-C1, AP-C2, AT-C2, Be-C1, DI-C1, R-C5, V-C2</i></b>	<b><i>Opt.</i></b>	<b><i>D4135765T_edc</i></b>	<b><i>December 2014 production</i></b>
	<b><i>AI-P1, G-P3</i></b>	<b><i>Opt.</i></b>	<b><i>M3445915V_edc</i></b>	
	<b><i>Be-C1</i></b>	<b><i>Prn.</i></b>	<b><i>D5685765J_edc</i></b>	
	<b><i>AI-C1.5, R-C5.5</i></b>	<b><i>Std.</i></b>	<b><i>D3775918L_edc</i></b>	
4.29.00	AI-C1, AP-C2, AT-C2, Be-C1, DI-C1, R-C5, V-C2	Opt.	D4135765S_edc	April 2013 production
	AI-P1, G-P3	Opt.	M3445915T_edc	
	Be-C1	Prn.	D5685765H_edc	
	AI-C1.5, R-C5.5	Std.	D3775918K_edc	
	AI-C1.5 (for China)	Opt.	D3775928G_edc	
4.28.00	AI-C1, AP-C2, AT-C2, Be-C1, <del>Be-C1.5</del> , DI-C1, R-C5, V-C2	Opt.	D4135765R_edc	January 2013 production
	AI-P1, G-P3	Opt.	M3445915S_edc	
	Be-C1, <del>Be-C1.5</del>	Prn.	D5685765G_edc	
	AI-C1.5, R-C5.5	Std.	D3775918J_edc	
	AI-C1.5 (for China)	Opt.	D3775928F_edc	

**Reissued: 06-Jan-15**

Model: Java VM v4 for eDC		Date: 27-Jul-12		No.: RGene056c
4.27.00	AI-C1, AP-C2, AT-C2, Be-C1, <del>Be-C1.5</del> , DI-C1, R-C5, V-C2	Opt.	D4135765Q_edc	July 2012 production
	AI-P1, G-P3	Opt.	M3445915R_edc	
	Be-C1, <del>Be-C1.5</del>	Prn.	D5685765F_edc	
	AI-C1.5, R-C5.5	Std.	D3775918H_edc	
	AI-C1.5 (for China)	Opt.	D3775928E_edc	
4.26.05	AI-C1, AP-C2, AT-C2, Be-C1, <del>Be-C1.5</del> , DI-C1, R-C5, V-C2	Opt.	D4135765P_edc	June 2012 production
	AI-P1, G-P3	Opt.	M3445915Q_edc	
	Be-C1, <del>Be-C1.5</del>	Prn.	D5685765E_edc	
	AI-C1.5, R-C5.5	Std.	D3775918G_edc	
	AI-C1.5 (for China)	Opt.	D3775928D_edc	
4.25.07	AI-C1, AP-C2, AT-C2, Be-C1, <del>Be-C1.5</del> , DI-C1, R-C5, V-C2	Opt.	D4135765N_edc	November 2011 production
	AI-P1, G-P3	Opt.	M3445915P_edc	
	Be-C1, <del>Be-C1.5</del>	Prn.	D5685765D_edc	
	AI-C1.5, R-C5.5	Std.	D3775918F_edc	
	AI-C1.5 (for China)	Opt.	D3775928C_edc	

Version	Modified Points or Symptom Corrected
<b>4.30.00</b>	<b><i>Error corrected</i></b> <b><i>SDK platform may not boot up when next power-on if stopping start process of SDK app</i></b>
4.29.00	Fixed: 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.
4.28.00	Fixed: <ol style="list-style-type: none"> <li>When tracking is enabled using usage control service, incorrect scanning paper size information is sent from ESA application which is installed on A4 models.</li> <li>Unlock the application switching function might results in "NullPointerException" error.</li> <li>When ESA application sends a FAX job using multibyte character set, the sender is garbled on the recipient device.</li> <li>AES-256 may be used as Kerberos encryption algorithm even though it is not specified.</li> </ol>
4.27.00	Fixed: More internal resources are consumed than required during internal file open and close operations, such as SDK application installation.

**Reissued: 06-Jan-15**

Model: Java VM v4 for eDC		Date: 27-Jul-12	No.: RGene056c
Version	Modified Points or Symptom Corrected		
	This could result in unexpected behavior.		
4.26.05	Fixed: <ol style="list-style-type: none"><li>1. Saved passwords cannot be retrieved properly and causes application authentication failure.</li><li>2. SDK application installation infrequently results in the disappearance of a previously installed SDK application if multiple embedded programs are installed.</li><li>3. The device's operation panel sometimes freezes when the software keyboard is closed.</li></ol>		
4.25.07	*This module is for Remote Install Manager and updating JavaVM.  Symptom corrected: <ol style="list-style-type: none"><li>1. SDK/J starting logo screen does not change.</li><li>2. Vulnerability to the re-negotiation of SSL/TLS .</li><li>3. Other minor bugs corrections.</li></ol> Other changes: Kerberos certification corresponding to RC4-HMAC code form.		
4.24 or earlier	Please refer to the separate RTBs for previous version release.		

=====  
\*\*\* Basic Information \*\*\*  
=====

[Create date] 2019/12/27

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[Program Name] Java VM v4 UpdateTool

-----  
[Version] 4.32.00

-----  
[PCB No.]

-----  
[Interchangeability] X / O

-----  
[Other Firmware Requirements] None

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[PCB Requirements] None

-----  
[Software category] Normal Release

-----  
[Release category] Normal Release

-----  
[Program category] Firmware

-----  
Exported to(language) GEN(all)

[Firmware No.] D4135765W\_upd

[File Information]

File Name        D4135765W\_upd.exe

File Type        Module for Service

Size             15.71 MB ( 16469696 byte )

Check Sum -8Bit Sum: 456C

                 -16Bit Sum(Little Endian): C635

                 -16Bit Sum(Big Endian): EB37

[Availability of RFU] No

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[Production reflection]

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\*\*\* Note \*\*\*  
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[Note]

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

=====  
\*\*\* Modification History \*\*\*  
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[Modifications made:]

Rank C

Other changes:

- Modification was made for the firmware part number management.

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[Modification history]

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Version 4.31.01

Rank C

Symptom corrected:

- When the amount of file descriptor, used on JavaVM, is 256 or more, a certain print command from the SDK application might cause an error.
- Max. Email Size for scanner send settings cannot be configure via DMNX.
- Errors might be occurred by using the Globalscan.

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.

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Version 4.30.00

Error corrected:

- SDK platform may not boot up when next power-on if stopping start process of SDK app.

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Version 4.29.00

Fixed:

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.

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Version 4.28.00

Fixed:

1. When tracking is enabled using usage control service, incorrect scanning paper size information is sent from ESA application which is installed on A4 models.
2. Unlock the application switching function might results in "NullPointerException" error.
3. When ESA application sends a FAX job using multibyte character set, the sender is garbled on the recipient device.
4. AES-256 may be used as Kerberos encryption algorithm even though it is not specified.

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Version 4.27.00

Fixed:

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.

-----  
Version 4.26.05

Fixed:

- Kerberos authentication using AES128/AES256 results are slow compared to Kerberos authentication using RC4HMAC.
- Saved passwords cannot be retrieved properly and causes application authentication failure.
- SDK application installation infrequently results in the disappearance of a previously installed SDK application if multiple embedded programs are installed.
- The device's operation panel sometimes freezes when the software keyboard is closed.

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Version 4.25.07a

Symptom corrected:

Program number "D3775901" version update fails.

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Version 4.25.07

Symptom corrected:

1. SDK/J starting logo screen does not change.
2. Vulnerability to the re-negotiation of SSL/TLS.
3. Other minor bugs corrections.

Other changes:

Kerberos certification corresponding to RC4-HMAC code form.

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Version 4.24.03

Symptom corrected:

1. Remote Manager v2 may not be able to communicate with the device if it takes more than 1 minute to assign the device an IP address via DHCP.
2. Users are not logged out after pressing the "Logout" button on the "User Tools" screen when using CAP with basic authentication.
3. If a user was logged in when the On/Off button is used to turn the device off, the "Cannot Logout" message is displayed the next time the On/Off button is used to turn the device on. The message is displayed even though the user has been logged out.
4. An SSL connection cannot be established if a x509 certificate is used but contains a "CRL Distribution Point".

Other changes:

Support for eDC-i1.2 and Remote Install Manager V1.1 was added.

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Version 4.23.00

Minor bug correction

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#### Version 4.22.03

##### Fixed:

1. The SDK application may not load after turning the device on.
2. The JavaVM would not update the DNS server address after the initial cache, which could eventually prevent the SDK application and DNS server from communicating.

Note: This issue does not affect the device's ability to communicate with the DNS server.

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#### Version 4.21.05

##### Fixed:

1. If the SD card slot specified for remote installation of a Type 2 (Java-based) SDK application does not exist on the target device, the application will be installed on a an SD card inserted in a different slot.
2. The Java VM may enter a deadlock state if one thread tries to close a thread that is waiting for I/O data.
3. The username used for Basic Authentication cannot be displayed correctly on the MFP's display panel if the username is 20 characters (bytes) long.
4. If the auto-off timer of the device is set to 1 minute and any SDK application is set to automatically start up, SC997 can occur.
5. The USB card reader may stop working if plugged in immediately after being unplugged.

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#### Version 4.20.04

##### Symptom corrected:

1. If the machine is turned off just after entering Energy Saver mode, it will not be able to enter Energy Saver mode from that point on (the SDK Java platform cannot be started).
2. Wording errors in the display messages used in the SDK application initial settings screen.
3. Installation fails if the FAT block of the SD card is less than 1024 bytes (1KB).
4. When the two processes listed below occur simultaneously, the MFP might enter Sleep mode.
  - The MFP tries to enter Energy Saver mode.
  - An SDK application (running on the same MFP) tries to prevent the MFP from entering Energy Saver mode.
5. When User Code Authentication is used by a MFP and an SDK application installed on that MFP, users are logged out of the SDK application if the MFP's embedded scanner application's destination registration function ("Prg. Dest." button) is used.
6. SDK applications use 1 more MB of memory than is necessary when loading. This could cause the SDK application to crash.
  - This only affects Java VM V4.19.

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#### Version 4.19-01

##### Other changes:

Because App2Me Provider V1.5.0 has been added to only MFPs, this option has been separated from the one for LPs.

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Version 4.17-01

Symptom corrected:

- 1.The displayed image may appear incomplete if the power button is pressed while using an SDK application that prohibits the machine from entering Energy Saver mode.
- 2.If the character string for one line of a display label is set to a length of 100 characters or more, it will appear on the operation panel as being directly connected with the following line.
- 3.Cannot exit the User Tools screen while displaying a JPEG image using an SDK/J application.
- 4.The display language cannot be switched to German.
- 5.The device Start Key may become disabled when accessing an SDK/Type J application (e.g., GlobalScan NX).

This issue may occur when using the default Java and SDK/Type J settings, and the following procedure is performed:

- 1) Turn on the device.
  - 2) Switch from a device application to an SDK/Type J application after the Java VM has started-up.
- 6.JPEG images may not be displayed the first time an SDK/Type J application (e.g., GlobalScan NX) is opened.

This issue may occur when using the default Java and GlobalScan NX settings, and the following procedure is performed:

- 1) Turn on the device.
  - 2) Switch from a device application to a SDK/J application that uses JPEG-based icons after the Java VM has started-up. JPEG images will not be displayed.
- 7.For about 20 seconds after a device starts up, SDK applications such as CAP might not be able to recognize whether Administrator Authentication or User Authentication is enabled or whether an admin or user has already logged in.
- 8.If the User Authentication settings are changed more than 200 times without the power cycles, the device might stall or users might not be able to log out.
9. The user can not log in via CAP-ES using the login name and password that contained the following characters are registered:  
Please refer to RTB Document.

Other changes:

- 1.The speed at which the operator can switch from one SDK/J application to another has been increased.

Important: To apply this change, in addition to this firmware, you also need to install the following:

- All models: Embedded Software Architecture SD card Ver.4.08 (SDK/J SDcard Ver.4.08 or later)
  - Model V-C2: System ver1.06 or later
  - Model AI-C1: System ver1.06 or later
  - Model R-C5: System ver1.12 or later
  - Model Be-C1: System ver1.02 or later
- 2.When the operator switches from a non-SDK/J application to an SDK/J application, if one of the SDK/J applications has been set as the priority application, this application will be displayed first.
  - 3.The tabs on the software keyboard can now be preset.
  - 4.Support has been added for Embedded Software Remote Manager (Installation and Activation service tool) ver. 2.0.1 or later.

5.Card Authentication Package / Enhanced Locked Print NX ver.1.3 are now available.

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Version 4.15-01

Symptom corrected:

1. Users might not be logged out if both of the following conditions were met:

- 1) The user had been logged in via Usercode Authentication.
- 2) The operation panel was displaying the interface for the SDK/J applications such as Enhanced Locked Print NX or Global Scan NX.

2. After recovering from Energy Saver mode the device is unable to switch between different SDK/J applications.

3. The software keyboard appears and cannot be closed after accessing a SDK application.

This issue may occur as the result of the following procedure:

- 1) Open the software keyboard using a SDK application, such as GlobalScan NX.
- 2) Press either the "OK" or the "Cancel" button on the software keyboard.
- 3) Select a standard MFP application (ex. Copy, Print, etc).
- 4) Select the SDK application again.
- 5) The software keyboard will automatically appear, and cannot be closed.

Note: If the SDK application is busy processing a difficult task (such as a fax job for GlobalScan NX), the chances of this issue occurring will increase significantly.

4. There is a memory leak when an SDK application attempts to open a software keyboard but fails.

This issue may occur as the result of the following procedure:

- 1) Touch the user name field to open the software keyboard and input a user name.
- 2) Attempt to open a second software keyboard in order to input a password.
- 3) The keyboard will fail to open, and 350 bytes of memory will be leaked.

Once the issue develops, the software keyboard will not open again until the MFP is restarted.

5. An SC997 error will occur after logging out of the MFP, requiring a restart.

Affected products

Any 07A or 08S MFPs using GlobalScan NX SDK application version 1.1.1.0 or later.

Conditions

- 1) 07A models (R-C5, AL-C1, V-C2) and 08S models (DI-C1, AT-C2, AP-C2).
- 2) When using any of the following Authentication methods:
  - \*Admin Authentication
  - \*User Authentication
  - \*Basic code Authentication
- 3) GlobalScan NX is running on the MFP.
- 4) Users or Admins must repeatedly login and out of the device without cycling the power. The error will be thrown after a logout.

6. Blank Screen After Changing Language Settings

If a user or administrator quickly changes a MFP's language settings using the User Tools/Counter/Inquiry screen, a confirmation message will appear, and the MFP's display panel will be blank after finishing settings when the settings screen was accessed when GlobalScan NX was the active screen.

Reproduction Procedure:

- 1) Open GlobalScan NX on the MFP.
- 2) Open the User Tools/Counter/Inquiry screen, press the Language button, then press the Exit button quickly.
- 3) "The language is switched." will appear on the display panel. This message only appears if the error has occurred.
- 4) The above message will automatically disappear, and the display panel will be blank.

Other changes:

1. The SDK application installation time-out has been changed from 90 seconds to 4 minutes.

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Version 4.14-01

Symptom corrected:

1. Sometimes the display freezes if the JavaTMPlatform button is pressed twice when the main power is turned on.
2. Users cannot login using an IC card if all of the following conditions are met:
  - User name or password includes the 0xff character.
  - User name or password exceeds 255 bytes.
  - The sum of the lengths of the user name and password are exactly 247 bytes or 65527 bytes.
3. If a job is submitted with user name and password at the same time as someone is logging into the device with an IC card, the device will stall.
4. Card Authentication Package cannot be installed over an earlier version.

Other changes:

1. The maximum heap memory for Model DI-C1 was increased from 24MB to 29MB.
2. Global Scan NX now supports High Compression PDF files.  
Note: Requires Global Scan NX version 1.2 (SDK application), System firmware (It depends on MFPs), and Embedded Software Architecture SD card Ver.4.14 (SDK/J SDcard Ver.4.14 or later).
3. Global Scan NX now supports a preview function.  
Note: Requires Global Scan NX version 1.2 (SDK application), System firmware (It depends on MFPs), and Embedded Software Architecture SD card Ver.4.14 (SDK/J SDcard Ver.4.14 or later).
4. New User Authentication method. The SDK/J Platform now supports Windows Authentication.
5. SDK/J start up is possible after HDD formatting  
Previously, the uninstallation of the SDK/J Platform (removal of the VM card from the service slot) was required before formatting the device HDD.  
As of version 4.14, this is no longer the case.  
As long as there are no SDK/J applications installed on the HDD and no applications have stored data to the HDD, the HDD can be formatted regardless of whether the SDK/J Platform is installed or not.

## HDD Formatting Procedure:

If any SDK/J applications are installed on the HDD, follow Procedure 1. Otherwise, follow Procedure 2.

### Procedure 1:

1. Back up any data that needs to be restored after the format. SDK/J doesn't have a backup function. Please do this manually.
2. Stop all SDK/J applications and uninstall them.
3. Turn off the device.
4. Pull the VM card out of the service slot (usually slot 2).
5. Turn on the device.
6. Use SP5-832-001 to perform the HDD format.
7. Turn off the device.
8. Insert the VM card into the service slot.
9. Turn on the device.
10. Install the SDK/J applications and restore the data backed up in step 1. SDK/J doesn't have a restore function. Please do this manually.

### Procedure 2:

1. Back up any data that needs to be restored after the format. SDK/J doesn't have a backup function. Please do this manually.
2. Stop all SDK/J applications and uninstall them.
3. Use SP5-832-001 to perform the HDD format.
4. Restart the device.
5. Restore the data backed up in step 1. SDK/J doesn't have a restore function. Please do this manually.

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Version 4.13-01

Other changes:

1. The speed of switching between SDK applications is faster than before.  
Note: To use this, "Embedded Software Architecture SD card Ver.4.13 (SDK/J SDcard Ver.4.13 or later)" and system firmware (version 1.08 or later) needs to be applied to the device.
2. Supported for the specification changes of Remote Manager.

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Version 4.12-01

Other Changes:

(Minor changes applied for DSDK applications).

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Version 4.11

1st Mass production

=====  
\*\*\* Basic Information \*\*\*  
=====

[Create date] 2020/01/06

-----  
[Program Name] Java VM v4 for eDC

-----  
[Version] 4.32.00

-----  
[PCB No.]

-----  
[Interchangeability] X / O

-----  
[Other Firmware Requirements] None

-----  
[PCB Requirements] None

-----  
[Software category] Normal Release

-----  
[Release category] Normal Release

-----  
[Program category] Firmware

-----  
Exported to(language) GEN(all)

[Firmware No.] D4135765W\_edc

[File Information]

File Name       D4135765W\_edc.ifu

File Type       Module for Service

Size            15.93 MB ( 16702712 byte )

[Availability of RFU] No

-----  
[Production reflection]

=====  
\*\*\* Note \*\*\*  
=====

[Note]

=====  
\*\*\* Important Notes \*\*\*  
=====

[Important Notes]

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

[Modifications made:]

Rank C

Other changes:

- Modification was made for the firmware part number management.

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[Modification history]  
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Version 4.31.01

Rank C

Symptom corrected:

- When the amount of file descriptor, used on JavaVM, is 256 or more, a certain print command from the SDK application might cause an error.
- Max. Email Size for scanner send settings cannot be configure via DMNX.
- Errors might be occurred by using the Globalscan.

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.

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Version 4.30.00

Error corrected

SDK platform may not boot up when next power-on if stopping start process of SDK app

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Version 4.29.00

Fixed:

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.

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Version 4.28.00

Fixed:

1. When tracking is enabled using usage control service, incorrect scanning paper size information is sent from ESA application which is installed on A4 models.
2. Unlock the application switching function might results in "NullPointerException" error.
3. When ESA application sends a FAX job using multibyte character set, the sender is garbled on the recipient device.
4. AES-256 may be used as Kerberos encryption algorithm even though it is not specified.

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Version 4.27.00

Fixed:

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.



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#### Version 4.26.05

##### Fixed:

1. Saved passwords cannot be retrieved properly and causes application authentication failure.
2. SDK application installation infrequently results in the disappearance of a previously installed SDK application if multiple embedded programs are installed.
3. The device's operation panel sometimes freezes when the software keyboard is closed.

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#### Version 4.25.07

\*This module is for Remote Install Manager and updating Java VM.

##### Symptom corrected:

1. SDK/J starting logo screen does not change.
2. Vulnerability to the re-negotiation of SSL/TLS.
3. Other minor bugs corrections.

##### Other changes:

Kerberos certification corresponding to RC4-HMAC code form.

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#### Version 4.24.03

Initial release