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*** Basic Information ***
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[Create date] 2018/06/13

[Program Name] System/Copy

[Version] 2.13

[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.] D0595552S

[File Information]

File Name D0595552S.fwu

File Type Module for Service

Size 16.44 MB (17243448 byte)

[File Information]

File Name D0595552S.rfu

File Type Module for Remote Upgrade

Size 16.45 MB (17248512 byte)

[Availability of RFU] No

[Production reflection] 2018/06

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*** Note ***
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[Note]

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

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

Rank C

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 v2.13 (D0595552S)
- Network Support v8.76 (D0595553L)
- Web Support v1.06 (D0595554E)
- Scanner v02.02 (D4515510F)

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

[Modification history]

Version 2.12

Error Correction:

1. When @Remote is used, the report and polling communication might stop.
2. When Engine SC occurs many times at short period, Supply Call by @Remote might stop.

Version 2.11

Symptom corrected:

1. Web Image Monitor can be accessed with administrator authentication even in lockout status.
2. User might not be able to log out after access authorized using an IC card.
3. Scan to folder fails with Mac OS X 10.7(Lion) and 10.8(Mountain Lion).
4. System stalls when running a large volume copy job.

Version 2.10

Symptom corrected:

1. If large numbers of preset copy jobs are registered, the scanning speed slows down and could result in SC990.
2. Defect of the data overwrite security card (Zoffy) reduces the HDD capacity, which may cause failure in generating files.
3. If the present time is changed or set incorrectly (in User Tools--> System Settings --> Timer Settings --> Set Time) to a time deviating largely from the actual present time, preset jobs that are programmed by time are affected and may result in false detection or misdetection of unauthorized access.
4. Memory leak could occur when logged in by user authentication privileges with the Auto Logout feature validated.

Version 2.09

Symptoms Corrected:

1. Returning to SP mode from copy mode was invalid.
2. When the Stacker is assigned as the output tray and a jam occurs before the first sheet of the job is delivered to the Stacker, printing stops and cannot resume even after having removed the jammed sheet(s).
3. Only the page numbers are printed when printing stored jobs from the Document Server.
4. The system issues SC672/SC816 when reaching the time set for auto off timer during STR (suspend to ram).

Version 2.07

Symptom Corrected (D0595552J -> L);

1. The machine operation panel might go black and not return until the power is cycled.
This only occurred if User Authentication was enabled or the machine had a Device Accounting Unit such as a coin collector or charge card reader.
2. During the user authentication process anonymous applications become falsely operable by TWAIN authenticated users.
3. Abnormal image could be generated on the leading edge when copying in reduction ratio of 49% or lower in mono-color.
4. Abnormal image is generated when printing stamps from the Document Server.
5. Multiple communication errors that occur when connecting different peripherals.
6. Multiple errors related to SC860 occur when powering on the machine.
7. If the optional FAX unit and VM cards are installed, once the machine switches to Energy Saver mode, it cannot recover and the operation panel display remains blank.
8. GBC is not recognized when the Finisher is unconnected and the GBC is connected.
9. Problems involving gang-up print from Document Server
10. Problems involving test print from different paper trays per original
11. Improvement in the specification for encryption transmission

Version 2.05

Specification changed:

"Auto Paper Select" selectable when inserting sheets from Cover Interposer.

Version 1.06

Countermeasure for MAC address drain

- MAC address bender code changed.
- System software changed.

Version 1.05

Other changes:

- Chinese language supported.

Symptom Corrected:

- Bug fixed for MIB value prtMarkerStatus of Unit status.
- Bug fixed for after error occur, canceling the error before the eve of notice mail sent the system shut downs incorrectly.

Version 1.04

Symptom Corrected:

1. When reaching the time set on WeeklyTimer, dialog box to enter the password appears but cannot enter the password to release the lock.
2. Values in "Latest 3" do not appear on the PM counter list output.
3. A problem in our implementation of AppleTalk affecting the ability of our devices to join an AppleTalk Zone through some Seed Routers.
4. Firmware versions of the FAX and Finisher options are not recorded in Web Image Monitor > Access Log > "Firmware: Structure".
5. The cover of a Perfect Binding job is not output with the message "Select another paper size or cancel Perfect Binding mode. Cancel Perfect Binding mode." if the job is PS and the paper type of the cover is any of the three Thick papertypes or Bond.
6. The message "Remove the paper from Stacker Tray." is displayed on the operation panel even though the Stacker Tray is not full. If the papers are removed, the device will stall with an SC991 error.

Version 1.03

Symptoms Corrected:

- 1.MIB ricohENGCounterValue "Black Counter Copy Application" is constantly displayed as "0".

(Change from SP8-382-002 to SP8-382-001)

- 2."Update done" is not displayed after completing the SubSystem firmware update.
- 3.Cover sheets and chaptering sheets cannot be printed in duplex when their sizes are non-standard.

Note: Requires System firmware (version 1.03 or later) and Web Uapl firmware (version 1.03 or later).

- 4.SC819 could occur when switching on the main power of the mainframe if one or more peripheral(s) listed below is/are included in the configuration.

- FD5000
- GB5000
- RB5000
- SK5010

- 5.In a "duplex-double-copy" job (duplicating an image on one side, and duplicating another image on the other side),the image on the

face-down side is shifted when the 2 images have different resolution.

6. When paper is fed from the tandem tray, machine behavior does not conform to the setting (priority of "productivity" or "tray") of SP5-195-001: Limitless SW.

7. Scan to NCP fails if all of the following conditions met:

- The destination is specified using the IP address.
- The Novell server and the device are in different subnets.
- The subnet routers filter SLP multicasts.

Note: Requires System firmware (version 1.03 or later) and Scanner firmware (version 01.06 or later).

8. Scan to NCP fails or takes long time to complete if the IPX protocol is used and there are more than 2 Novell Directory Services (NDS) servers in the network hierarchy.

Note: Requires System firmware (version 1.03 or later) and Scanner firmware (version 01.06 or later).

9. Jobs of more than 100 pages cannot be stored on the MFP (Locked Print, Stored Print, etc.) if another job is being stored from another source (Copier, Scanner, Fax) at the same time.

Other Changes:

Half-fold, Letter fold-out, Letter fold-in, and Gate-fold are unavailable for coated paper on the FD5000.

Note: Requires System firmware (version 1.03 or later) and Web Upd firmware (version 1.03 or later).

Version 1.02

Symptom corrected:

1. Unnecessary tab sheets do not eject when executing "stop/continue" in a tab sheet print job.
2. Machine freezes in a duplex print job from the Document Box when merging images of front/back having different resolution.
3. Buttons "Photoconductor Unit" and "Cleaning Unit for Photoconductor Unit" are NOT indicated in the "Adjustment Setting for Skilled Operators" display window.
4. When Multiple jobs are printed using the Cover Interposer Tray, print speed might be reduced.
5. The printer application will stall if any of the following situations are encountered:
 - A print job is submitted while another print job is already being processed by the device.
 - A print job is submitted while the TWAIN driver is scanning.
6. A scan initiated by TWAIN might fail if a print job is already being processed by the device.

Version 1.01.1

Symptom corrected:

1. When SMC output is operated in duplex at SP mode, output function stops after the 5th sheet is ejected.
2. Sudden loss of wireless network connectivity with an error message on the operation panel: "Problems with the wireless card."
3. If the Password Policy is enabled, "Target User Entry ID"

and "Target User Code/User Name" are not logged in the CSV file that downloaded via WebImageMonitor and in the Web Smart Device Monitor's Access Log List when a user tries and fails due to the password policy to change their password.

4. Some Lockout entries in the Access log are missing information when viewed in Web SmartDeviceMonitor Ver2.
5. If a user logs back in after their session has timed out, the device might stall with the message "Authenticating... Please wait".
6. The Job log will stop recording User ID, Username or Usercode in the Printer's Job log if WIM is accessed more than 300 times using authentication.
7. Scan to Email now removes trailing dots (I.e. xxxx.com.) from destination email addresses.

Version 1.00.4

1st Mass production

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*** Basic Information ***
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[Create date] 2018/06/12

[Program Name] Network Support

[Version] 8.76

[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.] D0595553L

[File Information]

File Name D0595553L.fwu

File Type Module for Service

Size 7.12 MB (7465380 byte)

[File Information]

File Name D0595553L.rfu

File Type Module for Remote Upgrade

Size 7.13 MB (7471360 byte)

[Availability of RFU] No

[Production reflection] 2018/06

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*** Note ***
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[Note]

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

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

Rank C

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 v2.13 (D0595552S)
- Network Support v8.76 (D0595553L)
- Web Support v1.06 (D0595554E)
- Scanner v02.02 (D4515510F)

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

[Modification history]

Version 8.75

Symptom corrected:

1. If "CNAME" is specified as the destination folder, ScanTo Folder will abort.
2. If NBT is disabled, the destination for Scan to Folder might not be displayed and Windows authentication might fail.
3. Cannot scan to shared folders in Windows 8 and Windows Server 2012.
4. Cannot scan to shared folders in Mac OS X 10.7 or Mac OS X 10.8.

Version 8.74

Symptoms corrected:

1. SC991 might occur and network functions could not be used.
This occurs if DHCP and DDNS are both enabled in the device and if the DHCP server distributes to the device an FQDN that is more than 127 byte in length.
2. Device applications or services that use any of port 80, 443, 7443 or 7444 could not be used. This occurs if the illegal packet is sent after SSL negotiation handshake to any of the device's TCP ports 443, 7443 or 7444. Affected applications include Web Image Monitor, IPP Printing and @Remote.

Version 8.73

Symptom corrected:

1. Scanner for WSD (Web Services on Devices) function could be disabled if the system is powered on with an external controller connected.
2. An httpd timeout has been implemented to prevent Web Image Monitor lockups that sometimes occurred when applications accessed the printer by http.
3. Scan to SMB fails if the file submitted to the DFS folder in the destination and the file of the same name exist in the DFS folder.

4. If Windows Authentication is enabled, printing a large number of copies of a job might take longer than might typically be expected.
5. Chunk Transfer Encoding over an IPP port might results in print jobs being reset.
6. "Ricoh Printer" could appear as the Apple Talk object name if the network settings are not made on an OEM machine.
7. If SSDP = Active (Web ImageMonitor > Configuration > Network Security), a high load on the CPU might result in Web Image Monitor locking up.
8. Printer with an external controller will lose network connectivity. This only occurred if the network settings were changed repeatedly and the printer's "NetWare" setting was already "Active" (before the network settings were changed).
9. The printer icon might not be shown in the Windows "Network" dialogue if SSDP is enabled. This affected Windows Vista, 2008/R2, and 7.
10. The device might lose network connectivity if SSDP is enabled. Network connectivity could be temporarily restored after a power cycle.
11. Under very specific combinations of IP address, Subnet Mask, and Gateway address, some of the printer's network configuration settings might revert to defaults.
12. Use of an IP address to send a Scan to SMB might result in the scanned document not being sent.
13. Scan to SMB fails if the both of the following conditions are met.
 - Either the device has NBT disabled or it is enabled but the device is unable to resolve the destination's NetBIOS name.
 - One or more octets in the destination's IPv4 address contain leading zeros.
14. If the device's IPP Authentication setting is enabled, the driver cannot be installed on Windows 2008 R2 SP1 or 7 SP1 using an IPP port.

Version 8.69.1

Symptom corrected:

1. If the MFP/LP has a statically configured IP address and domain, it always sends a HELO using just its hostname. SMTP servers that require client HELOs to include the client's FQDN will close the connection. The result of this was that the MFP/LP was unable to send emails.
2. Unable to Scan to SMB to Windows 7 or Windows Server 2008 R2 destinations that have Windows Live ID Sign-in assistant installed.
3. Trying and failing to login to a Scan destination three times might result in the Scanner application stalling.
4. Unable to Scan to SMB to Windows 98/98SE/Me/NT 4.0 destinations specified using an IP address.
5. The SMB retry function fails to retry the sending of failed SMB transfers (Scan to SMB or Fax delivery).
6. Unable to retrieve the Windows group name from a Windows 2008 R2 server during Windows Authentication. Because of this, logged in users will only be granted the "Available Functions" specified for them in the Addressbook.
7. The device is unable to assign group privileges to a logged in user if that group has a name consisting of more than 20 bytes.

To address this issue, the supported group name length will be increased to 40 bytes.

8. The MFP's Windows Authentication function is unable to use Kerberos when being authenticated on a Windows 2008 or Windows 2008 R2 server. The MFP will still be successfully authenticated because it is able to fail back to NTLMv2.
9. After changing the MFP's DNS server address or Domain name, Scan to SMB destinations specified using a hostname might not be found.
10. The Scan to SMB "Connection Test" fails if performed on directory located directly below a DFS root. Only the "Connection Test" failed, scanning was successful and even the "Connection Test" worked if performed on any sub-directory.
11. The device might return an SC 819 error when browsing the network using SMB. This only occurred if SMB was browsed frequently and the device was not rebooted.
12. If the MFP's IP address is changed to an IP address of another subnet, users will not be able to browse the network (using Scan to SMB) until the MFP is rebooted.

Other changes:

1. Unable to Scan to SMB to a destination that is not specified using an FQDN.
2. Unable to Scan to SMB to destinations that are using both LM Authentication and Samba v2.x.
3. Windows Authentication fails if the username or password includes lower-case European characters.
4. The device's SMB timeout was too short (1sec). This caused problems when being used across subnets. For this reason, it has been increased to 10 sec.

Version 8.68.1

Symptom Corrected:

1. The MFP's IP address lease renewal request is incorrectly formatted and rejected by DHCP relay agents.
This will result in a loss of connectivity that lasts until the MFP reinitializes the network connection (10 seconds).
2. Scan to SMB is unable to send documents to a hostname containing 2byte characters.
Windows authentication might fail on a domain controller whose hostname contains 2 byte characters.
3. SDK/J applications might not be able to recognize some supported USB devices.
4. When the device IP address and DNS server location are obtained from DHCP, the domain specified by the device setting "IPv4 > Domain Name > Specify" will be overwritten by the domain obtained from DHCP.
5. SSL-related changes

Note: The new field will only appear if Web Support firmware version 1.05.1 or later has also been applied to the device.

When the device creates a certificate request, it is now able to specify which algorithm (SHA1 or MD5) it wants used to sign the certificate.

This has been implemented by adding a field "Algorithm Signature" to the certificate request form.

Web Image Monitor now shows the certificate's key length in:
Configuration > Security > Device Certificate > Details

Specific versions of SSL or TLS (SSLv2, SSLv3, or TLSv1) can now be enabled/disabled using Web Image Monitor.

The setting can be configured from either of the following locations:

Configuration > Security > Network Security

Configuration > Security > SSL/TLS

The encryption strength used for SSL can now be configured.

This can be done using either of the following settings in Web Image Monitor:

Configuration > Security > Network Security

Configuration > Security > SSL/TLS

Version 8.61

Symptom corrected:

1. If a User Paper Type is changed from a paper type that doesn't support duplex to one that supports duplex, then duplex jobs that use that User Paper Type will be printed in simplex.
2. When jobs are submitted to the device's lpr port repeatedly, some of the jobs might not be printed.
3. If IPP authentication is enabled, printing through an IPP port from a Windows Vista/Server 2008 client might result in printing failure.
4. Multiple Windows Vista/Server 2008 PCs might not be able to access the device through IPsec.
5. If IPDS is enabled, the device controller will not be able to enter STR mode (aka "Off/Sleep Mode", "Off Mode" or "Sleep Mode")

Version 8.58.1

Symptom corrected:

1. Repeatedly inserting and removing a USB device might result in an SC819 error. This is caused by a memory leak and will only occur if the power has not been recycled.

Version 8.57

1st Mass production

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*** Basic Information ***
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[Create date] 2018/06/12

[Program Name] Web Support

[Version] 1.06

[PCB No.]

[Interchangeability] X / O

[Other Firmware Requirements] None

[PCB Requirements] None

[Software category] Normal Release

[Release category] Normal Release

[Program category] Firmware

Exported to(language) GEN(all)

[Firmware No.] D0595554E

[File Information]

File Name D0595554E.fwu

File Type Module for Service

Size 3.60 MB (3770236 byte)

[File Information]

File Name D0595554E.rfu

File Type Module for Remote Upgrade

Size 3.60 MB (3776768 byte)

[Availability of RFU] No

[Production reflection] 2018/06

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*** Note ***
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[Note]

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

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

Rank C

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 v2.13 (D0595552S)
- Network Support v8.76 (D0595553L)
- Web Support v1.06 (D0595554E)
- Scanner v02.02 (D4515510F)

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

[Modification history]

Version 1.05.1

The Bellini-C4 (Katana-C2) supports the e-STUDIO905/1105/1355.

SSL-related changes:

Note: The new fields will only appear if Network Support firmware version 8.68.1 or later has also been applied to the device.

No1. When the device creates a certificate request, it is now able to specify which algorithm (SHA1 or MD5) it wants used to sign the certificate. This has been implemented by adding a field "Algorithm Signature" to the certificate request form.

No2. Web Image Monitor now shows the certificate's key length in:
- Configuration > Security > Device Certificate > Details

No3. Specific versions of SSL or TLS (SSLv2, SSLv3, or TLSv1) can now be enabled/disabled using Web Image Monitor . The setting can be configured from either of the following locations:

- Configuration > Security > Network Security
- Configuration > Security > SSL/TLS

No4. The encryption strength used for SSL can now be configured. This can be done using either of the following settings in Web Image Monitor:

- Configuration > Security > Network Security
- Configuration > Security > SSL/TLS

Version 1.04

Other changes:

1. Katana-C2 machines for China supported.

Version 1.03
1st Mass production

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*** Basic Information ***
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[Create date] 2018/06/12

[Program Name] Scanner

[Version] 02.02

[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.] D4515510F

[File Information]

File Name D4515510F.fwu

File Type Module for Service

Size 1.24 MB (1303752 byte)

[File Information]

File Name D4515510F.rfu

File Type Module for Remote Upgrade

Size 1.25 MB (1310976 byte)

[Availability of RFU] Yes

[Production reflection] 2018/06

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*** Note ***
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[Note]

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

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

Rank C

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 v2.13 (D0595552S)
- Network Support v8.76 (D0595553L)
- Web Support v1.06 (D0595554E)
- Scanner v02.02 (D4515510F)

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

[Modification history]

Version 02.01

Symptoms Corrected:

1. With machines that apply either the Basic Authentication or the Key Counter, the operation panel could black out and result in SC819 when turning OFF/ON the main power after the black out.
2. While the machine is logged in by Basic Authentication, unauthorized users can access applications using authentication of anonymous TWAIN users.
3. Files could be sent in the wrong format and counted in WSD-Scanner (Push) transmission.

Version 01.07

Other changes:

WSD Scanner (Push Type) now supports WIndows 7/WIndows 2008 Server R2.

Notice: Due to WIndows 7/WIndows 2008 Server R2 spec changes, WSD

Scanner (Push Type) jobs that are in-progress can no longer be manually cancelled from the PC side.

Version 01.06

Symptom corrected:

1. Scan to NCP fails if all of the following conditions met:
 - The destination is specified using the IP address.
 - The Novell server and the device are in different subnets.
 - The subnet routers filter SLP multicasts.

Note: Requires System firmware (version 1.03 or later) and Scanner firmware (version 01.06 or later).

2. Scan to NCP fails or takes long time to complete if the IPX protocol is used and there are more than 2 Novell Directory Services (NDS) servers in the network hierarchy.

Note: Requires System firmware (version 1.03 or later) and Scanner firmware (version 01.06 or later).

Version 01.05

Symptom corrected:

1. Job log CSV file contains the wrong "User Entry ID" for scanner jobs that were sent from the document server. This only occurred using either UserCode Authentication or Basic Authentication.
2. The Job log displayed by WSDM contains the wrong "User Code/User Name", "User Entry ID" and "User display name" for scanner jobs that were sent from the document server. This only occurred using either UserCode Authentication or Basic Authentication.

Version 01.04

1st Mass production