Guideline GL35 –

CUPS Driver Installation Procedure

Abstract:

This Document describes how to install drivers, especially PPD files and filters, for Konica Minolta output devices for use with the Common Unix Printing System (CUPS). Both, automatic installation with the provided install script and manual installation, is covered here.

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Conventions used in this Document

In this Document several conventions for Source Code, Filenames, Application names, Commands and user input are used:

```
Source Code is printed like this. Default terms in source code
examples, which has to be adapted by users, are printed the same
but in brackets, like [this]
```

Filenames are printed like this.

Commands are printed like this.

Commands that have to be executed as root are preceded by an #.

Commands that can be executed as user are preceded by an $.

Application names are printed like this.

In this Document the word 'driver' is used as a summarizing term for PPD files, a set of a PPD file and a filter or other driver related files. It is used whenever the exact type of driver does not matter.

Automatic Installation

Most Konica Minolta driver package for CUPS comes with a install script. This script will install all needed files. To use the install script and the filter a working Perl interpreter has to be installed. The interpreter binaries are considered to be installed as /usr/bin/perl. This is the default location on most systems. If it is installed in another location on your system, please adapt the first line of the install script to fit your needs. Several settings, such as directory and path names are parsed out of the file /etc/cups/cupsd.conf directly by the install script. If the cupsd.conf file is in a different location please specify the location when executing the install script.

1. Extract the driver package

   To extract the driver package open a terminal, such as **xterm** or the **KDE terminal.**

   Extract the package with the command:

   `$ tar -xvzf [package.tgz]`

2. Call installation script (root privileges are needed here)

   Inside the new directory execute the command:

   `# ./install.pl`   In some older driver packages use the command   **`# ./install`**

   If the cupsd.conf file is in a different location please specify it

   `# ./install.pl /here/and/there/cupsd.conf`

   If the cupsd.conf file has a different name please specify it

   `# ./install.pl /here/and/there/cups_configuration`

3. Restart the CUPS server (root privileges are needed here)

   Restart the CUPS server with the command:

   `# /etc/init.d/cups restart`   or   **`# /etc/init.d/cupsys restart`**

   This command might vary depending on the Linux distribution you are using

4. Driver installation finished

   The driver installation is finished. You can now install printers with the CUPS web interface or your preferred CUPS `printer administration tool.`

Manual Installation

The files provided with the CUPS driver package can also be installed manually. It is not enough to install the PPD files only, you also have to install the filter to use the KM specific functions of the driver.

A. Install the PPD file

Installation of the PPD file is working correspondent to any other PPD file.

1. Extract the driver package

   To extract the driver package open a terminal, such as xterm or the KDE terminal.

   Extract the package with the command:

   $ tar -xvzf [package.tgz]

2. Copy the PPD files to the CUPS PPD directory

   Mostly this directory is **/usr/share/cups/model**

   or **/usr/share/ppd/custom**

   or **/usr/share/foomatic/db/source/PPD/Custom/**

   Otherwise you have to look up the path in the CUPS configuration file

   /etc/cups/cupsd.conf.

   Here you can find the location of the **DataDir**.

   Inside that directory you will find the directory model.

   After copying make sure the file is set with the correct access rights 644.

B. Install the filter

You need to have root privileges to copy the filters into that directory.

By default the correct directory is **/usr/lib/cups/filter**.

Otherwise you have to look up the path in the CUPS configuration file

/etc/cups/cupsd.conf.

Here you can find the location of the **ServerBin**.

Inside that directory you will find the directory filter.

After copying make sure the file is set with correct access rights 755.

C. Restart CUPS

(root privileges are needed here)

Restart the CUPS server with the command:

 # /etc/init.d/cups restart

or

 # /etc/init.d/cupsys restart

This command might vary depending on the Linux distribution you are using

The driver installation is finished. You can now install printers with the

CUPS web interface or your preferred CUPS printer administration tool.