# CUPS driver installation

Target model of following explanation for CUPS driver installation is CMP-20.
Installation of CMP-30(ESC/POS) CUPS driver takes same steps except the file name.

1. Copy the driver file to proper location and extract it.
    Ex.   # tar –zxvf cmp20cupsinstall_x86_20081204.tar.gz

2. By extracting the file, "cmp20cupsinstall_x86" directory is automatically generated.
   Change directory to "cmp20cupsinstall_x86" using shell such as bash etc.
    Ex.   # cd cmp20cupsinstall_x86

3. Get the super user privilege by 'su' command etc.
   (Password for "root" is required for that.)

4. Input "make install" for the driver package file installation.
    If the installation is done successfully, the shown messages should be like followings.
        Example
        # make install
        cp ppd/*.gz install
        cd install; exec ./setup
        CITIZEN
        CITIZEN CUPS Driver 1.0.0 installation Start
        ---------------------------------------
        Models included:
        CMP-20
        Searching for ServerRoot, ServerBin, and DataDir tags in /etc/cups/cupsd.conf
        ServerBin tag is present as an absolute path
        DataDir tag is present as an absolute path
        ServerRoot = /etc/cups
        ServerBin = /usr/lib/cups
        DataDir = /usr/share/cups
        Copying rastertop21 filter to //usr/lib/cups/filter
        Copying Model PPD files to //usr/share/cups/model/CMP20
        Restarting CUPS
        Shutting down cupsd..done
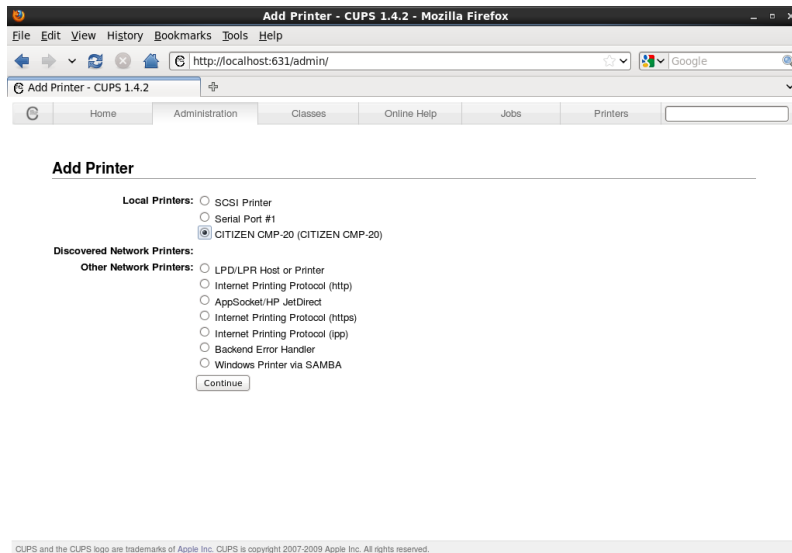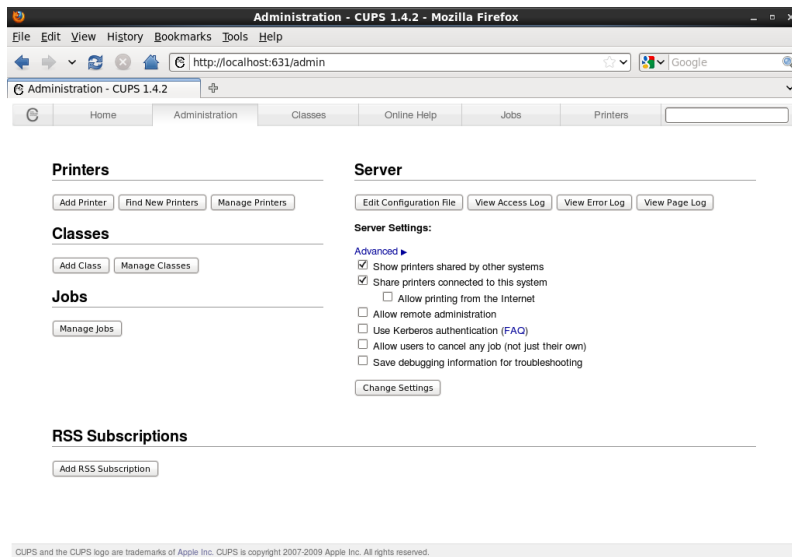        Starting cupsd..done
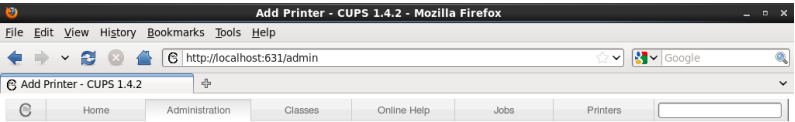        Install Complete

Then extract "CMP-20.ppd.gz" file and copy generated "CMP-20.ppd" file to
    /usr/share/cups/model
directory.


5. Add printer to CUPS by visiting http://127.0.0.1:631 on web browser or by CUPS tools.
User name and password for the administrator should be required.


Following captured screens are reference to add printer on the browser.

**Screenshot 1 — Add Printer - CUPS 1.4.2 - Mozilla Firefox**

File  Edit  View  History  Bookmarks  Tools  Help

http://localhost:631/admin

Add Printer - CUPS 1.4.2

Home | Administration | Classes | Online Help | Jobs | Printers

## Add Printer

**Name:** CITIZEN_CMP-20
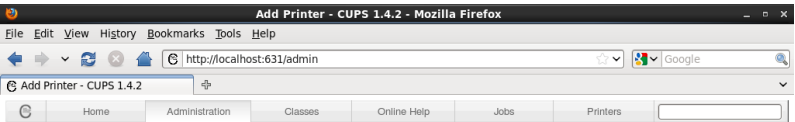(May contain any printable characters except "/", "#", and space)

**Description:** CITIZEN CMP-20
(Human-readable description such as "HP LaserJet with Duplexer")

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

**Connection:** usb://CITIZEN/CMP-20

**Sharing:** ☐ Share This Printer

[ Continue ]

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**Screenshot 2 — Add Printer - CUPS 1.4.2 - Mozilla Firefox**

File  Edit  View  History  Bookmarks  Tools  Help

http://localhost:631/admin

Add Printer - CUPS 1.4.2

Home | Administration | Classes | Online Help | Jobs | Printers

## Add Printer

**Name:** CITIZEN_CMP-20
**Description:** CITIZEN CMP-20
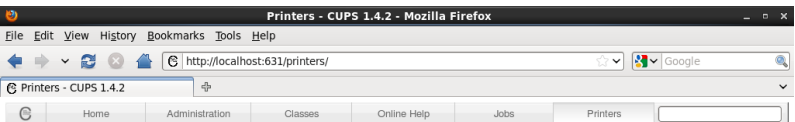**Location:**
**Connection:** usb://CITIZEN/CMP-20
**Sharing:** Do Not Share This Printer
**Make:** CITIZEN  [ Select Another Make/Manufacturer ]
**Model:**
CITIZEN CMP-20 Receipt Printer, 1.0 (en)
CITIZEN CMP-30 Receipt Printer, 1.0 (en)
Citizen printiva600C Foomatic/ppmtomd (en)
Citizen printiva600U Foomatic/ppmtomd (en)
Citizen printiva700 Foomatic/ppmtomd (en)
Citizen printiva1700 Foomatic/ppmtomd (en)
Citizen Projet II - CUPS+Gutenprint v5.2.5 (en)
Citizen Projet II - CUPS+Gutenprint v5.2.5 Simplified (en)
Citizen Projet II Foomatic/laserjet (en)
Citizen Projet IIc Foomatic/cdj500 (en)

**Or Provide a PPD File:** [ Browse... ]

[ Add Printer ]

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**Screenshot 3 — Printers - CUPS 1.4.2 - Mozilla Firefox**

File  Edit  View  History  Bookmarks  Tools  Help

http://localhost:631/printers/

Printers - CUPS 1.4.2

Home | Administration | Classes | Online Help | Jobs | Printers

**Search in Printers:** [ ] [ Search ] [ Clear ]

Showing 2 of 2 printers.

| ▼ Queue Name ▼ | Description | Location | Make and Model | Status |
|---|---|---|---|---|
| CITIZEN_CMP-20 | CITIZEN CMP-20 | Local Printer | CITIZEN CMP-20 Receipt Printer, 1.0 | Idle |
| CITIZEN_CMP-30 | CITIZEN CMP-30 | | CITIZEN CMP-30 Receipt Printer, 1.0 | Idle |

**Screenshot 1**

CITIZEN_CMP-20 - CUPS 1.4.2 - Mozilla Firefox

File  Edit  View  History  Bookmarks  Tools  Help

http://localhost:631/printers/CITIZEN_CMP-20

CITIZEN_CMP-20 - CUPS 1.4.2

Home | Administration | Classes | Online Help | Jobs | Printers

**CITIZEN_CMP-20 (Idle, Accepting Jobs, Shared)**

Maintenance | Administration

Maintenance
Print Test Page
Pause Printer
Reject Jobs
Move All Jobs
Cancel All Jobs

EN CMP-20
Printer
EN CMP-20 Receipt Printer, 1.0 (grayscale)
CITIZEN/CMP-20

Defaults: job-sheets=none, none media=adobe_48x297mm_47.9778x297.039mm

**Jobs**

Search in CITIZEN_CMP-20: [            ] [Search] [Clear]

[Show Completed Jobs] [Show All Jobs]

No jobs.

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**Screenshot 2**

CITIZEN_CMP-20 - CUPS 1.4.2 - Mozilla Firefox

File  Edit  View  History  Bookmarks  Tools  Help

http://localhost:631/printers/CITIZEN_CMP-20

CITIZEN_CMP-20 - CUPS 1.4.2

Home | Administration | Classes | Online Help | Jobs | Printers

**CITIZEN_CMP-20 (Idle, Accepting Jobs, Shared)**

Maintenance | Administration

Administration
Modify Printer
Delete Printer
Set Default Options
Set As Server Default
Set Allowed Users

Description: CITIZ
Location: Local
Driver: CITIZ              er, 1.0 (grayscale)
Connection: usb://(

Defaults: job-sheets=none, none media=adobe_48x297mm_47.9778x297.039mm

**Jobs**

Search in CITIZEN_CMP-20: [            ] [Search] [Clear]

[Show Completed Jobs] [Show All Jobs]

No jobs.

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**Screenshot 3**

Set Printer Options - CUPS 1.4.2 - Mozilla Firefox

File  Edit  View  History  Bookmarks  Tools  Help

http://localhost:631/admin/#General

Set Printer Options - CUPS 1.4.2

Home | Administration | Classes | Online Help | Jobs | Printers

**Set Default Options for CITIZEN_CMP-20**

General    CMP-20 Printing Area Selection Options    Banners    Policies

**General**

Media Size: [48x297mm]
Color Mode: [Grayscale]
Resolution: [203x203 DPI]
Media Type: [Automatic Selection]

Automatic Selection
Report[Partial Cut]
Report[No Cut]
Report[No Feed]
Form[No Cut]
Form[Partial Cut]

[Set Defau...]

Reference

CUPS driver generates print data as graphic data.

Therefore, print data size is large and transaction time for the printing takes longer time.

If the interface is slow serial interface, the time for data transferring is too long and it may not be practical.