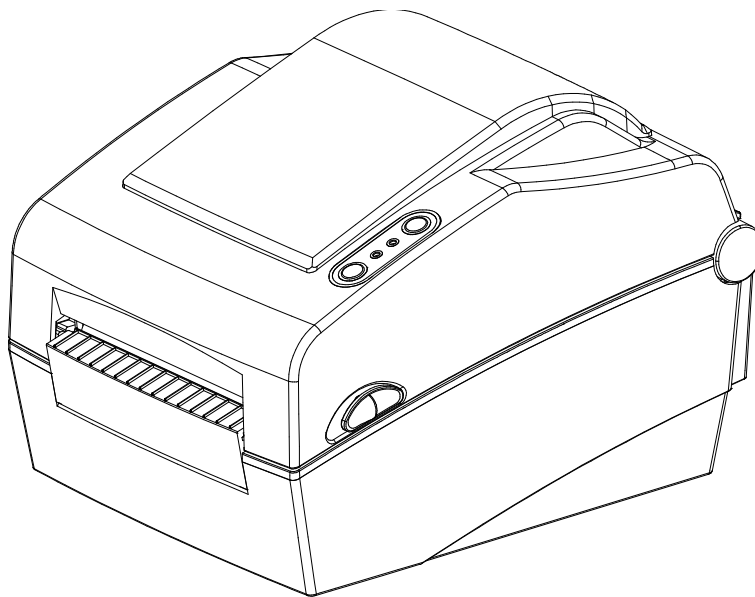


BIXOLON®

Installation Guide

Label Linux CUPS Driver

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



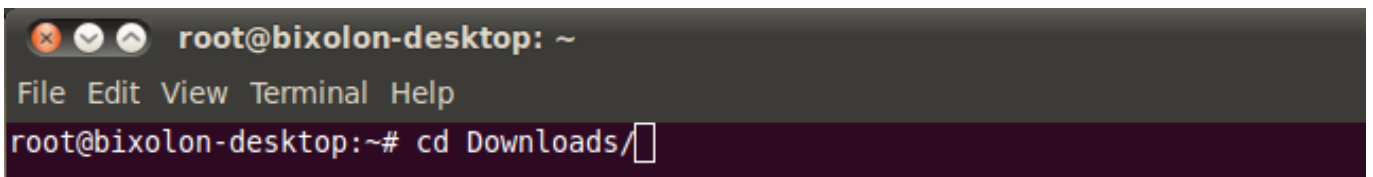
Note

Important information and useful tips.

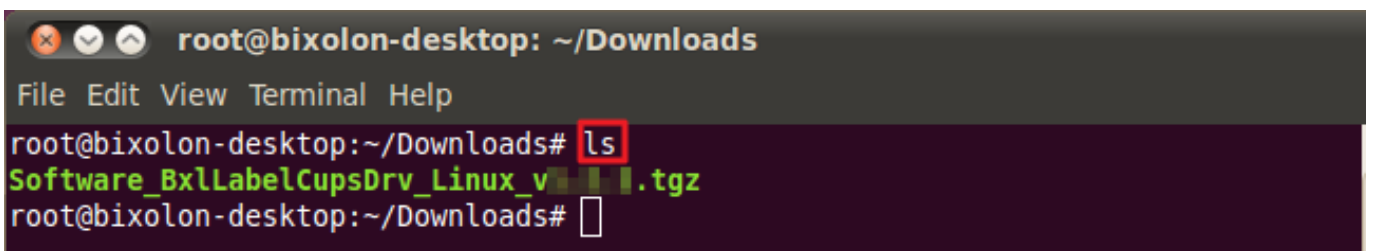
1. Search and execute the terminal program.



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

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

```
root@bixonon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.2.2
File Edit View Terminal Help
root@bixonon-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@bixonon-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@bixonon-desktop: ~/Downloads
File Edit View Terminal Help
root@bixonon-desktop:~/Downloads# uname -a
Linux bixonon-desktop 2.6.32-38-generic #83-Ubuntu SMP Wed Jan 4 11:12:07 UTC 2012 x86_64 GNU/Linux
root@bixonon-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@bixonon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1
File Edit View Terminal Help
root@bixonon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1# tar xvf Software_BxlLabelCupsDrv_Linux_v1.1.1_x64.tgz
```

8. 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# ls
Software_BxlLabelCupsDrv_Linux_v1.1.2 RaspberryPi.tgz Software_BxlLabelCupsDrv_Linux_v1.1.2 x64.tgz
Software_BxlLabelCupsDrv_Linux_v1.1.2 x64 Software_BxlLabelCupsDrv_Linux_v1.1.2 x86.tgz
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.2# cd Software_BxlLabelCupsDrv_Linux_v1.2.2 x64
```

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

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

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

```
root@bixelon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64
File Edit View Terminal Help
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64# sh setup_v1.1.1.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@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64#
```

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

```
root@bixelon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64
File Edit View Terminal Help
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_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_v1.1.1_x64
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64#
```

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

```
root@bixelon-desktop: ~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64
File Edit View Terminal Help
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_x64# ls /usr/share/cups/model/
Bixelon
root@bixelon-desktop:~/Downloads/Software_BxlLabelCupsDrv_Linux_v1.1.1/Software_BxlLabelCupsDrv_Linux_v1.1.1_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 is titled "Administration - CUPS 2.2.7 - Mozilla Firefox". The address bar shows "localhost:631/admin". The top navigation bar includes links for "CUPS.org", "Home", "Administration", "Classes", "Help", "Jobs", and "Printers". The "Administration" tab is selected. The main content area is divided into several sections:

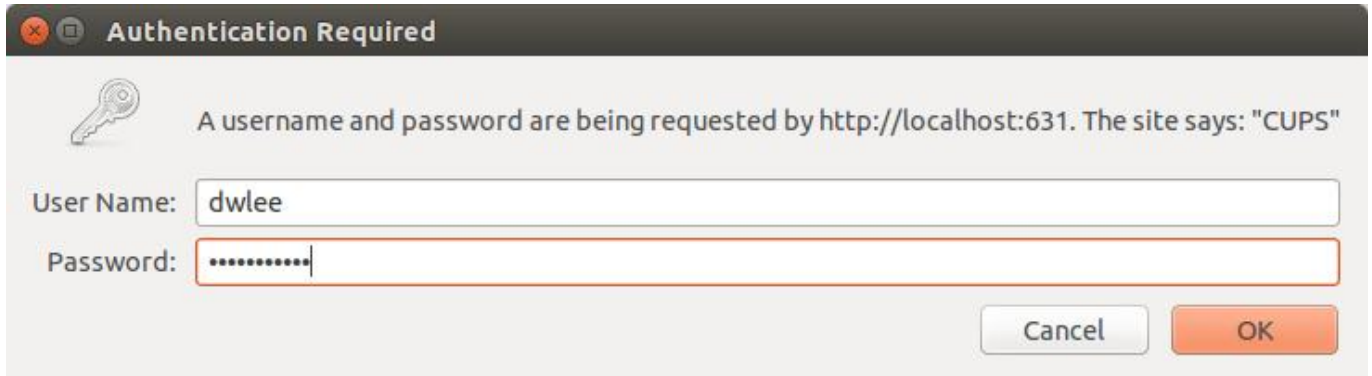
- Printers**: Contains buttons for "Add Printer", "Find New Printers", and "Manage Printers". The "Add Printer" button is highlighted with a red box.
- Classes**: Contains buttons for "Add Class" and "Manage Classes".
- Jobs**: Contains a button for "Manage Jobs".
- RSS Subscriptions**: Contains a button for "Add RSS Subscription".
- Server**: Contains buttons for "Edit Configuration File", "View Access Log", "View Error Log", and "View Page Log".
- Server Settings:** Includes a section for "Advanced" settings with checkboxes for:
 - Share printers connected to this system (unchecked)
 - Allow printing from the Internet (unchecked)
 - Allow remote administration (unchecked)
 - Use Kerberos authentication (FAQ) (unchecked)
 - Allow users to cancel any job (not just their own) (unchecked)
 - Save debugging information for troubleshooting (checked)A "Change Settings" button is located below these options.

At the bottom, there is a table for RSS Subscriptions:

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

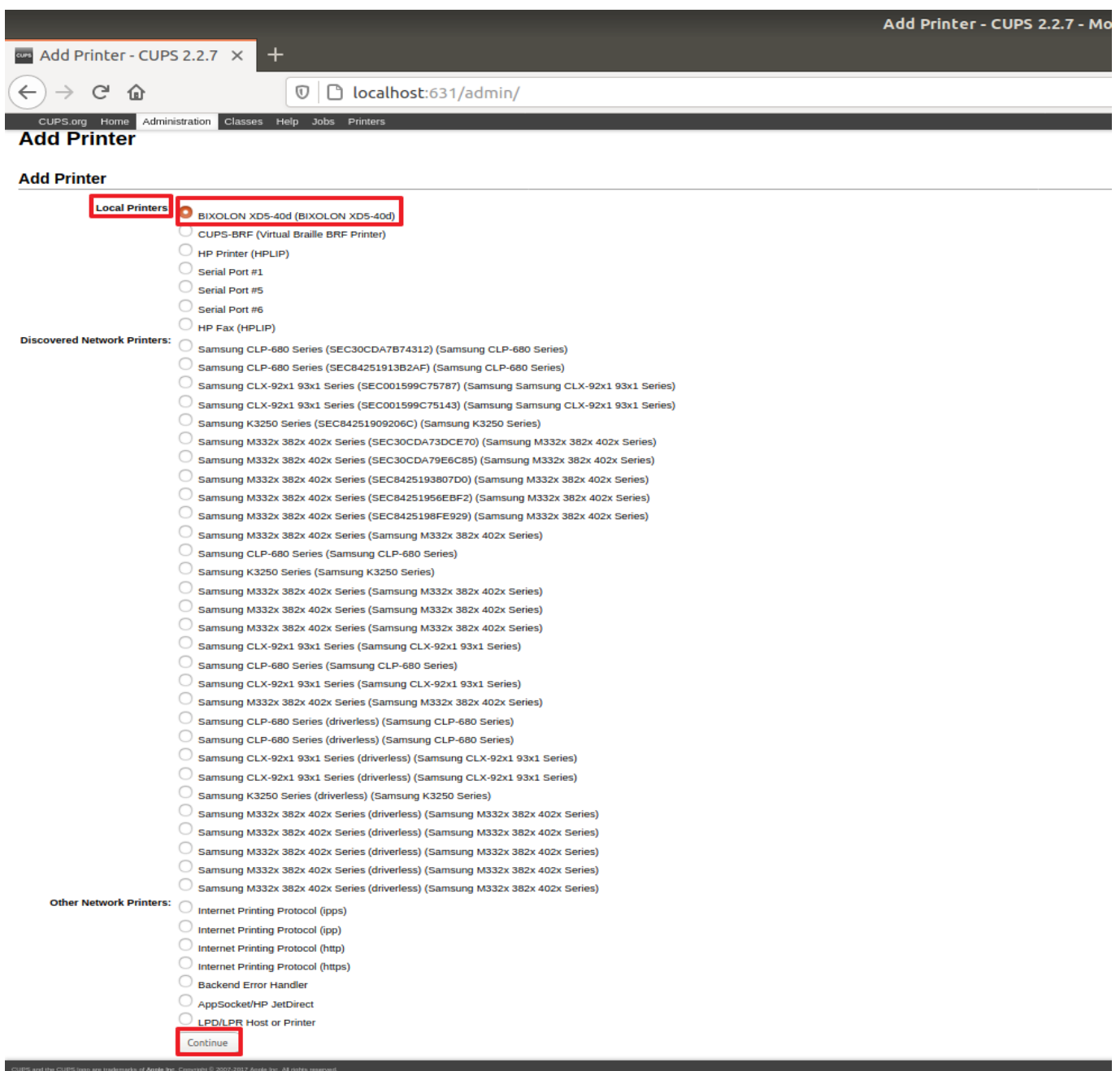
Below the table, there is a button for "Cancel RSS Subscription".

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



The image shows a dialog box titled "Authentication Required". It contains a key icon and the text: "A username and password are being requested by http://localhost:631. The site says: 'CUPS'". Below this, there are two input fields: "User Name:" with the text "dwlee" and "Password:" with a masked password "*****". At the bottom right, there are two buttons: "Cancel" and "OK".

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.



The image shows a web browser window titled "Add Printer - CUPS 2.2.7 - Mozilla". The address bar shows "localhost:631/admin/". The page has a navigation bar with links: "CUPS.org", "Home", "Administration", "Classes", "Help", "Jobs", and "Printers". The main heading is "Add Printer". Below this, there are three sections: "Local Printers", "Discovered Network Printers", and "Other Network Printers". In the "Local Printers" section, the "BIXOLON XD5-40d (BIXOLON XD5-40d)" printer is selected. In the "Other Network Printers" section, the "Continue" button is highlighted. The footer of the page contains the text: "CUPS and the CUPS logo are trademarks of Apple Inc. Copyright © 2001-2017 Apple Inc. All rights reserved."

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

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

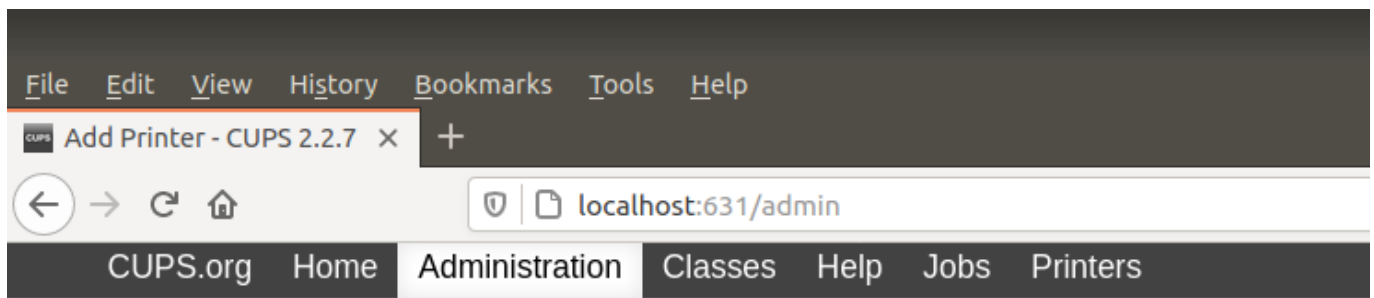
Description:
(Human-readable description such as "HP LaserJet with Duplexer")

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

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.

Add Printer

Name: BIXOLON_XD5-40d
Description: BIXOLON XD5-40d
Location:
Connection: usb:///BIXOLON/XD5-40d
Sharing: Do Not Share This Printer
Make: BIXOLON Select Another Make/Manufacturer
Model: Bixolon XD3-40d (en)
Bixolon XD3-40t (en)
Bixolon XD5-40d (en)
Bixolon XD5-40t (en)
Bixolon XD5-43d (en)
Bixolon XD5-43t (en)
Bixolon XL5-40CT (en)
Bixolon XL5-43CT (en)
Bixolon XM7-20 (en)
Bixolon XM7-40 (en)

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

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

Set Printer Options - CUPS X

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

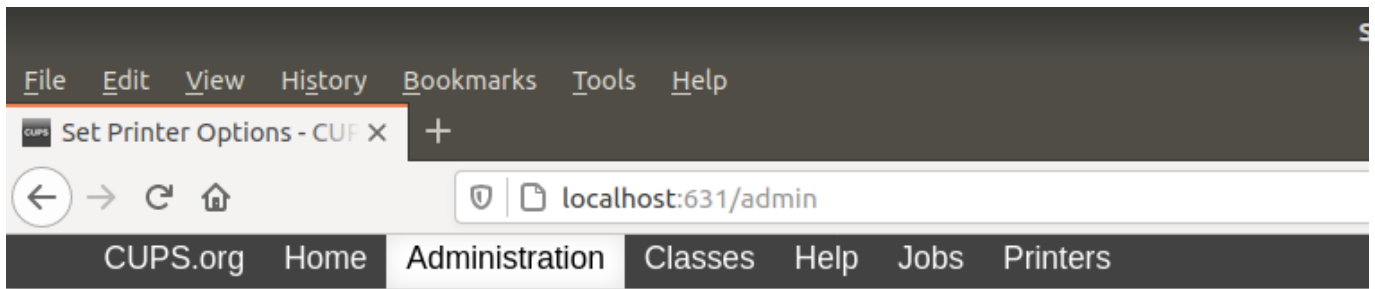
 **Note**

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: 1|

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”.

The screenshot shows a web browser window with the title "BIXOLON_XD5-40d - CUPS 2.2.7 - Mozilla Firefox". The address bar shows "localhost:631/printers/BIXOLON_XD5-40d". The page has a navigation bar with links: CUPS.org, Home, Administration, Classes, Help, Jobs, and Printers. The main heading is "BIXOLON_XD5-40d". Below it, the status is "BIXOLON_XD5-40d (Idle, Accepting Jobs, Not Shared)". There are two dropdown menus: "Maintenance" (highlighted with a red box) and "Administration". Below these, the following information is displayed: Description: BIXOLON XD5-40d, Location: Driver: Bixelon XD5-40d (grayscale), Connection: usb://BIXOLON/XD5-40d, and Defaults: job-sheets=none, none media=oe_51-x-101-d-6-mmy-152-d-4-mm_4x6in sides=one-sided. A section titled "Jobs" contains a search bar with the text "Search in BIXOLON_XD5-40d:" and buttons for "Search" and "Clear". Below the search bar are buttons for "Show Completed Jobs" and "Show All Jobs". At the bottom, a note states "Jobs listed in print order; held jobs appear first."

BIXOLON_XD5-40d - CUPS 2.2.7 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

BIXOLON_XD5-40d - CUPS

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:

Jobs listed in print order; held jobs appear first.

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In the following, product specifications and/or user manual content may be changed without prior notice.

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”.

Revision history

[illegible]