

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

## 5. Supported Models

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

<b>Scanner</b>	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/60WW/65WR/200/300W/300WR/400/400II/500W/500WR/500WII/580W RR-60/70W/600W, FF-680W
<b>MFP</b>	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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