Sanei Cups Driver for Raspberry Pi

User's guide

SANEI ELECTRIC INC.

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The contents and cover will be changed without notice.

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1. Introduction

This manual is prepared for engineers and before explanation, it is considered all software used for CUPS driver is installed on your own Raspberry Pi in advance.
This material describes "how to install" , as an example, for printer model, SM3-21, and, the same procedure could be taken for other Sanei printers.
The command in terminal is mentioned as an example and input the command complying with your using OS version and printer.

2. Installation (Procedure from Browser)

The procedure to install CUPS driver from browser is as follows.

STEP1. Start the application, terminal.

STEP 2. Change to super user.

```
su
Password:XXXX
```

← Input password.

STEP 3. Unzip ZIP file.

```
unzip cups_MOBILE.zip
```

STEP 4. Move to unzipped folder.

```
cd cups_MOBILE
```

STEP 5. Move to “bin” folder.

```
cd bin
```

STEP 6. Copy CUPS filter file.

```
cp rastertosanei_mobile /usr/lib/cups/filter
```

STEP 7. Connect with Raspberry Pi and USB cable after turning on the power of SM3-21.

STEP 8. Start browser.

STEP 9. Indicate management display of CUPS while inputting “127.0.0.1:631/admin” on URL.

STEP 10. Click ”Add Printer”.

STEP 11. Select “SANEI SM3-21” from Local Printers and then click “Continue”.

STEP 12. Click “Continue”.

STEP 13. Click “Choose File”.

STEP 14. Select PPD file and then click “Open”.

STEP 15. Click “Add Printer”.

STEP 16. Select Media Size (Paper Size) and then click “Printer Settings”.

STEP 17. Select Set Printer Options you wish and then click “Set Default Options”.

STEP 18. Installation ends after the display shows below.

3. Installation (Procedure inside of terminal)

The below procedure is shown how to install CUPS driver from terminals entirely.

If it is not able to install the CUP driver by browser, please follow the procedure mentioned below.

STEP 1. Start the application, terminal.

STEP 2. Change to super user.

```
su
Password:XXXX
```

← Input password.

STEP 3. Unzip ZIP file.

```
unzip cups_MOBILE.zip
```

STEP 4. Move to unzipped folder.

```
cd cups_MOBILE
```

STEP 5. Move to “bin” folder.

```
cd bin
```

STEP 6. Copy CUPS filter file.

```
cp rastertosanei_mobile /usr/lib/cups/filter
```

STEP 7. Connect with Raspberry Pi and USB cable after turning on the power of SM3-21.

STEP 8. Install printer.

```
lpadmin -p SM3-21 -P ppd/sanei_SM3_21.ppd -v serial:/dev/usb/lp0 –E
```

* The portion of name of device (/dev/usb/lp0) may change due to environment.

STEP 9. Confirm the status of printer installed.

“idle” is shown in case of the right installation.

```
lpstat –p SM3-21
```

4. Procedure of build

Procedure of build of CUPS driver is mentioned in below.
Normally the file of build already installed in the folder can be used, therefore it is not necessary to re-install the build.
In case of using LINUX for different device from Raspberry Pi or, customizing CUPS driver at the customer, please take the following procedure.

STEP 1. Start the terminal.

STEP 2. Change to super user.

```
su
Password:XXXX
```

← Input password.

STEP 3. Unzip ZIP file.

```
unzip cups_MOBILE.zip
```

STEP 4. Move to unzipped folder.

```
cd cups_MOBILE
```

STEP 5. Move to “src” folder.

```
cd src
```

STEP 6. Unzip source file.

```
tar zxvf cups_MOBILE.tgz
```

STEP 7. Move to “cups_MOBILE” folder.

```
cd cups_MOBILE
```

STEP 8. Make build.

```
make
```

STEP 9. The following files can be made when the right build is carried out.

rastertosanei_mobile	CUPS filter file
ppd/sanei_BLM80.ppd	PPD file for BLM80
ppd/sanei_SM1_21.ppd	PPD file for SM1-21
ppd/sanei_SM2_41.ppd	PPD file for SM2-41
ppd/sanei_SM3_21.ppd	PPD file for SM3-21

5. Revision records

Rev No.	Date of revision	Details
1.00	Sep/2017	New creation
1.01	Feb/2021	Printer type SM4 Series was supported newly. CUPS driver for SK1 was modifyed.