Samsung Unified Linux Driver

User's Guide

Samsung Electronics, Co., Ltd.

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INTRODUCTION

The Samsung Unified Linux Driver(ULD) is a unified print and scan driver package that includes all of supported print and scan drivers for Linux. If you install only one ULD, you can access any Samsung printer or scanner which is supported by ULD

Driver Types

There are 2 types(*) of **Samsung Unified Linux Driver** for printer, which are up to PDL type.

Driver Type(Printer)	Description
SPL	Supporting SPL(*) supported models
PS	Supporting PS(*) supported models
(*) Only DC duiting is sumplied in sees of the ma	dele which as meant both CDL and DC

 $(\ensuremath{^*})$ Only PS driver is supplied in case of the models which support both SPL and PS

(*) SPL : Samsung Printer Language

(*) PS : PostScript

There is 1 type of **Samsung Unified Linux Driver** for scanner.

Driver Type(Scanner)	Description
SANE(*)	Supporting SSIP(*) supported models

(*) SSIP : Samsung Scan Interface Protocol.

SUPPORTED ENVIRONMENTS

Operating Systems

OS Name	Version
Red Hat Enterprise Linux	5, 6
Fedora	11, 12, 13, 14, 15, 16, 17, 18, 19
openSUSE	11.0, 11.1, 11.2, 11.3 ,11.4, 12.1, 12.2, 12.3, 13.1
Ubuntu	10.04, 10.10, 11.04, 11.10, 12.04, 12.10, 13.04, 13.10
SUSE Linux Enterprise Desktop	10, 11
Debian	5, 6, 7
Mint	13, 14, 15, 16

Pre-conditions

Samsung Unified Linux Driver is based on CUPS(*) and SANE(*) systems. It will work properly only in case CUPS and SANE packages are pre-installed on your system. If your system does not get them installed as default, please install them manually on your own.

(*) CUPS : Common Unix Printing System

(*) SANE : Scanner Access Now Easy

INSTALLATION

How To Install ULD

NOTE : You don't need to type "sudo" if you are already logged in as root.

- 1. Open Terminal.
- 2. Unpack "uld.tar.gz" package.
- 3. Go to "uld" folder.
- 4. Type "sudo ./install.sh" to launch installer (You may need password for the current user)



5. Type "Enter key" to proceed.

	pungsane@test2:~/uld	_ + ×
<u>F</u> ile	<u>E</u> dit <u>V</u> iew <u>T</u> erminal <u>T</u> abs <u>H</u> elp	
<u>F</u> ile [pun **** ****	Edit View Terminal Tabs Help gsane@test2 ~]\$ cd uld gsane@test2 uld]\$ sudo ./install.sh Running install Press Enter to continue or q and then Enter to quit:	

6. EULA will be displayed. Type "Space" key to see more or type "q" to skip the rest of EULA pages.

E pungsane@test2:~/uld	_ + ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> erminal <u>T</u> abs <u>H</u> elp	
END-USER LICENSE AGREEMENT FOR SAMSUNG ELECTRONICS SOFTWARE PRODUCT	^
IMPORTANT-READ CAREFULLY: This Samsung Electronics End-User License A EULA") is a legal agreement between you (either an individual or a si) and Samsung Electronics Co., Ltd. ("SAMSUNG ELECTRONICS") with resp SAMSUNG ELECTRONICS software product intended to be used with the SAM s. The SAMSUNG ELECTRONICS software product may include associated so onents, media, printed materials and "online" or electronic documenta ped and provided by SAMSUNG ELECTRONICS ("SOFTWARE PRODUCT"). For all d party software products which may be supplied with or for the SAMSU your use of such software products shall be subject to separate term d end user license agreements of such third parties. By installing, ownloading or using the SOFTWARE PRODUCT, you agree to be bound by th this EULA. If you do not agree to the terms of this EULA, you may not use the SOFTWARE PRODUCT.	greement (" ngle entity ect to the ISUNG device oftware comp tion develo other thir NG devices, is of use an copying, d te terms of install or
1. GRANT OF LICENSE. The SOFTWARE PRODUCT is licensed, not sold. Subject to the condition e in compliance with the terms of this EULA, SAMSUNG ELECTRONICS gran following licenses: (a) you may install and use one copy of the SOFTW , or any prior version for the same operating system, on a single com se by a single simultaneous operator; and (b) you may install a singl he SOFTWARE PRODUCT, strictly for your own personal use, on one porta -More	that you ar ts you the ARE PRODUCT puter for u e copy of t ble compute

7. If you agree EULA, type "y" and "Enter" key. If don't, type "n" and Enter key.

					,								
	10		pur	ngsane	@test2	:~/uld					- '	+ ×	
<u>F</u> ile <u>E</u> dit	<u>V</u> iew	<u>T</u> ermina	l <u>T</u> abs	<u>H</u> elp									
IMPORTANT EULA") is) and Sam SAMSUNG E s. The SA onents, m ped and p d party s your use d end use ownloadin this EULA use the	-READ C a lega sung El LECTROM MSUNG E edia, p rovidec oftware oftware oftware of suc r licer g or us . If yo SOFTWAF	CAREFULL al agreen lectronic NICS sof ELECTRON orinted n by SAM orinted n by SAM	Y: This ment be cs Co., tware p ICS sof materia SUNG EL ts whic are pro ements SOFTWA t agree CT.	Samsun tween y Ltd. roduct tware y ls and ECTRON h may l ducts s of such RE PROD to the	ng Elec you (ei SAMSU intend product "onlin ICS ("S be supp shall b h third DUCT, y e terms	tronic ther a NG ELE ed to may i e" or OFTWAR lied w e subj parti ou agr of th	s End- n indi CTRONI be use nclude electr E PROD ith or ect to es. ee to is EUL	User L: vidual CS") w: d with assoc: onic do UCT"). for th separa By ins ⁻ be boun A, you	icense or a s ith res the SA iated s ocument For al For al For al for SAMS ate ter talling nd by t may no	Agree ingle pect MSUNG oftwa atior l oth UNG of ms of , cop he te t ins	ement to t i dev are o n dev ner t levio tuse sying stall	t (" tity the vice comp velo thir ces, e an of of l or	
1. G The SOFTW e in comp following , or any se by a s he SOFTWA	RANT OF ARE PRO liance licens prior v ingle s RE PROD	E LICENSI DDUCT is with the ses: (a) version simultane DUCT, st	E. licens e terms you ma for the eous op rictly	ed, not of th: y insta same o erator for you	t sold. is EULA all and operati ; and (ur own	Subje , SAMS use o ng sys b) you person	ct to UNG EL ne cop tem, o may i al use	the con ECTRON y of th n a sin nstall , on on	ndition ICS gra ne SOFT ngle co a sing ne port	that nts y WARE mpute le cc able 	you You 1 PROE er fo py o comp	i ar the DUCT or u of t Dute	
**** Do y	ou agre	e?[y/i	n]: y										V

8. Install finished.

pungsane@test2:~/uld Σ <u>File Edit View Terminal Tabs Help</u> onents, media, printed materials and "online" or electronic documentation develo 🗠 ped and provided by SAMSUNG ELECTRONICS ("SOFTWARE PRODUCT"). For all other thir d party software products which may be supplied with or for the SAMSUNG devices, your use of such software products shall be subject to separate terms of use an d end user license agreements of such third parties. By installing, copying, d ownloading or using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, you may not install or use the SOFTWARE PRODUCT. 1. GRANT OF LICENSE. The SOFTWARE PRODUCT is licensed, not sold. Subject to the condition that you ar e in compliance with the terms of this EULA, SAMSUNG ELECTRONICS grants you the following licenses: (a) you may install and use one copy of the SOFTWARE PRODUCT , or any prior version for the same operating system, on a single computer for u se by a single simultaneous operator; and (b) you may install a single copy of t he SOFTWARE PRODUCT, strictly for your own personal use, on one portable compute **** Do you agree ? [y/n]: y **** CUPS restart OK **** Restarting udev ... **** Install finished [pungsane@test2 uld]\$

UNINSTALLATION

How To Uninstall ULD

- 1. Open Ternimal.
- 2. Move to "uld" folder and type "sudo ./uninstall.sh" to launch uninstaller installer (You may need password for the current user).



3. Type "Enter" key to proceed.



4. Uninstall finished.

USING "Samsung Unified Linux Driver"

NOTE : The explanations below are regarding general steps and they may be different according to your Linux distribution's kind or version.

How To Add Your Printer to Your System

NOTE : You can also add a printer by using CUPS Web UI instead of the method below. Launch web browser such as Firefox and go to http://localhost:631

- 1. Launch system's printing utility (go to System > Administration > Printing or execute the command "system-config-printer").
- 2. Click Add(or New) button.



3. For USB devices, it's model name will be displayed on top. Select it and click Forward..



4. For network devices, select AppSocket/HP JetDirect under Network Printer menu and type ip address into Host field.

😣 🛇 🔗 🛛 New Printer	
Select Device	
Select Device Devices Samsung ML-1800 Serie Samsung CLP-320 Serie: Samsung CLP-670 Serie: Samsung CLP-670 Serie: Samsung CLX-92x1 93x: Samsung SCX-8123 812: Samsung M332x 382x 4 Samsung M332x 382x 4 Samsung SCX-483x 5x3: Samsung CLP-670 Serie: Samsung CLP-670 Serie: Samsung ML-451x 501x Find Network Printer Internet Printing Protocc Windows Printer via SAM AppSocket/HP JetDirect LPD/LPR Host or Printer Samsung CLP-360	Location of the network printer Host: 10.88.194.50 Port number: 9100
4 (III) Þ	Cancel Forward

5. In case of some Linux distributions(such as Ubuntu), it will discover available driver automatically from OpenPrinting web site if the corresponding driver was registered on the web site. In this case, just click Activate button and Close.

🔞 Hardware Drivers
Driver search results
Samsung CLX-6240
PPD files for Samsung's PostScript printers, supplied by Samsung (version Postscript-Samsung)
PPD files for Samsung's PostScript printers, supplied by Samsung (version Postscript- ▲ Not tested by the Ubuntu developers ■ License: Free Functionality:
text: 100% lineart: 100% photo: 100% graphics: 100%
Supplied by: Samsung (printer manufacturer)
- Samsung Support (voluntary): http://www.samsung.com/printer/
This driver is not activated.
Help

6. In case it does not discover the installed driver automatically, so you may need to select the corresponding driver from Samsung database.

🧕 🛇 📀 New Printer
Choose Driver
 Select printer from database
O Provide PPD file
 Search for a printer driver to download
The foomatic printer database contains various manufacturer provided PostScript Printer Description (PPD) files and also can generate PPD files for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific features of the printer.
Makes
Samsung
Savin
Seiko
Sharp
Shinko
Sony
Star
Tally
Xerox
Back Cancel Forward

7. Set the installable options(such as Tray2, Finisher) according to current device's settings(it may not be displayed according to driver in case installable options are not supported)

😣 📀 📀 New Printer
Installable Options
This driver supports additional hardware that may be installed in the printer.
Tray 2
Back Cancel Forward
Installable Options This driver supports additional hardware that may be installed in the printer. Tray 2 Back Cancel Forward

8. Set the printer name as you want and click Apply button.

😣 🛇 🔕 New Printer
Describe Printer
Printer Name
Short name for this printer such as "laserjet"
Samsung-CLX-6240
Description (optional)
Human-readable description such as "HP LaserJet with Duplexer"
Samsung CLX-6240
Location (optional)
Human-readable location such as "Lab 1"
Back Cancel Apply

How to Print Your Document

- 1. Launch an application and open a test file.
- 2. Click Print button.
- 3. Select the printer to test and set options in each tab to apply.
 - 😣 Print

General	Page Setup	Text Editor	lop	Image Quality	Advanced			
	· - 5		J					
Prin	iter		Loca	tion	Status			
🛃 Prir	nt to File							
🗎 CD	(-6240-Series		pung	gsane-desktop	Printer is no	w onli	ine.	
🖺 Sar 🚇 Sar	nsung-CLX-62 nsung-M332x	40 -382x-402x						
					\$			
Range					Copies			
Al	Pages				Copies	:	1	
Cu	irrent Page					ate		
\bigcirc Pa	ges:				Rev	erse	12	
				P	int Preview		Cancel	Print

4. Click Print button.

How to Scan Your Document

For Xsane Users

- Launch Xsane program(execute the command "xsane" in Terminal program. In case it's not installed by default, please install it by referring to the <u>How to Install Xsane Program</u> section. Or you can use "Simple Scan" program installed as default on most of recent distributions).
- 2. Select a device to test.

🛛 😣 😒 🕺 xsane 0	.996 device selection	▶					
$X \cdot S \cdot A \cdot N \cdot E$							
Available device	25.						
 SAMSUNG 	CLX-3180 Series Scanner	[smfp:net;20010db800010000021599fffe7e08d5]					
SAMSUNG	CLX-3180 Series Scanner	[smfp:net;20010db800010000021599fffe7c0205]					
SAMSUNG	CLX-3300 Series Scanner	[smfp:net;10.88.193.25]					
SAMSUNG	CLX-4190 Series Scanner	[smfp:net;10.88.195.226]					
SAMSUNG	CLX-6240 Series Scanner	[smfp:net;10.88.194.50]					
SAMSUNG	CLX-8385 Series Scanner	[smfp:net;10.88.198.243]					
SAMSUNG	CLX-8385 Series Scanner	[smfp:net;20010db800010000021599fffe1e6ab4]					
SAMSUNG	CLX-8385 Series Scanner	[smfp:net;20010db800010000021599fffe1df76e]					
SAMSUNG	CLX-8640 8650 Se Scanner	[smfp:net;10.88.197.214]					
SAMSUNG	CLX-8640 8650 Se Scanner	[smfp:net;10.88.198.121]					
SAMSUNG	CLX-9252 9352 Se Scanner	[smfp:net;10.88.195.243]					
SAMSUNG	CLX-9252 9352 Se Scanner	[smfp:net;10.88.194.64]					
○ SAMSUNG	CLX-9252 9352 Se Scanner	[smfp:net;20010db800010000021599fffe4dab21]					
SAMSUNG	CLX-9252 9352 Se Scanner	[smfp:net;20010db800010000021599fffec728ab]					
SAMSUNG	CLX-92x1 93x1 Se Scanner	[smfp:net;10.88.197.200]					
SAMSUNG	CLX-92x1 93x1 Se Scanner	[smfp:net;10.88.193.175]					
○ SAMSUNG	CLX-92x1 93x1 Se Scanner	[smfp:net;10.88.198.219]					
○ SAMSUNG	CLX-92x1 93x1 Se Scanner	[smfp:net;10.88.198.236]					
SAMSUNG	CLX-981x Series Scanner	[smfp:net;10.88.193.75]					
SAMSUNG	K2200 Series on Scanner	[smfp:net;10.88.194.153]					
SAMSUNG	K2200 Series on Scanner	[smfp:net;10.88.195.66]					
e Manager]	K2200 Series on Scanner	[smfn:net:10.88.193.35]					

3. Enable Preview and standard options window.



4. Set scan options to apply

Sile Preferences View Window Help	
Viewer +	
/home/pungsane/out.pnm	
► +1 ★ Type by ext ★	
Color - 16 Million Colors	
Full color range	Standard options SCX-8123 8128 Series on
	Scan Area
₹	Page Format Letter (Rotated)
	Left [mm] 4
	Top [mm] < 💷 > 0 🛔
	Right [mm]
Y 🎽 🏋 👫 R M	Bottom [mm]
	Document Source ADF Simplex
827*635*24 (1.5 MB) Scan	
280.00 mm x 215.00 mm Cancel	NAND

5. Click Scan button.

For Simple Scan Users

- 1. Launch Simple Scan program(execute the command "simple-scan" in Terminal program).
- 2. Go to Document > Preferences menu.

Simple	Dociment Page	e Help			
Ø	<u>N</u> ew Sc <u>a</u> n				
	<u>S</u> ave		🔌 🗳 🕲	Сгор	
	Save <u>A</u> s	Shift+Ctrl+S			
	<u>E</u> mail	Ctrl+E			
	Erme	Cut+P			
	<u>P</u> references				
	Quit	Ctrl+Q			
-					
U					
293					
9 2					

3. Select the scanner to use and set each scan option to apply.

😣 🔵 Preference	25	2
Scan Source:	SAMSUNG CLX-3180 Series on 10.88.194.167	-
Text Resolution:	150 dpi (default)	•
Photo Resolution	300 dpi (default)	•
Scan Side:	Front	•
Page Size:	Letter	•
		Close

4. Click Scan button to start.



How to Install Xsane Program.

NOTE : To search/install Xsane program, internet should be available and network server's firewall should be turned off.

1. For Ubuntu users, go to Ubuntu Software Center, and search Xsane.,







2. For openSuSE users, go to Install/Remove Software and search Xsane.



3. For Fedora users, go to **Software** and search Xsane.





4. For RedHat Enterprise Linux or Debian users, go to **Add/Remove Softerware** and search Xsane.



8	Add/Remove Software		×		
<u>System</u> <u>Filters</u> Selection <u>H</u>	elp				
Find	X Window System front-end for the SAN xsane-0.997-8.el6 (i686)	E scanner inter	face		
	Common files for xsane packages xsane-common-0.997-8.el6 (i686)				
	GIMP plug-in providing the SANE scanner xsane-gimp-0.997-8.el6 (i686)	er interface			
	XSane is an X based interface for the SANE (Scanner	Project:	Homepage		
	Access Now Easy) library, which provides access to scanners, digital cameras, and other capture devices.	Group:	Other		
	XSane is written in GTK+ and provides control for	License:	GPLv2+		
	performing the scan and then manipulating the captured image.	Menu:	Applications \rightarrow Graphics \rightarrow Scanner To		
Help			<u>C</u> ancel <u>C</u> lear <u>Apply</u>		

How to Install Xsane Program – Trouble Shootings

For Fedora Users

For some of Fedora distributions, you may fail to search Xsane program via Software. In such case, please refer to the following procedure to resolve this issue.

1. Switch to root user and open the two files one by one.

root@localhost:~				
File Edit View Search Terminal Help				
[pungsane@localhost ~]\$ su - Password: [root@localhost ~]# gedit /etc/yum.repos.d/fedora.repo [root@localhost ~]# gedit /etc/yum.repos.d/fedora-updates.repo				

2. Remove "#" from all of 'baseurl' lines and put "#" in front of all of 'mirrorlist' lines.

Activities	Wed 10:	:02	•	• »)	모	🖾 pungsane
fe	dora.repo (/etc/yum	.repos.d) – gedit				×
File Edit View Search Tools Doc	uments Help					
🍄 🛄 Open 👻 🎂 Save 🛛 🚍	🥱 Undo 🥏 💥	, e 🗈 Q	Q			
fedora.repo ×						
[fedora] name=Fedora \$releasever - \$base failovermethod=priority	earch					
<pre>baseurl=http://download.fedoray Everything/\$basearch/os/ #mirrorlist=https://mirrors_fedoray</pre>	oroject.org/pub/	fedora/linux/rel metalink?reno=fa	leases edora-	/\$rel \$rele	easev	/er/ er&arch=
\$basearch	doruproject.org/	metatink.repo-k	Suoru	φroce	,0001	in dur en -
<pre>#metadata_expire=7d gpgcheck=1 gpgkey=file:///etc/pki/rpm-gpg,</pre>	/RPM-GPG-KEY-fed	ora-\$basearch				
[fedora-debuginfo] name=Fedora \$releasever - \$base failovermethod=priority	earch - Debug					
baseurl=http://download.fedora Everything/\$basearch/debug/ #mirrorlist=https://mirrors.fe \$releasever&arch=\$basearch	oroject.org/pub/ doraproject.org/	tedora/linux/re	leases edora-	/\$rel debug	easeı I-	/er/
enabled=0						
	Plain Text 🗸	Tab Width: 8 🗸		Ln 1,	Col 9	INS

3. Save the files and launch 'Software'

Activities	Software	Tue 19:44	Ð	()	₽	🖾 pungsane
-1-111-111 9-101-19 10	Check for Updates	/250			111-2111-21	×
	Software Sources	, arc				
	Refresh Package Lists			Waitin	ıg in qu	eue Cancel
合 Package col	Software Log	.er/updater/mai	nager			
👰 Admin tools		r yuro				
👸 GNOME des	Only Newest Versions	ON 111 0-4.fc18				
🔣 KDE deskto	Only Native Packages					
💿 Other deskt		fc18				
Xfce deskto	Help	nd the yum pacl	kage manager			
B Easts		iss devices base	nd on 7d1211 c	bincot		
Games	About Sortware Install	4-7.fc18		inpset		
3 Graphics	Quit	nd packaging u	tility compatible	e with F	PKZIP	
🕥 Internet	zip-:	3.0-5.tc18 (32-bit)			_	
🔒 Legacy					_	

4. Click 'Refrech Package Lists' and search Xsane again.

For Red Hat Enterprise Linux Users

For non-registered users for Red Hat Enterprise Linux, you may fail to search Xsane program via Install/Remove Software. In such case, please register your ID to official Red Hat home page to resolve this issue. For details, please contact Red Hat office.

SUPPORTED PRINTERS

The list below is based on the ULD Ver.1.00.21

Newer devices(models) will be added accordingly. Visit <u>http://www.samsung.com/printer</u> for the latest supported printers.

	Driver	
Series	Model Number	ULD
C	1810/1860 Series	0
C	410/460 Series	0
CLP-	300/310/320/350/360 Series	0
	410 Series	0
	600/610/620/660/670/680 Series	0
	770/775 Series	0
CLX-	216x Series	0
	3160/3170/3180/3300 Series	0
	4190 Series	0
	6200/6220/6240/6250/6260 Series	0
	8380/8385/8380X/8540 Series	0
	8640 8650 Series	0
	9250 9350/9252 9352/92x1 93x1 Series	0
	981x/982x Series	0
М	2020/2070/262x 282x/267x 287x/	0
	283x/288x Series	
	332x 382x 402x/337x 387x 407x Series	0
MFP-	560/65x/750 Series	0
ML-	1520/1610/1630/1630W/1640/1660/1670/	0
	1710/1740/1860/1865W/191x 252x Series	0
	2010/2150/2160/2240/2245/2250/2510/	
	2525W/2540/2550/2570/2580/2850/2853/	0
	2855/2950 Series	
	3050/3300/331x/3470/3475/3560/371x/	0
	3/5x Series	-
	4050/4055/451x 501x/4550/4555 Series	0
	551x 651x Series	0
	8850 8950/8x00 Series	0
SCX-	3200/3400 Series	0
	4100/4200/4300/4500/4500W/4600/4623/	
	4023FW/4030 4X213/4/0X/4/2X/4/23/ 402x Ex2x/4x16/4x20/4x21/4x24/4x2E/	0
	403X 3X3X/4X10/4X20/4X21/4X24/4X23/ 4x76/4x78 Series	
	5x30/5635/5835 5053/5835 5035X Series	0
	6545/6545X/6x20/6x22/6x45/6x55/	0
	6x55X/681x Series	0
	8030 8040 Series	0
	8123 8128/8230 8240/881x/882x Series	0
SF-	760 Series	0
		0