

Printing on a PSi Laserprinter using the CUPS System

SECTION 1: Adding a custom paper format to the PPD

Open the **psi_laserprinter_new.ppd** with a text editor. The PPD contains the following default section where custom paper formats must be added to

```

*%-----
*%               Begin Custom Paper Definitions
*%
*%   Use "cupssize" to autogenerate custom papers
*%-----
*OpenUI *PageSize: PickOne
*OrderDependency: 10 AnySetup *PageSize
*DefaultPageSize: A4
*PageSize A4/A4 Fanfold: "<</PageSize[594 864]/ImagingBBox null>>setpagedevice"
*PageSize 8.5x12/8.5x12 inch: "<</PageSize[612 864]/ImagingBBox null>>setpagedevice"
*PageSize 14x12/14x12 inch: "<</PageSize[1008 864]/ImagingBBox null>>setpagedevice"
*CloseUI: *PageSize
*OpenUI *PageRegion: PickOne
*OrderDependency: 10 AnySetup *PageRegion
*DefaultPageRegion: A4
*PageRegion A4/A4 Fanfold: "<</PageRegion[594 864]/ImagingBBox null>>setpagedevice"
*PageRegion 8.5x12/8.5x12 inch: "<</PageRegion[612 864]/ImagingBBox null>>setpagedevice"
*PageRegion 14x12/14x12 inch: "<</PageRegion[1008 864]/ImagingBBox null>>setpagedevice"
*CloseUI: *PageRegion
*DefaultImageableArea: A4
*ImageableArea A4/A4 Fanfold: "0.00 0.00 594.00 864.00"
*ImageableArea 8.5x12/8.5x12 inch: "0.00 0.00 612.00 864.00"
*ImageableArea 14x12/14x12 inch: "0.00 0.00 1008.00 864.00"
*DefaultPaperDimension: A4
*PaperDimension A4/A4 Fanfold: "594.00 864.00"
*PaperDimension 8.5x12/8.5x12 inch: "612.00 864.00"
*PaperDimension 14x12/14x12 inch: "1008.00 864.00"
*%-----
*%               End Custom Paper Definitions
*%
*%   Use "cupssize.exe" with Windows or "cupssize" on Linux
*%   to autogenerate custom paper formats

```

On a MS-Windows PC start **cupssize.exe**.

CUPS Custom Format Creator

Druckbreite/Imagewidth	Seitenlänge/Pagelength
8.25	12
Kurzname / Short Name	Beschreibung/Description
A4e	A4 Fanfold

Berechnen / Calculate

Description

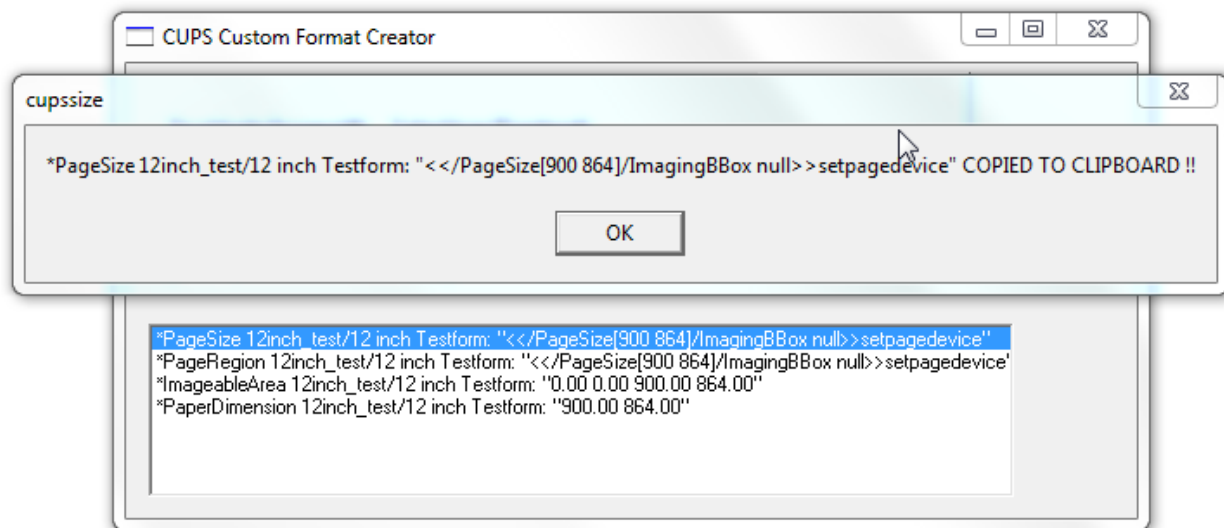
Imagewidth : printable width of the paper excluding remeliner

Pagelength : the length of a single page

Short Name: a short description of the form you want to generate (no blanks!)

Description : the long description of the form

If the settings are all done press the **Calculate** button



by double click on the first list entry and confirming with **OK** button the text line will be copied to the clipboard. Switch to the ppd and paste the new line after the last entry of **PageSize**

```
*PageSize A4/A4 Fanfold: "<</PageSize[594 864]/ImagingBBox null>>setpagedevice"
*PageSize 8.5x12/8.5x12 inch: "<</PageSize[612 864]/ImagingBBox null>>setpagedevice"
*PageSize 14x12/14x12 inch: "<</PageSize[1008 864]/ImagingBBox null>>setpagedevice"
*PageSize 12inch_test/12 inch Testform: "<</PageSize[900 864]/ImagingBBox null>>setpagedevice"
*CloseUI: *PageSize
```

Repeat these steps also for **PageRegion**, **ImageableArea** and **Paper Dimension**. The PPD section should afterwards look like this

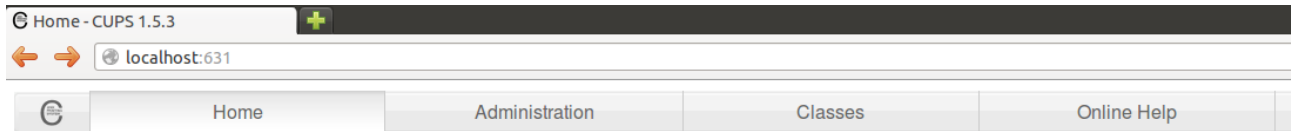
```
*OpenUI *PageSize: PickOne
*OrderDependency: 10 AnySetup *PageSize
*DefaultPageSize: A4
*PageSize A4/A4 Fanfold: "<</PageSize[594 864]/ImagingBBox null>>setpagedevice"
*PageSize 8.5x12/8.5x12 inch: "<</PageSize[612 864]/ImagingBBox null>>setpagedevice"
*PageSize 14x12/14x12 inch: "<</PageSize[1008 864]/ImagingBBox null>>setpagedevice"
*PageSize 12inch_test/12 inch Testform: "<</PageSize[900 864]/ImagingBBox null>>setpagedevice"
*CloseUI: *PageSize
*OpenUI *PageRegion: PickOne
*OrderDependency: 10 AnySetup *PageRegion
*DefaultPageRegion: A4
*PageRegion A4/A4 Fanfold: "<</PageSize[594 864]/ImagingBBox null>>setpagedevice"
*PageRegion 8.5x12/8.5x12 inch: "<</PageSize[612 864]/ImagingBBox null>>setpagedevice"
*PageRegion 14x12/14x12 inch: "<</PageSize[1008 864]/ImagingBBox null>>setpagedevice"
*PageRegion 12inch_test/12 inch Testform: "<</PageSize[900 864]/ImagingBBox null>>setpagedevice"
*CloseUI: *PageRegion
*DefaultImageableArea: A4
*ImageableArea A4/A4 Fanfold: "0.00 0.00 594.00 864.00"
*ImageableArea 8.5x12/8.5x12 inch: "0.00 0.00 612.00 864.00"
*ImageableArea 14x12/14x12 inch: "0.00 0.00 1008.00 864.00"
*ImageableArea 12inch_test/12 inch Testform: "0.00 0.00 900.00 864.00"
*DefaultPaperDimension: A4
*PaperDimension A4/A4 Fanfold: "594.00 864.00"
*PaperDimension 8.5x12/8.5x12 inch: "612.00 864.00"
*PaperDimension 14x12/14x12 inch: "1008.00 864.00"
*PaperDimension 12inch_test/12 inch Testform: "900.00 864.00"
```

Save the PPD to install it

SECTION 2: Installing the printer driver

The CUPS (Common Unix Printing System) must be fully installed.

Open a webbrowser (e.g. Firefox) and enter **localhost:631** to enter the CUPS administration panel. Choose **Adding Printers and Classes**



CUPS 1.5.3

CUPS is the standards-based, open source printing system developed by [Apple Inc.](#) for Mac OS® X and other UNIX®-like operating systems.

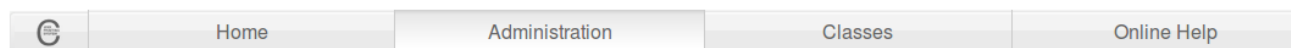
CUPS for Users

[Overview of CUPS](#)
[Command-Line Printing and Options](#)
[What's New in CUPS 1.5](#)
[User Forum](#)

CUPS for Administrators

[Adding Printers and Classes](#)
[Managing Operation Policies](#)
[Printer Accounting Basics](#)
[Server Security](#)
[Using Kerberos Authentication](#)
[Using Network Printers](#)
[cupsd.conf Reference](#)
[Find Printer Drivers](#)

...choose **Add Printer**



Printers

[Add Printer](#) [Find New Printers](#) [Manage Printers](#)

Classes

[Add Class](#) [Manage Classes](#)

Jobs

[Manage Jobs](#)

Server

[Edit Configuration File](#) [View Account](#)

Server Settings:

Advanced ▶

- ☐ Show printers shared by other s
- ☐ Share printers connected to this
 - ☐ Allow printing from the Inter
- ☐ Allow remote administration
- ☐ Use Kerberos authentication (F/
- ☐ Allow users to cancel any job (n
- ☐ Save debugging information for

[Change Settings](#)

RSS Subscriptions

[Add RSS Subscription](#)

...choose **AppSocket/HP JetDirect** and press **Continue**

Add Printer

Local Printers: ☐ LPT #1
☐ HP Printer (HPLIP)
☐ HP Fax (HPLIP)

Discovered Network Printers:

Other Network Printers: ☐ Internet Printing Protocol (ipp)
☐ Internet Printing Protocol (ipp14)
☐ Internet Printing Protocol (ipp)
☒ **AppSocket/HP JetDirect**
☐ Internet Printing Protocol (https)
☐ Internet Printing Protocol (http)
☐ LPD/LPR Host or Printer
☐ Windows Printer via SAMBA
☐ Backend Error Handler
☐ ThinPrint Printer for VMware
☐ ThinPrint Gateway Printer for VMware

Enter **socket://IP_of_Printer:9100** in the **Connection** field where **IP_of_Printer** represents the actual network address of your PSi laser printer. Press **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.

Provide printer name and additional descriptions

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")

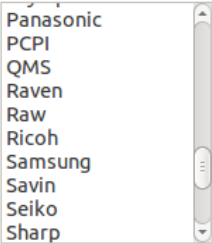
Connection: socket://172.20.11.23:9100


Sharing: ☐ Share This Printer



...**Browse** for the PSi device driver PPD and press **Add Printer**

Add Printer

Name: PP4060_CS
Description: Printer in Customer Support
Location: CS
Connection: socket://172.20.11.23:9100
Sharing: Do Not Share This Printer

Make: 



Or Provide a PPD File:  psi_laserprinter_new.ppd


1 points to the **Browse...** button.
2 points to the **Add Printer** button.


Make sure to use the correct resolution for your printer as 600dpi is only provided with printer model PP 3034 !

Administration	Classes	Online Help	
----------------	---------	-------------	--


s for PP4060_CS

olicies

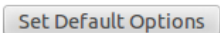
General

Media Size: A4 Fanfold 

Profile Selection: Profile 1 

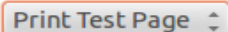
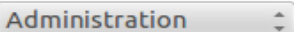
Resolution: 300 DPI 

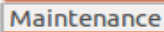

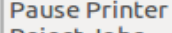
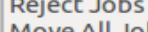
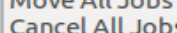
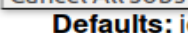
Smoothing: ☐ Off ☒ On



...select **Maintenance** and **Print Test Page** to check installation

PP4060_CS (Idle, Accepting Jobs, Not Shared)

Printer in Customer Support

Laserprinter Driver PCL5e, 1.1 (color, 2-sided printing)

socket://172.20.11.23:9100

Defaults: job-sheets=none, none media=iso_a4_210x297mm sides=one-sided