

1. Overview

This is git patch to update “epson2” and “epson2” sane driver.

- Based on SANE backend “1.0.31”.
- Fixing issues regarding scanner control.
- Adding support Epson scanners and non-“eSCL” MFPs
- Supporting auto device discovery for network connection using Avahi.

2. Components

File	Description
epson_scanner_driver_update.patch	Git patch file for SANE backend 1.0.31
COPYING	License file
Epson SANE driver patch release note.pdf	This document

3. Steps to apply this patch

Below is the description about steps to apply this patch.

3.1 Downloads SANE driver “sane-backends-1.0.31.tar.gz” from SANE Project.

Location : <https://gitlab.com/sane-project/backends/-/releases>

Link to archive :

<https://gitlab.com/sane-project/backends/uploads/8bf1cae2e1803aefab9e5331550e5d5d/sane-backends-1.0.31.tar.gz>

3.2 Apply patch and install driver

```
$ cd sane-backends-1.0.31
$ patch -p 1 < epson_scanner_driver_update. Patch
$ ./configure
$ make
$ sudo make install
```

3.3 Re-generates SANE udev file

3.3.1 Move to “tools” folder at sane backend project

```
$ cd tools
```

3.3.2 Generates sane udev rules (41-libsane.rules)

```
$/sane-desc -s ../doc/descriptions -m udev > 41-libsane.rules
```

3.3.3 Replace “41-libsane.rules” on operating system udev rules dir.

```
$ sudo cp “41-libsane.rules” [Operating system udev dir] (e.g. /lib/udev/rules.d/)
```

4. Change Points

Components/Files	Chang points
<p>epsods backend</p> <p>epsods.h epsods.c epsods-cmd.h epsods-cmd.c epsods-usb.h epsods-usb.c epsods-net.h epsods-net.c epsods-opts.h epsods-opts.c epsods-jpeg.h epsods-jpeg.c epsods.conf.in</p>	<p>Fixing following issues:</p> <ul style="list-style-type: none"> - Scanned images are corrupted. - Broken scanner control sequence. - Scanner connection fails on some environment. - Continuous scan does not work properly. <p>Adding following feature;</p> <ul style="list-style-type: none"> - Adding supported products. - Adding “ADF Duplex” and “ADF Simplex” to “source” option. - Adding feature to set image correction settings to scanner. - Adding “adf-skew” option - Adding “adf-crop” option - Adding mechanism to load scanner information from epsods.conf - Adding network discovery using Avahi. - Removing un-necessary “adf-mode” option. - Removing network discovery using UDP broadcast (Epson original protocol).
<p>epson2 backend</p> <p>epson2.c epson2_net.h epson2_net.c</p>	<p>Adding following feature;</p> <ul style="list-style-type: none"> - Adding supported products. - Adding mechanism to load scanner information from epson2.conf - Adding network discovery using Avahi.
<p>Makefiles</p> <p>Makefile.in Makefile.am</p>	<p>Adding \$(AVAHI_LIBS) dependency to epsods and epson2 backend.</p>
<p>Description files</p> <p>epson2.desc epsods.desc</p>	<p>Adding device name and USB PID for supported models</p>

5. Supported Models

The following scanners and MFPs are additionally supported by this patch.

Scanner	DS-70/80W/310/320/360W/410/530/530II/531/535/535II/535H/570W/570WII/571W/575W/575WII/1610/1630/1660W ES-50/55R/60W/60WB/60WWW/65WR/200/300W/300WR/400/400II/500W/500WR/500WII/580W RR-60/70W/600W, FF-680W
MFP	ET-2500/2600/2610/2700/2710/2711/2712/2714/2715/M3140/M2140 M2140/M2148/M3140 L365/L366/L375/L395/L396/L3050/L3060/L3100/L3101/L3106/L3108/L3109/L3110/L3111/L3115/L3116/L3117/L3118/L3119 L3150/L3151/L3152/L3153/L3156/L3158/L4150/L4151/L4153/L4156/L4158 XP-230/231/235/235A/240/241/245/247/2100/2101/2105/2106/ PX-048A/049A/M160T EW-052A

6. Known issues

No.	Issue	Affected models	Fix schedule
1	On duplex scanning, back side image is upside down.	DS-1610/1630/1660W	May 24, 2021

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