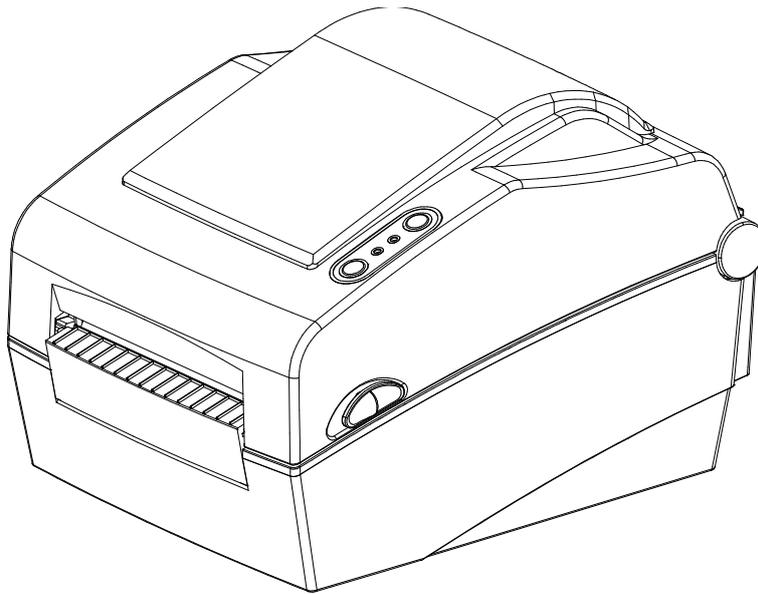


**BIXOLON®**

**Installation Guide**  
**Label Linux CUPS Driver**

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**Ver. 1.00**



<http://www.bixolon.com>

## Introduction

This manual is Linux CUPS Driver Installation Guide.

If you want get information about CUPS Ethernet Setting, lease refer to CUPS Ethernet Setting manual.

If you want get information about supported models, OS, and the driver settings, please refer to “readme.htm” file which is existed in driver folder.

## Symbols Information



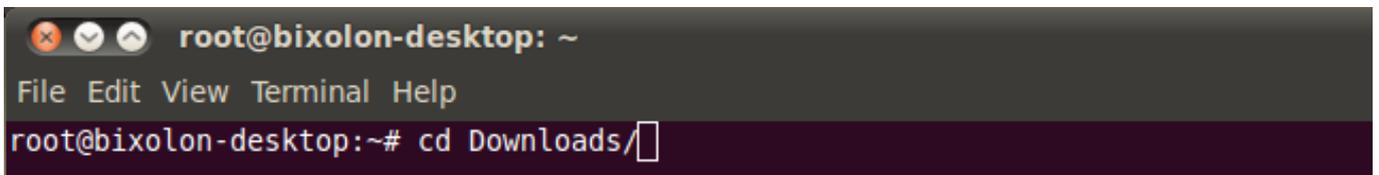
**Note**

Important information and useful tips.

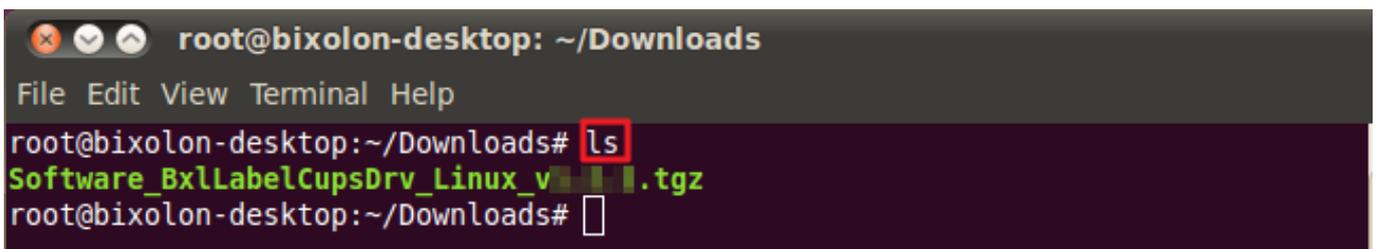
1. Search and execute the terminal program.



2. Type "cd Downloads" to move to Downloads folder.



3. Type "ls" and click the Enter button to check driver package file.



4. To extract the driver zip file, type “tar xvf <driver package file name>” and click the Enter button.

```
root@bixolon-desktop: ~/Downloads
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads# ls
Software_BxlLabelCupsDrv_Linux_v1.2.2.tgz
root@bixolon-desktop:~/Downloads# tar xvf Software_BxlLabelCupsDrv_Linux_v1.2.2.tgz
```

5. Type “ls” after extracting the zip file to check the driver package folder.  
Type “cd <driver package folder name>” and click Enter button to move to driver package folder

```
root@bixolon-desktop: ~/Downloads
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads# ls
Software_BxlLabelCupsDrv_Linux_v1.2.2 Software_BxlLabelCupsDrv_Linux_v1.2.2.tgz
root@bixolon-desktop:~/Downloads# cd Software_BxlLabelCupsDrv_Linux_v1.2.2
```

6. Type “ls” after extracting the zip file to check the driver package folder.

```
root@bixolon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2# ls
Software_BxlLabelCupsDrv_Linux_v1.2.2_RaspberryPi.tgz
Software_BxlLabelCupsDrv_Linux_v1.2.2_x64.tgz
Software_BxlLabelCupsDrv_Linux_v1.2.2_x86.tgz
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2#
```

6-1. After check CPU architecture name via type “uname -a” and continue the driver installation proceed.

```
root@bixolon-desktop: ~/Downloads
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads# uname -a
Linux bixolon-desktop 2.6.32-38-generic #83-Ubuntu SMP Wed Jan 4 11:12:07 UTC 2012 x86_64 GNU/Linux
root@bixolon-desktop:~/Downloads#
```



**Note**

**\* If the driver mismatched user-environment, the driver not works fine.**

In case of Desktop, please install the driver refer to below table.

Architecture name	The driver compressed file name
x86_x64	Software_BxlLabelCupsDrv_Linux_vX.X.X_x64.tgz
i386	Software_BxlLabelCupsDrv_Linux_vX.X.X_x86.tgz
i586	
i686	

In case of Raspberry Pi,  
Please install

“Software\_BxlLabelCupsDrv\_Linux\_vX.X.X\_RaspberryPi.tgz”

7. To extract the driver zip file, type “tar xvf <driver file name>” and click the Enter button.

```
root@bixolon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1# tar xvf Software_BxlLabelCupsDrv_Linux_v1.1.1_x64.tgz
```

- Type "ls" after extracting the zip file to check the driver package folder.  
Type "cd <driver package folder name>" and click Enter button to move to driver package folder.

```
root@bixelon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2
File Edit View Terminal Help
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPTX400_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/XD5_40t_v1.0.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPT400_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPD220_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/XT5_46_v1.0.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SPPL3000_v1.0.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SRPE770III_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/XD5_43d_v1.0.3.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPDX423_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPD223_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SRP770II_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPTX423_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SPPL410_v1.0.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SRP770III_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPTX420_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/XT5_40_v1.0.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPDX420_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/SLPD420_v1.1.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/XT5_43_v1.0.2.ppd
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Bixelon/XM7-40_v1.0.2.ppd
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64# ls
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64  RaspberryPi.tgz  SoftwareLicense.txt  Software_BxlLabelCupsDrv_Linux_v1.1.2_x64.tgz
Software_BxlLabelCupsDrv_Linux_v1.1.2_x64  README.txt       uninstaller_v1.1.2_x64.sh
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64# cd Software_BxlLabelCupsDrv_Linux_v1.1.2_x64
```

- Type "ls" to check the driver file, and  
Type "sh setup\_vX.X.X.sh" and click Enter button to install the driver.

```
root@bixelon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64
File Edit View Terminal Help
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64# ls
Bixelon_images  rastertoBxlLabel_v1.1.2_x64  readme.htm  setup_v1.1.2_x64.sh  SoftwareLicense.txt  uninstaller_v1.1.2_x64.sh
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64# sh setup_v1.1.2_x64.sh
```

- If "Re-run as root user..." message is showed up,  
Type "sudo sh setup\_vX.X.X.sh" and Type the user password and click Enter button.

```
bixelon@bixelon: ~/Desktop/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64
File Edit View Search Terminal Help
bixelon@bixelon:~/Desktop/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64$ sh setup_v1.1.2_x64.sh
BIXELON CO Ltd
BIXELON Label CUPS DRIVER Installer
-----
This script requires root user access...
Re-run as root user...
bixelon@bixelon:~/Desktop/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64/Software_BxlLabelCupsDrv_Linux_v1.1.2_x64$ sudo sh setup_v1.1.2_x64.sh
[sudo] password for bixelon:
```

11. After driver installation, “Install Complete” message will be showed.

```
root@bixolon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64# sh setup_v1.2.2.sh
BIXOLON CO Ltd
BIXOLON Label CUPS DRIVER Installer
-----
Checking previous driver...

Previous driver does not exist.

Copying rastertoBxlLabel filter...

Creating Symbolic Link...

Copying model ppd files...

Restarting CUPS
* Stopping Common Unix Printing System: cupsd [ OK ]
* Starting Common Unix Printing System: cupsd [ OK ]
* Stopping Common Unix Printing System: cupsd [ OK ]
* Starting Common Unix Printing System: cupsd [ OK ]

Install Complete
Add printer queue using OS tool, http://localhost:631, or http://127.0.0.1:631
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64#
```

12. Type “ls -l /usr/lib/cups/filter/rastertoBixolon” and click Enter button to check if driver installation is completed correctly.

```
root@bixolon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64# ls -l /usr/lib/cups/filter/rastertoBxlLabel
lrwxrwxrwx 1 root root 36 2020-10-29 09:20 /usr/lib/cups/filter/rastertoBxlLabel -> /usr/bin/rastertoBxlLabel_v1.2.2_x64
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64#
```

13. Type “ls /usr/share/cups/model” to check Bixolon message below. If Bixolon message is showed up as below, driver installation will be done correctly.

```
root@bixolon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64
File Edit View Terminal Help
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64# ls /usr/share/cups/model/
Bixolon
root@bixolon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2/Software_BxlLabelCupsDrv_Linux_v1.2.2_x64#
```

14. Once printer driver is installed correctly, open the browser and type localhost:631. Then Go to Administration and Add Printer.

The screenshot shows the CUPS Administration web interface. The browser window title is "Administration - CUPS 2.2.7 - Mozilla Firefox". The address bar contains "localhost:631/admin". The navigation menu includes "CUPS.org", "Home", "Administration", "Classes", "Help", "Jobs", and "Printers". The "Administration" menu item is highlighted. The main content area is divided into several sections:

- Printers:** Contains buttons for "Add Printer", "Find New Printers", and "Manage Printers". The "Add Printer" button is highlighted with a red box.
- Classes:** Contains buttons for "Add Class" and "Manage Classes".
- Jobs:** Contains a button for "Manage Jobs".
- RSS Subscriptions:** Contains a button for "Add RSS Subscription". Below it is a table with one row:

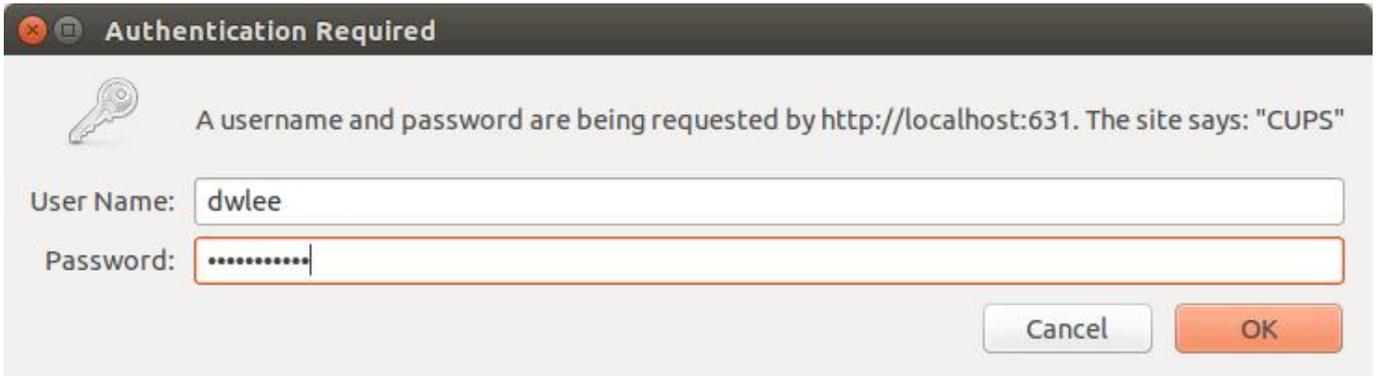
Name	Events	Queue Name
{notify_recipient_name}	{notify_events}	All Queues

The "Server" section on the right contains buttons for "Edit Configuration File", "View Access Log", "View Error Log", and "View Page Log". Below it is the "Server Settings" section, which includes an "Advanced" dropdown and several checkboxes:

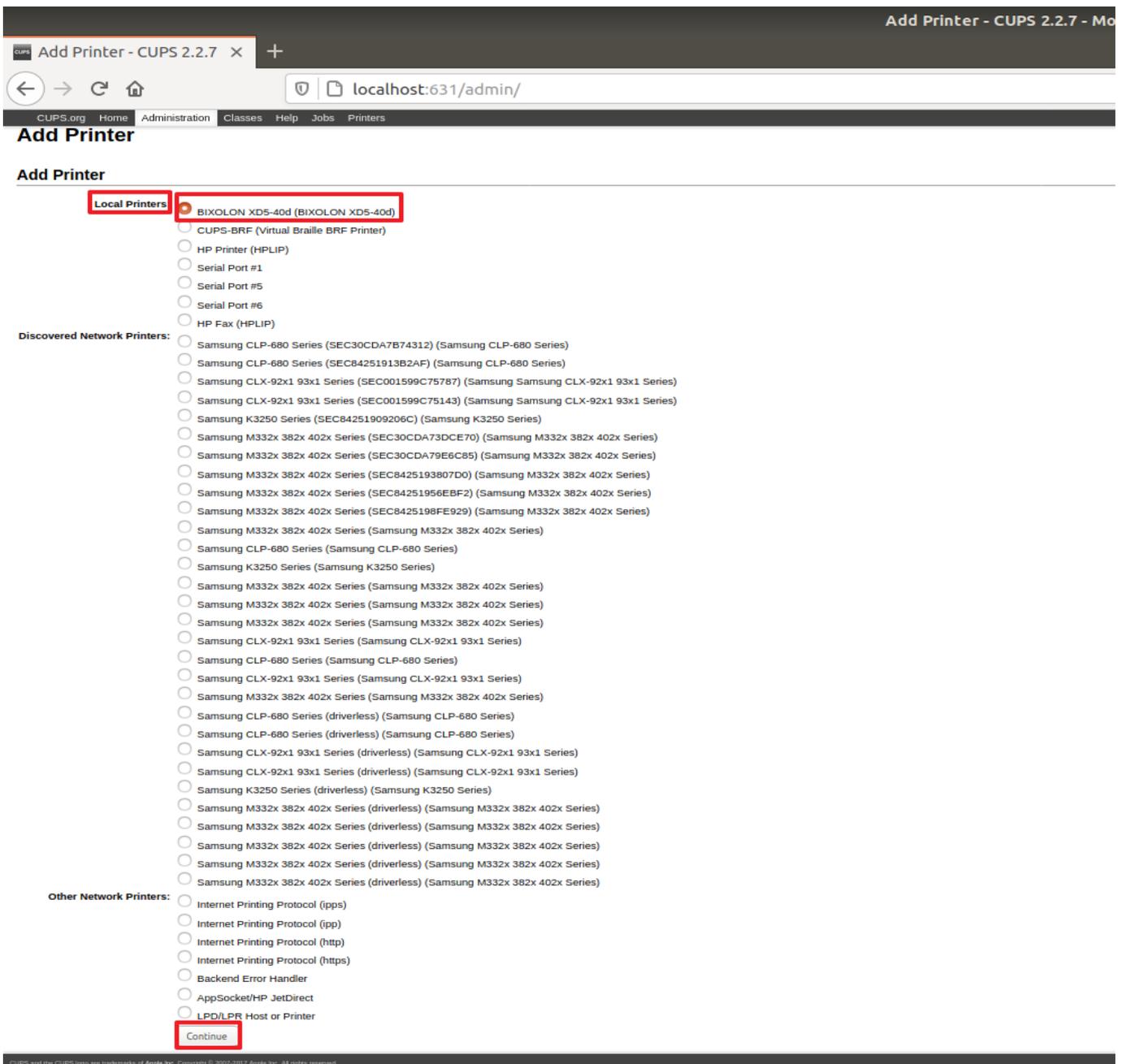
- Share printers connected to this system
  - Allow printing from the Internet
- Allow remote administration
- Use Kerberos authentication (FAQ)
- Allow users to cancel any job (not just their own)
- Save debugging information for troubleshooting

A "Change Settings" button is located below the checkboxes.

15. When below message pops up, enter the 'User Name' and 'Password'.



16. Printer can be found in Local Printers. Select the printer and click 'Continue' button. In case of Ethernet Interface, please refer to CUPS Ethernet Setting manual.



17. After configuration of printer name and other information, click 'Continue' button.

File Edit View History Bookmarks Tools Help

Add Printer - CUPS 2.2.7

localhost:631/admin

CUPS.org Home Administration Classes Help Jobs Printers

# 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://BIXOLON/XD5-40d

**Sharing:**  Share This Printer

18. After selecting BIXOLON in Make option below, click the "Continue" button  
It depends on CUPS version, this page will be skipped.

**Add Printer**

**Add Printer**

**Name:** BIXOLON\_XD5-40d  
**Description:** BIXOLON XD5-40d  
**Location:**  
**Connection:** usb://BIXOLON/XD5-40d  
**Sharing:** Do Not Share This Printer  
**Make:** (Fuji Xerox)  
Alps  
Anitech  
Apollo  
Apple  
**BIXOLON**  
Brother  
Canon  
CIAAT  
Citizen

Continue

**Or Provide a PPD File:** Browse... No file selected.  
Add Printer

19. Select the printer model and click the “Add Printer” button.

The screenshot shows a web browser window with the address bar at localhost:631/admin. The page title is 'Add Printer' and the navigation menu includes 'Administration'. The main content area displays the printer configuration form:

- Name:** BIXOLON\_XD5-40d
- Description:** BIXOLON XD5-40d
- Location:**
- Connection:** usb://BIXOLON/XD5-40d
- Sharing:** Do Not Share This Printer
- Make:** BIXOLON (with a dropdown menu for 'Select Another Make/Manufacturer')
- Model:** A dropdown menu is open, showing a list of printer models. 'Bixelon XD5-40d (en)' is highlighted in red.

Below the form, there is a section 'Or Provide a PPD File:' with a 'Browse...' button and the text 'No file selected.'. The 'Add Printer' button is highlighted with a red box.

20. Configure printer paper size, page type, cut options, etc and click “Set Default Options” button.

Set Printer Options - CUPS 2.2.7 - Mozilla Firefox

localhost:631/admin

CUPS.org Home Administration Classes Help Jobs Printers

## Set Printer Options

### Set Default Options for BIXOLON\_XD5-40d

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

**General**

Media Size: 4.0" x 6.0" ▾

Sensor Type: Gap ▾

Rotation Angle: No Rotation ▾

NO. Of Copies: 1 ▾

[Set Default Options](#)

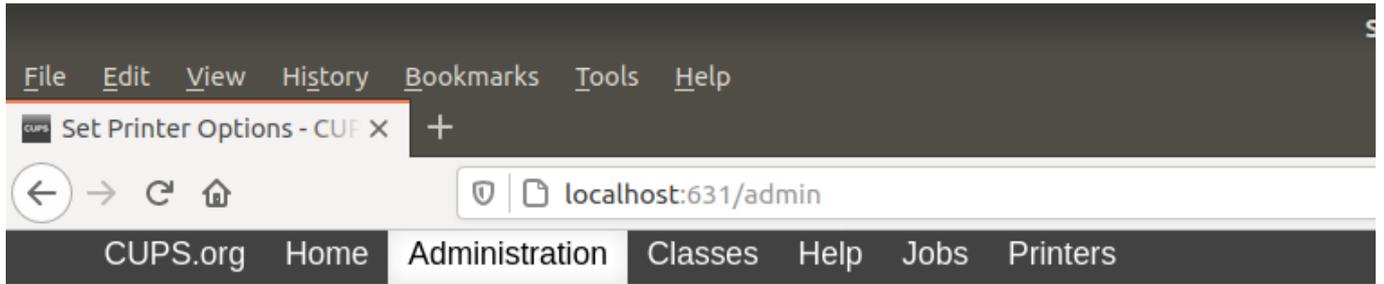
 **Note**

In case of the label printer using cutter, please insert a value of “Cuttingperiod” between 1 and 99999.(Default value : 0)

**Cutter:** Every ▾

Cutting period:

21. If below message is showed up, printer registration is completed correctly.



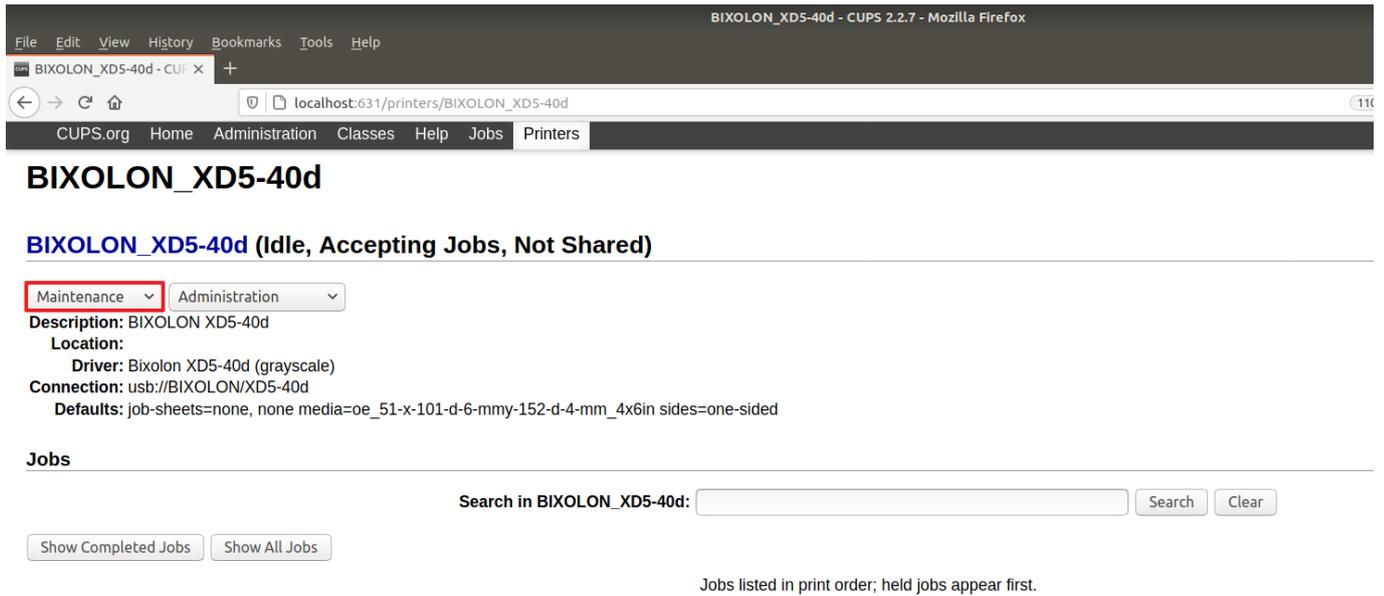
## **Set Printer Options**

### **Set Default Options for BIXOLON\_XD5-40d**

---

Printer [BIXOLON\\_XD5-40d](#) default options have been set successfully.

22. Try to test page print by “Print Test Page” option in “Maintenance”.



BIXOLON\_XD5-40d - CUPS 2.2.7 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

BIXOLON\_XD5-40d - CUPS X

localhost:631/printers/BIXOLON\_XD5-40d

CUPS.org Home Administration Classes Help Jobs Printers

## BIXOLON\_XD5-40d

**BIXOLON\_XD5-40d (Idle, Accepting Jobs, Not Shared)**

Maintenance Administration

**Description:** BIXOLON XD5-40d

**Location:**

**Driver:** Bixelon XD5-40d (grayscale)

**Connection:** usb://BIXOLON/XD5-40d

**Defaults:** job-sheets=none, none media=oe\_51-x-101-d-6-mmy-152-d-4-mm\_4x6in sides=one-sided

### Jobs

Search in BIXOLON\_XD5-40d:  Search Clear

Show Completed Jobs Show All Jobs

Jobs listed in print order; held jobs appear first.

## Copyright

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## Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

