

RICOH Smart Operation Panel Designer  
User Guide  
Version: 1.44

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# 1. Operating Environment

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## 1-1. Operating System

The Smart Operation Panel (SOP) Designer supports the following operating systems:

- Windows 8.1 (32bit, 64bit)
- Windows 10 (32bit, 64bit)

## 1-2. Required Library

Microsoft Visual C++ 2019 Redistributable Package(x86) is required. Install the Microsoft Visual C++ 2019 Redistributable Package (x86) from the following URL:

<https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads>

Be sure to install vc\_redist\_x86.exe even if your PC runs a 64-bit OS. The SOP Designer is a 32-bit application and uses the 32-bit version of the Visual C++ module.

## 1-3. Supported Languages

English, German, French, Italian, Spanish, Dutch, and Simplified Chinese

## 1-4. Supported Models

The following SOP 2.5 generation (SOP-G2.5) models are supported in this version:

[Color MFP (10" panel)]

- IM C4500 / IM C5500 / IM C6000
- IM C2000 / IM C2500 / IM C3000 / IM C3500
- IM C6500 / IM C8000 / Pro C5300S / Pro C5310S / Pro C5300SL (New in Version 1.44)
- IM C300 / IM C400 (New in Version 1.44)

[Color MFP (7" panel)]

- IM C530F / IM C530FB (New in Version 1.44)

[Black and White MFP (10" panel)]

- IM 550 / IM 600 (New in Version 1.44)

[Black and White MFP (7" panel)]

- IM 2702

The following SOP 2nd generation (SOP-G2) models are supported in this version:

[Color MFP (10" panel)]

- MP C306ZSP / MP C406ZSP
- MP C4504 Series / MP C5504 Series / MP C6004 Series
- MP C3004 Series / MP C3504 Series
- MP C2004 / MP C2504
- MP C6503 / MP C8003 / Pro C5200S / Pro C5210S
- MP C4504ex / MP C5504ex / MP C6004ex
- MP C2004ex / MP C2504ex / MP C3004ex / MP C3504ex
- MP C307 / MP C407
- MP C501

[Color MFP (7" panel)]

- SP C360SFNw / SP C360SNw / SP C361SFNw

[Black and White MFP (10" panel)]

- MP 305+
- MP 6503SP / MP 7503SP / MP 9003SP
- MP 402SPF
- MP 501SPF / MP 601SPF
- MP 2555 / MP 3055 / MP 3555 / MP 4055 / MP 5055 / MP 6055
- IM 350 / IM 430

Note: Use SOP Designer Version 1.32 for SOP 1st generation (SOP-G1) models below:

- MP C4503Z Series / MP C5503Z Series / MP C6003Z Series
- MP C3003Z Series / MP C3503Z Series
- MP C2003Z SP / MP C2503Z SP
- MP C401 SRSP
- MP 2553Z SP / MP 3053Z SP / MP 3353Z SP
- MP 2554ZSP / MP 3054ZSP / MP 3554ZSP / MP 4054AZSP / MP 5054AZSP / MP 6054ZSP

Make sure that the firmware is up to date. The minimum firmware required for certain models is listed below.

Note:

- Firmware version update is not necessary for models not listed below.
- Updating System/Copy firmware might be required to enable the Showing/Sending Scanner Counter feature (\*1) on the SendMeter application.

\*1: The Showing/Sending Scanner Counter feature is not supported on MP 305+.

Model	SOP	GW Controller
SP C361SFNw	-	CTL System: V1.08
MP C2004ex / MP C2504ex / MP C3004ex / MP C3504ex / MP C4504ex / MP C5504ex / MP C6004ex	-	System/Copy: V1.11
MP C2004 / MP C2504 / MP C3004 / MP C3504 / MP C4504 / MP C5504 / MP C6004	Firmware: V1.22.2	System/Copy: V1.24
MP C6503 / MP C8003 / Pro C5200S / Pro C5210S	Firmware: V1.22.2	System/Copy: V1.14
MP C307 / MP C407	Firmware: V1.22.2	System/Copy: V1.10
MP C306ZSP / MP C406ZSP	Firmware: V1.22.2 Application Site: V1.02.02	System/Copy: V1.18.1
MP 305+	Firmware: V1.22.2 Application Site: V1.02.02	-
MP 6503SP / MP 7503SP / MP 9003SP	Firmware: V1.22.2	System/Copy: V1.11
MP 402SPF	Firmware: V1.22.2	System/Copy: V1.09
MP 501SPF / MP 601SPF	Firmware: V1.22.2	System/Copy: V1.15
MP 2555 / MP 3055 / MP 3555 / MP 4055 / MP 5055 / MP 6055	Firmware: V1.22.2	System/Copy: V1.12

## 2. Features

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### 2-1. SOP Designer Features

The SOP Designer is a Windows application, and supports the following features:

- Obtain machine settings data via network
- Customization of SOP Home screens
  1. Change wallpaper
  2. Change layout \*1
  3. Add/Remove application icons
  4. Add/Remove/Edit browser shortcuts
  5. Change Function Priority setting
- Write customized settings data to machine via network
- Save/Open settings data
- Install/Update/Uninstall the SendMeter application, Contact Information application, and Bulletin Widget
- Configure the SendMeter application, Contact Information application, and Bulletin Widget
- Configure the machine's email settings (SMTP and Auto Email Notification).

\*1: The location of application icons, widgets, and shortcut icons can be changed.

### 2-2. SendMeter Application Features

The SendMeter application is an SOP application and supports the following features:

- Show counter information
- Send counter information by email
- Send toner warning emails aimed at preventing the early toner cartridge replacement (**Available on color MFPs only**)

The SendMeter application supports the following SMTP server for business:

- Gmail SMTP server (SMTP over TLS (port 587) or SSL (port 465))
- Office 365 SMTP server (SMTP over TLS (port 587 or 25))

Note: SSL3.0/TLS1.0/TLS1.1/TLS1.2 are supported.

### 2-3. Contact Information Application Features

The Contact Information application is an SOP application and supports the following features:

- Show the contact information.
- Include a URL link for more information.

### 2-4. Bulletin Widget Features

The Bulletin Widget application is an SOP application and supports the following features:

- Show messages in widget. (Maximum 10 messages)
- Show messages for events (Start/end time or machine condition)
- Include a URL link for more information.

Note:

The above three SOP applications ("the SOP APPS") are contained in the executable file of the SOP Designer (SOP\_Designer.exe) and can be installed by using the SOP Designer.

## 3. SOP Designer

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### 3-1. Important Notes

- **Settings must be written on devices of the same model and with the same configuration.**
- **When obtaining settings data from a machine, it is recommended to make a backup of the data obtained.**  
This enables the SOP to be reset to the pre-customized state without connecting to the machine.  
For the procedure to make backup data, see section **3-6. Save/Open Settings Data**.
- After uploading the wallpaper and layout settings data to the machine, the SOP restarts, and then the machine (GW Controller) restarts.
- After successful installation of the SOP APPS, the SOP will reboot to start the SOP APPS.
- Removing an icon on the SOP Designer does not uninstall the application.
- Do not edit the settings data (JSON file) for Config File Server, which is created by the SOP Designer.  
For the procedure to create the settings data, see section **7. Prepare Config File Server for the SOP APPS**.

### 3-2. Limitations

- The SOP Designer does not support panel customization if there are folders on the panel.  
Icons in the folder will disappear after uploading wallpaper data and layout.
- The SOP Designer does not support SOP customization if a customized Home application is installed.
- The names of widgets developed by RiDP partners are displayed as "NoName".
- When the upload starts, a progress dialog appears on the machine. However, the progress percentage does not change (remains at "0%").  
When uploading is complete, "Finish" appears on the dialog.
- When uploading settings data to a machine, the SOP Designer uploads setting data related to the Home screens as well as the customized data. Therefore, if any settings were changed before the customized data was uploaded, it might go back to the previous settings.
- A shortcut name or custom icon name may be displayed differently on the actual SOP and the SOP Designer.  
Check the actual names displayed on the SOP.  
For example, if a shortcut name contains a space, justification may differ between the actual SOP and the SOP Designer. Also, if a shortcut name is very long, the name appears as "..." on the SOP Designer. However, on the SOP, the appearance of the name depends on the specification of the control panel.
- On the SOP Designer, if an application icon is removed from the Home screen once, this application



icon may no longer be added to the Home screen. In such a case, obtain settings data from the machine again and add the icon.

- The following applications cannot be added (cannot be displayed on the App List) due to the machine's specification:

- Web Browser
- User Guide
- Gallery
- Large icons (Copy, Scanner, Fax) of SOP-G2.5

Note: Large icons can be displayed on the App List if the SOP Designer Utility is installed.

- The following applications cannot be removed due to the machine's specification:

- User Tools
- Address Book Management of SOP-G2

- When opening the "Add App Icon" dialog or the "Set Function Priority" dialog, a question mark icon might be seen. This is because the SOP Designer could not obtain the icons for some applications (e.g. "Printer"). Although the SOP Designer displays the question mark icon, the SOP displays the correct application icon after the wallpaper and layout data is uploaded to the panel.

Install the SOP Designer Utility to resolve this issue. It will inform the SOP Designer of the missing data.

- When uninstalling the SOP APPS, even if the application is not installed, uninstallation can be conducted and a successful uninstallation message will be displayed on the SOP Designer.

- Installing/uninstalling SOP applications will probably fail if the machine is in "Offline mode".

Examples of "Offline mode":

- The "System Settings" menu is displayed on the machine.
- The machine is preparing to reboot.
- The machine settings configured by another PC are being applied remotely.
- The machine's Address Book is being downloaded by another PC remotely.

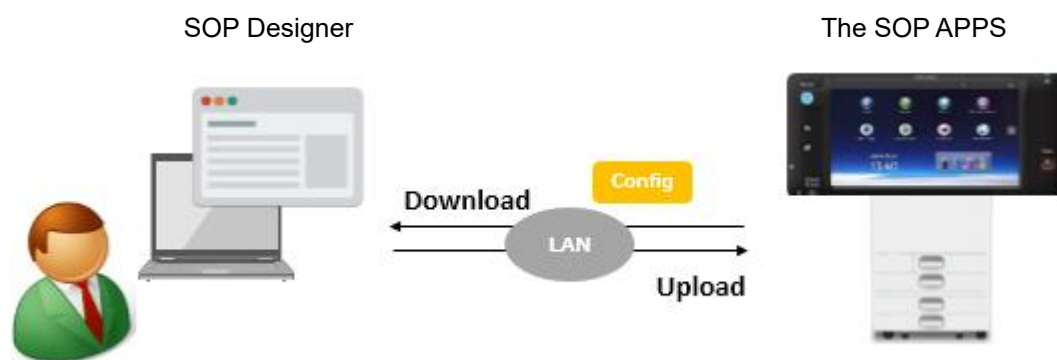
- For 7" panel models, installing/uninstalling SOP applications will probably fail if the machine is in Sleep mode.

- When the wallpaper and layout data has been downloaded, icon names on the SOP Designer might be displayed in a different language than the SOP. This is due to an inconsistency in the panel.

This does not have a negative impact, but it can be resolved by going to the following menu:

**User Tools > Screen Features > Screen Device Settings > Initialize Screen Features Settings**

### 3-3. Typical Operation Flow



Configuration diagram

The SOP can be customized through the following operations:

1. The SOP configuration data can be obtained from the machine by downloading it over the network. The initial configuration data can be saved as a snapshot. Instead of getting the initial configuration data from the machine, customization can be started from the previously saved snapshot data.
2. The icons and widgets can be moved and deleted by drag-and-drop, or by right-clicking on the icons and selecting the operation in the menu. To drag-and-drop the icons, you need to hold the left mouse button down until the other icons are dimmed. The customized configuration data can be saved as a snapshot.
3. The customized configuration data can be applied by uploading the configuration data to the SOP over the network.

### 3-4. Starting SOP Designer

1. Copy "RICOH Smart Operation Panel Designer V1.xx.zip" to your PC.
2. Unzip the file to any directory.

If an older version of "SOP\_Designer.exe" exists, it is recommended to replace it with the new version.

3. Run "SOP\_Designer.exe".

Note:

When you run the SOP Designer for the first time, the Software License Agreement and the dialog to select your organization will be displayed (3 options: "Channel Partner/Dealer", "Ricoh Family Group (Customer Relations)", or "Ricoh Family Group (Others)").

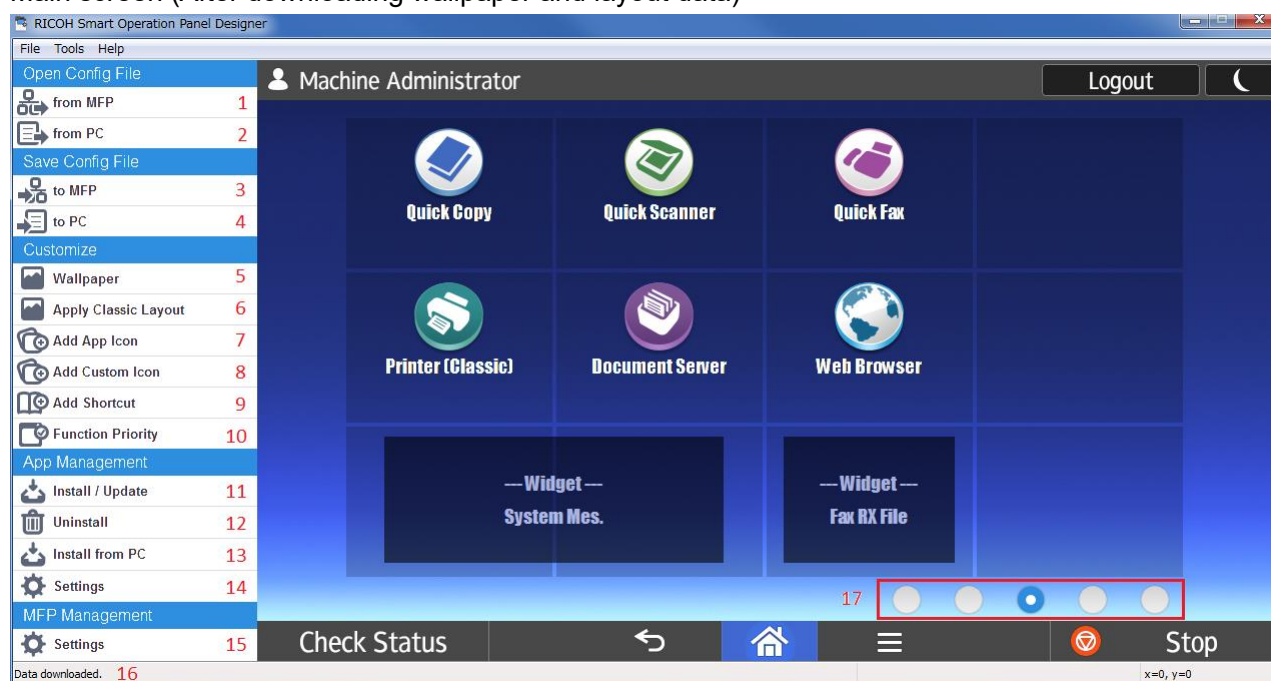
Regarding section 4 of the Software License Agreement below, data sent to Ricoh's server will be used to improve the SOP Designer.

#### Section 4. Gather and Transmit Data

- 4.1 You shall acknowledge that each time you use the Software, the Software will gather and transmit the following data to Company's remote server from your computer on which the

Software is installed: (i) PCID, which is the unique ID number created by the Software for identifying your computer, but not identifying any specific individual, (ii) Timezone set on your computer, (iii) the date and time you will use the Software, (iv) the function of the Software you will use, and (v) the organization where you belong.

### Main screen (After downloading wallpaper and layout data)



Features with corresponding numbers from the image above:

No.	Category	Item	Description
1	Open Config File	from MFP	Downloads machine settings data.
2		from PC	Opens local saved configuration.
3	Save Config File	to MFP	Uploads machine settings data.
4		to PC	Saves settings data.
5	Customize	Wallpaper	Changes wallpaper.
6		Apply Classic Layout	Applies a classic application-centric layout.
7		Add App Icon	Adds application icons.
8		Add Custom Icon	Adds application icons with desired name and image
9		Add Shortcut	Adds browser shortcuts.
10	App Management	Function Priority	Configures Function Priority setting.
11		Install / Update	Installs the SOP APPS which are contained in SOP_Designer.exe.
12		Uninstall	Uninstalls the SOP APPS.
13		Install from PC *1	Installs a zip file of an SOP application.
14		Settings	Configures the SOP APPS.
15	MFP Management	Settings	Configures machine's email settings (SMTP and Auto Email Notification).
16	Status bar	-	Displays progress status and feedback messages.
17	Screen switching	-	Switches the Home screen. The screen can also be switched by dragging with mouse.

\*1: These items can be displayed by selecting **Tools > Extend Features > All**.  
(The default value is **Standard**.)

### 3-5. Basic Procedure for Downloading/Uploading Machine Settings Data

Before downloading or uploading machine settings data, confirm the settings below:

- Make sure the machine and the PC are connected to the LAN network.
- Make sure **Machine Management** is set to **On**.  
To confirm this setting, go to **User Tools > Machine Features > System Settings > Administrator Tools > Administrator Authentication Management > Machine Management**.

Note: This setting is necessary for uploading Function Priority.

- Check the SP values have the following initial values:  
SP5728-001: 49101  
SP5728-002: 55101

Note: The term "machine administrator" in this document means the factory default administrator account.

#### Download Machine Settings Data

1. Start SOP Designer
2. Under **Open Config File**, click **from MFP**.
3. Select any of the following items:
  - Wallpaper, Layout and App List
  - Function Priority
  - SendMeter Config
  - Contact Information Config
  - Bulletin Config
  - SMTP
  - Auto Email Notification

Enter the machine's IP address, machine administrator's username, and password.

4. Click **Download**.

#### Upload Settings Data to Machine

1. Under **Save Config File**, click **to MFP**.
2. Select any of the following items:
  - Wallpaper, Layout
  - Function Priority
  - SendMeter Config
  - Contact Information Config
  - Bulletin Config
  - SMTP
  - Auto Email Notification

Enter the machine's IP address, machine administrator's username, and password.

Note: Config data can be uploaded to up to 100 machines.

The data is not uploaded to a machine when adding "#" to the machine's IP address.

3. Click **Upload**.

Note:

- Regarding "SendMeter Config", "Contact Information Config", "Bulletin Config" and "Function Priority", see sections 3-12, 3-13, 3-14, and 3-15 for details.
- An IP address list (ASCII text file) can be used when entering the machine's IP address. The IP address list with the execution result can be obtained when uploading is completed. See section **3-18. Use an IP address list** for details.

### 3-6. Save/Open Settings Data

#### Saving Data

1. Under **Save Config File**, click **to PC**.
2. Specify the location to save the data.

Note: The file name can be changed. The extension is "RDT\_CFG".

#### Opening Data

1. Under **Open Config File**, click **from PC**.
2. Select saved configuration.

Note: The RDT\_CFG file does not contain any password information (e.g. SMTP Auth. password). Confirm if the password is required for the desired setting when configuration data is uploaded to the SOP.

### 3-7. Customize - Wallpaper

#### Change/Save Wallpaper

1. Under **Customize**, click **Wallpaper**.
2. Click **Load image file**.
3. Click **Save image file**.

Note: The recommended image size is 1024 x 560 pixels for SOP-G2 and 1024 x 520 pixels for SOP-G2.5.

### 3-8. Customize - Layout

#### Move an Icon within the Same Screen

1. Select an icon (press and hold).
2. Drag the icon to change location.

#### Move an Icon to a Different Screen

1. Select an icon.
2. Right-click the icon.
3. Select **Move to ...** and select the destination screen for the icon.

### 3-9. Customize - Add/Remove Application Icons

#### Add Application Icon

1. Under **Customize**, click **Add App Icon**.
2. On the App List, select the application or widget item to add and drag the icon to the desired location, or double-click the item.

#### Remove Application Icon

1. Select an icon to remove.
2. Right-click the icon.
3. Select **Remove Item**.

### 3-10. Customize - Add/Remove/Edit Browser Shortcuts

#### Add Shortcut

1. Under **Customize**, click **Add Shortcut**.
2. Select the URL, Shortcut Name, and Target Browser ("Web Browser" or "Web Browser NX").
3. Click **Load image file** and select an image to change the shortcut icon.

Note:

- The maximum number of characters in a Shortcut name is 64.
- If a Shortcut name is specified for the following items, an error dialog will appear:
  - User Tools
  - Screen Features
  - Address Book Management
- When using a custom icon image, use a PNG image of 74 x 74 pixels or less.
- "Web Browser NX" is the browser used for solutions.
  - It is recommended to use "Web Browser" for general web pages.

#### Remove Shortcut

1. Select an icon to remove.
2. Right-click the icon.
3. Select **Remove Item**.
4. Confirm the dialog message and click **Yes**.

#### Edit Shortcut

1. Select an icon to edit.
2. Right-click the icon.
3. Select **Edit Item**.

### **3-11. Install/Update/Uninstall the SOP APPS**

#### Install/Update

1. Under **App Management**, click **Install / Update**.
2. Select the application to install or update.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Install**.

#### Uninstall

1. Under **App Management**, click **Uninstall**.
2. Select the application to uninstall.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Uninstall**.

Note:

- **SendMeter App** and **SOP Designer Utility** can be installed by the above operations.  
The SOP Designer Utility contains the Contact Information application and Bulletin Widget.
- An IP address list (ASCII text file) can be used when entering the machine's IP address.  
The IP address list with the execution result can be obtained when installing/uninstalling is complete.  
See section **3-18. Use an IP address list** for details.

### **3-12. Configure SendMeter**

#### Download SendMeter Configuration Data

1. Under **Open Config File**, click **from MFP**.
2. Select **SendMeter Config**.  
Enter the machine's IP address, machine administrator's username, and password.

3. Click **Download**.

### Configure SendMeter

1. Under **App Management**, click **Settings**.
2. Select **SendMeter** and click **Next**.
3. Configure the SendMeter settings.  
(Optional) "Config File Server URL" can be specified. See section 7. **Prepare Config File Server for the SOP APPS** for details.

### SendMeter Settings Screen

**Note:**  
Specify email address, interval and Config File Server information.  
Customer ID will be included in the email subject.

Destination Email Address  
To (Max 3)  
user@example.ricoh.com

CC (Max 5)

Sender Email Address  
SOP0001@example.ricoh.com

Customer ID  
30032016-0800

Config File Server URL

Interval  
☐ Weekly  
☒ Monthly  
☐ Quarterly  
☐ Twice a year  
☐ Once a year  
☐ Every x days  
☐ Off

Time  
08 : 00  
Month Day  
1

Setting Options (MFP Application)  
☐ Prohibit  
☐ Allow CC configuration only  
☒ Allow all configurations

Counter Mode  
☒ Same as User Tools Counters  
☐ All

Scanner Counter  
☐ On  
☒ Off

Toner Warning (Available for Color MFPs)  
Send a notice  
☐ when 20% of toner is remaining  
☐ when 10% of toner is remaining  
☐ when 5% of toner is remaining  
☐ Send a reminder  
Days before the estimated toner end date  
10

Server Polling Interval (hours)  
0.5

Email Language  
English

Back Cancel OK

4. Click **OK**.

### Note:

- Regarding the Toner Warning setting (**available on color MFPs only**), there are four setting options:
  - **Send a notice when 20% of toner is remaining.** \*1
  - **Send a notice when 10% of toner is remaining.** \*2



- **Send a notice when 5% of toner is remaining.** \*2
- **Send a reminder.**

\*1: 20% of toner remaining is detected by MFP.

\*2: 10% and 5% of toner remaining are calculated by the SendMeter application.

#### Upload SendMeter Configuration Data

1. Under **Save Config File**, click **to MFP**.
2. Select **SendMeter Config** .  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Upload**.

### **3-13. Configure Contact Information**

#### Download Contact Information Configuration Data

1. Under **Open Config File**, click **from MFP**.
2. Select the **Contact Information Config**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Download**.

#### Configure Contact Information

1. Under **App Management**, click **Settings**.
2. Select **Contact Information** and click **Next**.
3. Up to 1920 characters can be entered in the message. However, the message on the SOP may be cut off due to the machine's font specification.  
Supported image formats are PNG, JPEG, and BMP.

Note: Regarding image specification, the display area of the SOP is 1024 x 292 pixels.

Although a larger image than the area can be specified, the image will be reduced to keep its aspect ratio. The "Invalid image width and height to use" error dialog may appear if a very thin image (e.g. 1280 x 1 pixel) is specified because the image width or height was 0 after the size was reduced.

(Optional) "Config File Server URL" can be specified. See section **7. Prepare Config File Server for the SOP APPS** for details.

## Contact Information Settings screen

Settings of Contact Information

Message

This is a sample.  
Your partner: Ricoh  
Tel: 01-2345-6789  
Email: contact@example.ricoh.com

Load image file...

Hyperlink

Display Method

☒ Image and Text  
☐ Text Only

Config File Server URL

Server Polling Interval (hours) 0.5

Back Cancel OK

4. Click **OK**.

### Upload Contact Information Configuration Data

1. Under **Save Config File**, click to **MFP**.
2. Select the **Contact Information Config**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Upload**.

## 3-14. Configure Bulletin Widget

### Download Bulletin Configuration Data

1. Under **Open Config File**, click from **MFP**.
2. Select **Bulletin Config**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Download**.

### Configure Bulletin

1. Under **App Management**, click **Settings**.
2. Select **Bulletin** and click **Next**.
3. Click **Add** to create up to 10 new message settings.
4. Up to 720 characters can be entered in the message. However, the message

on the SOP may be cut off due to the machine's font specification.

Supported image formats are PNG, JPEG, and BMP.

Note:

- Regarding image specification, the display area of the SOP is 406 x 140 pixels. Although a larger image than the area can be specified, the image will be reduced to keep its aspect ratio. The "Invalid image width and height to use" error dialog may appear if a very thin image (e.g. 1280 x 1 pixel) is specified because the image width or height was 0 after the size was reduced.
- Regarding scheduling, if both **Begin Time** and **End Time** are set to **00:00**, the specified message will not be displayed on the SOP. The entire day is 00:00 - 23:59.
- Regarding Message, the maximum number of characters per line is 90 for SOP-G2 and 98 for SOP-G2.5 (in case of using the narrowest width character like "i").

5. Complete Bulletin settings.

(Optional) "Config File Server URL" can be specified. See section 7. **Prepare Config File Server for the SOP APPS** for details.

Bulletin Settings Screen with plain text message (Without URL link)

The screenshot shows a 'Bulletin Message' dialog box. At the top, there are two radio buttons: 'Text' (selected) and 'Image'. Below this is a large text area labeled 'Message' containing the text 'This is a sample message.' To the right of the text area is a 'Schedule' section with several radio buttons: 'Daily' (selected), 'Weekly', 'Monthly', 'Customized', 'On toner warning', 'On other warning', 'On toner error', 'On other error', and 'On no paper warning'. Below the schedule section are two time pickers: 'Begin Time' set to '00:00' and 'End Time' set to '23:59'. Below these is an 'Image' section with a large gray placeholder rectangle. Below the placeholder are two buttons: 'Remove image' and 'Load image file...'. At the bottom of the dialog is a text field labeled 'URL (optional)' and two buttons: 'Cancel' and 'OK'.

Bulletin Settings Screen with text and URL link

Bulletin Message

Type of Message

☒ Text☐ Image

Message

This is a sample message with a URL link.  
Please tap here to connect to the web site.

Schedule

☒ Daily☐ Weekly☐ Monthly☐ Customized☐ On toner warning☐ On other warning☐ On toner error☐ On other error☐ On no paper warning

Begin Time

00 : 00

End Time

23 : 59

Image

Remove image

Load image file...

URL (optional)

http://www.ricoh.com/

Cancel

OK

Bulletin Settings Screen with image and URL link

Bulletin Message

Type of Message

☐ Text☒ Image

Message

Schedule

☒ Daily☐ Weekly☐ Monthly☐ Customized☐ On toner warning☐ On other warning☐ On toner error☐ On other error☐ On no paper warning


Begin Time

00 : 00

End Time

23 : 59

Image



Remove image

Load image file...

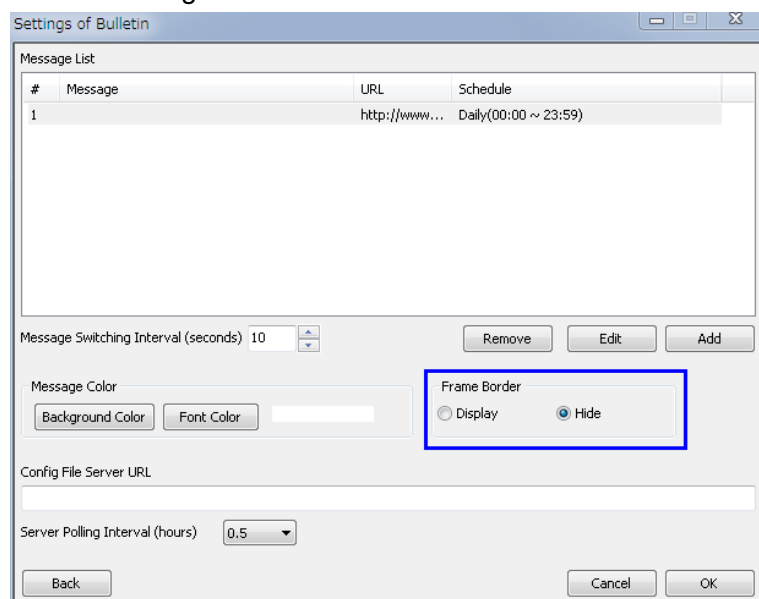
URL (optional)

http://www.bulletin.example.com

Cancel

OK

## Bulletin Settings to hide the frame border



6. Click **OK**.

### Upload Bulletin Configuration Data

1. Under **Save Config File**, click **to MFP**.
2. Select **Bulletin Config**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Upload**.

## 3-15. Change Function Priority Setting

### Download Function Priority Configuration Data

1. Under **Open Config File**, click **from MFP**.
2. Select **Function Priority**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Download**.

### Change Function Priority Setting

1. Under **Customize**, click **Function Priority**.
2. Select the application from the list and click **Set Priority**.
3. Click **OK**.

### Upload Function Priority Configuration Data

1. Under **Save Config File**, click **to MFP**.

2. Select **Function Priority**.

Enter the machine's IP address, machine administrator's username, and password.

3. Click **Upload**.

### 3-16. Obtain the SOP APPS Log

The SOP APPS log in an inquiry may be helpful if there is a problem with the SOP APPS.

#### Obtaining the SOP APPS Log

1. In **Tools**, go to **Get App Log**, and select from the following items:
  - SendMeter
  - SOP Designer Utility
  - All
2. Enter the machine's IP address.
3. Enter file name.

#### Obtaining the Email History of the SendMeter Application

1. In **Tools**, click **Get Email History**.
2. Enter the machine's IP address.
3. Enter file name.

### 3-17. Change the UI Language

The language of the SOP Designer can be changed to a different language than the Windows display language.

#### Change UI Language

In **Tools**, go to **Change Language**, and select from the following items:

- System Language (Same as Windows display language)
- English
- Français
- Deutsch
- Italiano
- Español
- Nederlands
- Simplified Chinese

### 3-18. Use an IP Address List

When entering the machine's IP address, an IP address list (ASCII text file) can be used by clicking **Import**. The following is a sample:

```
192.168.10.201
192.168.10.202
192.168.10.203
192.168.10.204
192.168.10.205
#192.168.10.206
```

Note: When importing an IP address list, IP addresses which follow "#" are disregarded.

When the upload, installation or uninstallation is complete, the IP address list with the execution result can be obtained by clicking **Export the result**. The following is a sample:

```
#[Success]192.168.10.201
#[Success]192.168.10.202
192.168.10.203    #[Failure]
192.168.10.204    #[Cancelled]
192.168.10.205    #[Cancelled]
```

Note: The IP address list can be used directly when retrying the action after removing the cause of the failure.

### 3-19. Show/Hide Extended Features on the Menu

Extended features can be shown or hidden on the menu.

#### Show/Hide Extended Features

In **Tools**, go to **Extended Features**, and select from the following items:

- Standard
- All

Note: When selecting **All**, the following items can be seen in addition to Standard items:

- Apply Classic Layout
- Install from PC

See section **3-4. Starting SOP Designer** for details.

### 3-20. Customize - Add Custom Application Icons

An application icon can be added to the Home screen and renamed.

("Add App Icon", described in section 3-9, can be used to add an application icon with an original name.)

#### Add Custom Application Icon

1. Under **Customize**, click **Add Custom Icon**.
2. Go to **Select an app** and select the application to add.
3. Rename the icon.

4. Click **Load image file** and select an image to change the icon image.

Note:

- The maximum number of characters in a name is 64.
- When using a custom icon image, use a PNG image of 74 x 74 pixels.
- Custom application icons for the following will not disappear on unauthenticated user's Home screens when **User Authentication Management** is **On** due to the machine's specification:
  - Print/Scan (Memory Storage Device)
  - Quick Print Release

### 3-21. Customize - Apply Classic Layout

The layout can be changed to a classic application-centric Home screen with a few simple operations.

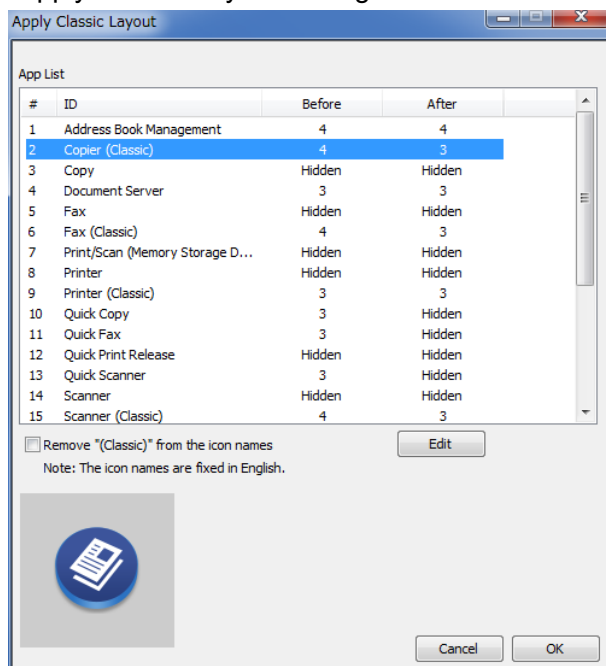
#### Apply Classic Layout

1. Under **Customize**, click **Apply Classic Layout**.
2. In **Apply Classic Layout**, click **OK**.

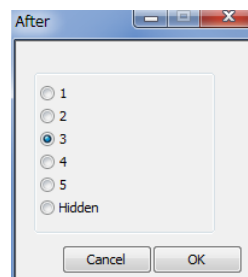
Note:

- The screen number or the "Hidden" option cannot be specified for the following items:
  - User Tools
  - User Guide
  - Address Book Management
- "(Classic)" can be removed from the icon names by selecting the checkbox. However, icon names are fixed in English.  
(The checkbox appears when the UI language of the SOP Designer is English.)

"Apply Classic Layout" dialog



Screen number selection dialog (when clicking **Edit**)





### 3-22. Configure Machine's Email Settings

The machine's email settings (SMTP and Auto Email Notification) can be configured. The settings are equivalent to the settings in the Web Image Monitor.

Note:

- Auto Email Notification is a machine feature for sending status information by email.  
The email body contains the machine's host name but does not contain the machine's serial number.  
Enter a unique ID in the setting (e.g. Subject), if necessary.
- SMTP settings are not applied only to Auto Email Notification but also to the SendMeter application.

#### Download Machine's Email Settings Data

1. Under **Open Config File**, click **from MFP**.
2. Select **SMTP** and/or **Auto Email Notification**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Download**.

#### Configure the Settings

1. Under **MFP Management**, click **Settings**.
2. Select **SMTP** or **Auto Email Notification** and click **Next**.
3. Configure the settings.

#### Upload Machine's Email Settings Data

1. Under **Save Config File**, click **to MFP**.
2. Select **SMTP** and/or **Auto Email Notification**.  
Enter the machine's IP address, machine administrator's username, and password.
3. Click **Upload**.

#### Differences between the Web Image Monitor (WIM) and the SOP Designer (SOPD)

Category1	Category2	Item	Difference
Email	SMTP	SMTP Server Name	none
		SMTP Port No.	none
		Use Secure Connection (SSL)	none
		SMTP Authentication	none
		SMTP Auth. Email Address	none
		SMTP Auth. Username	WIM: UTF-8 code is allowed. SOPD: only ASCII code is allowed. *1
		SMTP Auth. Password	none
		SMTP Auth. Encryption	none
Auto Email Notification	-	Notification Message	WIM: UTF-8 code is allowed. SOPD: only ASCII code is allowed. *1
	Groups to Notify	Name (of Group)	WIM: UTF-8 code is allowed. SOPD: only ASCII code is allowed. *1
		Email Language	WIM: able to select SOPD: This item does not exist. *2
		Subject	WIM: UTF-8 code is allowed. SOPD: only ASCII code is allowed. *1

Category1	Category2	Item	Difference
		Message	WIM: UTF-8 code is allowed. SOPD: only ASCII code is allowed. *1
		Name (of Notify Address)	WIM: UTF-8 code is allowed. SOPD: only ASCII code is allowed. *1
		Address (of Notify Address)	no difference
	Select Groups/Items to Notify  Detailed Settings of Each Item	<ul style="list-style-type: none"> <li>- Call Service</li> <li>- Out of Toner</li> <li>- Toner Almost Empty *3</li> <li>- Paper Misfeed</li> <li>- Cover Open</li> <li>- Out of Paper</li> <li>- Almost Out of Paper</li> <li>- Paper Tray Error</li> <li>- Output Tray Full</li> <li>- Unit Connection Error</li> <li>- Duplex Unit Error</li> <li>- Waste Toner Bottle is Full</li> <li>- Waste Toner Bottle is Almost Full</li> <li>- Add Staples</li> <li>- Replacement Required: Fuser Unit</li> <li>- Replacement Required Soon: Fuser Unit</li> <li>- Hole Punch Receptacle is Full</li> <li>- File Storage Memory Full</li> <li>- Device Access Violation</li> <li>- Toner Almost Empty (Remaining Level Selectable)</li> </ul>	WIM: machine dependent SOPD: 3 items below are supported <ul style="list-style-type: none"> <li>- Call Service</li> <li>- Out of Toner</li> <li>- Toner Almost Empty *3</li> </ul>

Note:

\*1: Use WIM to enter multibyte (UTF-8 code) characters.

When downloading multibyte characters from a machine to the SOP Designer, the same multibyte character can be uploaded to the same machine correctly, but the same multibyte character might not be able to be uploaded to a different machine.

\*2: Use WIM or operate on the machine to change the email language, if necessary.

\*3: "Toner Almost Empty" notice is sent when the remaining level reaches 10%.

### 3-23. Install a Zip File of an SOP Application

A zip file of an SOP application developed by Ricoh or RiDP partners can be installed.

Note: Only clean installation is supported for 7" panel models.

#### Install

1. Under **App Management**, click **Install from PC**.
2. Select the folder which contains the zip file of an SOP application. (Up to 10 zip files in a folder)
3. Select the application.  
Enter the machine's IP address, machine administrator's username, and password.
4. Click **Install**.

## 4. SendMeter

### 4-1. Important Note

- When using the Toner Warning email feature, please make sure to install the SendMeter application on a machine that has more than 40% of toner remaining.
- The Scanner Counter does not include the local scanner counter of some SOP applications (e.g. Streamline NX).
- The information obtained in the SendMeter application is intended to improve the accuracy of the click charge, and it is not recommended to calculate the amount of charge only with that information.

### 4-2. Starting SendMeter

Setting SendMeter:

1. Open the application list screen on the machine.
2. Tap SendMeter icon.

Screen 1 (Initial screen): Printed Page Counter

The screenshot displays the SendMeter application interface. At the top, a status bar shows 'Machine Administrator' and 'Logged in: Machine Administrator', with a 'Logout' button and a moon icon. Below this, the title 'View Counter Info' is visible. The main content area features a 'Page Counter' table with the following data:

Color Printer	2666	Full Color Copy	2922
Black Copy	6517	Black Printer	1768
Color Total	5588	Black Total	8286

To the right of the table, there are two buttons: 'Email History' and 'Settings', both with three dots indicating a menu. Below these buttons is a large green circular button labeled 'Send'. At the bottom of the screen, there is a navigation bar with the following elements: 'Check Status', a back arrow, a home icon, a menu icon, a red circle with a white 'X', and 'Stop'.

## Screen 2: Scanner Counter is On

Machine Administrator    Logged in: Machine Administrator    Logout    [Moon Icon]

### View Counter Info

Page Counter

Color Printer	2666	Full Color Copy	2922
Black Copy	6517	Black Printer	1768
Color Total	5588	Black Total	8286

Scanner Counter

Color Scanner Send	28	B&W Scanner Send	85
--------------------	----	------------------	----

Email History ...

Settings ...

Send

Check Status    [Back Arrow]    [Home Icon]    [Menu Icon]    [Status Icon]    Stop

### Note:

- To send a counter information email, the following machine settings are required:  
Configure SMTP Server, SMTP Authentication, and POP before SMTP according to your environment.  
Go to **User Tools > Machine Features > System Settings > File Transfer**.  
(Some of the settings can also be configured by the SOP Designer. See section **3-22. Configure Machine's Email Settings**.)
- The **Settings** button is available only when logged in as the machine administrator if changing the settings is not prohibited.  
(The setting to prohibit changes is in **Setting Options of SendMeter** in the SOP Designer. See section **3-12. Configure SendMeter**.)
- The Showing/Sending Scanner Counter feature is available on MFPs with the appropriate system version only. See section **1-4. Supported Models** regarding system versions.

### 4-3. Configure

#### Settings screen 1-1: Adding an email address

Machine Administrator Logged in: Machine Administrator Logout

Settings Cancel OK

Email 1 Email 2 Interval Counter Toner Warning Server

To user@example.ricoh.com

To

To

Sender SOP0001@example.ricoh.com

Customer ID 3032016-0800

Email Language English

Check Status Stop

#### Settings screen 1-2: Deleting an email address

Machine Administrator Logged in: Machine Administrator Logout

Settings Cancel OK

Email 1 Email 2 Interval Counter Toner Warning Server

To user@example.ricoh.com

To

To

Sender SOP0001@example.ricoh.com

Customer ID 3032016-0800

Email Language English

Check Status Stop

Enter email address

OK Cancel

q w e r t y u i o p

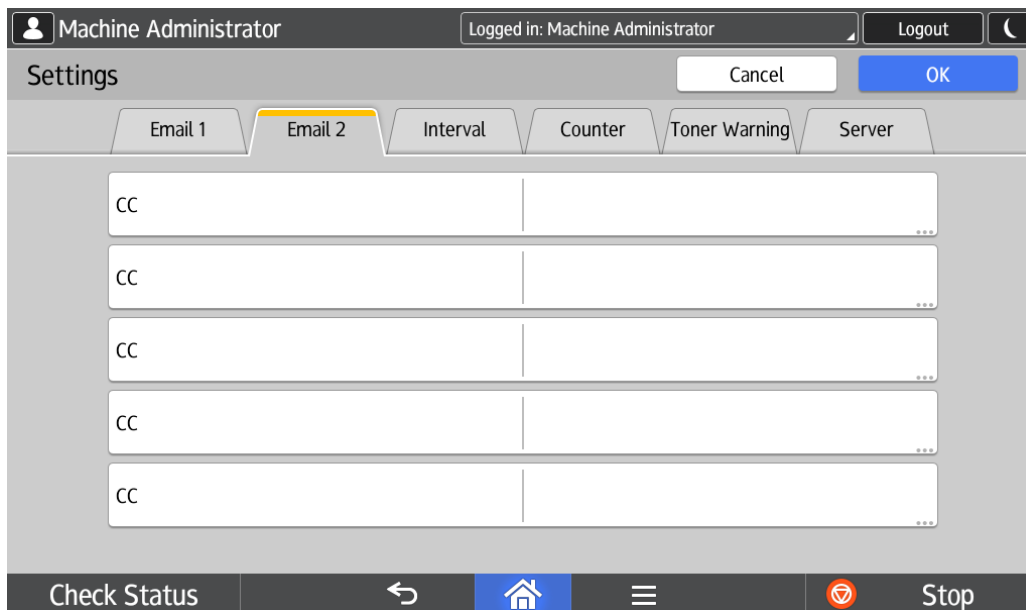
a s d f g h j k l Done

z x c v b n m , . ?

123 / @ English (US) ' -

1. Tap the email address area (e.g. user@example.ricoh.com) and the input dialog appears.
2. Clear the address and press **OK**.

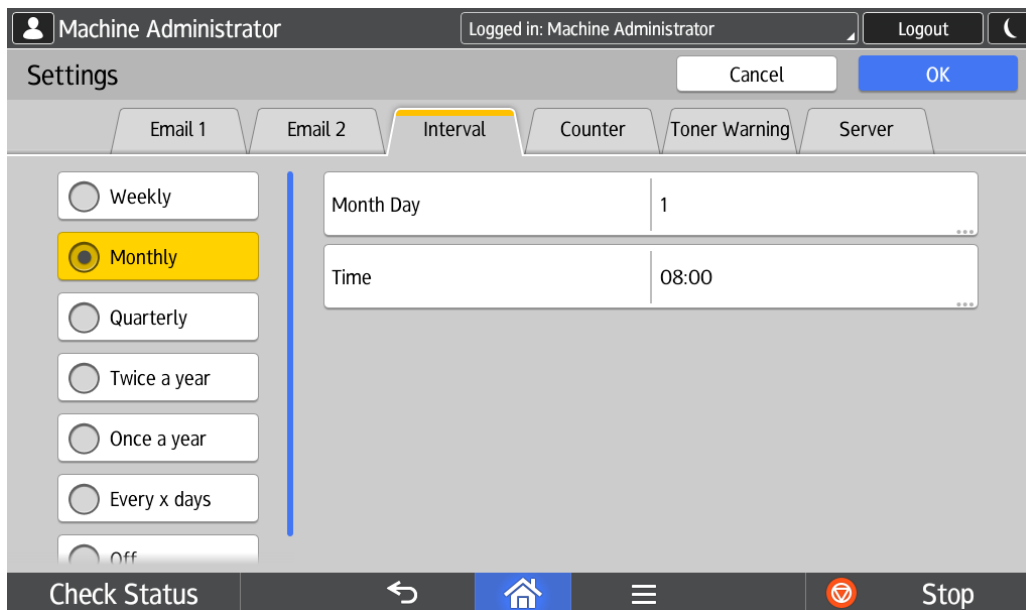
### Settings screen 2 (Initial screen): Email address CC settings



This screenshot shows the 'Email 2' tab in the 'Settings' screen. The top bar indicates the user is logged in as 'Machine Administrator' and provides 'Logout' and 'Cancel' buttons. The 'Email 2' tab is selected, showing five rows of 'CC' email address input fields. Each row consists of a text input field and a dropdown menu. The bottom navigation bar includes 'Check Status', a back arrow, a home icon, a menu icon, a status icon, and a 'Stop' button.

CC	
	...
	...
	...
	...
	...

### Settings screen 3: Interval set to Monthly (Application's default value is Off)



This screenshot shows the 'Interval' tab in the 'Settings' screen. The top bar is identical to the previous screen. The 'Interval' tab is selected, displaying a list of frequency options on the left and two input fields on the right. The 'Monthly' option is selected. The 'Month Day' field is set to '1' and the 'Time' field is set to '08:00'. The bottom navigation bar is the same as in the previous screen.

Interval	Month Day	Time
<input type="radio"/> Weekly	1	08:00
<input checked="" type="radio"/> Monthly		
<input type="radio"/> Quarterly		
<input type="radio"/> Twice a year		
<input type="radio"/> Once a year		
<input type="radio"/> Every x days		
<input type="radio"/> Off		

#### Settings screen 4 (Initial screen): Counter Settings

The screenshot shows the 'Counter Settings' screen. At the top, a header bar displays 'Machine Administrator' with a user icon, 'Logged in: Machine Administrator' with a dropdown arrow, and 'Logout' with a moon icon. Below the header, a 'Settings' section contains 'Cancel' and 'OK' buttons. A tabbed interface below shows 'Email 1', 'Email 2', 'Interval', 'Counter' (selected), 'Toner Warning', and 'Server'. The 'Counter' tab has two sections: 'Counter Mode' with buttons 'Same as User Tools Counters' (yellow) and 'All' (white); and 'Scanner Counter' with buttons 'On' (white) and 'Off' (yellow). At the bottom, a dark bar contains 'Check Status', a back arrow, a home icon, a menu icon, a red circle with a white 'v', and 'Stop'.

#### Settings screen 5 (Initial screen): Toner Warning Settings

The screenshot shows the 'Toner Warning Settings' screen. The header and 'Settings' section are identical to the previous screen. The 'Toner Warning' tab is selected, showing three settings: 'Send a notice when 20% of toner is remaining', 'Send a notice when 10% of toner is remaining', and 'Send a notice when 5% of toner is remaining'. Each setting has 'On' (white) and 'Off' (yellow) buttons. Below these is a 'Send a reminder' label. The bottom bar is identical to the previous screen.

Note: The Toner Warning tab does not appear on the SOP of a Black and White MFP.

## Settings screen 6 (Initial screen): Config File Server Settings

Machine Administrator Logged in: Machine Administrator Logout

Settings Cancel OK

Email 1 Email 2 Interval Counter Toner Warning **Server**

URL

Server Access Interval (hours) 0.5 hours

Check Status ↩️ 🏠 ☰ ⚠️ Stop

### 4-4. Toner Waning Email Samples

#### 1. When the remaining toner level reaches 10%

Subject: Toner Warning <Cyan>: ID\_20160928-0955 (Serial No. [3B51-615063])

Email body:

-----  
 Toner Warning  
 -----

Serial No. : G7100000039  
 Date: Feb.16,2018 9:10

This is to inform you that remaining toner<Cyan> reached 10% on Feb.16,2018.

Toner<Cyan> is estimated to run out 30 days after from Feb.16,2018.  
 (Estimated number of pages that can be printed is 1800.)

Page Counter  
 Color Total 16000

-----End-----

#### Note:

- This email is sent when **Send a notice when 10% of toner is remaining** is On.
- The estimated toner end dates of 10%, 5%, and toner end are calculated based on the machine usage history (simply the print volume and number of days) between the remaining toner level 30% and 20%.
- On the Toner Warning for the black toner cartridge, **Black Dev Total** will be stated under Page Counter. **Black Dev Total** goes up for each page that black toner is consumed.  
 (Dev is an abbreviation for development.)
- This email is sent at 9:10 AM on the machine's time. If the machine is in Sleep mode, the email is sent after recovering from Sleep mode.



## 2. Reminder

Subject: [Reminder]Toner Warning <Cyan>: ID\_20160928-0955 (Serial No. [3B51-615063])

Email body:

-----  
Toner Warning  
-----

Serial No. : G7100000039

Date: Mar.8,2018 9:00

This is a reminder.

Remaining toner<Cyan> reached 10% on Feb.16,2018.

Today is 10 days before the estimated toner end date, Mar.18,2018.

Page Counter

Color Total 17000

-----End-----

Note:

- This email is sent when **Send a notice when n% of toner is remaining** and **Send a reminder** are **On**.
- This email is sent at 9:00 AM on the machine's time. If the machine is in Sleep mode, the email is sent after recovering from Sleep mode.

## 3. When the toner is empty

Subject: Toner Empty <Cyan>: ID\_20160928-0955 (Serial No. [3B51-615063])

Email body:

-----  
Toner Warning  
-----

Serial No. : G7100000039

Date: Mar.23,2018 9:10

This is to inform you that remaining toner<Cyan> ran out on Mar.23,2018.

Page Counter

Color Total 18000

-----End-----

Note:

- This email might be sent when **Send a notice when n% of toner is remaining** is **On**.
- This email is sent at 9:10 AM on the machine's time. If the machine is in Sleep mode, the email is sent after recovering from Sleep mode.

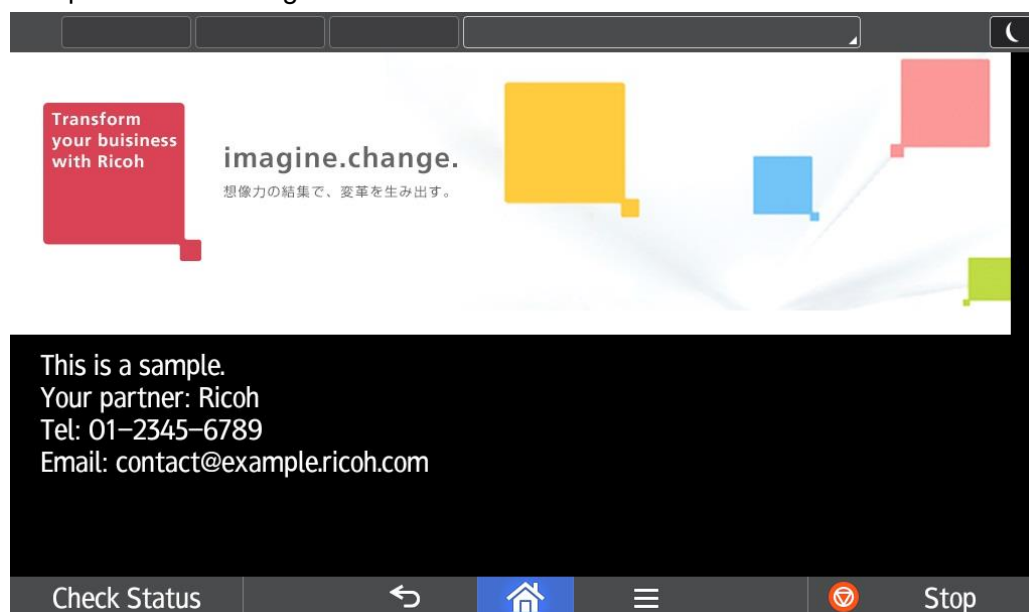
## 5. Contact Information

---

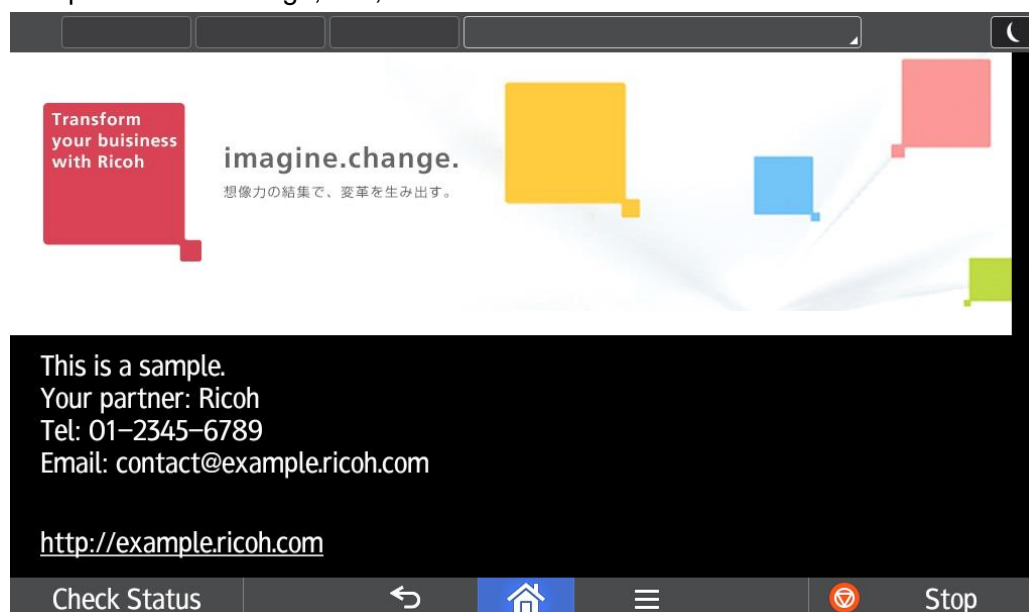
### Setting Contact Information

1. Open the application list screen on machine.
2. Tap Contact Information icon.

### Sample screen 1: Image and text



### Sample screen 2: Image, text, and URL link



## 6. Bulletin Widget

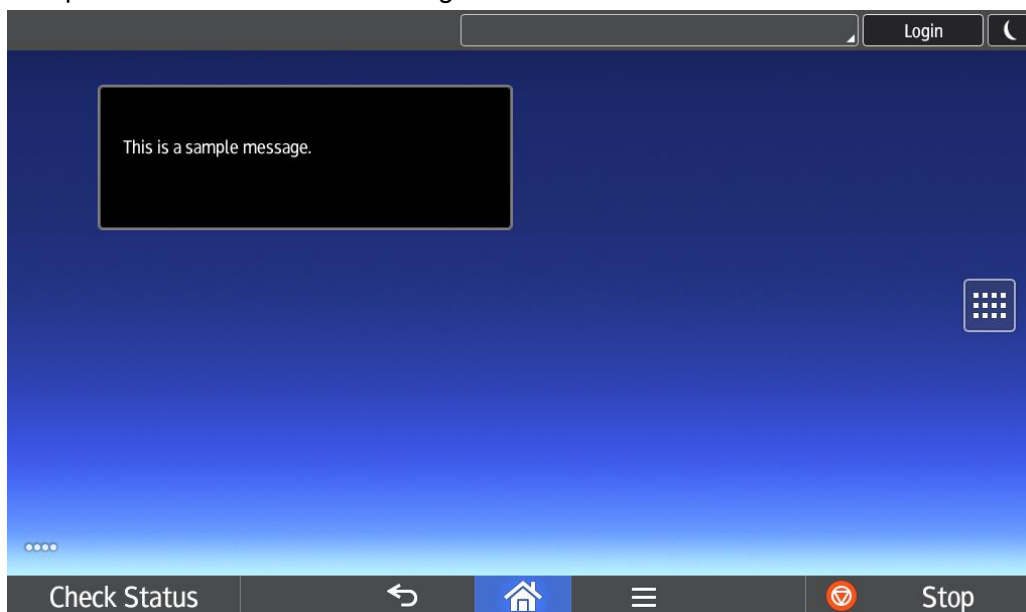
---

### Setting a Bulletin Widget

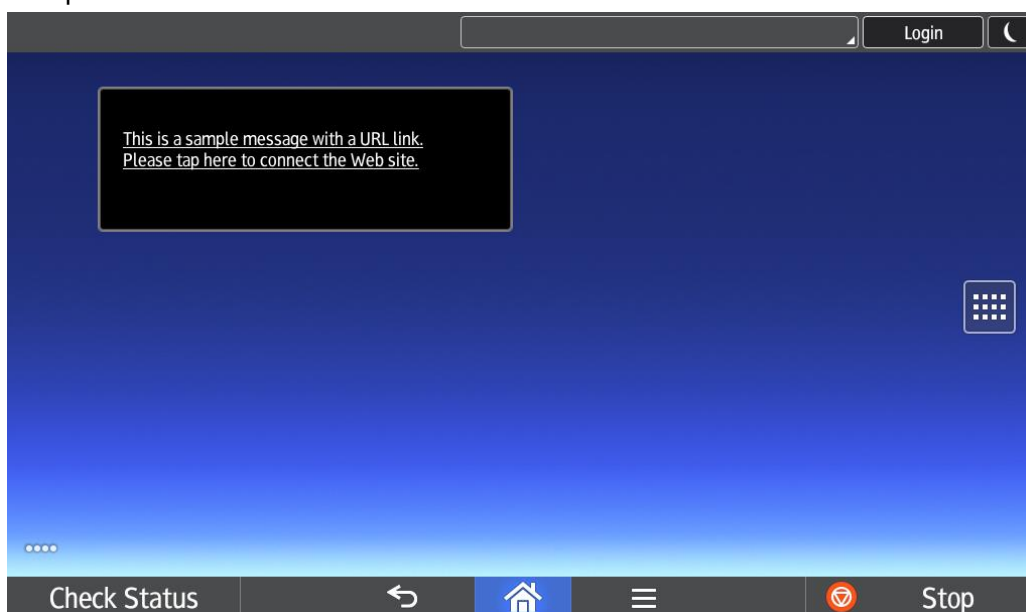
1. Open the widget list screen on the machine
2. Select **Bulletin Widget** (press and hold)
3. Drag and drop the icon.

Note: When multiple messages are defined, the Bulletin Widget displays the messages one by one at intervals set by the SOP Designer.

### Sample screen 1: Plain text message



### Sample screen 2: Text with URL link



## 7. Prepare Config File Server for the SOP APPS

---

A HTTP server can be used to configure the SOP APPS remotely after the first configuration by the SOP Designer.

Usage Scenarios:

- Updating the message on Bulletin Widget monthly.
- Updating the email address on SendMeter when the contact person has changed.

### Create Configuration Data

\*This procedure is performed on the SOP Designer.

1. Under **App Management**, click **Settings**.
2. Select **SendMeter**, **Contact Information**, or **Bulletin**, and click **Next**.
3. Configure the settings and click **OK**.  
Note: Make sure that "Config File Server URL" is set correctly for continuous updates from the server. (e.g. <http://www.example.com/RemoteConfig/SendMeter.json>)
4. Open **App Management** and go to **Settings**.
5. Select the same option you selected in #2 above and click **Save**.  
A JSON file (e.g. SendMeter.json) will be created.
6. Click **Close** at the top right corner of the window.

### Copy Configuration Data to Config File Server's Folder

\*This procedure is performed on the HTTP Server.

1. Start HTTP service (e.g. IIS) on the PC that will function as a Config File Server.
2. Copy the JSON file to the Config File Server's folder. (e.g. <C:\inetpub\wwwroot\RemoteConfig>)  
Note: Make sure the "Config File Server URL" is accessible from another PC's web browser.

### Upload Configuration Data of Server URL

\*This procedure is performed on the SOP Designer.

1. Under **App Management**, click **Settings**.
2. Select **SendMeter**, **Contact Information**, or **Bulletin**, and click **Next**.
3. Enter "Config File Server URL". (e.g. <http://www.example.com/RemoteConfig/SendMeter.json>)  
Click **OK**.
4. In **Save Config File**, click to **MFP**.
5. Check the same option you selected in #2 above.  
Enter the machine's IP address, machine administrator's username, and password.
6. Click **Upload**. "Config File Server URL" will be set on the SOP APPS.

## 8. Troubleshooting

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### SOP Designer

Q. An error occurred while downloading/uploading.

A. Check the following:

1. Are the machine and the PC connected to the network? Can you ping the machine?
2. The SOP Designer does not support connecting to the SOP via a proxy server.
3. Are the machine settings set correctly?
  - **Machine Management** in **Administrator Authentication Management** must be **On**.

To confirm this setting, go to **User Tools > Machine Features > System Settings > Administrator Tools > Administrator Authentication Management > Machine Management**.

Note: This setting is necessary for uploading Function Priority.

- **Server Function** must be **Active**. (Machine's factory default value is **Active**.)

To confirm this setting, go to **User Tools > Screen Features > Screen Device Settings > Server Settings > Server Function > Server Function**.

4. Ensure that users do not log in while uploading data to or downloading data from the machine.

5. Are the SOP Designer settings correct?

- Check the IP address
- Check the username and password of the machine administrator

6. Is the minimum supported firmware present on the target machine and the SOP?

See section **1-4. Supported Models** regarding system versions.

7. Did you download the data while a folder was present on the machine's Home screen?

Q. The SOP Designer does not start.

A. The library required to start the SOP Designer must be installed on your PC.

For details, see section **1. Operating Environment**.

Q. The SOP Designer screen is cut off and the entire screen cannot be seen.

A. The size of the SOP Designer is 1274 x 673 pixels and the maximum height of its settings dialog is 763 pixels. Ensure that the computer on which the SOP Designer is used has a screen resolution equal to or larger than 1280 x 768 pixels.

Q. An error occurred while installing an SOP application.

A. For SOP-G2 10" panel models, check if Java VM is running on the machine. The SOP Designer uses Java VM's API for installation on these models.

For 7" panel models, uninstall the application if already installed, turn the machine off and on, wait for a few minutes, and conduct a clean installation. It is recommended to make a backup of the data of the application before uninstallation.

The following models do not support SOP applications: SP C360SFNw / SP C360SNw

- Q. A question mark icon appears in the "Add App Icon" or "Set Function Priority" dialog.
- A. Install the SOP Designer Utility to resolve this issue. It will inform the SOP Designer of the missing data, and the correct application icon will be displayed after re-downloading Wallpaper or Function Priority.

Note: After successful installation of the SOP APPS, the SOP will reboot.  
Wait for a few minutes after successful installation and re-download Wallpaper or Function Priority.

- Q. Widgets do not appear in the "Add App Icon" dialog.
- A. Install the SOP Designer Utility to resolve this issue. It will inform the SOP Designer of widget information.

Note: After successful installation of the SOP APPS, the SOP will reboot.  
Wait for a few minutes after successful installation and re-download Wallpaper.

- Q. An Android robot icon appears on the SOP after uploading wallpaper and layout data.
- A. This will appear under the following conditions:
- An application (e.g. GlobalScan NX) is installed on machine A, but it is not installed on machine B.
  - Wallpaper and layout data is downloaded from machine A and uploaded to machine B.
- An Android robot icon then appears on machine B.
- Be sure that the same settings and same configuration including installed applications are written on same model devices.

## SendMeter

- Q. The **Settings** button cannot be seen on the SendMeter application.
- A. The **Settings** button is available only when logged in as the machine administrator if changing the settings is not prohibited. (The setting to prohibit changes is in **Setting Options of SendMeter** in the SOP Designer. See section **3-12. Configure SendMeter**.)
- Q. Although the "Transmission succeeded" message appeared on the SOP, the meter information email is not delivered to the Gmail address.
- A. Specify an email address with the customer's domain name for "Sender Email Address". Gmail will block an email if the domain used in the sender email address is not valid.
- Q. The transmission fails with the "Transmission failed" message on the SOP when the Gmail SMTP server or Microsoft Office 365 SMTP server is specified in the machine settings.
- A. Gmail and Office 365 require SMTP over TLS or SSL. Check the following:
- **Use Secure Connection (SSL)** must be **On**  
To confirm this setting, go to **User Tools > Machine Features > System Settings > File Transfer > SMTP Server**.
  - **SMTP Authentication** must be **On**.  
To confirm this setting, go to **User Tools > Machine Features > System Settings > File Transfer > SMTP Authentication**.

Note: Enter other settings according to setup web page of Gmail or Office 365 mail service.

- Q. The "Scanner counter is not available" message appears on the SOP when the setting of **Scanner**

**Counter is On.**

A. Check the following:

1. Ensure that the firmware is up to date. See section **1-4. Supported Models** regarding system versions.
2. Was the machine administrator account changed after SendMeter configuration data had been uploaded?
  - Check the username and password of the machine administrator, and upload SendMeter configuration data again.

Q. The Scanner Counter does not appear on the SOP after recovering from Sleep mode.

A. Tap the Home icon. Wait for a few minutes and then tap the SendMeter icon again.

**Bulletin Widget**

Q. "No message" appears on the SOP after upgrading the SOP Designer Utility, although the message has already been configured.

A. Turn the machine off and on again.

## 9. Change history

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### Version 1.44 (This version)

- Changes of the SOP Designer
  - Microsoft Visual C++ library update
  - Open Source Software update

### Version 1.43 (March 2019)

- Improvement to the SOP Designer
  - The icons will appear square-shaped on the SOP Designer similarly as they are in the SOP-G2.5.
- Improvement to the SendMeter
  - Scanner Counter support on most Black and White MFPs as well as color MFPs.

### Version 1.42 (November 2018)

- Improvement to the SOP Designer
  - Communication between the SOP Designer and MFP has been available even when Port 80 is closed on the MFP side.
  - 7" panel models support
  - Most custom application icons will disappear on unauthenticated user's Home screens as well as their original application icons when User Authentication Management is On.
- Improvement to the SendMeter
  - Accuracy of Toner Warning email function has been improved.

### Version 1.41 (April 2018)

- Improvements to the SendMeter
  - Toner Warning email support
  - Scanner Counter support
- Improvement to the SOP Designer and the SOP APPS
  - Simplified Chinese support

### Version 1.40 (November 2017)

- Improvements to the SOP Designer
  - Remote configuration of the machine's email settings (SMTP and Auto Email Notification) is supported to take advantage of the machine's Auto Email Notification feature (Call Service, Out of Toner, and Toner Almost Empty).
  - An application icon with the desired name and image can be added.
  - A zip file of an SOP application can be installed.

### Version 1.33 (June 2017)

- Improvements to the SOP Designer
  - Ciphertext is supported for the communication between the SOP Designer and MFP.
  - An IP address list can be used when entering the machine's IP address.
  - Silent Mode (to hide error dialog of "Continue? Yes/No") support
- Improvement to the Contact Information
  - URL link support

### Version 1.32 (February 2017)

- Improvements to the SOP Designer
  - Switching language capability regardless of the Windows OS language.



- Up to 100 IP addresses can be specified at a time when uploading configuration data to MFP.
- Improvement to the SendMeter
  - "SMTP over SSL/TLS" support
- Bug fixes on the SendMeter
  - Too many counter items are displayed on SOP-G2 models if "Counter Mode" is set to "All".
  - An email is sent unexpectedly every time the machine is powered on if automatic transmission is on.

#### Version 1.31 (November 2016)

- Improvement to the SOP Designer and the SOP APPS
  - French, German, Italian, Spanish, and Dutch language support
- Improvements to the Bulletin Widget
  - Display Images with hyperlinks
  - No line break in the middle of words
  - Hide the border line of the widget

#### Version 1.30 (May 2016)

First release

## About Open Source Software in SOP Designer

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### Open Source Software (OSS) List

This product includes the software to which the following OSS licenses are applied.

No.	OSS name	Version	License	Notes
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2	wxPython	4.0.6	wxWindows Library License	
3	Pillow	7.0.0	PIL Software License	
4	requests	2.22.0	Apache License 2.0	
5	pyca/cryptography	2.9.2	Apache License 2.0	
6	certifi	2019.11.28	MPL 2.0	The OSS source code is included in the SOP Desinger software package.
7	urllib3	1.25.8	MIT	
8	idna	2.8	BSD	
9	chardet	3.0.4	LGPL 2.1	The OSS source code is included in the SOP Desinger software package.
10	six	1.14.0	MIT	
11	numpy	1.18.1	BSD	
12	cffi	1.14.0	MIT	
13	pycparser	2.20	BSD	
14	altgraph	0.17	MIT	
15	future	0.18.2	MIT	
16	pefile	2019.4.18	MIT	
17	pywin32-ctypes	0.2.0	BSD	

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This is Python version 3.7.4

### A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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