



# User Manual

**SATO CUPS Driver for Mac OS X**

Read this User Manual before using this product.  
Keep this document available for future reference.



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### Version 1.0.0

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## Overview

The SATO Driver for Mac OS X system was developed to allow the users to print into the SATO printer.

This driver is based on CUPS printing system for Mac OS X. All the device communications are handled by CUPS (backend). The raster filter converts the CUPS raster graphic into SBPL which the printer can understand. For an instance, if the user prints a label, the raster filter converts the graphic into SBPL command which will be send to the printer together with the printer options.

### 1.1 Supported Models of SATO Printer

Currently only the following models of printers are supported by the current version of the driver:

Series Name	Models
CG2 Series	CG208 DT/TT CG212 DT/TT
CG4 Series	CG408 DT/TT CG412 DT/TT
GZ4e Series	GZ408e GZ412e
M84 Pro Series	M84 Pro 2 M84 Pro 3 M84 Pro 6
CL6e Series	CL608e CL612e

### 1.2 Printer Properties/Options

The driver supports printer's the following settings below. Please take note that the setting varies depending on the printer model. For more information, refer to the printer specifications.

Property	Description
Media Size	Sets the media size. Units in inches.
Sensor Type	Specifies the selection of the transparent sensor or the reflection sensor
Print Method	Sets the Print method/type such as Thermal Type and Direct Thermal Type
Resolution	Sets the print density
Print Speed	Sets the print speed
Darkness Range	Sets the print darkness. The print density parameter can be specified in six options from "A" to "F".
Darkness Level	Sets the print darkness level. The print density level parameter can be specified in five options from "1" to "5"
Print Mode	Sets the operation mode such as Continuous, Tear Off, Cutter and Dispenser Operation
Cutter	Sets the cutter options. This is only applicable for printer units with cutter. Cutter Operation Mode should also be selected to make it



	work
Vertical Offset	Sets the start position coordinate. Specifies the vertical start position correction signal. Units in inches
Horizontal Offset	Sets the start position coordinate. Specifies the horizontal start position correction signal. Units in inches

# System Requirements

# 2

The minimum system requirements for the SATO CUPS Driver for Mac OS X are:

- ◆ Mac with Mac OS X with CUPS 1.5 or higher
- ◆ At least one supported model of SATO printer that can connect to the Mac

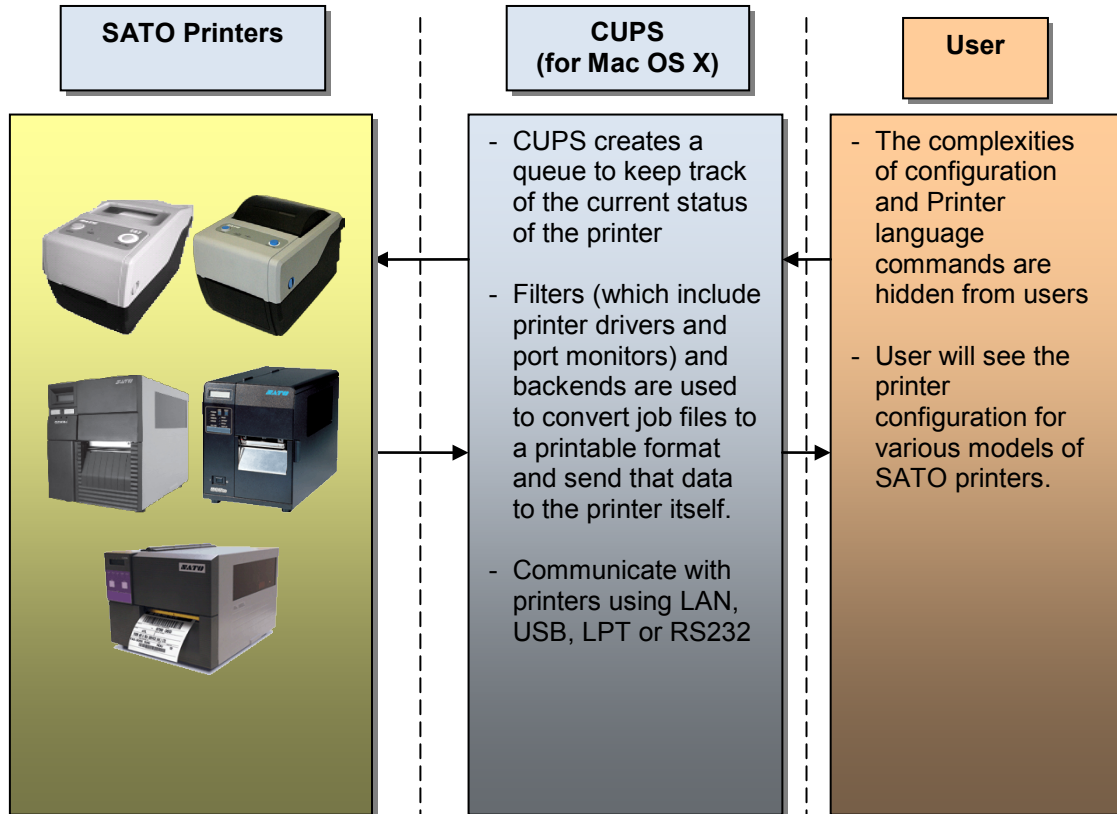


Figure 1 Overview

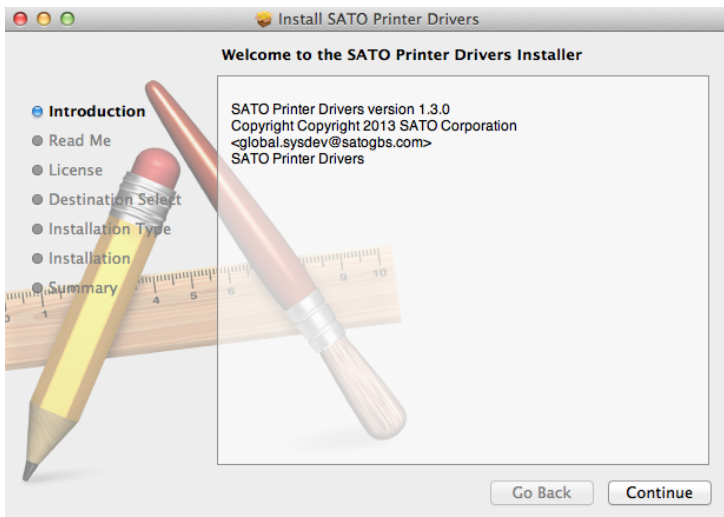
## Setup

### 3.1 Installing the Driver

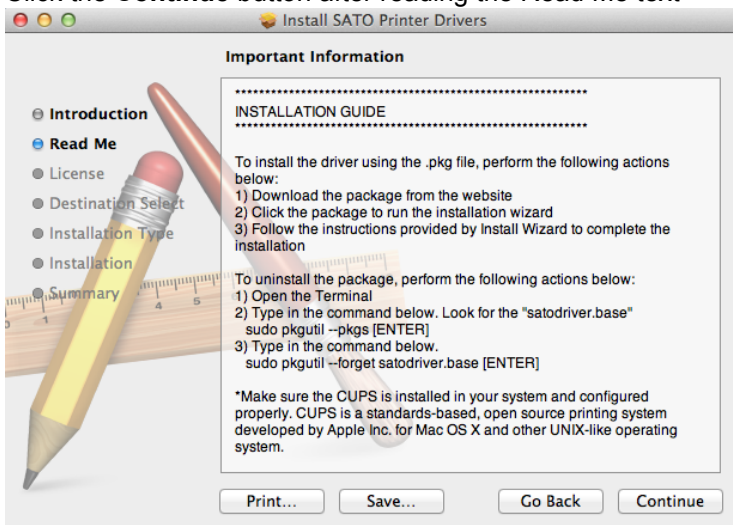
After obtaining the packages perform the following actions below.

**Note:** The screenshots may look different depending on the Mac OS X Distribution you are using.

- 1) Locate the package file (.pkg) and run it.
- 2) The Installation wizard will appear on the screen. Click the **Continue** button to proceed to the next step.

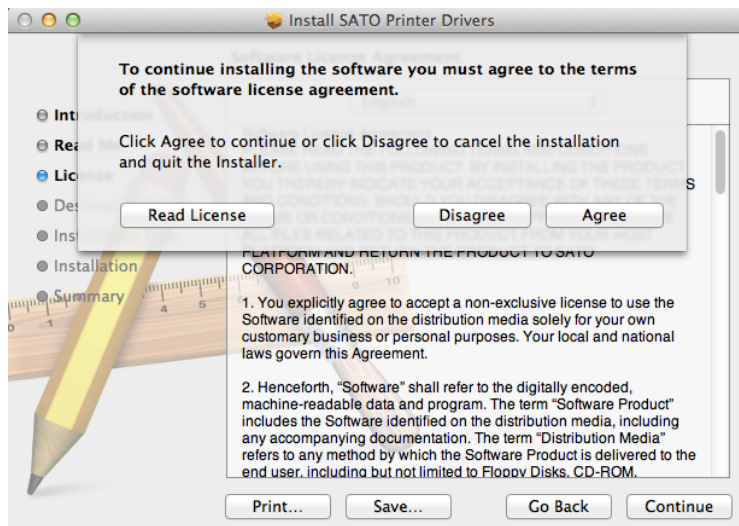
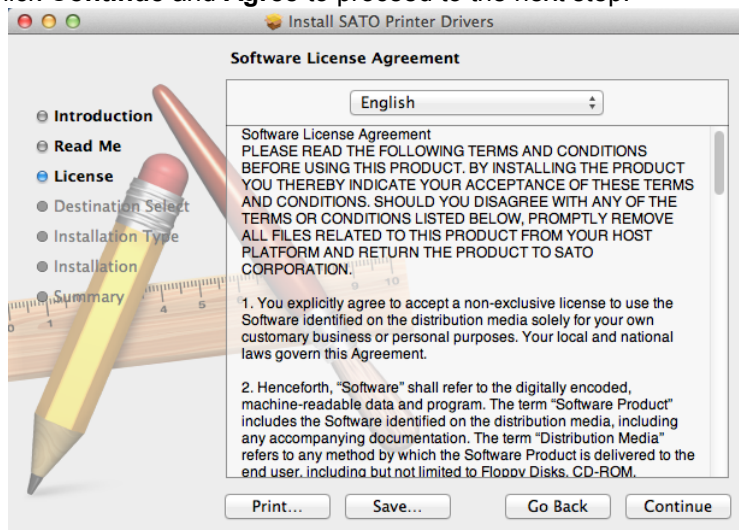


- 3) Click the **Continue** button after reading the Read Me text

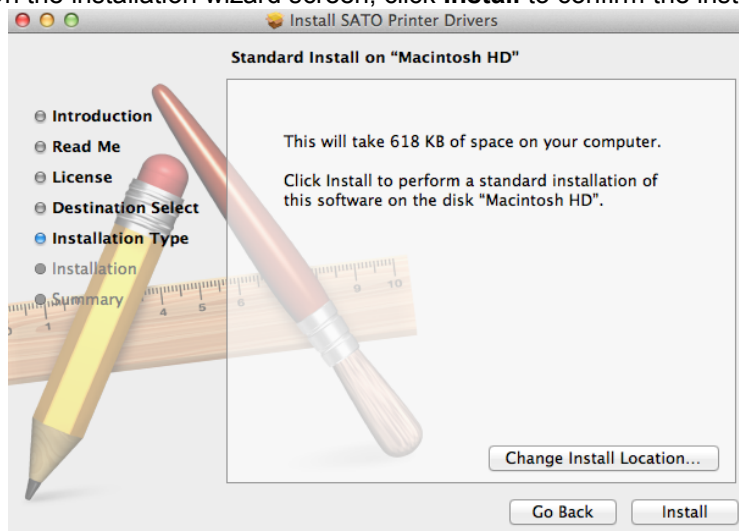


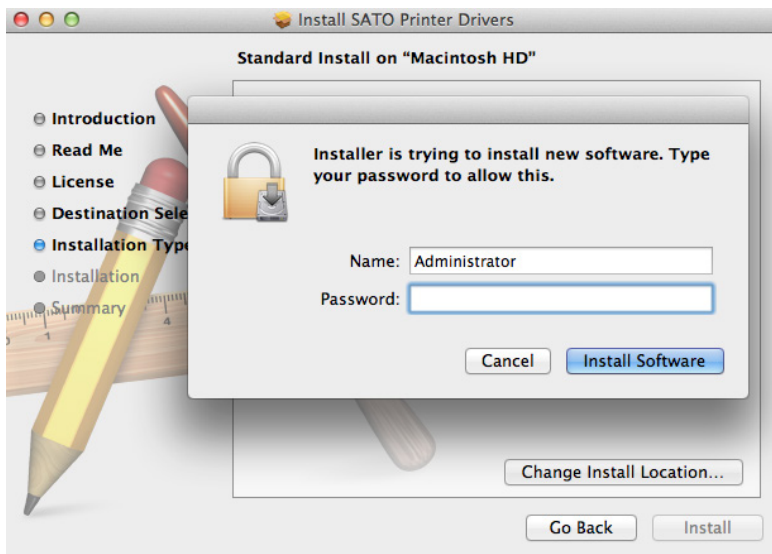


- 4) Click **Continue** and **Agree** to proceed to the next step.



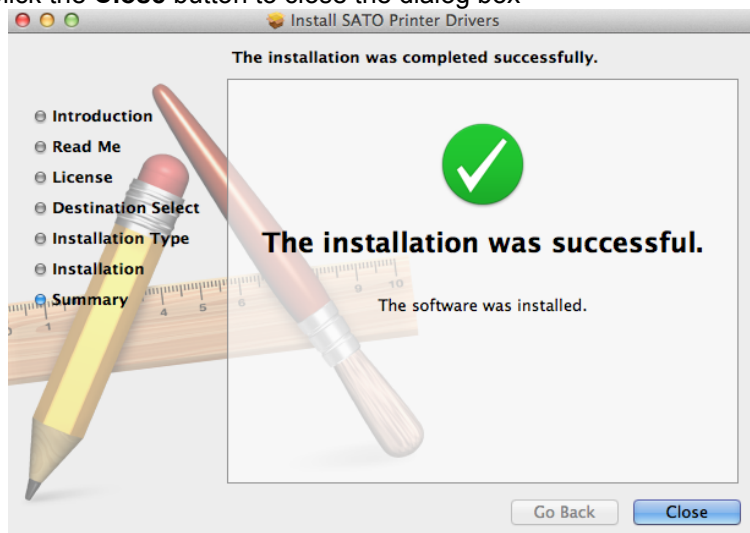
- 5) On the installation wizard screen, click **Install** to confirm the installation.





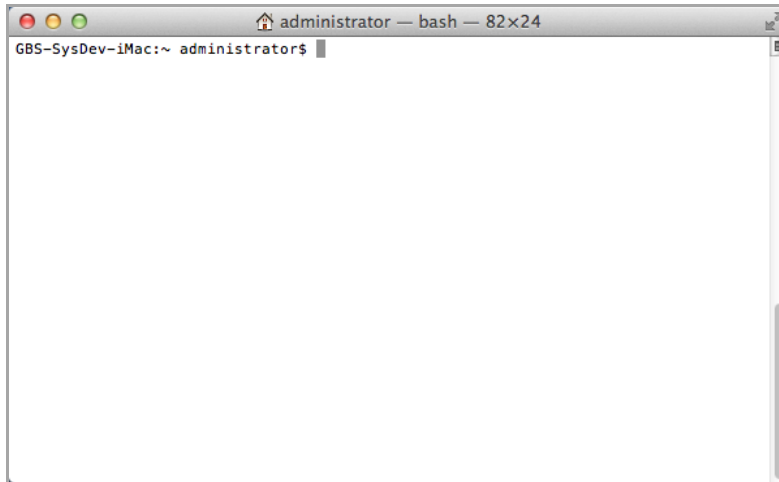
**Note:** In case you are required to enter username and password, please enter and click **Install Software**.

- 6) Click the **Close** button to close the dialog box



## 3.2 Uninstalling the Driver

- 1) Launch the Terminal.



- 2) To delete the package you can type in:

```
sudo pkgutil --forget satodriver.base
```

- 3) To confirm if the package has been deleted you can type in the commands below. The **satodriver.base** won't appear on the list anymore.

```
sudo pkgutil --pkgs
```

# Managing the SATO Printer

# 4

## 4.1 Overview

Printers can be managed using the **CUPS Web Interface**, **Print and Scan (System Preferences)** and by the use the **command-line program**. The easiest way to manage the printer is through Print and Scan and the CUPS web administration because it provides a step by step wizard screen for you to follow.

CUPS support devices such as Serial, USB, LAN and LPT.

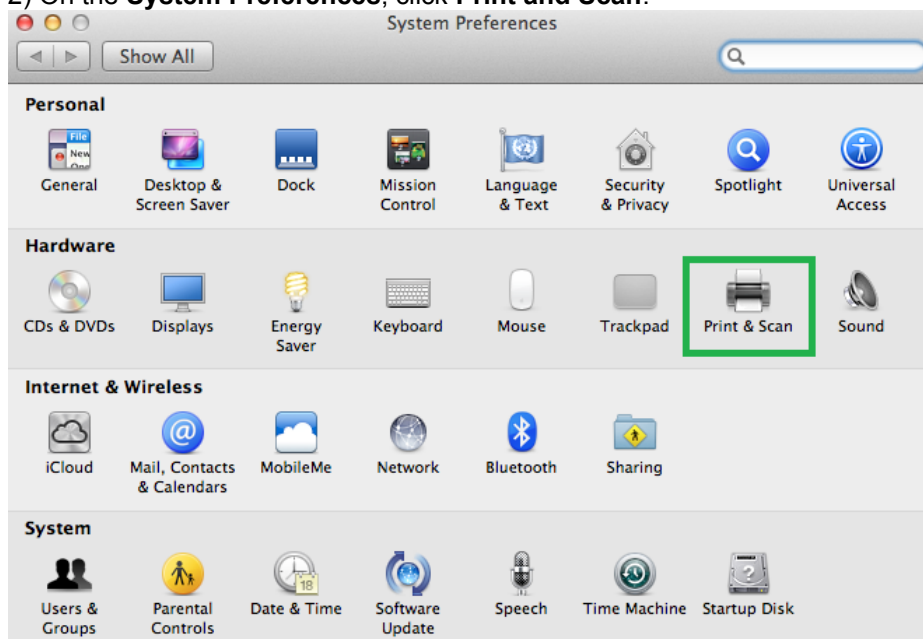
**Note:** The screenshots may look different depending on the Mac OS X Distribution you are using.

## 4.2 Managing Printers from the Print & Scan (System Preferences)

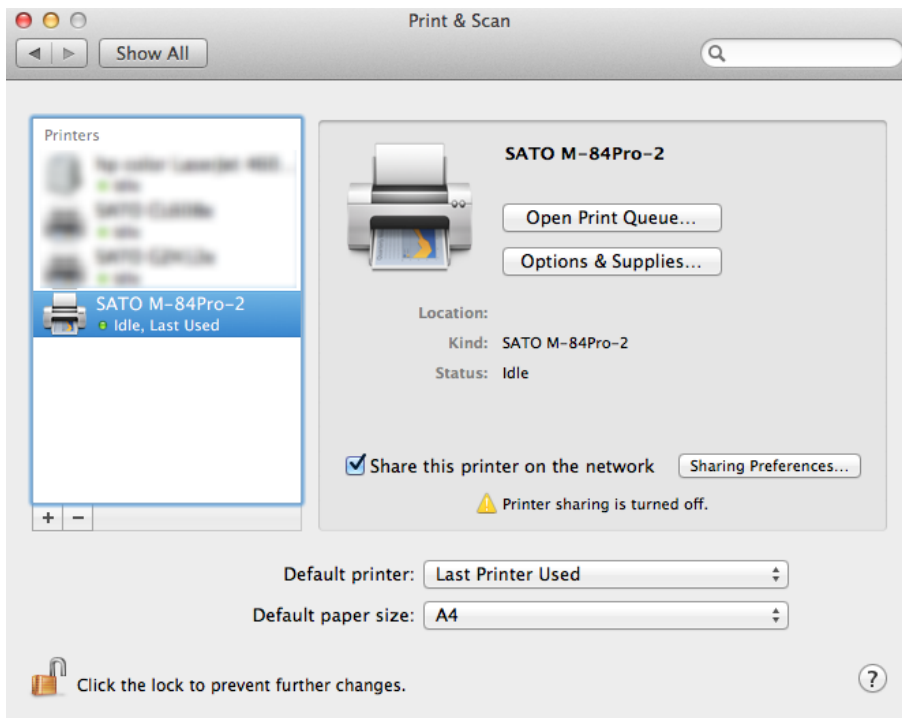
### 4.2.1 Adding a New Printer

To add a new printer from the **Print and Scan**, perform the following actions below:

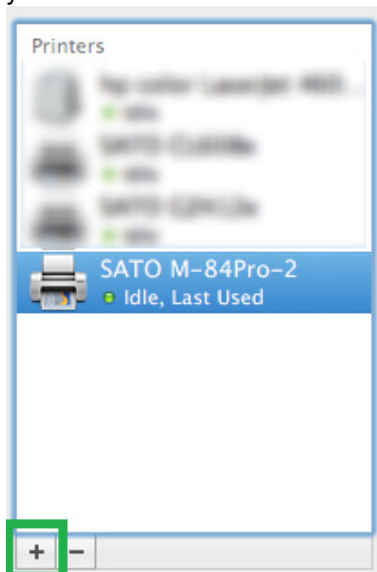
- 1) Go to the **System Preferences**
- 2) On the **System Preferences**, click **Print and Scan**.



- 3) The system will auto detect the printer if your printer is connected through **USB**.

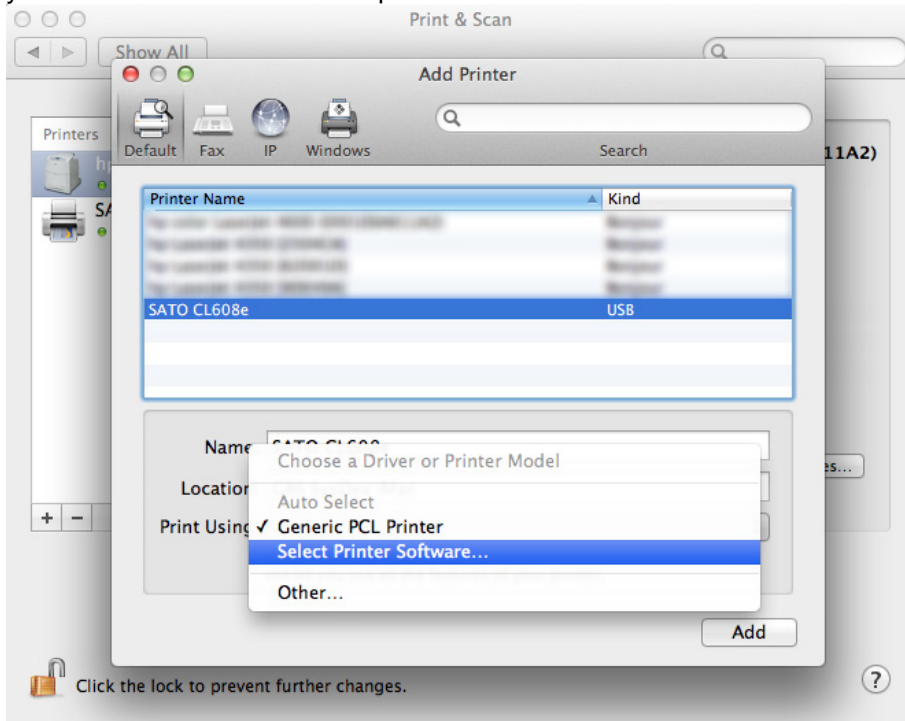


- 4) In case the printer has not been automatically detected or added in the list by the system, you can click the **+** button below the printer icons

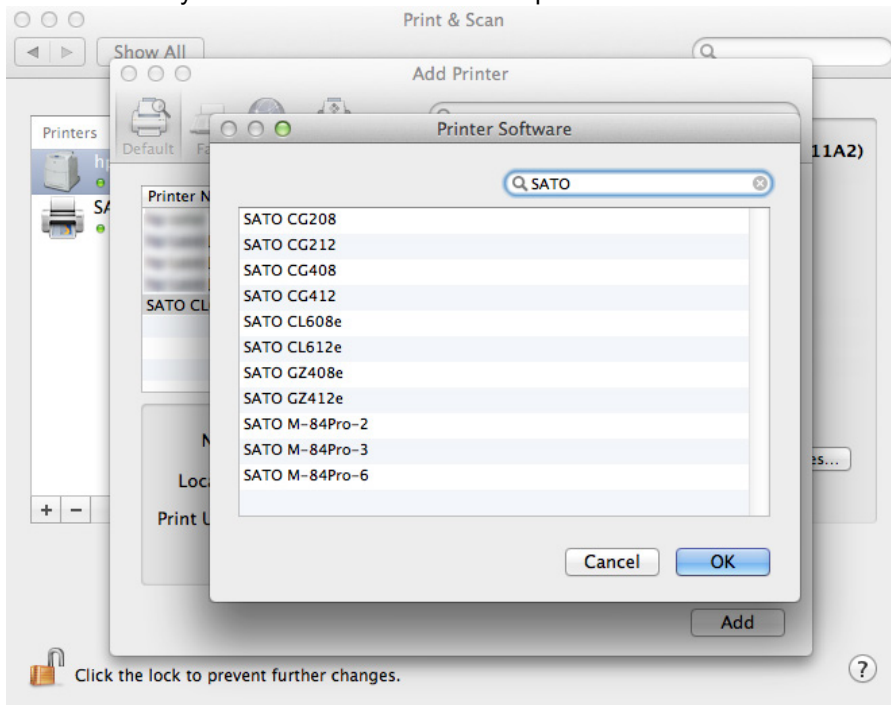


- 5) Select **Default** in the **Print & Scan** dialog box and select the printer in the list.

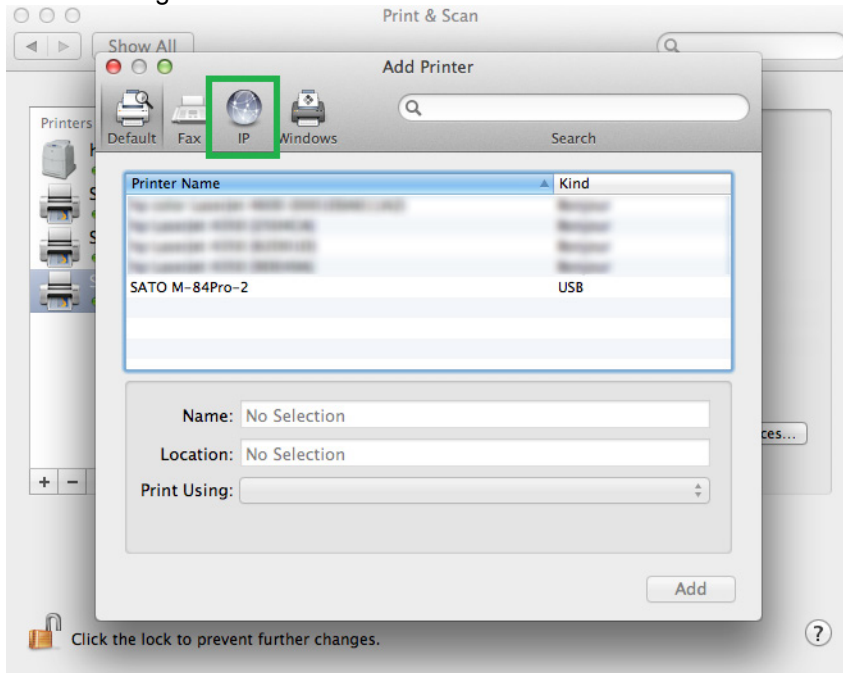
- 6) Please select the **Select Printer Software** in the **Print Using** dropdown. This will allow you to select the drivers for the printer.



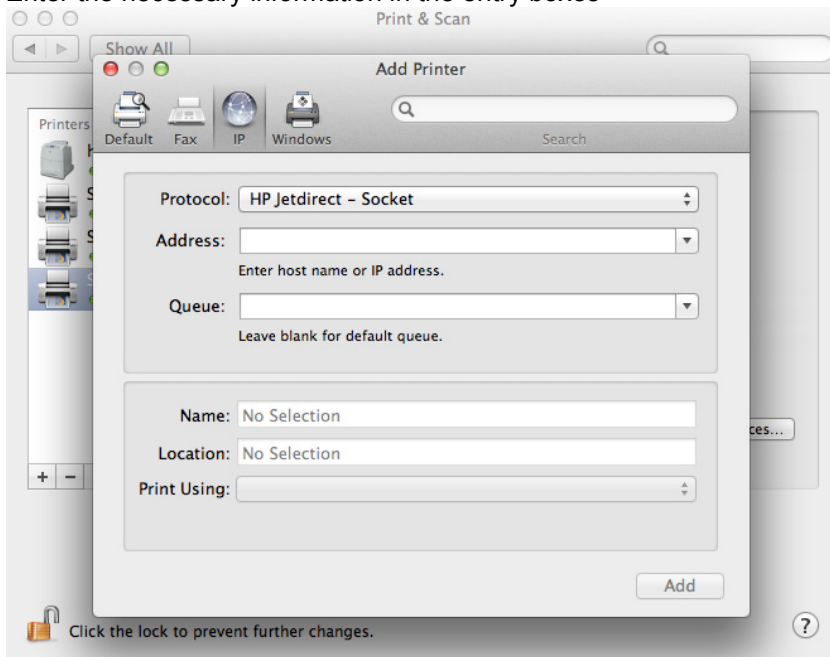
- 7) Click **OK** after you have selected the correct printer model on the list.



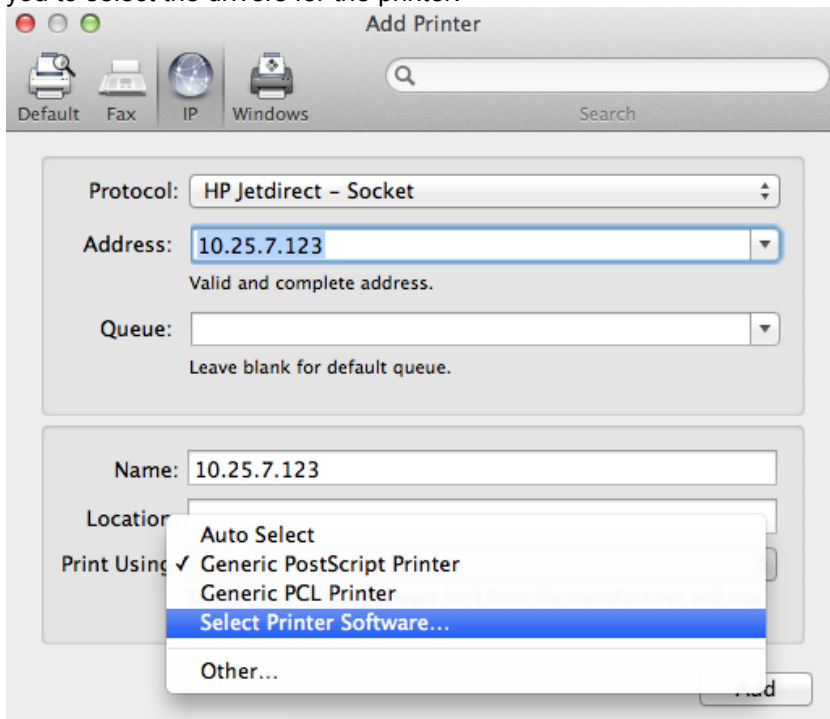
- 8) If you are adding a printer using the **LAN** interface, click **IP** instead of **Default** on the **Add Printer** dialog.



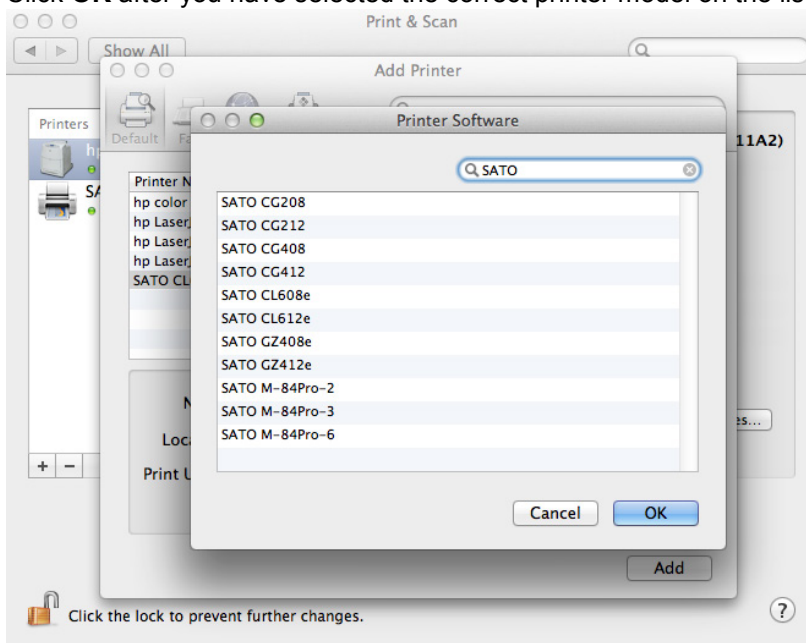
- 9) Enter the necessary information in the entry boxes



- 10) Please select the **Select Printer Software** in the **Printer Using** dropdown. This will allow you to select the drivers for the printer.



- 11) Click **OK** after you have selected the correct printer model on the list.



- 12) Finally, click the **Add** button



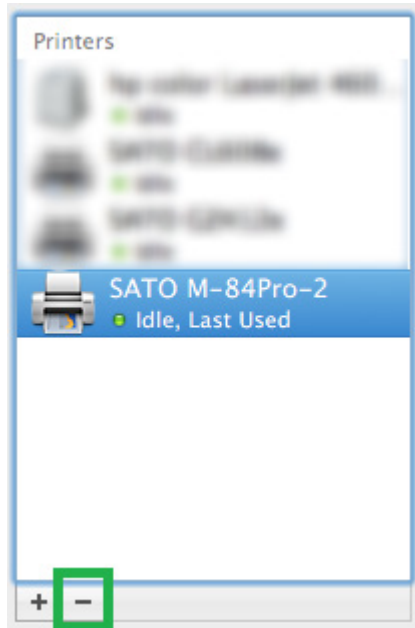
## 4.2.2 Removing the Printer

To remove an existing printer properties perform the following actions below:

- 1) Go to **System Preferences**
- 2) On the **System Preferences**, click **Print and Scan**.



- 3) Select the printer on the list and click the - button below the printers.



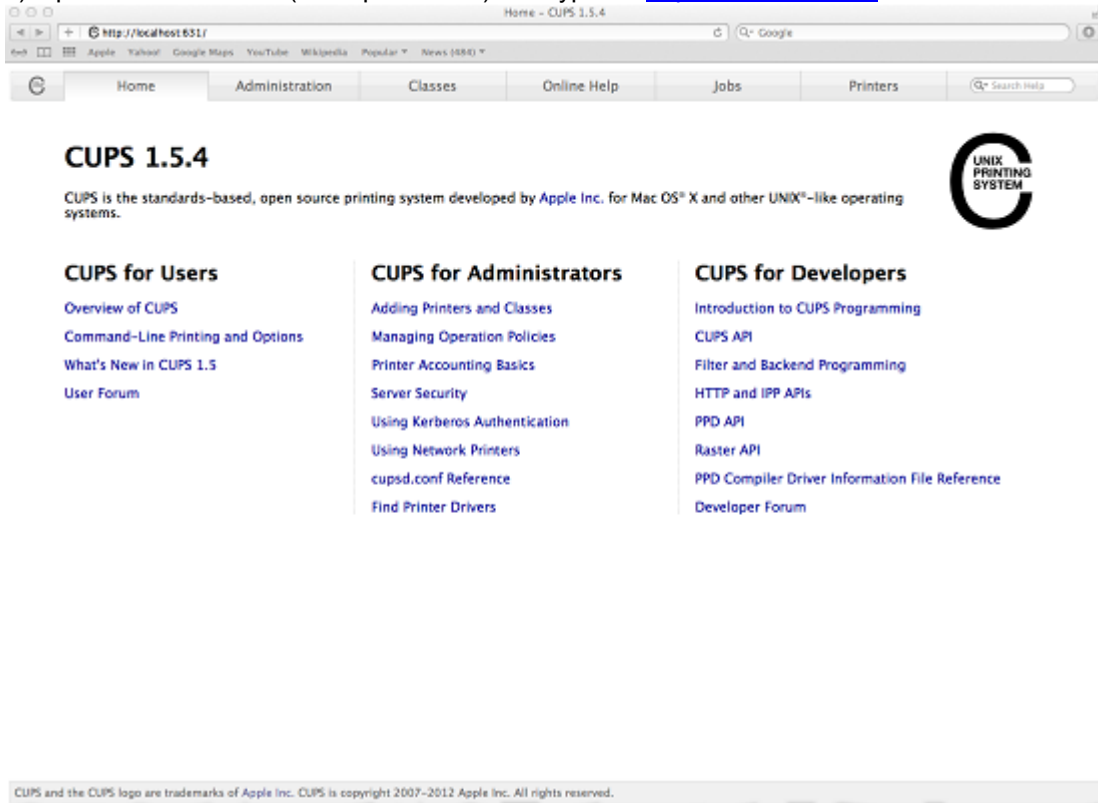
## 4.3 Managing Printers from the CUPS Web Interface

All Mac OS X system with CUPS installed has a **CUPS Web Interface** wherein users can manage printers in the system.

### 4.3.1 Adding a New Printer

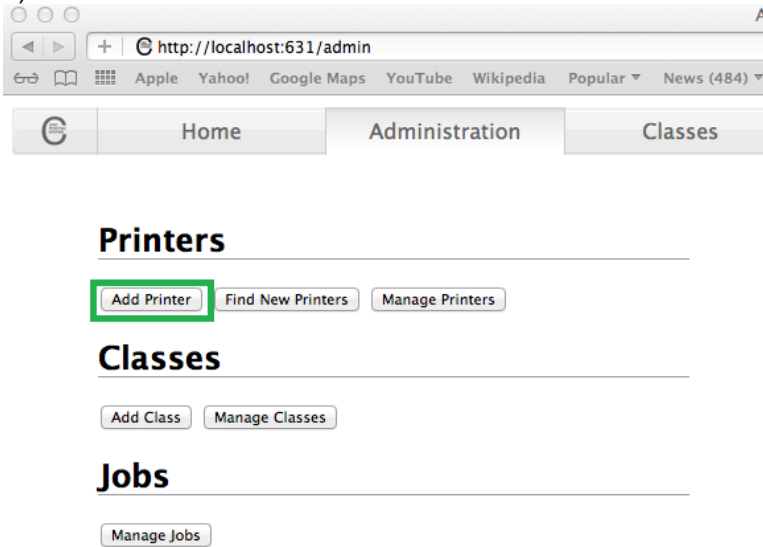
To add a new printer from the **CUPS Web Interface**, perform the following actions below:

1) Open a web browser (example: Safari) and type in "<http://localhost:631/>" in the address bar.

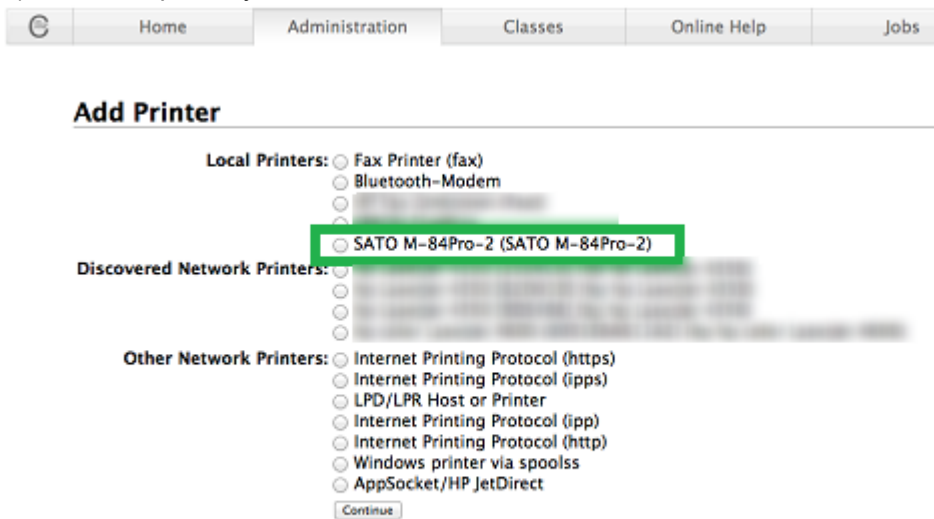


2) On the **Home** page, click **Administration** on the top of the menu.

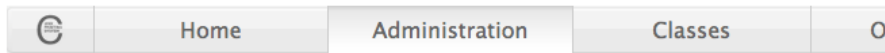
3) Click **Add Printers**.



3) Select the printer you wish to add and click **Continue**



4) Printer information will be loaded in the page. Modify the information depending on your needs.



## Add Printer

**Name:**   
(May contain any printable characters except "/", "#", and space)

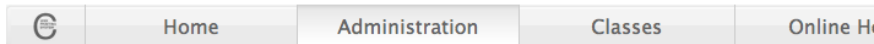
**Description:**   
(Human-readable description such as "HP LaserJet with Duplexer")

**Location:**   
(Human-readable location such as "Lab 1")

**Connection:** usb://SATO/M-84Pro-2?location=fd130000

**Sharing:**  Share This Printer

5) CUPS will detect the printer model that best describes the printer. Click **Add** to complete the process. If the selected model is incorrect, you can manually select the printer from the list.



## Add Printer

**Name:** SATO\_M-84Pro-2

**Description:** SATO M-84Pro-2

**Location:**

**Connection:** usb://SATO/M-84Pro-2?location=fd130000

**Sharing:** Share This Printer

**Make:** SATO

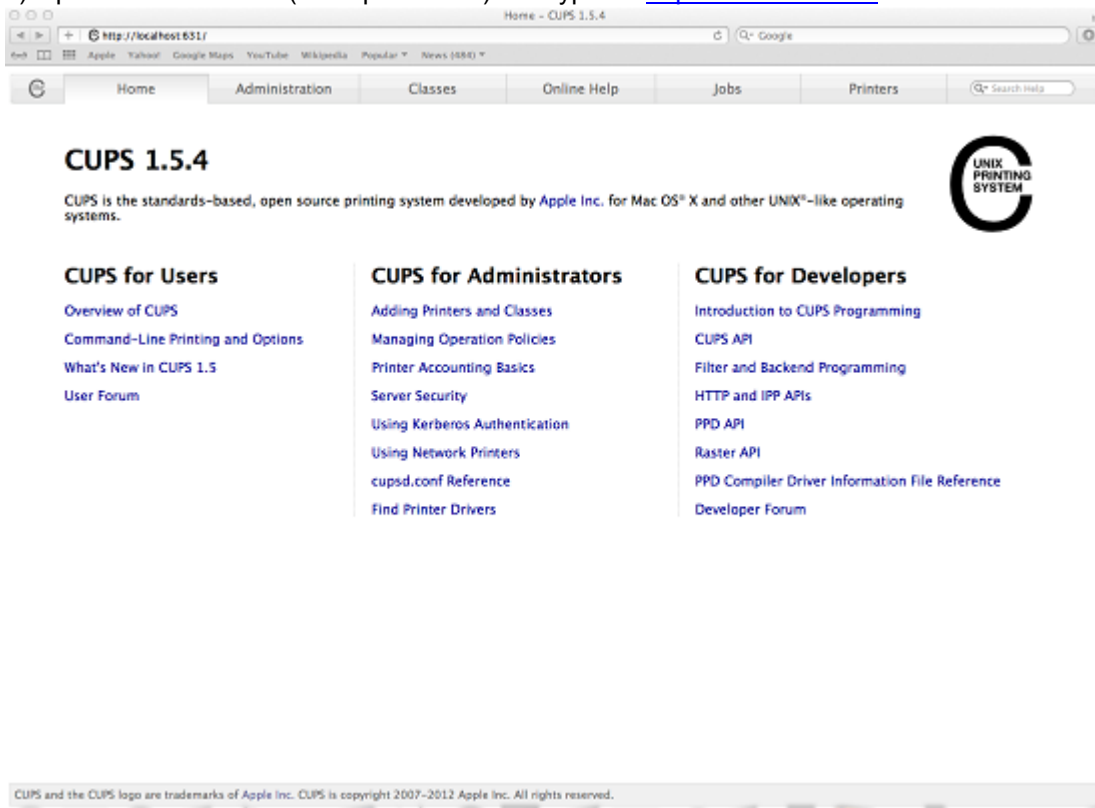
**Model:**   
 SATO CG208 (en, en)  
 SATO CG212 (en, en)  
 SATO CG408 (en, en)  
 SATO CG412 (en, en)  
 SATO CL608e (en, en)  
 SATO CL612e (en, en)  
 SATO GZ408e (en, en)  
 SATO GZ412e (en, en)  
 SATO M-84Pro-3 (en, en)

**Or Provide a PPD File:**  no file selected

### 4.3.2 Modify Printers

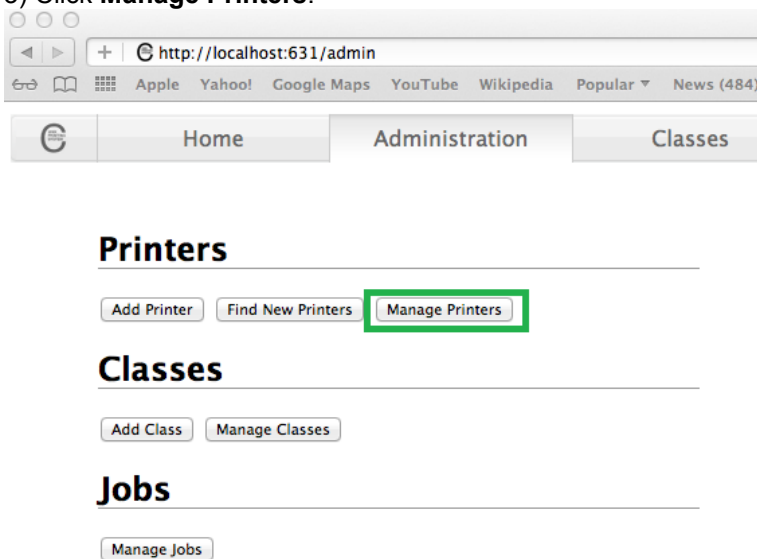
To modify an existing printer perform the following actions below:

1) Open a web browser (example: Safari) and type in “<http://localhost:631/>” in the address bar.

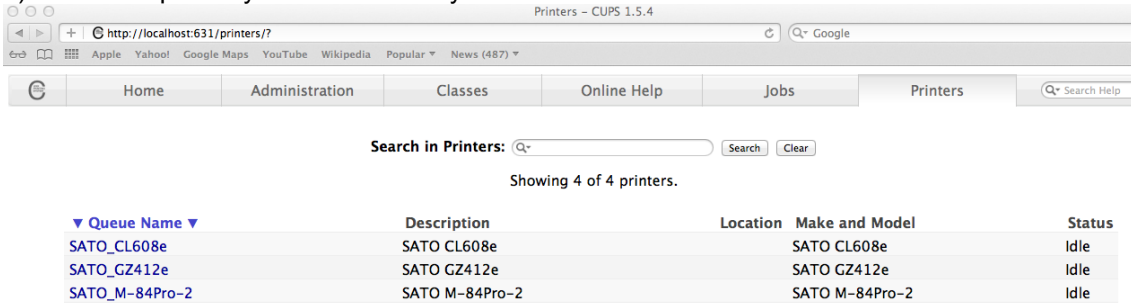


2) On the **Home** page, click **Administration** on the top of the menu.

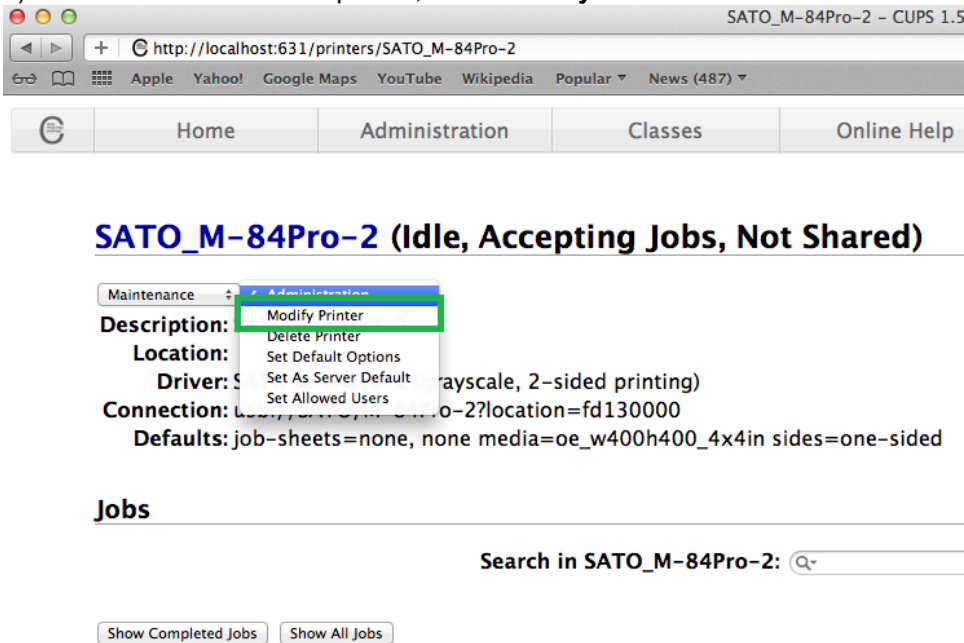
3) Click **Manage Printers**.



4) Select the printer you wish to modify on the list



5) On the Administration dropdown, select **Modify Printer**.

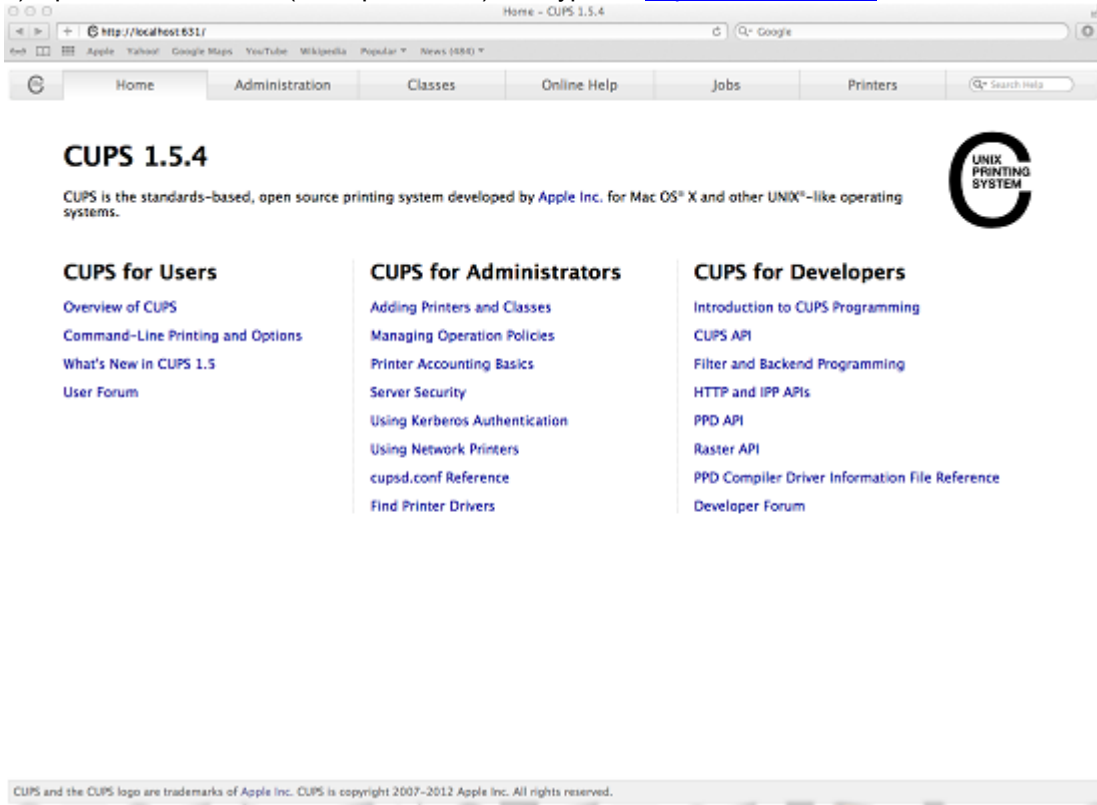


- 6) Select the printer you wish to modify and click **Continue**
- 7) Printer information will be loaded in the page. Modify the information depending on your needs.
- 8) CUPS will detect the printer model that best describes the printer. Click **Modify Printer** to complete the process.

### 4.3.3 Removing the Printer

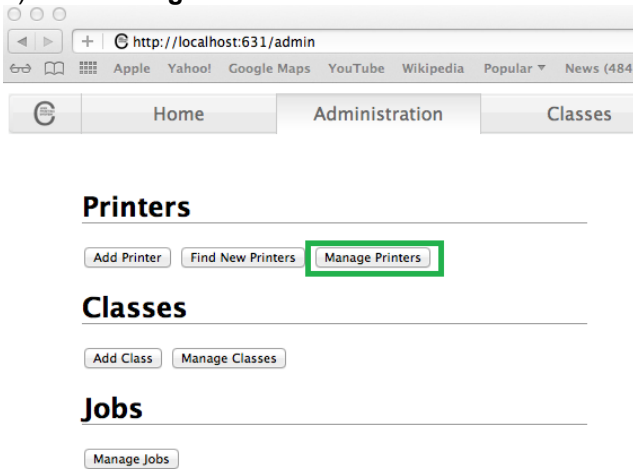
To remove an existing printer properties perform the following actions below:

1) Open a web browser (example: Safari) and type in “<http://localhost:631/>” in the address bar.

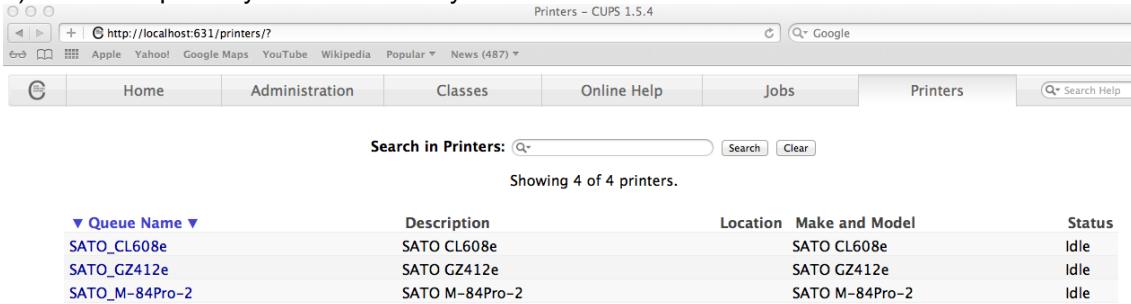


2) On the **Home** page, click **Administration** on the top of the menu.

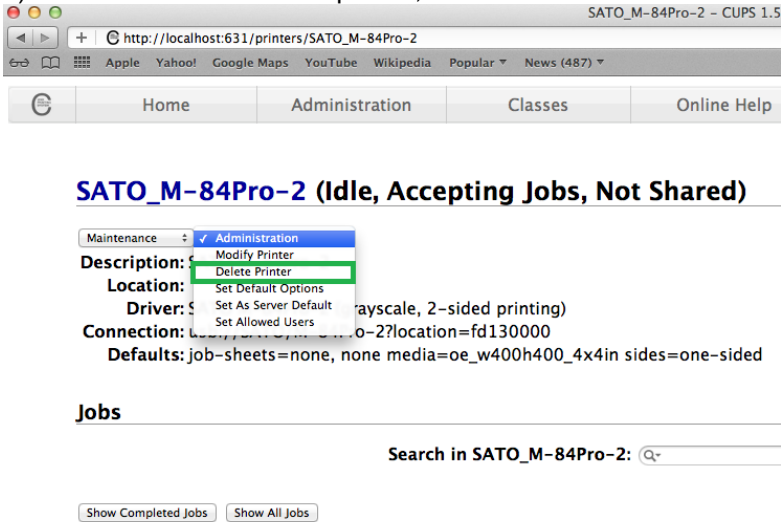
3) Click **Manage Printers**.



4) Select the printer you wish to modify on the list



5) On the Administration dropdown, select **Delete Printer**.



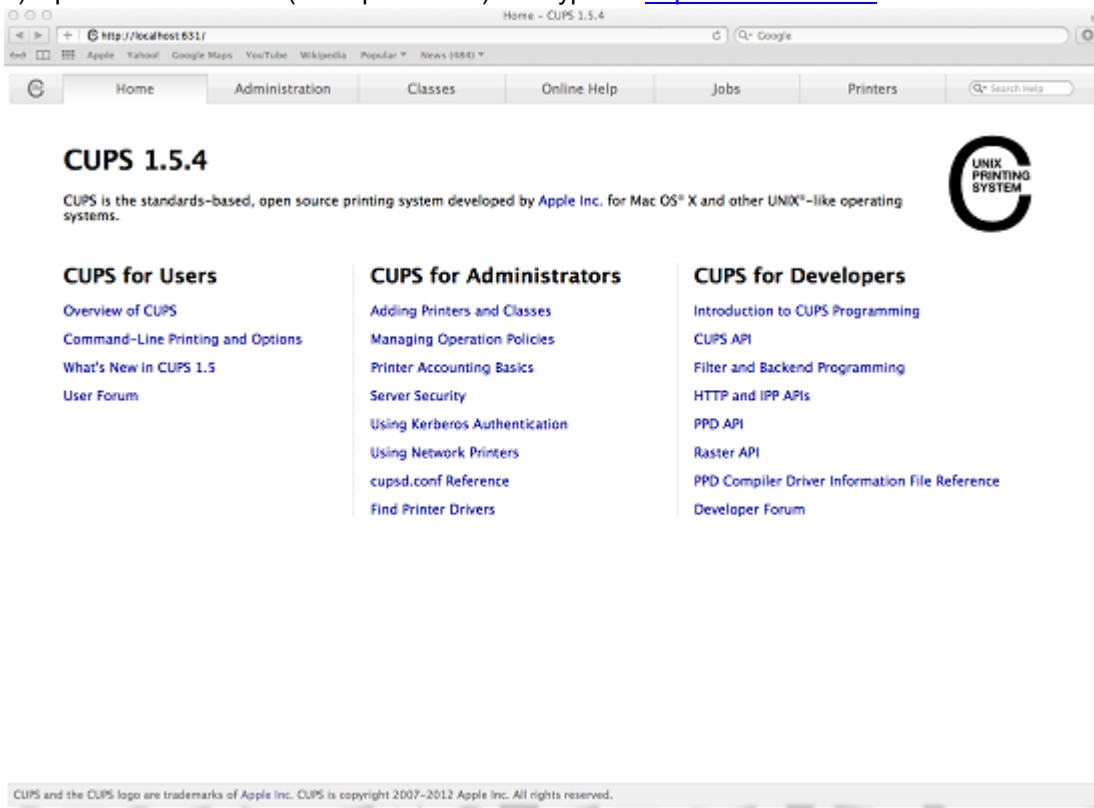
6) Click **Delete Printer** to confirm



### 4.3.4 Setting Default Printer Options

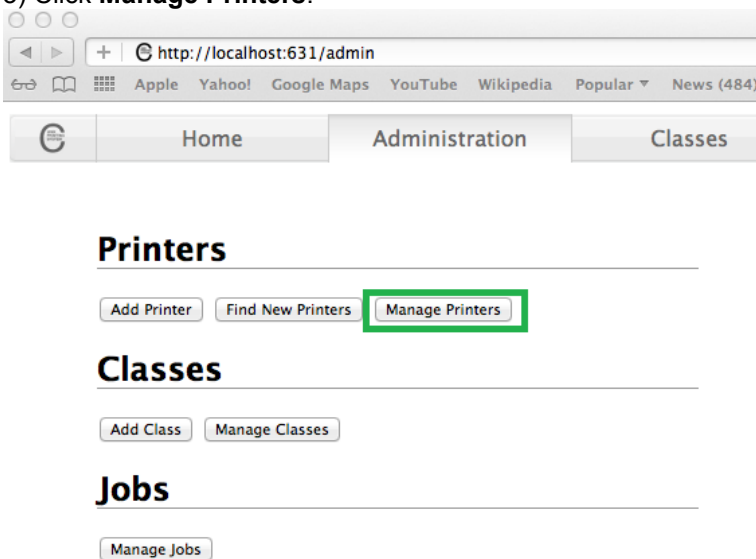
To set the default printing options perform the following actions below:

1) Open a web browser (example: Safari) and type in “<http://localhost:631/>” in the address bar.

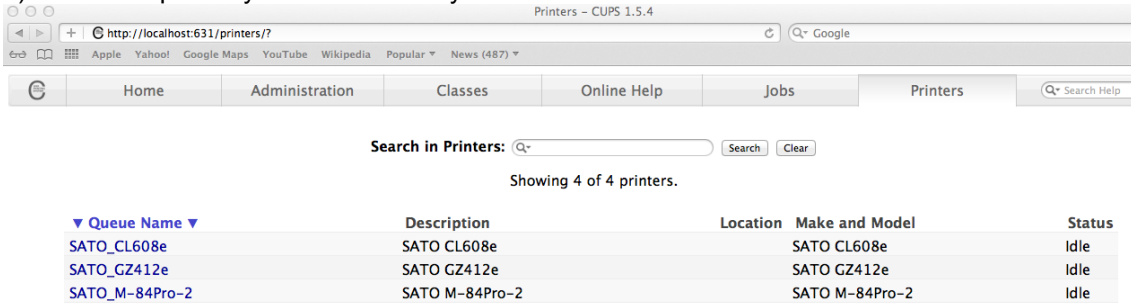


2) On the **Home** page, click **Administration** on the top of the menu.

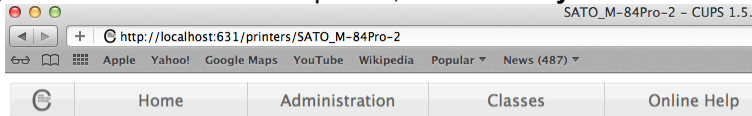
3) Click **Manage Printers**.



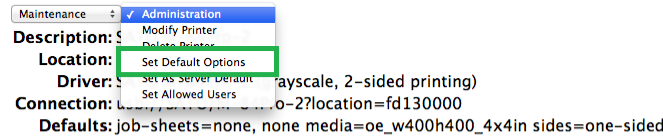
4) Select the printer you wish to modify on the list



5) On the Administration dropdown, select **Modify Printer**.



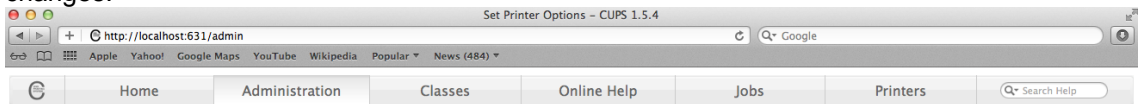
**SATO\_M-84Pro-2 (Idle, Accepting Jobs, Not Shared)**



**Jobs**

Search in SATO\_M-84Pro-2:

6) Change the default option values and click the **Set Default Options** button to save changes.



**Set Default Options for SATO\_M-84Pro-2**

[General](#) [Banners](#) [Policies](#)

**General**

Media Size:    
 Print Mode: 
 Darkness Range: 
 Darkness Level: 
 Print Speed: 
 Cutter: 
 Vertical Offset: 
 Horizontal Offset:

---

## 4.4 Managing Printers from the Command Line

To find out more information on how to manage printers from the command-line please refer to the CUPS documentation in the address below:

<http://www.cups.org/documentation.php/doc-1.6/options.html>

## 4.5 Troubleshooting

The best way to troubleshoot the problem is to check the log file. The procedures are as follows:

- 1) Switch on the "debug" mode in the LogLevel directive for your CUPS daemon.
- 2) Edit */etc/cups/cupsd.conf* to have the line "LogLevel debug".
- 3) After changing the setting, restart CUPS daemon by typing "*/etc/software/init.d/cups start*" on the command-line.
- 4) Once the "LogLevel" has been modified, print a document and locate the log file generated. It can be found on */var/log/cups/error\_log* directory of your machine.
- 5) Open the logs generated. This will give you the idea what caused the problem.

**Note:** Alternatively, you can also do it using the CUPS web interface.

To find out more on how to troubleshoot the driver, please refer to the CUPS documentation URL address below:

<http://www.cups.org/documentation.php/doc-other/cups-help.html>



Extensive contact information of worldwide SATO operations can be found on the Internet at [www.satoworldwide.com](http://www.satoworldwide.com)

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