

# **CITIZEN CUPS Driver Guide**

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# CITIZEN SYSTEMS JAPAN CO., LTD.

6-1-12 Tanashi-cho, Nishi-Tokyo-shi, Tokyo 188-8511 JAPAN Tel 81-424-68-4631 Fax 81-424-68-4740 sales-op@systems.citizen.co.jp http://www.citizen-systems.co.jp/

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# 1. Introduction

### 1.1 Outline

This document describes an installation procedure and the function of the CUPS driver. Before using, please read this document, and use it correctly.

CUPS (Common Unix Printing System) is a standard printing system of Unix-based OS such as Linux and Mac OSX. The target reader of this document is expert of Unix-based OS and printing systems works correctly. If you do not understand what this document tries to explain, please leave the installation/setting to experts.

### 1.2 Supported OS

This driver supports the following operation system.

- Linux (32bit/64bit).
- Mac OSX 10.7.5 or higher.

### 1.3 Operating environment

The explanation of this document is tested in the following environment.

Linux Distrib	CUPS Ver.	
Red Hat	CentOS 6.5 (32bit)	1.4.2
	CentOS 7.0 (64bit)	1.6.3
Debian	Ubuntu 14.04 LTS (32bit)	1.7.2
	Ubuntu 14.04 LTS (64bit)	1.7.2

Mac OSX	CUPS Ver.
OSX 10.9.5	1.7.2

### 1.4 Supported Model

Supported models of this driver are as shown below.

For details of each model, refer to the Printer User's Guide.

CBM1000, CD-S500, CT-P29X, CT-S2000/2000L, CT-S251, CT-S280, CT-S281, CT-S300, CT-S310/310II, CT-S401, CT-S601/601II, CT-S651/651II, CT-S801/801II, CT-S851/851II, CT-S4000, PMU22XX, PMU23XX, PPU700

## 2. Steps of CUPS driver installation

Driver installation takes following 2 steps.

Step1: Printer driver installation (Explanation in section3)

Step2: Adding printer to CUPS (Explanation in section4)

### 3. Printer driver installation

By this installation job, files (PPD=definition file and filter file) in the package are copied.

### 3.1 CUPS driver installation procedure to Linux

These instructions use CentOS6.5 as the example operation system. Depending on the version of the CentOS, there are some differences in the picture. But it is a similar procedure. In Red Hat based Distribution, RPM package is used for installation. The RPM file installation can be done either on GUI or command line (terminal).

"DEB" package file is also available.

As the installation steps for the Debian based distribution like Ubuntu are close to the explanation of RPM file. Please refer to this document for the installation with DEB package file as well. (Exception: Explanation for command line is added for DEB file.)

If supplied RPM or DEB files are not suitable for your environment, source code of the driver is available at <a href="http://www.citizen-systems.co.jp/english/support/download/printer/driver/cups/source/">http://www.citizen-systems.co.jp/english/support/download/printer/driver/cups/source/</a> It is necessary to compile and install the driver at user side. Simple instruction is available at the site.

# 3.1.1 RPM file installation on GUI

	em 🕹 😋 🗹 Mon Jan 26, 12	:59 LiveCD default user	Double-click RPM file.
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Computer			the ROM file on the
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Trash			
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i386.rpm			
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Do Do	you want to install this file?		"Install" button.
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### 3.1.2 RPM file installation on command line

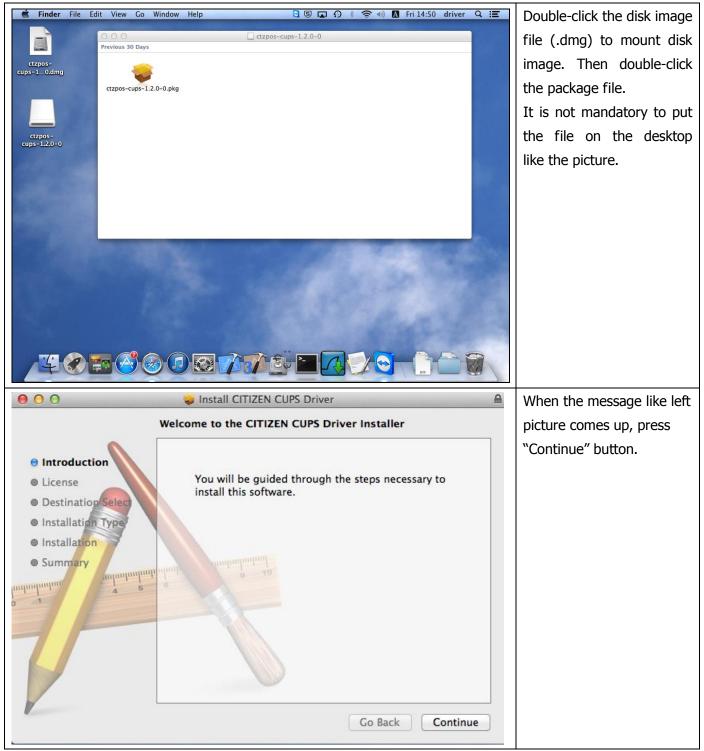
Enable the root privileges by "su" command. Move to the directory where the RPM file is located. Run "rpm" command with "-i" option and file name. Example: rpm -i ctzpos-cups-1.2.0-0.i386.rpm

(For the DEB package file of Debian based distribution, use the dpkg command with "-i" option and file name.)

### 3.2 CUPS driver installation procedure to Mac OSX

These instructions use Mac OSX 10.9.5 as the example operation system. Depending on the version of the Mac OSX, there are some differences in the picture. But it is a similar procedure.

### 3.2.1 Steps of the installation



00	💝 Install CITIZEN CUPS Driver	When the message like left
	Software License Agreement	picture comes up, press
<ul> <li>Introduction</li> <li>License</li> <li>Destination Select</li> <li>Installation Type</li> <li>Installation</li> <li>Summary</li> </ul>	English       *         IMPORTANT       This User License Agreement ("ULA") is a legal agreement between you and CITIZEN SYSTEMS JAPAN CO., LTD. ("CSJ") and governs your use of the SOFTWARE (CUPS driver). You ruse of the SOFTWARE is deemed to be your acceptance of the Terms and Conditions of this ULA set out below.         You only may use the SOFTWARE is deemed to be your acceptance of the Terms and Conditions. If you decline to agree, you are not authorized to use the SOFTWARE.         Terms and Conditions         1. Ownership.         All rights, titles and interest in and to the SOFTWARE, its copy and the documents associated therewith are owned by CSJ or such party which is authorized by CSJ the ownership of the sofTWARE are licensed to you as prescribed in the Article 2. In no event should it be construed as an expression to assign or sell any copyrights of or any other intellectual property ghts to the SOFTWARE from CSJ to you.         2. Grant of License.         2.1 CSJ grants you a license to make only one (1) back-up copy of the SOFTWARE at al times.         2.3 Except for expressly stipulated in Sections 2.1 and 2.2 above, no license relating to the SOFTWARE is granted. You may not, (i) make any copies of the SOFTWARE except as expressly permitted in accordance with Section 2.2 of this ULA, (ii) modify the         Print       Save       Co Back       Continue	"Continue" button.
C		
of the software I	alling the software you must agree to the terms icense agreement. Intinue or click Disagree to cancel the installation ller. Disagree Agree	If you agree with the software license agreement, press "Agree" button.
000	😺 Install CITIZEN CUPS Driver	When the message like left
<ul> <li>Introduction</li> <li>License</li> <li>Destination Select</li> <li>Installation Type</li> <li>Installation</li> <li>Summary</li> </ul>	Standard Install on "Macintosh HD" This will take 386 KB of space on your computer. Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.	picture comes up, press "Install" button. Printer driver files are installed to boot volume.

Installer is trying to install new software. Type your password to allow this. Name: user Password: Cancel Install Software	Please enter the password. If you log-in as the user without administrator privileges, enter the name and password for administrator.
<ul> <li>Install CITIZEN CUPS Driver</li> <li>Introduction</li> <li>License</li> <li>Destination Select</li> <li>Installation</li> <li>Summary</li> <li>The installation was successful.</li> <li>The software was installed.</li> </ul>	When installation is finished successfully, you can see the screen like this. Press "Close" button to finish installation.

# 4. Adding printer to CUPS

This procedure is the same in Linux and Mac OSX.

### 4.1 Automatic installation

After the printer driver installation is done, if the plug & Play function is effective for USB/parallel interface, printer driver is automatically added to CUPS by connecting USB/Parallel interface printer.

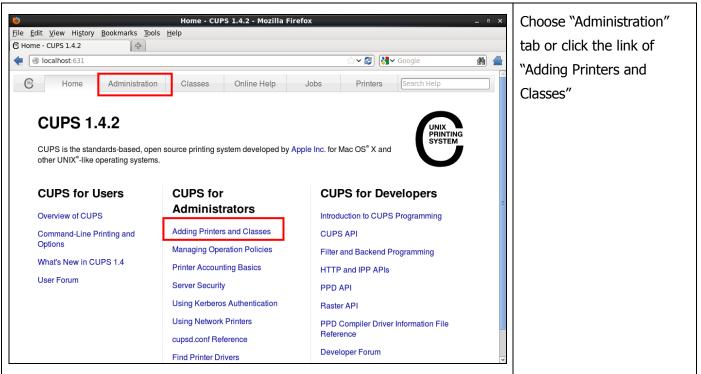
On the browser, navigate to <u>http://localhost:631</u>. This is the home page of CUPS.

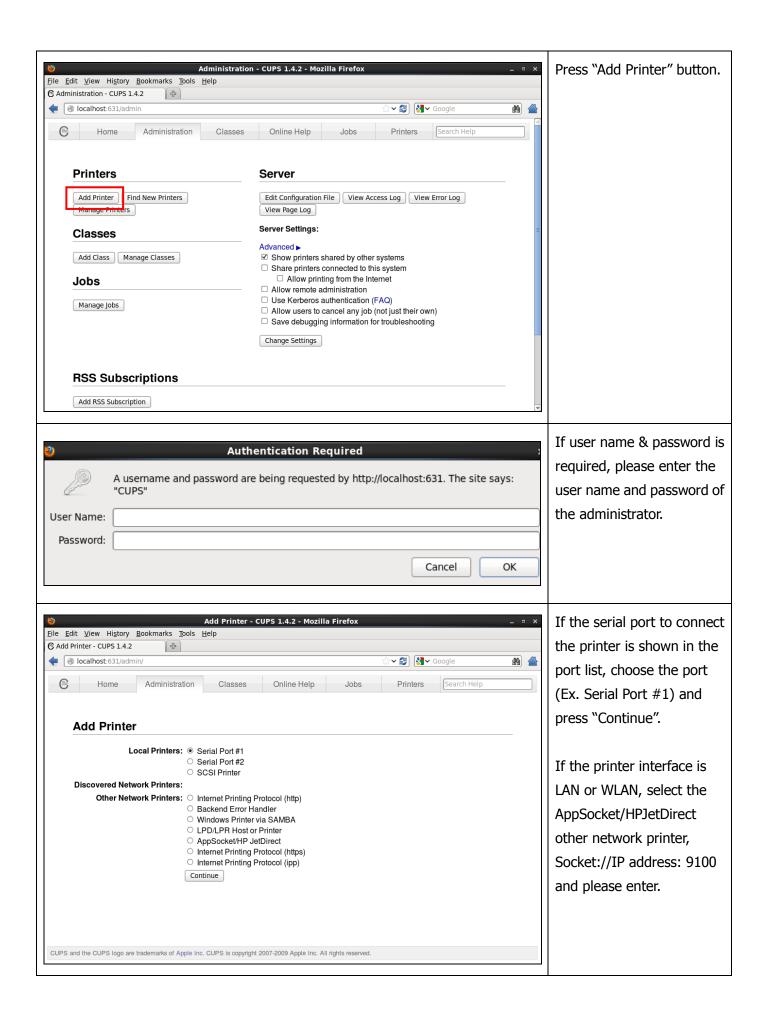
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CUPS and the CUPS logo are	trademarks of Apple Inc. CUPS is or	pyright 2007-2009 Apple Inc. All rights	reserved.			

### 4.2 Manual installation

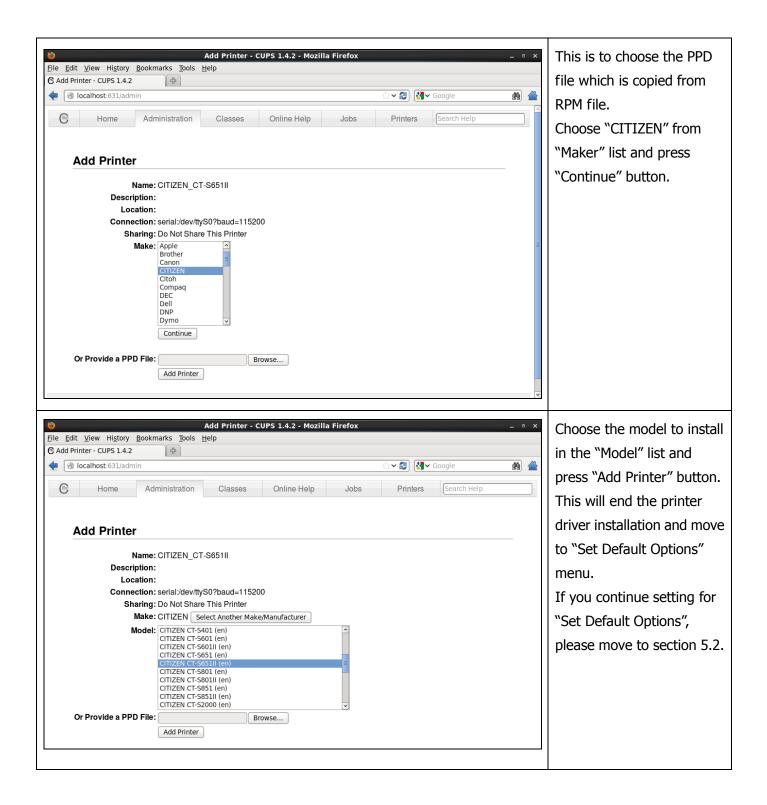
This example shows the steps to install driver of CT-S651II connected via serial port.

On the browser, navigate to <u>http://localhost:631</u>.





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# 5. Driver function and settings

This procedure is the same in Linux and Mac OSX.

# 5.1 Steps up to the "Set Default Options" menu

Choose "Printers" tab.

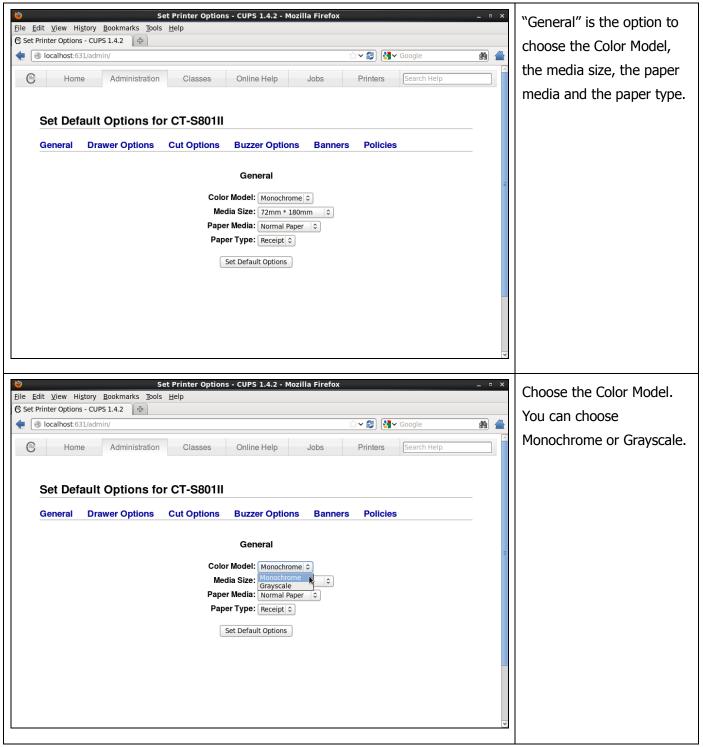
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CUPS and the CUPS logo are trade	marks of Apple Inc. CUPS is copyright 2	2007-2009 Apple Inc. All rights resr	rved.		
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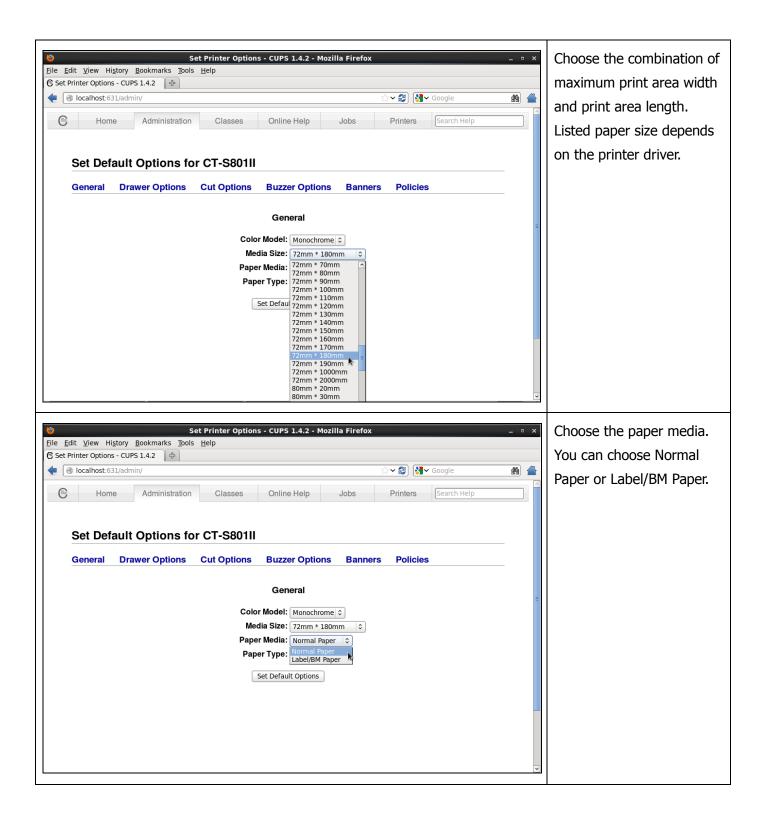
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CT-S801II (Idle, Accepting Jobs, Shared, Server Default)         Maintenance       Administration         Description:       CIT Administration         Modify Printer       Decation:         Driver:       CIT St Default Options         Driver:       CIT St Default Server Default         Driver:       Default Server Default         Defaults:       jobs         Show Completed Jobs       Show All Jobs         No jobs.       No jobs.	

### 5.2 "Set Default Options" menu

In this menu, "General", "Drawer Options", "Cut Options" and "Buzzer Options" are available unique options our CUPS driver. (Depending on the model, those options are not available or not effective.) Because "Banners", "Policies" are common function of CUPS, explanation is omitted.

### 5.2.1 General

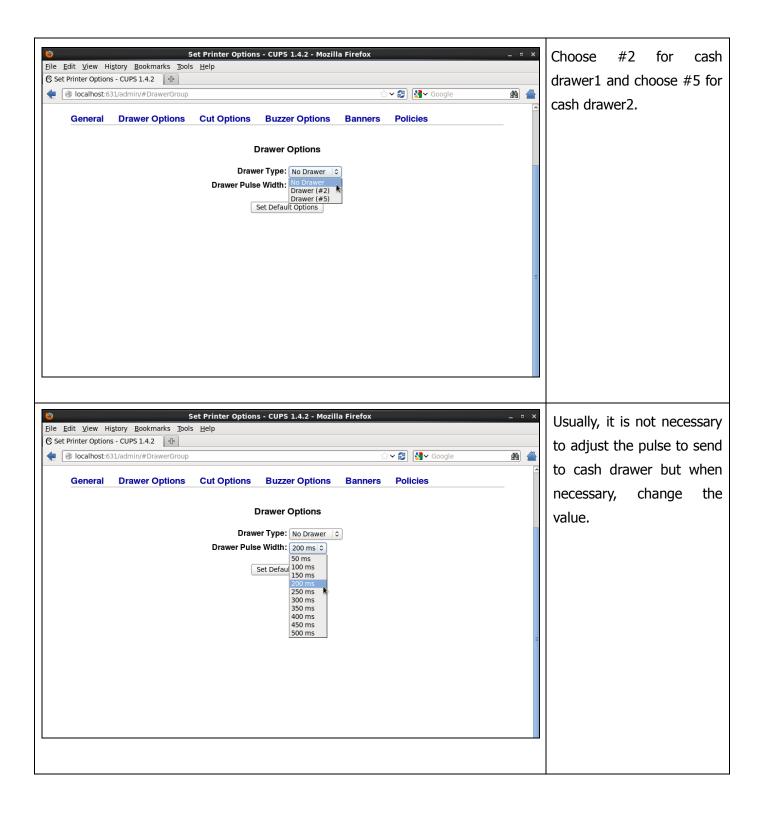




Set Pr	rinter Options Iocalhost:63 Home	tory <u>B</u> ookmarks <u>T</u> ools - CUPS 1.4.2 ① 문 1/admin/	Help Classes	s - CUPS 1.4.2 - M	Jobs	ि 🏹 🕄 🚷	✓ Google Search Help	You can choose Receipt or Ticket as paper types. Receipt allows flexible paper length according to the data length to avoid
	General	Drawer Options	Mee Pape Pap	General r Model: Monochro dia Size: 72mm * 1 r Media: Normal Pa er Type: Receipt 0 Set Defaul Ticket	me ≎ 80mm  ≎]	ers Policie	<u>s</u>	waste of paper. Ticket print in fixed length even the print data is short.

# 5.2.2 Drawer Options

Set Printer Options - CUPS 1.4.2 - Mozilla Firefox         _ • ×           File Edit View History Bookmarks Tools Help         _ • ×	"Drawer Options" is to set
🕲 Set Printer Options - CUPS 1.4.2	cash drawer type and pulse
🗑 localhost:631/admin/#DrawerGroup	
General Drawer Options Cut Options Buzzer Options Banners Policies	length to send to the cash
	drawer.
Drawer Options	
Drawer Type: No Drawer	
Drawer Pulse Width: 200 ms 0	
Set Default Options	
=	



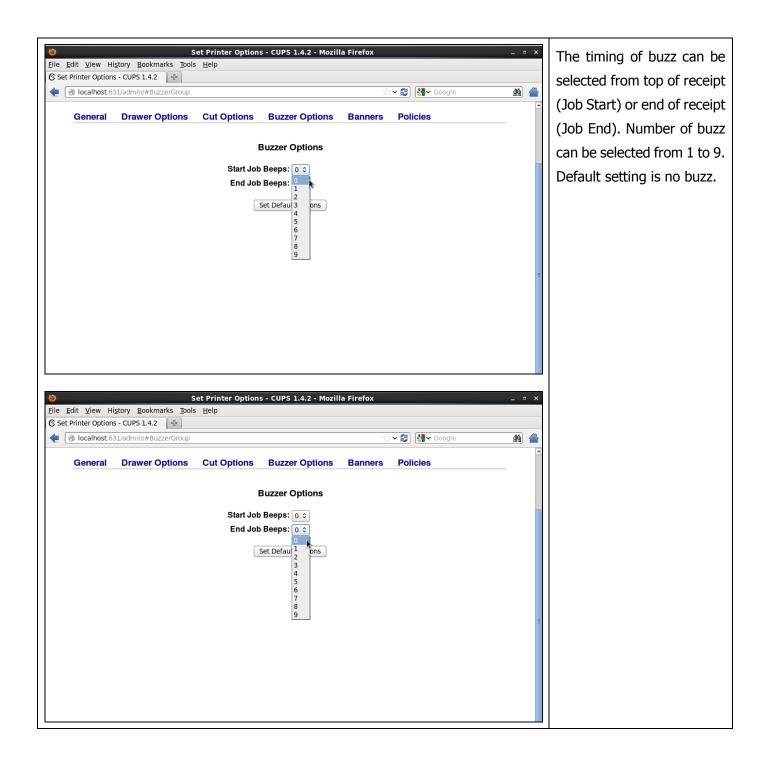
# 5.2.3 Cut Options

Set Printer Options - CUPS 1.4.2 - Mozilla Firefox       _ 0 ×         File Edit View Higtory Bookmarks Tools Help       C Set Printer Options - CUPS 1.4.2         Image: Set Printer Options - CUPS 1.4.2       Image: Set Printer Options - CUPS 1.4.2         Image: Set Printer Options - CUPS 1.4.2       Image: Set Printer Options - CUPS 1.4.2         Image: Set Printer Options - CUPS 1.4.2       Image: Set Printer Options - CUPS 1.4.2         Image: Set Printer Options - CUPS 1.4.2       Image: Set Printer Options - CUPS 1.4.2         Image: Set Default Options       Set Options - CUPS - Cup - Set Default Options         Image: Set Default Options       Image: Set Default Options - Set Default Options	Cutting method for middle page end (Page) and cutting method for receipt end (Job) can be chosen.
Set Printer Options - CUPS 1.4.2 - Mozilla Firefox       _ ○ ×         File Edit View History Bookmarks Tools Help       _ ○ V ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	For the normal paper, there can be maximum 6 different cutting method combinations by partial cut, full cut and no cut.

Set Printer Options - CUPS 1.4.2 - Mozilla Firefox         _ □ ×           File         Edit         View         Higtory         Bookmarks         Tools         Help	For the label/black mark
Set Printer Options - CUPS 1.4.2	
	paper, cut or no cut can be
🛊 🕑 localhost:631/admin/#CutGroup	chasan
	chosen.
General Drawer Options Cut Options Buzzer Options Banners Policies	
Cut Options	
Normal Paper (Page/Job): Partial Cut / Partial Cut 🗘	
Label/BM Paper (Page/Job): No Cut / No Cut © No Cut / No Cut / No Cut / No Cut / Cut Set Defaul No Cut / Cut	

### 5.2.4 Buzzer Options

ジ	_ • X		function	-	
<ul> <li></li></ul>	🗸 Google 🏥 🖀	can be	utilized	from	the
ホーム 管理 クラス ヘルプ ジョブ ブリン	ンター Search Help	driver.			
CT-S801II のデフォルトオプション変更 General Drawer Options Cut Options Buzzer Options パナー ポリシー Buzzer Options Start Job Beeps: 00 End Job Beeps: 00 デフォルトオプションの設定					
	v				



### 6. CUPS driver uninstallation

### 6.1 CUPS driver uninstallation procedure of Linux

### 6.1.1 Deleting driver from CUPS

From Administration menu explained in section 5.1, choose "Delete Printer".

### 6.1.2 RPM file uninstallation on GUI

If the software to manage the package is available, uninstall the RPM file.

### 6.1.3 RPM file uninstallation on command line

Enable the root privileges by "su" command. Run the "rpm" command with "-e" option and file name (no file extension). Example: rpm -e ctzpos-cups-1.2.0-0.i386

(For the DEB package file of Debian based distribution, use the dpkg command with "-r" option and file name.)

### 6.2 CUPS driver uninstallation procedure of Mac OSX

### 6.2.1 Deleting driver from CUPS

From Administration menu explained in section 5.1, choose "Delete Printer".

### 6.2.2 Delete the filter file and the PPD file

Installer installs the filter file and PPD file.

If you want to delete the files, run "Terminal" and delete filter files and PPD files by "rm" command. Deleting file requires administration privileges. So use "sudo" command like "sudo rm *[file]*".

[Installed file list]

Filter file	-				
Library	Printers	CITIZEN	Filter		rastertocbm1k
					rastertocds500
					rastertocts2kl
					rastertocts801ii
PPD file					
Library	Printers	PPDs	Contents	Resources	CBM1000.ppd.gz
					CDS500.ppd.gz
					CTP29X.ppd.gz
					CTS2Klabel.ppd.gz
					CTS251.ppd.gz
					CTS280.ppd.gz
					CTS281.ppd.gz
					CTS300.ppd.gz
					CTS310.ppd.gz
				CTS310II.ppd.gz	
			CTS401.ppd.gz		
					CTS601.ppd.gz
					CTS601II.ppd.gz
					CTS651.ppd.gz
					CTS651II.ppd.gz
					CTS801.ppd.gz
				CTS801II.ppd.gz	
				CTS851.ppd.gz	
				CTS851II.ppd.gz	
					CTS2000.ppd.gz
					CTS4000.ppd.gz
					PMU22XX.ppd.gz
					PMU23XX.ppd.gz
				PPU700.ppd.gz	

### 6.2.3 Delete the package information

Package information added by the installation can be deleted as follows.

Command to delete package information

sudo pkgutil --forget jp.co.citizen-systems.cupsdriver.pkg