ZPL emulation barcode printers

CITIZEN Mac OSX CUPS Driver Guide

Ver1.0.0 issued on June 28, 2012

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Introduction

CUPS (Common Unix Printing System) is a standard printing systems of Mac OSX.
The installation/setting can be done in the same way as other printers.

The target of this document is the environment that OS is installed correctly and printing systems works correctly.

The explanation of this document are tested in the environment of

Mac OSX 10.7.0 (CUPS 1.5.1)

Printer CL-S400DT

If there is environmental difference from above, it is necessary to read this document taking the difference into the consideration.

Supported OS by the driver are

Mac OSX 10.4.11 [PPC/Intel]

Mac OSX 10.5.8 [PPC/Intel]

Mac OSX 10.6.8 [Intel]

Mac OSX 10.7.0 [Intel]

Caution

*** As the driver is designed for Zebra emulation (ZPL), printer must support Zebra emulation.**

*** Driver is not designed for specific model but for generic specifications of our barcode printers. Therefore, it is necessary to change the settings after the driver installation according to the specification of each model and configuration.**

1. Steps of CUPS driver installation

Driver installation takes following 2 steps.

Step1: Installation of driver files by the installer (Explanation in section2)

Step2: Adding printer to CUPS (Explanation in section3)

2. Printer driver file installation

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

2.1 Steps of the installation

	Double-click the disk image file (.dmg) to mount disk image. Then double-click the package file. It is not mandatory to put the file on the desktop like the picture.
	When the message like left picture comes up, press “Continue” button.

	When the message like left picture comes up, press “Continue” button.
	If you agree with the software license agreement, press “Agree” button.
	When the message like left picture comes up, press “Install” button. Printer driver files are installed to boot volume.

	Please enter the password. If you log-in as the user without administrator privileges, enter the name and password for administrator.
	When installation is finished successfully, you can see the screen like this. Press “Close” button to finish installation.

3. Adding printer to CUPS

3.1 Basic installation

After the PKG file installation is done, connect the printer. The installation steps are slightly different by the printer interface.

This example shows the steps to install driver of CL-S400DT connected via USB port.

	Go to [System Preferences] -> [Print & Scan] to see “Print & Scan” screen. Press “+” button at left.
	You can see the name of connected printer on the list. Choose “Select Printer Software...” in “Print Using” menu like the left picture.

	Choose “CITIZEN Barcode Printer” in the “Print Software” list and press “OK” button.
	The “Name” and “Description” are already filled. If necessary, you can change them and press “Add” button.

On “Print & Scan” screen, you can see that the printer is added.

4. Driver function and settings

4.1 Paper size setting

This is the example of “TextEdit” which is standard application of the OS.

	From application men, go to File] -> [Page Setup...]. Then Page Setup dialog shows up. Choose the printer to print on “Format For” menu.
	Choose the combination of maximum print area width and print area length.

4.2 Setting the printer function

This section explains about “Drawer Options” and ”Cut Options” which is the unique function of our printer. (Depending on the model, those options are not available or not effective.)

This explanation is based on the standard application “TextEdit”.

4.2.1 Display “Printer Features”

From the application menu, choose [File] -> [Print...] to open print dialog.

	On “Printer” menu, choose the printer to print. The screen is different depending on the application.
	Choose “Printer Features” in the menu like the left picture.

4.2.2 General

In “Printer Features” menu, choose ”General”.

Resolution:

- 203 dpi or 300 dpi

Media Sensor:

- Continuous
- See Through
- Reflect

Print Method:

- Printer Default
- Thermal Transfer
- Direct Thermal

You can choose following setting in “Printer Settings”.

Print Darkness:

- 1 - 30

Print Speed:

- 1inch/sec.-10inches/sec.

Vertical Position:

- 0 dot - 120 dots

Function Select:

- Tear-Off
- Peel-Off
- Rewinder
- Cutter

Paper Position:

- -120 dots - 120 dots

5. CUPS driver uninstallation

5.1 Deleting printer from CUPS

Refer to “Print & Scan” screen in section 3.1. Choose the printer to delete and press “ - ” button in the left.

5.2 Uninstallation of driver files by command line.

Installer installs the files in the addendum 1 in the next page.

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]*”

Also package information added by the installation can be deleted as follows.

Command to delete package information

[After OSX10.6]

```
sudo pkgutil --forget jp.co.citizen-systems.ctzcls-cups.pkg
```

[OSX10.4, 10.5]

```
sudo rm –r /Library/Receipts/ctzcls-cups-1.0.0-0.pkg
```

Addendum1. Installed file list

PPD files

After OSX10.5						
Library	Printers	PPDs	Contents	Resources		ctzcls.ppd.gz
OSX10.4						
Library	Printers	PPDs	Contents	Resources	en.lproj	ctzcls.ppd.gz