

LINUX CUPS DRIVER User Guide

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Giving Shape to Ideas

Linux CUPS Driver

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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 and folder names are printed like this.

Commands are printed like this.

Commands that have to be executed as root are preceded by a '#' character. Commands that can be executed as user are preceded by a '\$' character.

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.

Description

This document describes the features, requirements and restriction of the Konica Minolta drivers for use. It also contains the installation instructions.

The KONICA MINOLTA BEU CUPS Driver that comes with this package will provide security related features like Secure Print, Authentication, etc...

The driver consists of PPD files for each product and a Perl based filter. The PPDs will use custom input fields to allow the user to enter username, password, etc. as free text.

The PPD files are designed as Multilanguage versions. The language will follow the "locale settings" of the system or application. If the language is not included in the PPD, English will be used as default. Currently supported languages: English, French, Italian, German and Spanish

Print dialog with custom inputs:

Print							
General Page Setur	D Text Editor Job	Color	Advanced				
Output Method							
Output Method:	Secure Print		~		_		
Secure Print ID:	Secure Print ID: secid						
Secure Print Passwo	ord: ••••		~				
Box Number:	None		~				
File Name:	File Name: None				I		
Account Track							
Account Track			••••				
Department Code:	Department Code: None						
Password:	••••	~					
User Authentication							
		Print P	Preview	Cancel	Print		

Features

- Secure Print
- BoxPrint
- ID&Print
- SafeQ (support for using different user name)
- Authentication
- PSES Authentication
- AccountTrack
- CopySecurity
- Date/Time Stamp
- Page Number Stamp
- page logging in CUPS

Requirements

- Common Unix Printing System (CUPS) version 1.3 or higher
- Perl Interpreter (in most Linux distributions already installed by default)

Restrictions

Custom input fields are not supported by all applications. Most GTK Applications can handle it, whereas for example OpenOffice has its own printer settings dialog which does not support custom inputs. A workaround for these cases is described later in this document.

Installation

Restart the CUPS server

During the installation it will be necessary to 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
or
# service cups restart
or
# /etc/rc.d/rc.cups restart
```

This command might vary depending on the Linux distribution used.

Automatic Installation

This Konica Minolta driver package for CUPS contains an install script for automatic installation. This script will install all needed files, PPD files and the filter, to the designated CUPS folders and applies the required permissions. 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/cups-files.conf* or */etc/cups/cupsd.conf* directly by the install script.

- 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]
- Call installation script (root privileges are needed here) Inside the new directory execute the command: # ./install.pl
- 3. Restart the CUPS server See "Restart the CUPS server"
- Driver installation finished The driver installation is finished. Printers can now be installed using the CUPS web interface or any 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 only the PPD files, also installation of the filter is necessary 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.

- 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]
- Copy the PPD files to the CUPS PPD directory The default folder on most Linux distributions is /usr/share/cups/model In some distributions following folders may be used /usr/share/ppd/custom or

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

Otherwise the path can be found in CUPS configuration file */etc/cups/cups-files.conf* or */etc/cups/cupsd.conf* The DataDir directive will point to a location, where to find a sub folder the model files.

After copying make sure the permissions of the files are set to 644.

B. Install the filter

Root privileges are required to copy the filter files (*KMbeuEmpPS.pl* and *KMbeuEnc.pm*). The default folder on most Linux distributions is /usr/lib/cups/filter.

Otherwise the path can be found in CUPS configuration file */etc/cups/cups-files.conf* or */etc/cups/cupsd.conf* The ServerBin directive will point to a location, where to find a sub folder for the filter files.

After copying make sure the permissions of the files are set to 755.

C. Restart CUPS

See "Restart the CUPS server"

The driver installation is finished. Printers can now be installed using the CUPS web interface or any CUPS printer administration tool.

Add printer to CUPS

After the driver has been installed and CUPS has been restarted, a printer can be added to the system. The correct PPD files of this driver package can be identified by the "BEU" in the model name.

-			A	dd Printer – CU	IPS 1.5.3 - Icewea	sel			-	• ×
lcew	/easel 🗸	🖲 Add Printer - CU	PS 1.5.3	*						~
Seo	C lo	calhost:631/admin		v		☆ ~ @	⊡ ▼ Google	Q) 🍙	N
(9	Home Adm	inistration	Classes	Online Help	Jobs	Printers	Search Help		
]										
	Ad	d Printer								
		Name:	C364							
		Description:	0001							
		Location:								
		Connection:	socket://XXXXX	X:9100						
		Sharing:	Do Not Share ⁻	This Printer						
		Make:	KONICA MINC	LTA Select A	nother Make/Manuf	acturer				
		Model:	KONICA MINC	LTA 652/6025e	riesPS(PLBEU v1.0	(en, fr, it, de, es)	^			
			KONICA MINO	LTA 750/600 P	S(P) (en)					
			KONICA MINO	LTA 1050 PS(P) (en)		=			
			KONICA MINO	LTA bizhub C35	5 PPD BEU v1.0 (en,	fr, it, de, es)				
			KONICA MINO	LTA C250 PS(P) (en)					
	KONICA MINOLTA C252 PS(P) (en)									
			KONICA MINO	LTA C352/C30	0 PS(P) (en)					
			KONICA MINO	LTA C360Serie	sPS(P) BEU v1.0 (en	, fr, it, de, es)				
			KONICA MINO	LTA C364Serie	sPS(P) BEU v1.0 (en	, fr, it, de, es)	~			
	Or	Provide a PPD File:			Browse					
			Add Printer							
CUF	PS and th	e CUPS logo are tradema	arks of Apple Inc. (CUPS is copyright 2	2007-2012 Apple Inc. A	Il rights reserved.				

Updating previously installed driver package

Updating the previously installed drivers requires following steps:

Install the PPD files and filter to its destination folder following the "Restart the CUPS server

During the installation it will be necessary to 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
or
service cups restart
or
/etc/rc.d/rc.cups restart

This command might vary depending on the Linux distribution used.

1. Automatic Installation" or "Manual Installation" procedure above (confirm the overwriting of existing files)

Restart CUPS if not already done (See "Restart the CUPS server")

 Update already installed printers if necessary, to use a new installed PPD. (e.g. using CUPS web interface >> Administration >> Modify Printer)

Un-installing driver package

To remove the driver package from the system, perform following steps:

- Delete installed printers which using the driver package.
 (e.g. using CUPS web interface >> Administration >> Delete Printer)
- Delete the PPD files from the CUPS PPD directory The default folder on most Linux distributions is */usr/share/cups/model* The PDDs from the driver package are named "*KMbeu ... ux.ppd*" or "*beu ... ux.ppd*"
- Delete the filter file from the CUPS filter directory (root privileges are needed) The default folder on most Linux distributions is /usr/lib/cups/filter. The filter file from the driver package is named "KMbeuEmpPS.pl"
- 3. Restart CUPS See "Restart the CUPS server"

Printer Driver Encryption

With the Linux driver, password data for Authentication, Account Track and Secure Print will be embedded in the print data as clear text. The default encryption passphrase is not published, so we cannot use it for the Linux driver. With the printer driver encryption function, the passwords will be encrypted using a custom passphrase to generate the encryption key.

As of today, only the A3 devices support the use of a custom passphrase.

For devices that support printer driver encryption, the function can be enabled in print dialog or set within the default options. The passphrase must be 20 characters in length.

	Print							
General Page Setup Options Job Advanced								
Page Number Stamp	Page Number Stamp							
Page Number								
Starting Page:	1	~						
Starting Page Number:	1	~						
Cove Mode:	Print on Front and Back Cover	r 🗸						
Text Color:	Black	~						
Print Position:	Top Left	×						
Printer Driver Encryption								
Driver Encryption								
Encryption Passphrase:	···· ·							
		Cancel Print						

Note: When using the settings file as described in workaround 1, the same passphrase will be applied to all printers which support driver encryption.

The custom passphrase must also be enabled within the device. The settings can be found here: Utility >> Administrator Settings >> Security Settings >> Driver Encryption Password Settings

Dealmont	To change the encryption passphrase of the printer driver, select lUser Specified, and then set the encryption passphrase.	Use the keyboard to enter the new encryption passphrase. For continuation the encryption passphrase must be entered twice. Press lue (c) key to clear the encryption passphrase.
BUUKIIdrk	Administrator Settings > Security Settings > Driver Password Encryption Setting	Administrator Settings > Driver Password Encryption Settings > Encryption Passphrase
Display Keypad	User-Defined Use Factory Default	E E E E E E E E E E E E E E E E E E E
Utility		Encryption Pass- Phrase Confirmation
+		← → Pete Alt6r
Settings		1 2 3 4 5 6 7 8 9 0 - = `
+	Encryption	q w e r t y u i o p []
Security Settings		
+		
Driver Password		\ z x c v b n m , . /
Setting		Shift
	26/08/2015 14:03 Cancel OK	26/08/2015 14:03 @A Enlarge Cancel OK

enera	ai Snaring	Ports Adv	anced Color Ma	nagement Se	ecunty L	Jevice Settings	conigure	Settings		
6	C364/C364	le		Bunn	Device	Option				
					Model Functio Paper S Finisher Punch Punch Post In:	n Version Source Unit Source Unit(LCT Unit Z-Fold Unit serter)		C364/C364e Version6/7/8/9 None FS-534 PK-520 (2/4 None None	4 III +
	aper Trav In	formation				000 // 000 /0				
ſ	Tray	Size	Direction	Paper Typ	e					*
-	Tray1	A4	LEF	Plain Paper						=
	Tray2	A3	SEF	Plain Paper						
	Tray3	Unknown	🗅 Unknown	Unknown						
	Tray4	Unknown	🗅 Unknown	Unknown						Ŧ
	Paper Tra	ay Settings	Set Paper	Name by User						
			Encryption	n Passphrase		Software	Tools			
	Obtain Dev	ice Information	••••••	•••••		Web Co	nnection			•
ſ	Obtain	Settings	.	•••••	••••				Start	

	Administrator Settings	
User	Authentication/Account Track	
Рор	oup Authentication Dialog when printing	
	User Authentication	
	Account Track	
	Secure Print	
Encry	ption Passphrase	
	Encryption Passphrase:	
User	Authentication Server Settings	
Enh	nanced Server:	
	(
2.111	Off	*
Lini	Off	•
	Off	<u> </u>
	Off	<u> </u>
	Off	<u> </u>
	Cancel	OK OK

Security Considerations

With the printer driver encryption setting, the passwords used for Authentication, Account Track and Secure Print will be encrypted before they are embedded in the print data. This does not secure the print data itself and it is still be possible to capture and read the print data (e.g. using a network sniffer).

For secure transport it is recommended to use a secure printing protocol (IPP over SSL) or secure the whole communication with the printer by using IPsec.

When using the same devices with other OS, also those printer drivers need to be configured to use the custom encryption passphrase. Otherwise printing may fail as these drivers use the "Factory Default" passphrase.

Workaround

... for applications that do not support custom input fields in their printer driver dialog.

Workaround 1

The filter contains additional code to read from a settings file named *KMdrv.txt* which is located in the user's home folder. It is expected that the home folder name matches the username which is transferred to CUPS.

To enable this function the filter (*KMbeuEmpPS.pl*) needs to be modified. Following lines need to be changed and verified: # my \$usesettingsfile=1;

my \$homefolderspath="/home";

Within the settings file following settings can be defined:

- OutputMethod
- SecurePrintID
- SecurePrintPassword
- BoxNumber
- BoxFileName
- SafeQUser
- AccountTrack
 - DepartmentCode
 - AccountPassword
- Authentication
 - AuthenticationUsername
 - AuthenticationPassword

The settings file is an ASCII text file, which contains lines for each setting in the format: option=value

For example: to enable Secure Print, with Secure Print ID=secid and password=pass the settings file has to contain these lines.

```
OutputMethod=Secure
SecurePrintID=secid
SecurePrintPassword=pass
```

Or alternative the output method can be selected in the print dialog, and then only the SecurePrintID and SecurePrintPassword are required to be defined in the file.

A sample settings file *KMdrv.txt* listing all possible parameters is included in this driver package.



Attention!

If this function is enabled and the settings file exists in the user's home folder, the settings from that file will override the settings made in the printer dialog. These settings will be applied to all printers that use the filter from this driver package.

After modifying the filter file, it might be necessary to restart the CUPS demon (See "Restart the CUPS server").

Limitations:

Not all Linux distributions or Cups versions allow the filter to access external files. So in some cases the workaround will not work.

This workaround cannot be used with printers shared from another Linux Cups system.

Workaround 2

Modify the PPD file for each printer and add the required value as additional parameter. Depending on the syntax, the additional parameters will be shown different in the printer dialog. The PPD files for the installed printers are located by default in the folder /etc/cups/PPD

```
*KMSecID [SecurePrint ID]/[Displayed Text]: " "
```

This will show the [Displayed Text] in the print dialog, but will use [SecurePrint ID] as value for the filter. This syntax can be used if the real value should be hidden in the print dialog, e.g. for setting passwords in PPD file.

*KMSecID [SecurePrint ID]: " "

This will use the [SecurePrint ID] for display in the print dialog and as value for the filter. With this syntax, the used value is also the text displayed in the print dialog.

Following sample code shows the additional added parameters (lines in red colour) for individual Secure Print ID and password:

```
* % _____
*% Secure Print ID
*OpenUI *KMSecID/Secure Print ID: PickOne
*OrderDependency: 10 AnySetup *KMSecID
*DefaultKMSecID: None
*KMSecID None: " "
*KMSecID secid/private: " "
*CloseUI: *KMSecID
*% Custom PostScript KMSecID option
*CustomKMSecID True: " "
*ParamCustomKMSecID Username: 1 string 1 16
*% Secure Print password
* 8 _____
*OpenUI *KMSecPass/Secure Print Password: PickOne
*OrderDependency: 10 AnySetup *KMSecPass
*DefaultKMSecPass: None
*KMSecPass None: " "
*KMSecPass pass/private: " "
*CloseUI: *KMSecPass
*% Custom PostScript KMSecPass option
*CustomKMSecPass True: " "
*ParamCustomKMSecPass Password: 1 password 1 8
```

After modifying the PPD, it might be necessary to restart the CUPS demon (See "Restart the CUPS server").

0 \$

٢

<u>O</u>K <u>C</u>ancel

Print dialog from OpenOffice:

	Properties of C364e			Properties	of C364e
Paper Device			Paper Device		
Option Screen (Graphic) Smoothing (Graphic) Toper Save	Current <u>v</u> alue None private	_	Option Edge Enhancement Output Method Secure Print ID	~	Current <u>v</u> alue None secid
Edge Enhancement Output Method Secure Print ID			Secure Print Password Box Number File Name		
Secure Print Password Box Number File Name Account Track	1		Account Track Department Code Password User Authentication	Ξ	
Department Code Password User Authentication	v		Username Password Copy Security		
Printer <u>L</u> anguage type	PDF	\$	Printer <u>L</u> anguage type		PDF
<u>C</u> olor	from driver	0	<u>C</u> olor		from driver
Color <u>d</u> epth	24 Bit	\$	Color <u>d</u> epth		24 Bit
	<u>о</u> к	<u>C</u> ancel			
Added parameter: *KMSecID secid/	private: " "		*KMSecID secid:	: " "	

In both cases "secid" will be the value used as SecurePrint ID, but the displayed text is different.

Comparison Workaround 1 and 2

Workaround 1	Workaround 2
Setting will be applied to printers using this driver	Setting is only available for to modified printer PPD needs to be modified for each printer.
Individual settings for each user.	Changes made in the PPD are available for all users.
Selections in the print dialog have no influence on the settings defined in the setting file.	The customer can select among the different parameters/values defined in the PPD.
Easy to handle, each user can modify the settings file and define its own values.	For normal user it is difficult to make the changes in the PPD, also root credentials are required for the change.
Some Linux distributions or Cups versions do not support reading from a file. So this workaround cannot be used.	
This workaround only works in local environment not in client-print server environment.	

Supported Products

Konica Minolta:

- bizhub 423 series (223/283/423/283)
- bizhub 652 series (652/602/552/502)
- bizhub 554e series (554e/454e/364e/284e/224e)
- bizhub 754 series (754/654/754e/654e)
- bizhub 958 series (367/287/227/958/808/758)
- bizhub C360 series (C220/C280/C360)
- bizhub C652 series (C652/C602/C552/C502)
- bizhub C364 series (C224/C284/C364/C224e/C284e/C364e)
- bizhub C554 series (C554/C454/C554e/C454e)
- bizhub C754 series (C754/C654/C754e/C654e)
- bizhub C368 series (C368/C308/C258/C287/C227)
- bizhub C3850 series (C3350/C3850)
- bizhub 4750 series (4050/4750)

- bizhub C35 (only with special firmware)

Generic:

- 42BW-4 series (22BW-4/28BW-4/42BW-4/28BW-4)
- 65BW-3 series (65BW-3/60BW-3/55BW-3/50BW-3)
- 55BW-5e series (55BW-5e/45BW-5e/36BW-5e/28BW-5e/22BW-5e)
- 75BW-5 series (75BW-5/65BW-5/75BW-5e/65BW-5e)
- 95BW-9 series (36BW-8/28BW-8/22BW-8/95BW-9/80BW-9/75BW-9)
- 36C-1 series (36C-1/28C-1/22C-1)
- 36C-6 series (36C-6/36C-6e/28C-6/28C-6e/22C-6e)
- 55C-6 series (55C-6/55C-6e/45C-6/45C-6e)
- 60C-6 series (60C-6/60C-6e/60C-7/60C-7e)
- 50C-2 series (50C-2/50C-3/45C-3/45C-4/45C-5)
- 36C-9 series (36C-9/30C-9/25C-9/28C-8/22C-8)
- C MF385-1 Series (C MF385-1 / C MF335-1)
- BW MF475-1 Series (BW MF475-1 / BW MF405-1)



- bizhub C652 series (C652/C602/C552/C502)
- bizhub C364 series (C224/C284/C364/C224e/C284e/C364e)
- bizhub C554 series (C554/C454/C554e/C454e)

- bizhub C754 series (C754/C654/C754e/C654e)
- bizhub C35 (only with special firmware)
- supported products (Generic)
- 42BW-4 series (22BW-4/28BW-4/42BW-4/28BW-4)
- 65BW-3 series (65BW-3/60BW-3/55BW-3/50BW-3)
- 75BW-5 series (75BW-5/65BW-5)
- 36-C1 series (36C-1/28C-1/22C-1)
- 36C-6 series (36C-6/36C-6e/28C-6/28C-6e/22C-6/22C-6e)
- 55C-6 series (55C-6/55C-6e/45C-6/45C-6e)
- 60C-6 series (60C-6/60C-6e/60C-7/60C-7e)
- 50C-2 series (50C-2/50C-3/45C-3/45C-4/45C-5)
- 2013-03-27 driver package v1.1
- Filter version 1.0.2
- ID&Print: public user when no authentication is set
- support for overwrite driver settings using a file in the users home folder
- PPD files
- multilanguage support (EFIGS)
- supported products (Konica Minolta)
- bizhub 423 series (223 / 283 / 423 / 283)
- bizhub 652 series (652 / 602 / 552 / 502)
- bizhub C360 series (C220 / C280 / C360)
- bizhub C652 series (C652 / C602 / C552 / C502)
- bizhub C364 series (C224 / C284 / C364)
- bizhub C754 series (C754 / C654)
- bizhub C35 (only with special firmware)
- supported products (Generic)
- 42BW series
- 65BW series
- 36-C1 series
- 36C-6 series
- 60C-6 series
- 50C2 series

2012-09-06 driver package v1.0

- initial version
- supported features
- Secure Print
- BoxPrint
- Authentication
- AccountTrack
- CopySecurity
- Date/Time Stamp
- Page Number Stamp
- page logging (in cups)
- supported products
- bizhub 423 series
- bizhub C360 series
- bizhub C364 series
- bizhub C754 series
- bizhub C35 (only with special firmware)



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