

Massey University Follow Me Printer Setup for Linux systems

RedHat and Debian based systems

Requirements

You must have an active Massey network account, i.e. you should already be able to log onto the wired Massey network (for example the computer labs) for Staff with your Massey username and password and Students with your Student ID number and PIN.

The computer that you wish to print from must have the CUPS printing system installed. By default, this is installed on most distributions. In order to verify whether this is the case, open a terminal on the computer and type the following:

For Debian / Ubuntu:

```
$ dpkg -s cups
```

For Redhat / Fedora / Suse / CentOS:

```
$ rpm -qa | grep cups
```

From the command output, you should be able to gather enough information to establish whether you have CUPS installed. If this is not the case, please install cups through your preferred package manager. The scope of installing the actual cups system will not be covered here.

Users have **two** choices when it comes to printer drivers for the Multifunction Devices.

- a) **Native Fuji Xerox printer drivers:** these packages are available as:
 - A .deb package for 32 bit machines (Debian / Ubuntu)
 - A .deb package for 64 bit machines (Debian / Ubuntu)
 - A .rpm package for 32 bit machines (Redhat / Fedore / Suse / CentOS)
- b) **Generic PCL 5c printer:** This has been tested and works on both systems.

Redhat / Fedora users on 64 bit machines have the following options:

- a) Use the Generic PCL 5c printer driver, or
- b) Compile the driver from source (instructions later in this document)

For the purpose of using actual examples, and for commands that are executed within a terminal, we assume the following:

A user called "massey" have downloaded all files to a folder called "tmp" within his home folder. We will execute all the commands from this folder. So when you see a command like:

```
sudo dpkg -i /home/massey/tmp/fxlinuxprint_1.0.4._i386.deb
```

replace /massey/tmp with whatever is applicable to your system (ie where you actually downloaded the files)

We will start with installing the driver on 32 bit machines. Users can skip this part if they want to set it up on 64 bit machines.

Installing the driver on 32 bit Systems:

Debian / Ubuntu:

Download the native printer from here and unzip:

http://softarch.massey.ac.nz/linux/drivers/fujixerox/debian/fxlinuxprint_1.0.4_i386.zip

Run the following command in a terminal:

```
$ sudo dpkg -i /home/massey/tmp/fxlinuxprint_1.0.4._i386.deb
```

This will install the native printer driver onto the machine.

Redhat / Fedora / Suse / CentOS:

Download the native printer from here:

<http://softarch.massey.ac.nz/linux/drivers/fujixerox/rpm/fxlinuxprint-1.0.4-1.i386.rpm>

Run the following command in a terminal:

```
$ rpm -i /home/massey/tmp/fxlinuxprint_1.0.4-1.i386.rpm
```

This will install the native printer driver onto the machine.

Installing the driver on 64 bit Systems:

Debian / Ubuntu:

Download the native printer from here and unzip:

http://softarch.massey.ac.nz/linux/drivers/fujixerox/debian/fxlinuxprint_1.0.4_amd64.zip

Run the following command in a terminal:

```
$ sudo dpkg -i /home/massey/tmp/fxlinuxprint_1.0.4._amd64.deb
```

This will install the native printer driver onto the machine.

Redhat / Fedora / Suse / CentOS:

If you intend to use the generic driver instead, skip straight to the next section, otherwise, if you are prepared to compile from source, download the tarball from here:

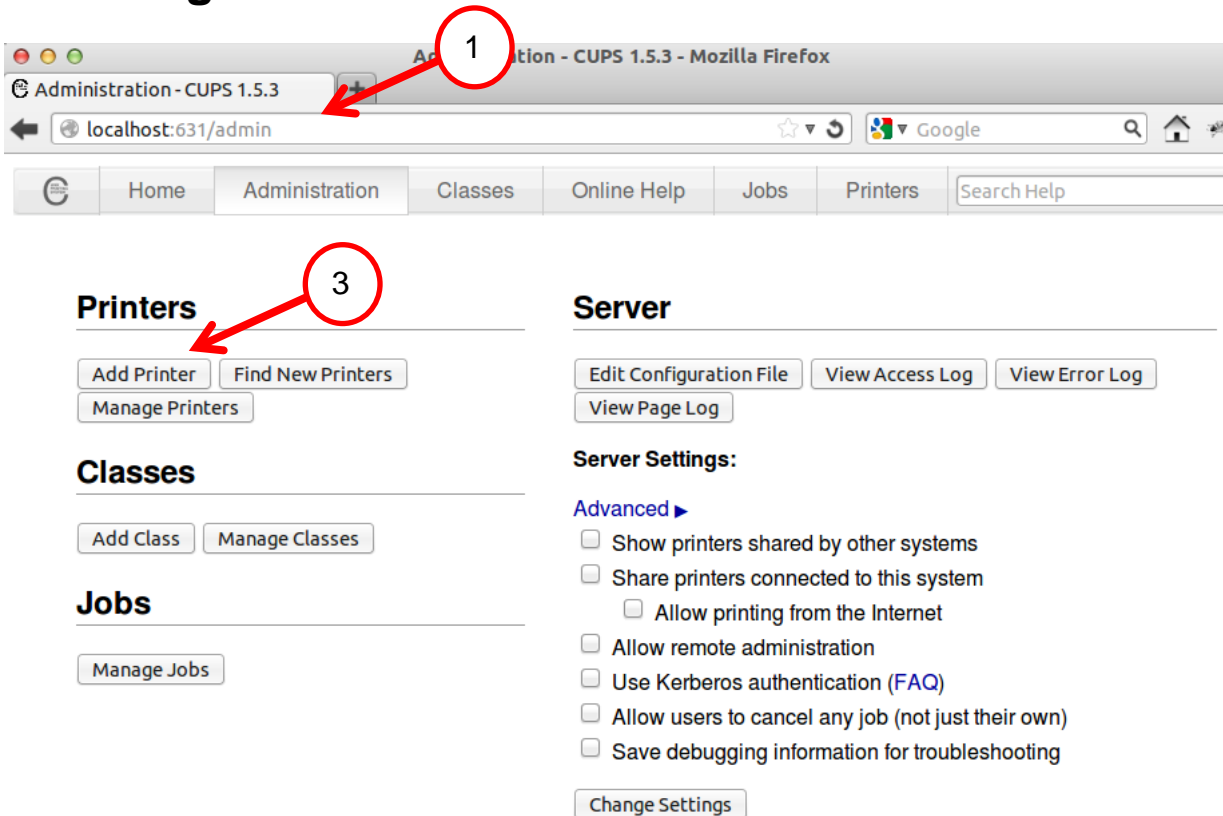
<http://softarch.massey.ac.nz/linux/drivers/fujixerox/src/fxlinuxprint-src-1.0.1.tar.gz>

Run the following commands in a terminal:

```
$ tar xvfz fxlinuxprint-src-1.0.1.tar.gz
$ cd fxlinuxprint-src-1.0.1
$ ./configure
$ make
$ sudo make install
```

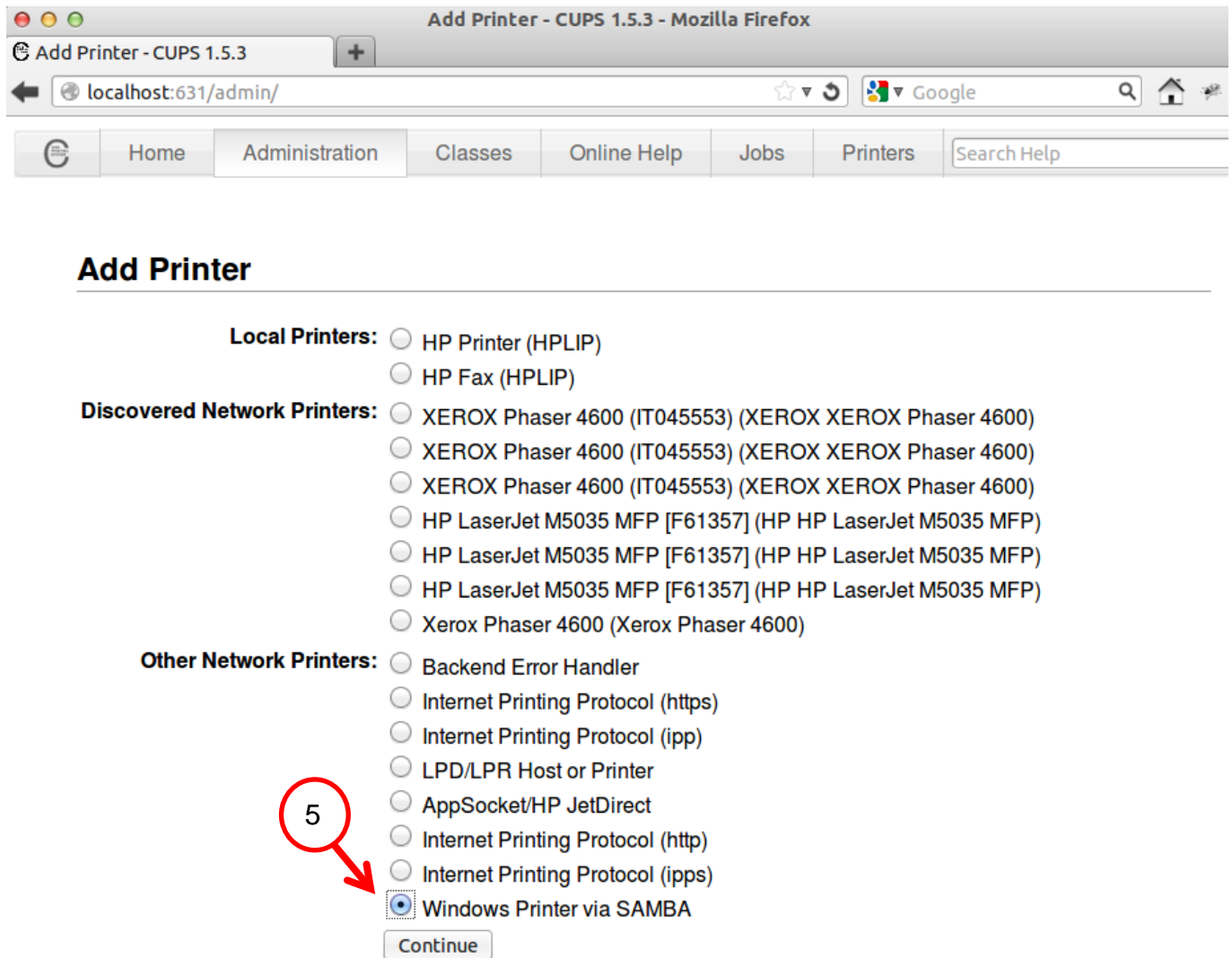
This will compile, make and install the native printer driver onto the machine.

Installing the Printer:

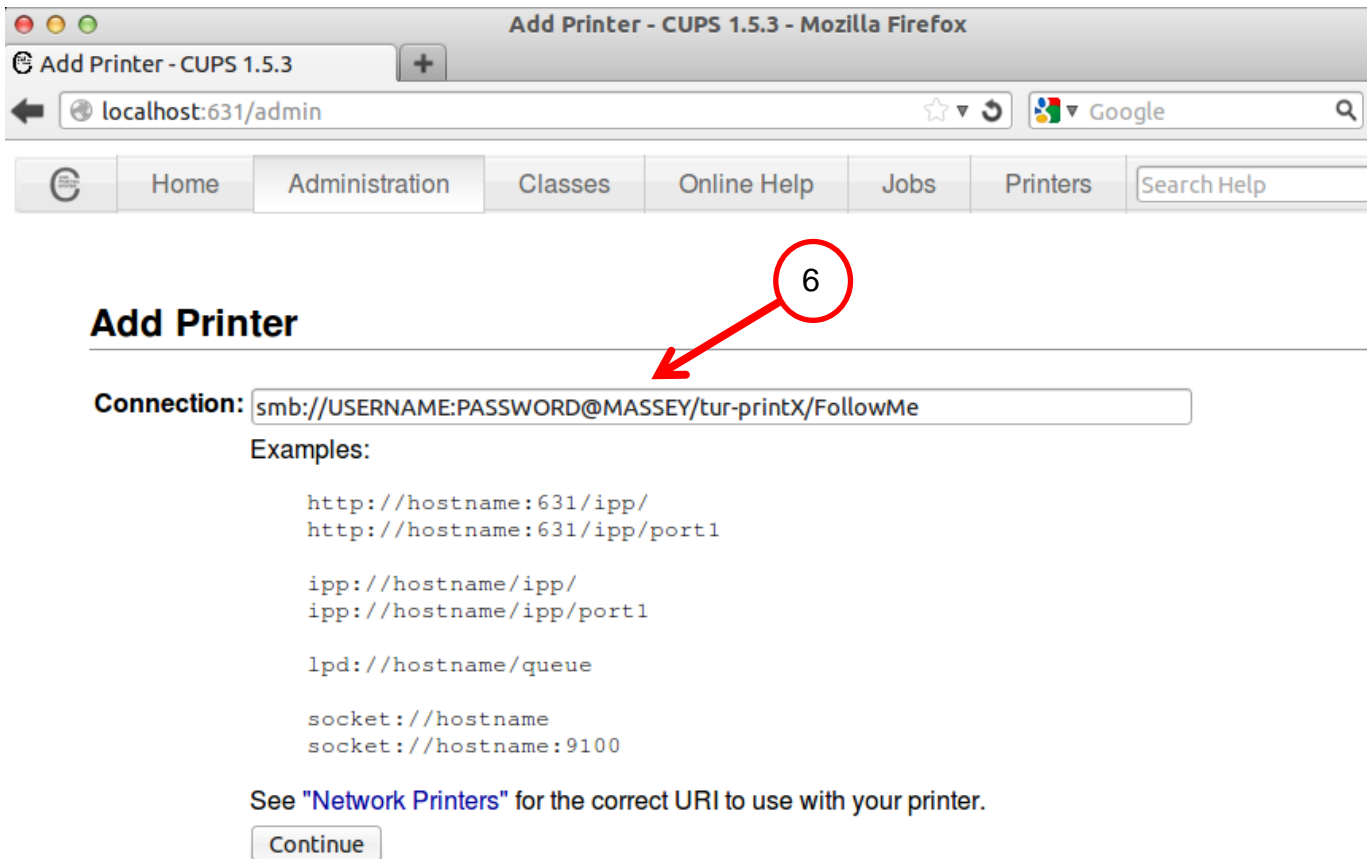


1. Open a browser and type in the url: localhost:631/admin. When prompted for a username and password, enter the credentials of a user that has root access.
2. If you do not get a similar screen to the one above, or get an error message, then cups is probably not started. Ensure that the cups service is started, and the you bypass the proxy for local addresses.
3. Click on **Add Printer**

4. You should now get a screen similar to the one below:



5. Select the **Windows Printer via SAMBA** option, and then click on **Continue**
6. Fill in the connection parameters as below, but replace USERNAME and PASSWORD with your own userid and password.
7. Replace **tur-printX** with **tur-print5** or **tur-print6**
8. Click on **Continue**



Add Printer

Connection:

Examples:

```
http://hostname:631/ipp/
http://hostname:631/ipp/port1

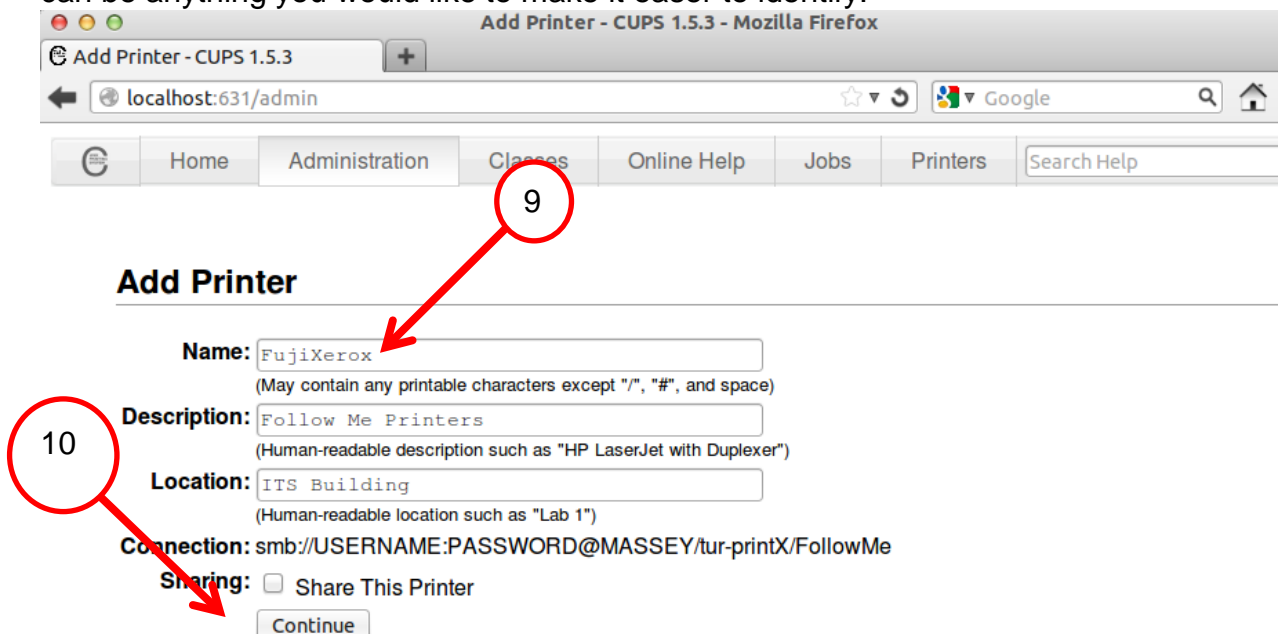
ipp://hostname/ipp/
ipp://hostname/ipp/port1

lpd://hostname/queue

socket://hostname
socket://hostname:9100
```

See "Network Printers" for the correct URI to use with your printer.

9. Next we fill in more detail about the Printer itself. The **Name**, **Description** and **Location** can be anything you would like to make it easier to identify.



Add Printer

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

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

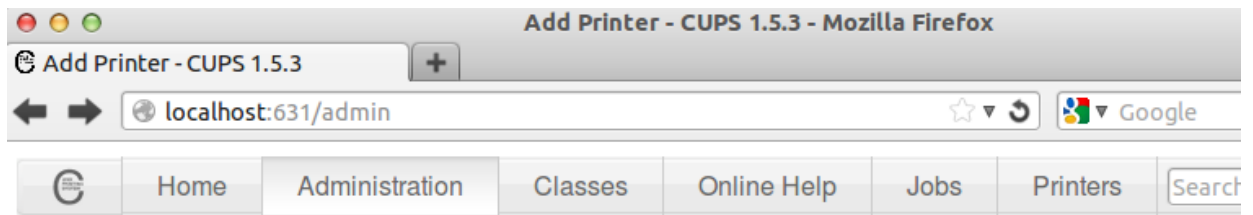
Location:
(Human-readable location such as "Lab 1")

Connection:

Sharing: Share This Printer

10. Click **Continue**

11. On the next page, click on the **Browse** option:



Add Printer

Name: FujiXerox

Description: Follow Me Printers

Location: ITS Building

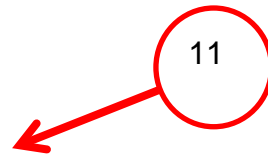
Connection: smb://USERNAME:PASSWORD@MASSEY/tur-printX/FollowMe

Sharing: Do Not Share This Printer

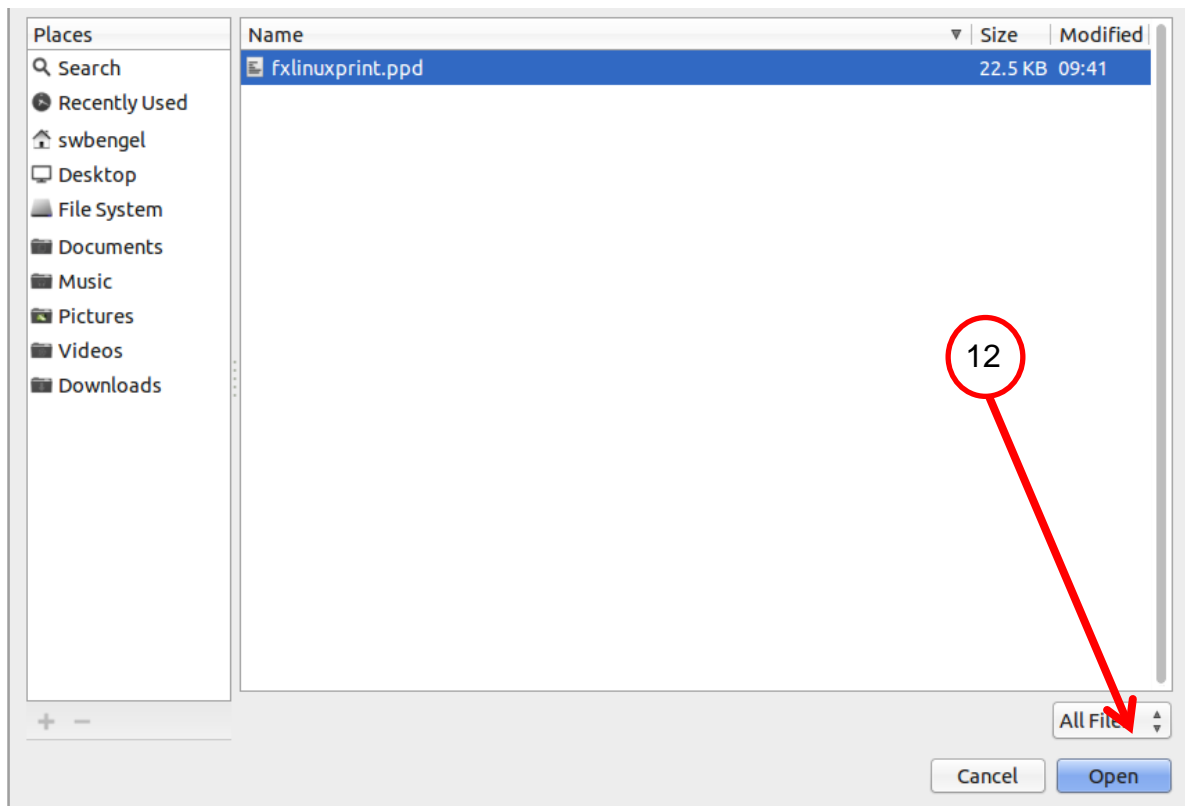
Make:
Anitech
Apollo
Apple
Brother
Canon
Citizen
Cltoh
Compaq
DEC

Or Provide a PPD File:

11

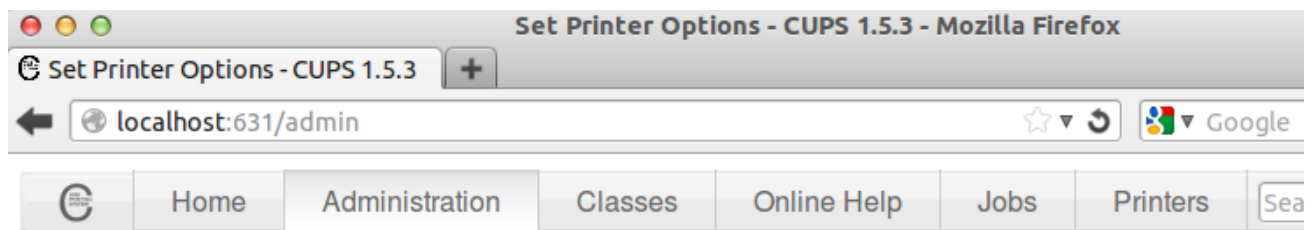


12. Browse to `/usr/share/ppd/custom` and highlight `fxlinuxprint.ppd` and click on **Open**



13. Click on **Add Printer**

14. Make sure all the Default settings are okay and click on **Set Default Options**



Set Default Options for FujiXerox

Query Printer for Default Options

General **Banners** **Policies**

General

Paper Size: A4 (210 x 297mm) ▾

Print Mode: Standard ▾

Layout: Top Left ▾

2 Sided Print: 1 Sided Print ▾

Paper Type: Plain ▾

Output Color: Color(Auto) ▾

Paper Source: Auto ▾

Collated: False True

Stapling: None ▾

Hole Punch: OFF ▾

14

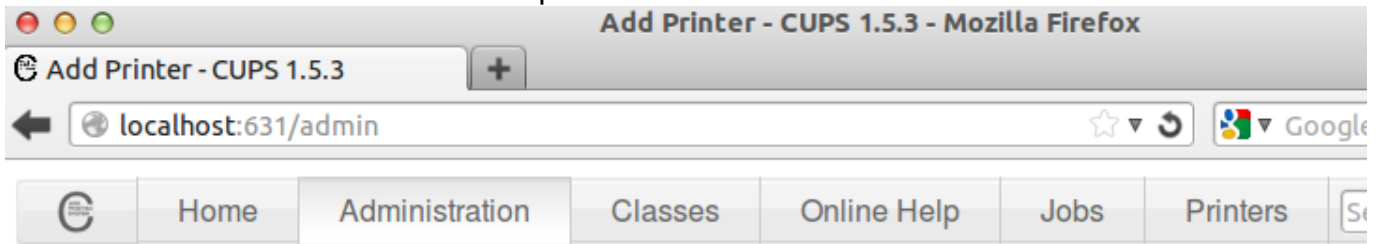
Set Default Options

15. And that should be it! You can now test your new printer by printing a test page and going to anyone of the Follow Me MFD's and swiping your card.

Installing the Printer with Generic Linux Drivers:

Follow Step 1 to Step 10 on the previous section, and then:

11. Choose **Generic** from the **Make** options and click on **Continue**



Add Printer

Name: FujiGeneric

Description: Fuji Xerox with Generic driver

Location: ITS

Connection: smb://swbengel:Agape212@MASSEY/tur-print6/FollowMe

Sharing: Do Not Share This Printer

Make:

- Dymo
- Eastman Kodak
- Epson
- Fuji-Xerox
- Fujifilm
- Fujitsu
- Generic**
- Genicom
- Gestetner
- Heidelberg

Continue

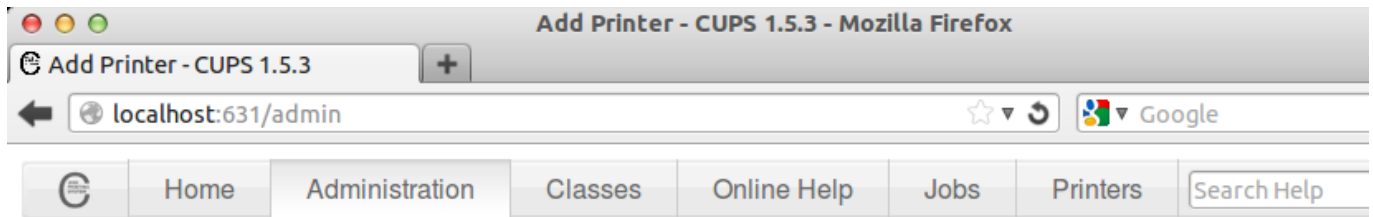


Or Provide a PPD File:

Browse...

Add Printer

12. Choose **Generic PCL 5c Printer Foomatic/hpijs-pcl5c** from the **Model** options and click on **Add Printer**



Add Printer

Name: FujiGeneric

Description: Fuji Xerox with Generic driver

Location: ITS

Connection: smb://swbengel:Agape212@MASSEY/tur-print6/FollowMe

Sharing: Do Not Share This Printer

Make: Generic

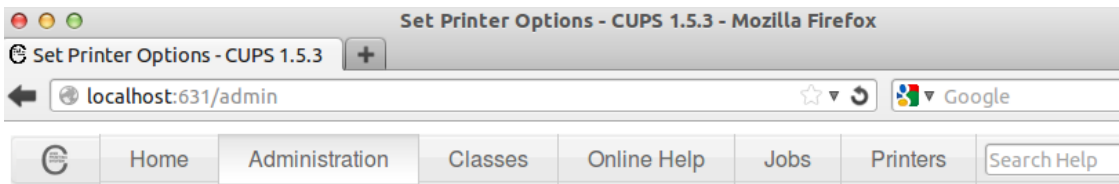
Model:

- Generic PCL 5c Printer - CUPS+Gutenprint v5.2.8-pre1 (en)
- Generic PCL 5c Printer Foomatic/cljet5 (en)
- Generic PCL 5c Printer Foomatic/cljet5 (en)
- Generic PCL 5c Printer Foomatic/hpijs-pcl5c (recommended) (en)**
- Generic PCL 5c Printer Foomatic/hpijs-pcl5c (recommended) (en)
- Generic PCL 5c Printer Foomatic/lj4dith (en)
- Generic PCL 5c Printer Foomatic/lj4dith (en)
- Generic PCL 5c Printer Foomatic/ljet4 (en)
- Generic PCL 5c Printer Foomatic/ljet4 (en)
- Generic PCL 5c Printer Foomatic/ljet4d (en)

12

Or Provide a PPD File:

13. Set the Printer defaults, and make sure you choose **High Quality** in the **Print Quality** options as that will get you colour and changing **Double-Sided Printing** to **On** will also give you that.



Set Default Options for FujiGeneric

Query Printer for Default Options

General Printout Mode Banners Policies

13 **General**

Print Quality: High Quality

Media Source: Printer Default

Page Size: A4

Double-Sided Printing: Off

14

Set Default Options

14. Click on **Set Default Options** and you should be set to use your new printer.