



KONICA MINOLTA

LINUX CUPS DRIVER

User Guide

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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.

List of supported languages can be found at the end of this document. (Supported Languages)

Print dialog with custom inputs:

The screenshot shows the 'Print' dialog box with the 'Advanced' tab selected. The 'Output Method' section is expanded, showing 'Secure Print' selected. Below it, 'Secure Print ID' is set to 'secid', 'Secure Print Password' is masked with dots, 'Box Number' is set to 'None', and 'File Name' is set to 'None'. The 'Account Track' section is also expanded, showing 'Account Track' unchecked, 'Department Code' set to 'None', and 'Password' masked with dots. The 'User Authentication' section is visible at the bottom but not expanded. At the bottom of the dialog are buttons for 'Print Preview', 'Cancel', and '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
- Printer driver user data encryption

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/LibreOffice has its own printer settings dialog which does not support custom inputs. A workaround for these cases is described later in this document.

(Latest version of Libre Office [4.3.3 or newer] also supports “custom input fields” and is not affected.)

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

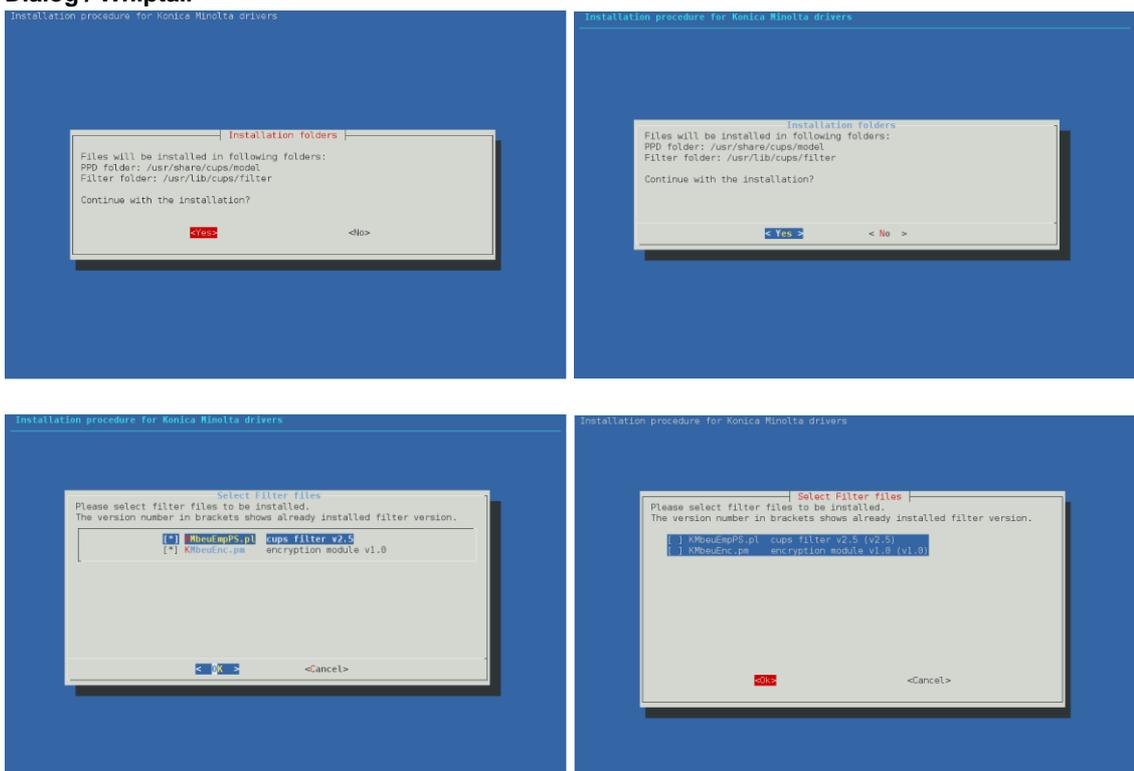
This Konica Minolta driver package for CUPS contains an install script for automatic installation. This script will install all needed files, PPD files and the filter, to the designated CUPS folders and applies the required permissions. To use the install script and the filter a working Perl interpreter has to be installed.

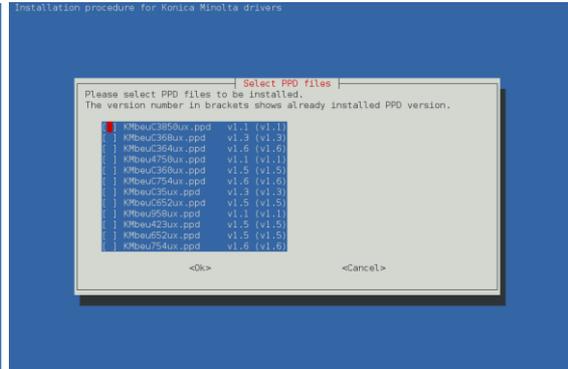
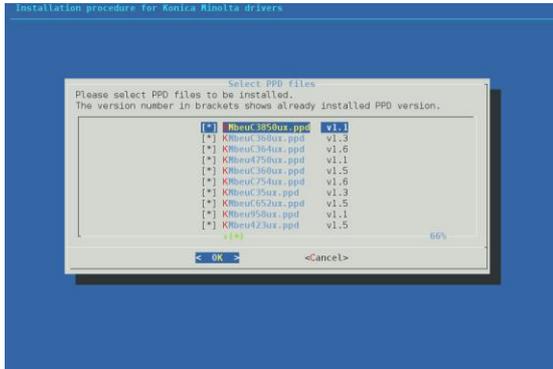
The interpreter binaries are considered to be installed as */usr/bin/perl*. This is the default location on most systems. If it is installed in another location on your system, please adapt the first line of the install script to fit your needs.

If available on the system, the install script will use “Whiptail” or “Dialog” for a more user-friendly dialog based input. During the installation, the script automatically tries to detect the PPD and Filter file installation folders, based on CUPS environment, CUPS configuration files and some default locations and may ask for the CUPS configuration files, DataDir and/or ServerBin locations.

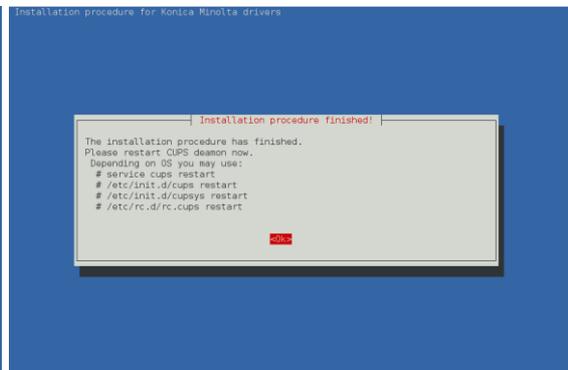
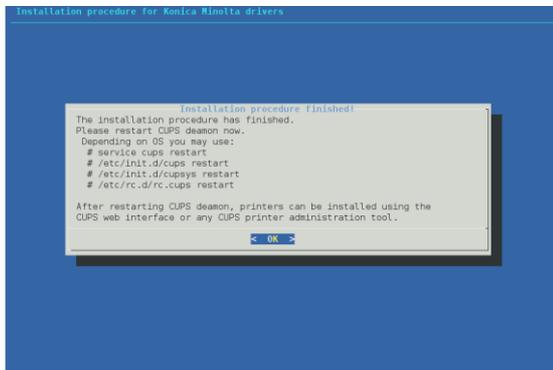
1. Extract the driver package
To extract the driver package, open a terminal such as **xterm** or the **KDE terminal**.
Extract the package with the command:
`$ tar -xvzf [package.tgz]`
2. Run installation script (root privileges are needed here)
Inside the new directory execute the command:
`# ./install.pl`
3. Restart the CUPS server
See “Restart the CUPS server”
4. Driver installation finished
The driver installation is finished. Printers can now be installed using the CUPS web interface or any CUPS printer administration tool.

Dialog / Whiptail





While Dialog is scrollable, in Whiptail more PPDs will be shown on next page.



Shell

```
root@JHE-DEBIAN8-VW:/home/jan/Documents/KMbuC/v1_12_Multi_Language# ./install.pl
Installation procedure for Konica Minolta drivers is starting.
*****
Search for Cups Configuration files.
Search in /etc/cups/cups-files.conf for DataDir and ServerBin directives.
DataDir: /usr/share/cups
ServerBin: /usr/lib/cups
check PPD folder: /usr/share/cups/model
PPD folder /usr/share/cups/model found
check filter folder: /usr/lib/cups/filter
filter folder /usr/lib/cups/filter found
Files will be installed in following folders:
PPD folder: /usr/share/cups/model
filter folder: /usr/lib/cups/filter
To continue with the installation enter: y
y
```

```
root@JHE-DEBIAN8-VW:/home/jan/Documents/KMbuC/v1_12_Multi_Language# ./install.pl
Installation procedure for Konica Minolta drivers is starting.
*****
Search for Cups Configuration files.
Search in /etc/cups/cups-files.conf for DataDir and ServerBin directives.
DataDir: /usr/share/cups
ServerBin: /usr/lib/cups
check PPD folder: /usr/share/cups/model
PPD folder /usr/share/cups/model found
check filter folder: /usr/lib/cups/filter
filter folder /usr/lib/cups/filter found
Files will be installed in following folders:
PPD folder: /usr/share/cups/model
filter folder: /usr/lib/cups/filter
To continue with the installation enter: y
y
Please select Filter files to be installed.
KMbuEmpPS.pl cups filter v2.5 overwrite v2.5
Install Filter file ? [y]
KMbuEnc.pm encryption module v1.0 overwrite v1.0
Install Filter file ? [y]
```

```
KMbuC360ux.ppd v1.5 overwrite v1.5
Install PPD file ? [y]
KMbuC754ux.ppd v1.6 overwrite v1.6
Install PPD file ? [y]
KMbuC35ux.ppd v1.3 overwrite v1.3
Install PPD file ? [y]
KMbuC652ux.ppd v1.5 overwrite v1.5
Install PPD file ? [y]
KMbuC950ux.ppd v1.1 overwrite v1.1
Install PPD file ? [y]
KMbuC423ux.ppd v1.5 overwrite v1.5
Install PPD file ? [y]
KMbuC50ux.ppd v1.5 overwrite v1.5
Install PPD file ? [y]
KMbuC754ux.ppd v1.6 overwrite v1.6
Install PPD file ? [y]
KMbuC554ux.ppd v1.4 overwrite v1.4
Install PPD file ? [y]
KMbuC650ux.ppd v1.0 overwrite v1.0
Install PPD file ? [y]
KMbuC554ux.ppd v1.6 overwrite v1.6
Install PPD file ? [y]
Installation procedure finished!
The installation procedure has finished.
Please restart CUPS daemon now.
Depending on OS you may use:
# service cups restart
# /etc/init.d/cups restart
# /etc/init.d/cupsys restart
# /etc/rc.d/rc.cups restart
After restarting CUPS daemon, printers can be installed using the
CUPS web interface or any CUPS printer administration tool.
root@JHE-DEBIAN8-VW:/home/jan/Documents/KMbuC/v1_12_Multi_Language#
```

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.

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
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 for 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.

Modify Printer - CUPS 1.7.5 - Mozilla Firefox

127.0.0.1:631/admin

Home Administration Classes Online Help Jobs Printers Search Help

Modify C368office

Description: C368office
Location: C368-office
Connection: socket://10.239.226.25:9100
Sharing: Do Not Share This Printer

Make: KONICA MINOLTA

Model:

- KONICA MINOLTA C451 PS (P) (ja)
- KONICA MINOLTA C451 PS (P) (ko)
- KONICA MINOLTA C451 PS (P) (zh_CN)
- KONICA MINOLTA C451 PS (P) (zh_TW)
- KONICA MINOLTA C550 PS (P) (en)
- KONICA MINOLTA C554SeriesPS(P)BEU v1.6 (en, fr, it, de, es, pt, nl, da, se, no, fi, gr, tr, cz, hu, pl, ru, sk, ca, hr, ro, sl, eu)
- KONICA MINOLTA C652SeriesPS(P)BEU v1.5 (en, fr, it, de, es, pt, nl, da, se, no, fi, gr, tr, cz, hu, pl, ru, sk, ca, hr, ro, sl, eu)
- KONICA MINOLTA C658SeriesPS(P)BEU v1.0 (en, fr, it, de, es, pt, nl, da, se, no, fi, gr, tr, cz, hu, pl, ru, sk, ca, hr, ro, sl, eu)**
- KONICA MINOLTA C754SeriesPS(P)BEU v1.6 (en, fr, it, de, es, pt, nl, da, se, no, fi, gr, tr, cz, hu, pl, ru, sk, ca, hr, ro, sl, eu)
- KONICA MINOLTA C3850 Series PP(BE)U v1.1 (en, fr, it, de, es, pt, nl, da, se, no, fi, gr, tr, cz, hu, pl, ru, sk, ca, hr, ro, sl, eu)

Or Provide a PPD File: No file selected.

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Updating previously installed driver package

Updating the previously installed drivers requires following steps:

1. “Automatic Installation” or “Manual Installation” procedure above (confirm the overwriting of existing files)
2. Restart CUPS if not already done (see “Restart the CUPS server”)
3. 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

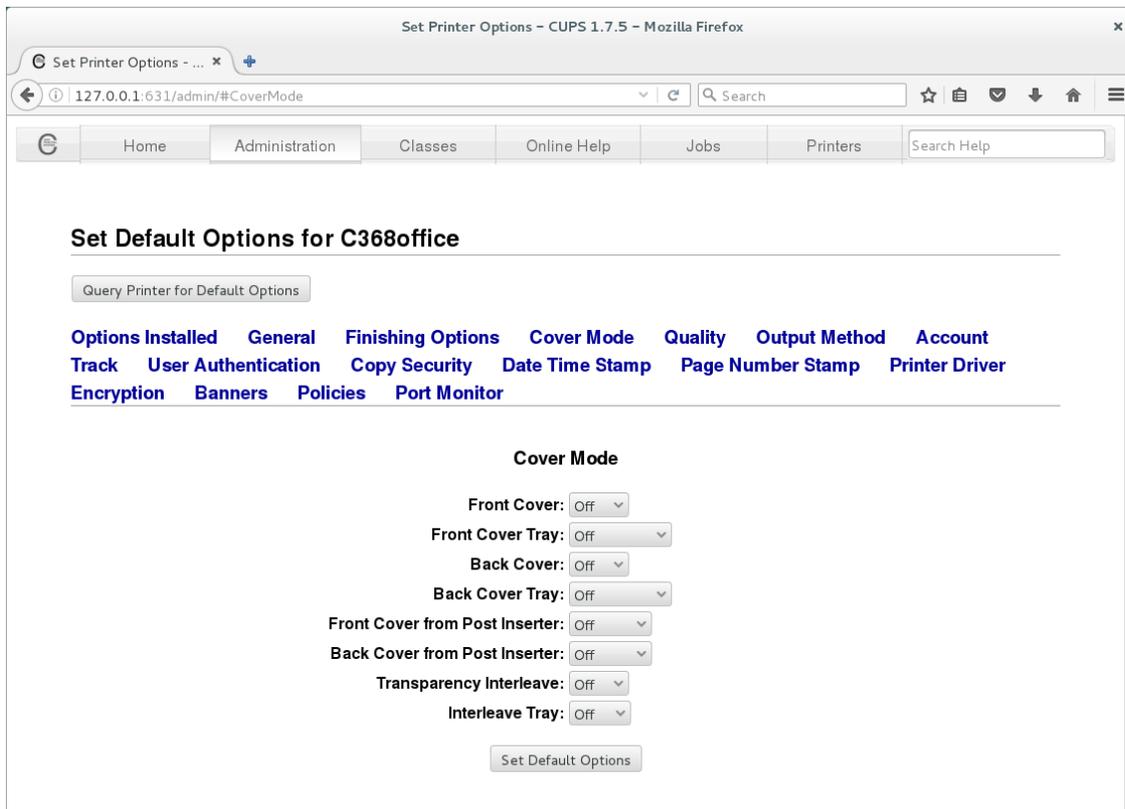
To remove the driver package from the system, perform following steps:

1. Delete installed printers which using the driver package.
(e.g. using CUPS web interface >> Administration >> Delete Printer)
 2. Delete the PPD files from the CUPS PPD directory
The default folder on most Linux distributions is */usr/share/cups/model*
The PPDs from the driver package are named “*KMbeu ... ux.ppd*” or “*beu ... ux.ppd*”
 3. 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*”
1. Restart CUPS
See “Restart the CUPS server”

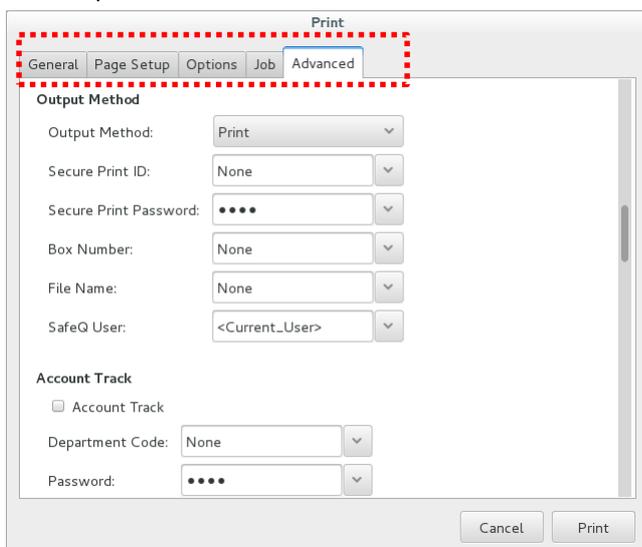
Function Description

Default settings may be configured from the CUPS web interface.

(Administration >> Manage Printers; select print queue; Administration >> Set default options.)



Printer specific features can be found within the advanced tab of the print dialog.



Not all of the listed functions are available for all printer models.

Output Method

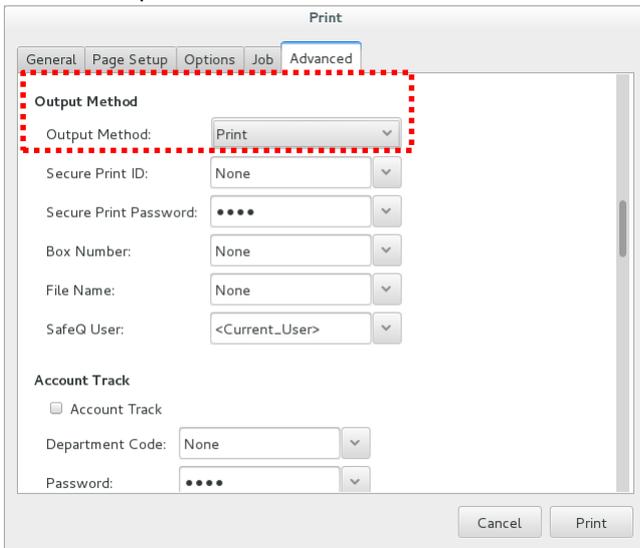
Print

Standard print function.

Required settings:

Output Method

➤ Output Method = Print



The screenshot shows the 'Print' dialog box with the 'Advanced' tab selected. The 'Output Method' dropdown menu is highlighted with a red dashed border and is set to 'Print'. Other settings include 'Secure Print ID' (None), 'Secure Print Password' (masked with dots), 'Box Number' (None), 'File Name' (None), and 'SafeQ User' (<Current_User>). The 'Account Track' section has an unchecked checkbox for 'Account Track', 'Department Code' (None), and 'Password' (masked with dots). 'Cancel' and 'Print' buttons are at the bottom.

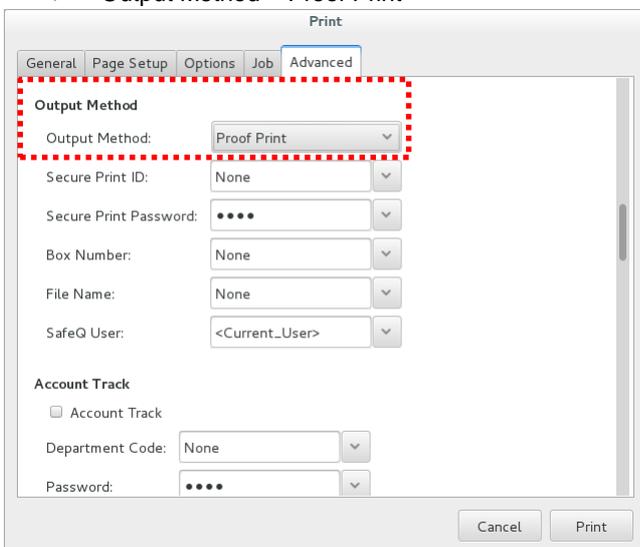
Proof Print

Select to stop the printer after one copy of the document is printed. If the copy was printed as desired, all copies can be printed from the printer's control panel. Select this option to prevent misprints when printing a large number of copies.

Required settings:

Output Method

➤ Output Method = Proof Print



The screenshot shows the 'Print' dialog box with the 'Advanced' tab selected. The 'Output Method' dropdown menu is highlighted with a red dashed border and is set to 'Proof Print'. Other settings are identical to the 'Print' method: 'Secure Print ID' (None), 'Secure Print Password' (masked with dots), 'Box Number' (None), 'File Name' (None), and 'SafeQ User' (<Current_User>). The 'Account Track' section has an unchecked checkbox for 'Account Track', 'Department Code' (None), and 'Password' (masked with dots). 'Cancel' and 'Print' buttons are at the bottom.

Secure Print

This feature allows a user sending a print job with the ability to hold the job in the memory of the system until the user releases the job by entering a unique secure PIN/password at the control panel of the MFP.

Required settings:

Output Method

- Output Method = Secure Print
- Secure Print ID [text of 1 to 16 characters]
- Secure Print Password [text of 1 to 8 characters]

The screenshot shows the 'Print' dialog box with the 'Advanced' tab selected. The 'Output Method' is set to 'Secure Print'. The 'Secure Print ID' field contains 'secureID' and the 'Secure Print Password' field is masked with four dots. Below these, there are fields for 'Box Number' (None), 'File Name' (None), and 'SafeQ User' (<Current_User>). Under the 'Account Track' section, there is a checkbox for 'Account Track' (unchecked), a 'Department Code' field (None), and a 'Password' field (masked with four dots). 'Cancel' and 'Print' buttons are at the bottom right.

ID & Print

In case the machine is set up with user authentication (server or MFP-based) secure printing can be used via the “touch & print” or “ID & print” feature. Instead of an additional secure print ID and password, the user authentication data will be used to identify a stored secure print job, and will release the job after authentication at the device.

Required settings:

Output Method

- Output Method = ID & Print

User Authentication (see User Authentication)

The screenshot shows the 'Print' dialog box with the 'Advanced' tab selected. The 'Output Method' is set to 'ID & Print'. The 'Secure Print ID' field is set to 'None' and the 'Secure Print Password' field is masked with four dots. Other options like 'Box Number', 'File Name', and 'SafeQ User' are also visible. Under the 'Account Track' section, there is a checkbox for 'Account Track' (unchecked), a 'Department Code' field (None), and a 'Password' field (masked with four dots). 'Cancel' and 'Print' buttons are at the bottom right.

If ID & Print is selected and authentication is disabled, the job will be sent as “Public” user.

Safe in User Box / Save in Box and Print

Save in User Box

Select to save the print job on the hard disk of the printer.

Save in User Box/Print

Select to save the print job on the hard disk of the printer at the same time that it is printed.

Required Setting

Output Method

- Output Method = “Safe in User Box” or “Safe in Box and Print”
- Box Number [any number from 1 to 999999999]
- File Name [text of 1 to 30 characters]

Account Track

Required settings

Account Track

- Account Track = enable (tick checkbox)
- DepartmentCode: [text of 1 to 16 characters]
- AccountPassword: [text of 1 to 16 characters]

User Authentication

If user authentication is enabled on MFP, the function can be restricted to allow only authenticated users to print. For this the print job requires authentication information.

Required settings

User Authentication

- User Authentication = "MFP" or "External Server" or "MFP + External Server" (depends on MFP configuration)
- Authentication Server (when "External Server" is used, select number corresponding to the authentication server configured in MFP)
- Username
- Password

The screenshot shows the 'Print' dialog box with the 'Advanced' tab selected. The 'User Authentication' section is highlighted with a red dashed border. It contains the following settings:

- User Authentication: External Server
- Authentication Server: 1
- Username: None
- Password: [Redacted]

Below the 'User Authentication' section is the 'Copy Security' section, which includes:

- Copy Security
- Copy Security Mode: Copy Protect
- Password Copy - Password: [Redacted]
- Characters: Invalid Copy
- Date and Time: None

At the bottom of the dialog are 'Cancel' and 'Print' buttons.

Copy Security

Prints in the document a pattern that prevents improper copying.
The following items can be selected according to usage.

Copy Protect

Prints the copy security pattern combined in the document so that it is not conspicuous (in the background). The text appears embossed when the document is improperly copied.

Stamp Repeat

Prints the copy security pattern combined in the document as a text pattern that can already be identified.

Copy Guard

Prints the copy guard pattern combined in the document.
In the device, which supports this function, when copying the printed document, copy is interrupted when the pattern being combined is read.

Password Copy

Prints the password copy pattern in the document.
If it is going to copy the printed document (with the device which supports this function) the combined pattern will be read and password input will be required.
Copy operation can be performed by entering the set password at the time of printing.

Characters: Combines the selected text into the document. The text registered on the printer are indicated with "***".
If information for text registered on the printer cannot be retrieved, these options appear as "Machine-Setting 1".

Date/Time: Combines the selected date into the document.

Serial Number: Combines into the document the serial number programmed on the printer.

Distribution Control Number: Combines the specified distribution control number into the document.
Distribution Control Start Number: Specify the number for the first of the distribution control numbers

Job Number: Combines into the document the job number managed by the printer.

Pattern Angle: Specify the angle of the text.

Pattern Text Size: Specify the size of the text.

Pattern Color: Select the color of the copy security pattern.

Pattern Density / Contrast: Specify the color and density of the copy security pattern.

Pattern Overwrite: Select whether the copy security pattern is combined in the background or foreground of the document.

Background Pattern: Select the copy security pattern from the background patterns registered with the printer.

Pattern Emboss: Select whether the text pattern appears embossed or as an outline when the document is improperly copied.

Print

General Page Setup Options Job **Advanced**

Copy Security

Copy Security

Copy Security Mode: Copy Protect

Password Copy - Password: ••••••

Characters: Invalid Copy

Date and Time: None

Date Format: '12/8/23

Time Format: 1 23PM

Serial Number

Distribution Control Number

DCN Start Number: 1

Job Number

Cancel Print

Print

General Page Setup Options Job **Advanced**

Distribution Control Number

DCN Start Number: 1

Job Number

Pattern Angle: 0 degrees

Pattern Text Size: Standard

Pattern Color: Black

Pattern Density: 0

Pattern Contrast: 0

Pattern Overwrite: Front (Overwrite)

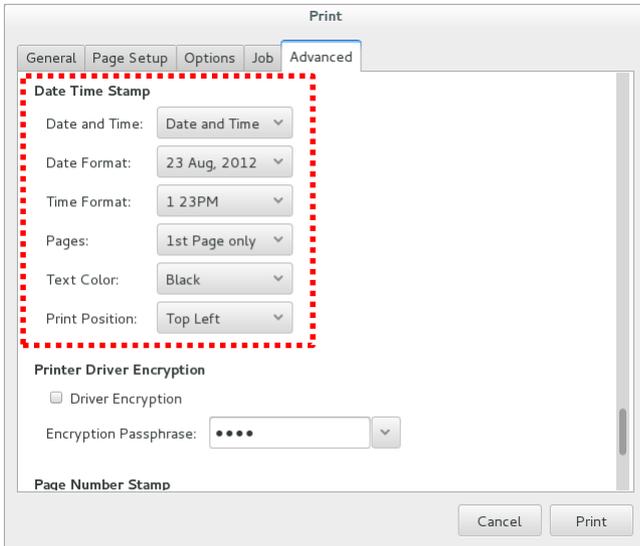
Background Pattern: <Machine Setting 1>

Pattern Emboss: Emboss Text

Cancel Print

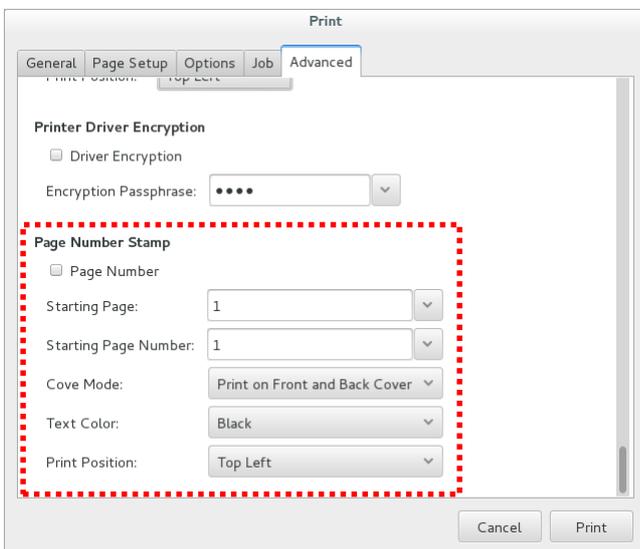
Date Time Stamp

Prints the date and time in the document.



Page Number Stamp

Prints the page number in the document.



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.

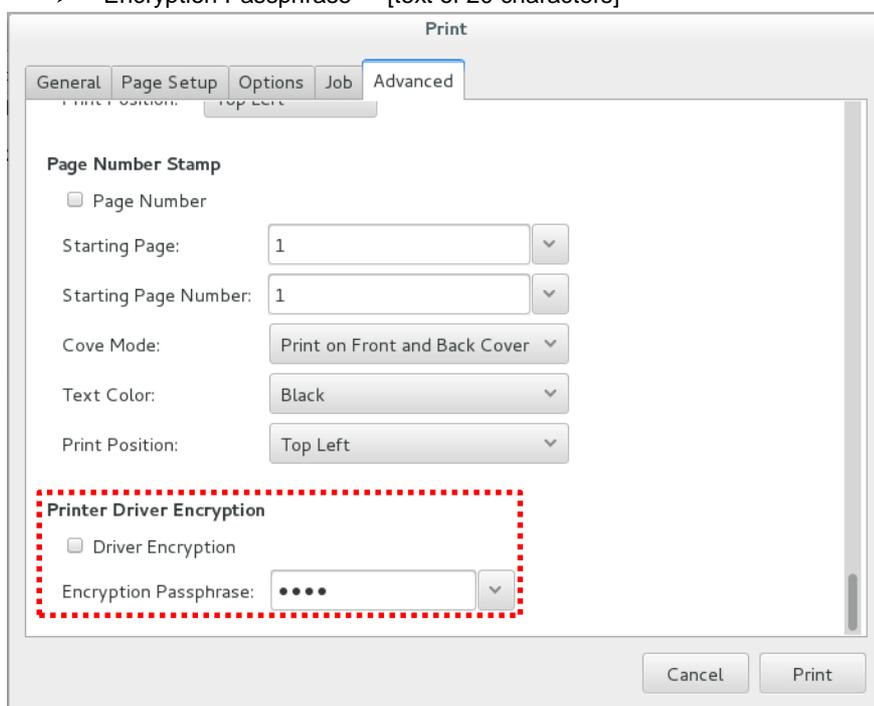
As of today, only the A3 devices support the use of a custom passphrase.

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.

Required settings:

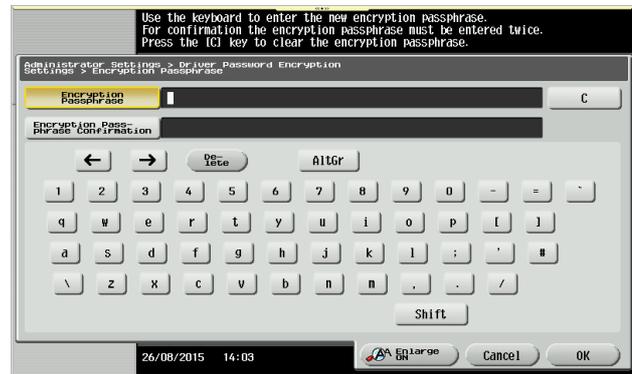
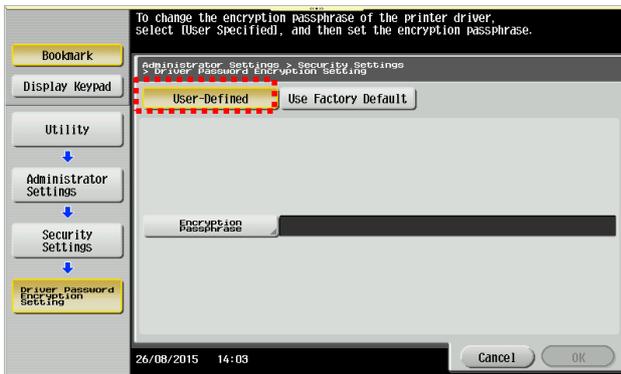
Printer Driver Encryption

- Driver Encryption = enable (tick checkbox)
- Encryption Passphrase [text of 20 characters]

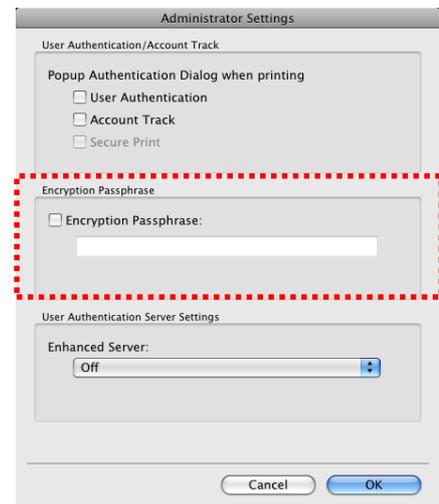
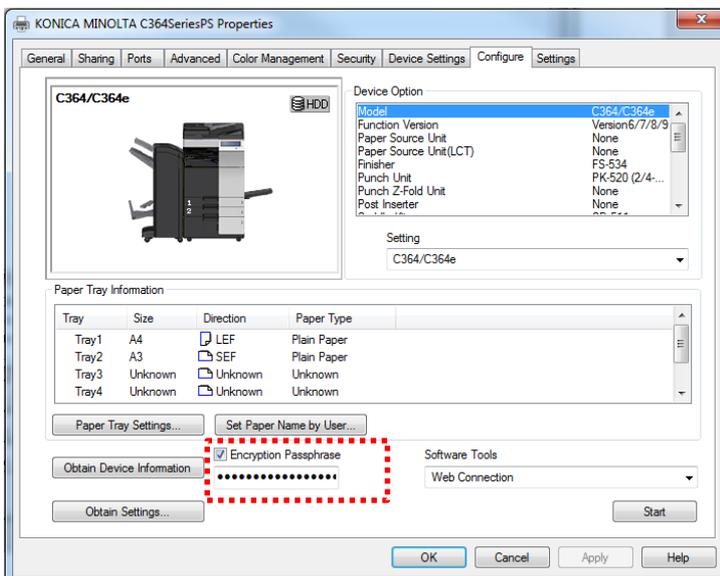


Note: When using the settings file as described in workaround 1, the same passphrase will be applied to all printers which support driver encryption.

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



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.



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 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.

Support for other applications

YSoft SafeQ

Printing with SafeQ may require different user name to be send with the print data, other than the Linux systems user name.

Required settings:

Output Method

- > Output Method = SafeQ
- > SafeQ User [text of 1 to 30 characters]

The image shows a 'Print' dialog box with the 'Advanced' tab selected. The 'Output Method' section is highlighted with a red dashed box, showing 'Output Method' set to 'SafeQ'. Below it, 'Secure Print ID', 'Secure Print Password', 'Box Number', and 'File Name' are all set to 'None'. The 'SafeQ User' field is also highlighted with a red dashed box and is set to '<Current_User>'. The 'Account Track' section is visible below, with 'Account Track' unchecked, 'Department Code' set to 'None', and 'Password' masked with four dots. 'Cancel' and 'Print' buttons are at the bottom right.

Field	Value
Output Method	SafeQ
Secure Print ID	None
Secure Print Password	••••
Box Number	None
File Name	None
SafeQ User	<Current_User>
Account Track	<input type="checkbox"/>
Department Code	None
Password	••••

PSES (Page Scope Enterprise Suite)

PSES requires a different authentication method.

Required settings:

User Authentication

- User Authentication = PSES
- User Name
- Password

The image shows a 'Print' dialog box with the 'Advanced' tab selected. The 'User Authentication' section is highlighted with a red dashed border. The 'User Authentication' dropdown menu is set to 'PSES'. The 'Authentication Server' dropdown menu is set to '1'. The 'Username' dropdown menu is set to 'None'. The 'Password' field is masked with four dots. The 'Copy Security' section is also visible, with 'Copy Security Mode' set to 'Copy Protect', 'Password Copy - Password' masked with four dots, 'Characters' set to 'Invalid Copy', and 'Date and Time' set to 'None'. The 'Print' dialog box has 'Cancel' and 'Print' buttons at the bottom.

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
- Printer Driver Encryption
 - EncryptionPassphrase

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

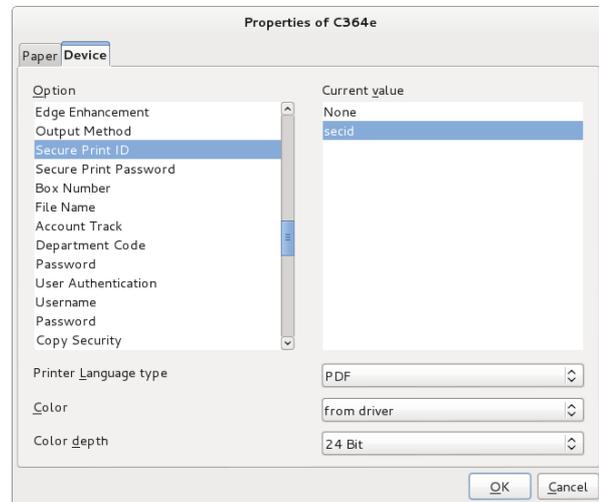
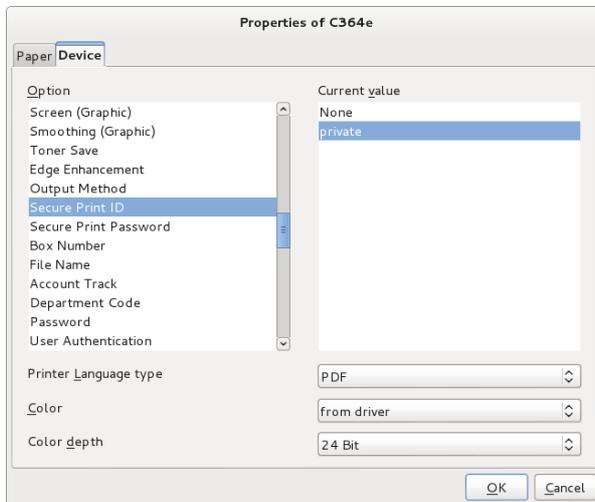
*% Custom PostScript KMSecID option
*CustomKMSecID True: " "
*ParamCustomKMSecID Username: 1 string 1 16

*% =====
*% Secure Print password
*% =====
*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”).

Print dialog from OpenOffice:



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

Setting will be applied to printers using this driver

Individual settings for each user.

Selections in the print dialog have no influence on the settings defined in the setting file.

Easy to handle, each user can modify the settings file and define its own values.

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.

Workaround 2

Setting is only available for to modified printer PPD needs to be modified for each printer.

Changes made in the PPD are available for all users.

The customer can select among the different parameters/values defined in the PPD.

For normal user it is difficult to make the changes in the PPD, also root credentials are required for the change.

Supported Products

Konica Minolta:

- KMbeu423ux.ppd	bizhub 423 series (223/283/423/283)
- KMbeu652ux.ppd	bizhub 652 series (652/602/552/502)
- KMbeu554eux.ppd	bizhub 554e series (554e/454e/364e/284e/224e)
- KMbeu754ux.ppd	bizhub 754 series (754/654/754e/654e)
- KMbeu958ux.ppd	bizhub 958 series (367/287/227/958/808/758/558/458/368/308/658e/558e/458e/368e/308e)
- KMbeuC360ux.ppd	bizhub C360 series (C220/C280/C360)
- KMbeuC652ux.ppd	bizhub C652 series (C652/C602/C552/C502)
- KMbeuC364ux.ppd	bizhub C364 series (C224/C284/C364/C224e/C284e/C364e)
- KMbeuC554ux.ppd	bizhub C554 series (C554/C454/C554e/C454e)
- KMbeuC754ux.ppd	bizhub C754 series (C754/C654/C754e/C654e)
- KMbeuC658ux.ppd	bizhub C658 series (C658/C558/C458/C368/C308/C258/C287/C227) ⁽¹⁾
- KMbeuC368ux.ppd	bizhub C368 series (C368/C308/C258/C287/C227) ⁽¹⁾
- KMbeuC759ux.ppd	bizhub C759 series (C759/C659/C658/C558/C458/C368/C308/C358/C258/C287/C227/
C3851/C3851FS/C3351)	
- KMbeuC360iux.ppd	bizhub C360i series (C360i/C300i/C250i/C4050i/C3350i/C4000i/C3300i/C3320i) ⁽²⁾
- KMbeuC650iux.ppd	bizhub C650i series (C650i/C550i/C450i/C360i/C300i/C250i/C4050i/C3350i/C4000i/
C3300i/C3320i)	
- KMbeuC3850ux.ppd	bizhub C3850 series (C3350/C3850)
- KMbeuC3851ux.ppd	bizhub C3851 series (C3351/C3851/C8351FS) ⁽¹⁾
- KMbeu4750ux.ppd	bizhub 4750 series (4050/4750)
- KMbeu4752ux.ppd	bizhub 4752 series (4752/4052)
- KMbeu5020iux.ppd	bizhub 5020i series (5020i/5000i/4020i/4000i)
- KMbeuWPHux.ppd	Workplace Hub WPH
- KMbeuC35ux.ppd	bizhub C35 (only with special firmware)

⁽¹⁾ models included in bizhub C759 series

⁽²⁾ models included in bizhub C650i series

Generic:

- beu42BW-4ux.ppd	42BW-4 series (22BW-4/28BW-4/42BW-4/28BW-4)
- beu65BW-3ux.ppd	65BW-3 series (65BW-3/60BW-3/55BW-3/50BW-3)
- beu55BW-5eux.ppd	55BW-5e series (55BW-5e/45BW-5e/36BW-5e/28BW-5e/22BW-5e)
- beu75BW-5ux.ppd	75BW-5 series (75BW-5/65BW-5/75BW-5e/65BW-5e)
- beu95BW-9ux.ppd	95BW-9 series (36BW-8/28BW-8/22BW-8/95BW-9/80BW-9/75BW-9/55BW-9/45BW-9/
36BW-9/30BW-9/65BW-9e/55BW-9e/45BW-9e/36BW-9e/30BW-9e)	
- beu36C-1ux.ppd	36C-1 series (36C-1/28C-1/22C-1)
- beu36C-6ux.ppd	36C-6 series (36C-6/36C-6e/28C-6/28C-6e/22C-6/22C-6e)
- beu55C-6ux.ppd	55C-6 series (55C-6/55C-6e/45C-6/45C-6e)
- beu60C-6ux.ppd	60C-6 series (60C-6/60C-6e/60C-7/60C-7e)
- beu50C-2ux.ppd	50C-2 series (50C-2/50C-3/45C-3/45C-4/45C-5)
- beu65C-9ux.ppd	65C-9 series (65C-9/55C-9/45C-9/36C-9/30C-9/25C-9/28C-8/22C-8) ⁽³⁾
- beu36C-9ux.ppd	36C-9 series (36C-9/30C-9/25C-9/28C-8/22C-8) ⁽³⁾
- beu70C-10ux.ppd	70C-10 series (70C-10/65C-10/65C-9/55C-9/45C-9/36C-9/30C-9/25C-9/28C-8/22C-8/
C MF385-2/C MF385-2FS/C MF335-2)	
- beu36C-0iux.ppd	36C-0i series (36C-0i/30C-0i/25C-0i/C405-0i/C335-0i/C400-0i/C330-0i/C332-0i) ⁽⁴⁾
- beu65C-0iux.ppd	65C-0i series (65C-0i/55C-0i/45C-0i/36C-0i/30C-0i/25C-0i/C405-0i/C335-0i/C400-0i/
C330-0i/C332-0i)	
- beuCMF385-1ux.ppd	C MF385-1 series (C MF385-1 / C MF335-1)
- beuCMF385-2ux.ppd	C MF385-2 series (C MF385-2 / C MF385-2FS/ C MF335-2) ⁽³⁾
- beuBWMF475-1ux.ppd	BW MF475-1 Series (BW MF475-1 / BW MF405-1)
- beuBWMF475-3ux.ppd	BW MF475-3 series (BW MF475-3 / BW MF405-3)

⁽³⁾ models included in 70C-10 series

⁽⁴⁾ models included in 65C-0i series

Supported Languages

English [en], French [fr], Italian [it], German [de], Spanish [es], Portuguese [pt], Dutch [nl], Danish [dk], Swedish [se], Norwegian [no], Finnish [fi], Greek [gr], Turkish [tr], Czech [cz], Hungarian [hu], Polish [pl], Russian (Cyrillic) [ru], Slovak [sk], Catalan [ca], Croatian [hr], Romanian [ro], Slovenian [sl], Basque [eu], Simplified Chinese [zh_CN]

Change Log

2019-11-20 driver package v1.21

- added new models:
- bizhub C650i series (C650i/C550i/C450i/C360i/C300i/C250i/C4050i/C3350i/C4000i/C3300i/C3320i)
- 65C-0i series (65C-0i/55C-0i/45C-0i/36C-0i/30C-0i/25C-0i/C405-0i/C335-0i/C400-0i/C330-0i/C332-0i)

2019-08-20 driver package v1.20

- added new models:
- bizhub 5020i series (5020i/5000i/4020i/4000i)

2019-02-25 driver package v1.19

- added new models:
- bizhub C360i series (C360i/C300i/C250i/C4050i/C3350i/C4000i/C3300i/C3320i)
- 36C-0i series (36C-0i/30C-0i/25C-0i/C405-0i/C335-0i/C400-0i/C330-0i/C332-0i)

2018-04-27 driver package v1.18

- added new language: Simplified Chinese

2018-04-27 driver package v1.17

- added new model:
- Workplace Hub

2018-03-22 driver package v1.16

- added new models:
- bizhub 4752 series (4752/4052)
- BW MF475-3 series (BW MF475-3 / BW MF405-3)

2017-12-04 driver package v1.15

- added new models:
- bizhub 958 series (367/287/227/958/808/758/558/458/368/308/658e/558e/458e/368e/308e)
- 95BW-9 series (36BW-8/28BW-8/22BW-8/95BW-9/80BW-9/75BW-9/55BW-9/45BW-9/36BW-9/30BW-9/65BW-9e/55BW-9e/45BW-9e/36BW-9e/30BW-9e)

2017-11-08 driver package v1.14

- added new models:
- bizhub C759 series (C759/C659/C658/C558/C458/C368/C308/C358/C258/C287/C227/C3851/C3851FS/C3351)
- 70C-10 series (70C-10/65C-10/65C-9/55C-9/45C-9/36C-9/30C-9/25C-9/28C-8/22C-8/C MF385-2/C MF385-2FS/C MF335-2)

2017-02-13 driver package v1.13

- added new models:
- bizhub 958 series (367/287/227/958/808/758/558/458/368/308)
- 95BW-9 series (36BW-8/28BW-8/22BW-8/95BW-9/80BW-9/75BW-9/55BW-9/45BW-9/36BW-9/30BW-9)
- bizhub C3851 series (C3351/C3851)
- C MF385-2 Series (C MF385-2 / C MF385-2FS / C MF335-2)

2016-12-12 driver package v1.12

- new install script (using Dialog or Whiptail if available)
- multi language support – now 23 languages
- added new models:
- bizhub C658 series (C658/C558/C458/C368/C308/C258/C287/C227)
- 65C-9 series (65C-9/55C-9/45C-9/36C-9/30C-9/25C-9/28C-8/22C-8)

2016-05-30 driver package v1.11

- added new models:
- bizhub C368 series (C368/C308/C258/C287/C227)
- 36C-9 series (36C-9/30C-9/25C-9/28C-8/22C-8)

2016-05-17 driver package v1.10

- added new models:
- bizhub 958 series (367/287/227/958/808/758)

- 95BW-9 series (36BW-8/28BW-8/22BW-8/95BW-9/80BW-9/75BW-9)

2016-03-23 driver package v1.9

- bugfix in filter

2016-01-04 driver package v1.8

- bugfix in filter

2015-09-30 driver package v1.7

- new function "printer driver encryption"

2015-08-11 driver package v1.6

- new install script
- added "External Server Authentication" setting
- changed default page size to A4
- added new models:
 - bizhub 367 series (367/287/227)
 - bizhub C368 series (C368/C308/C258)
 - bizhub C3850 series (C3350/C3850)
 - bizhub 4750 series (4050/4750)
 - 36BW-8 series (36BW-8/28BW-8/22BW-8)
 - 36C-9 series (36C-9/30C-9/25C-9)
 - C MF385-1 Series (C MF385-1 / C MF335-1)
 - BW MF475-1 Series (BW MF475-1 / BW MF405-1)

2014-08-20 driver package v1.5

- optimized filter: less memory usage
- additional code for using default settings when printing from non-GUI applications
- debug information will no longer be written to a separate file, but can be output to the CUPS error log
- fixed install script

2013-11-13 driver package v1.4

- added SafeQ support (using different user name)

2013-10-16 driver package v1.3

- added new models:
 - bizhub 754 series (754/654/754e/654e)
 - bizhub 554e series (554e/454e/364e/284e/224e)
 - 75BW-5 series (75BW-5/65BW-5/75BW-5e/65BW-5e)
 - 55BW-5e series (55BW-5e/45BW-5e/36BW-5e/28BW-5e/22BW-5e)

2013-08-23 driver package v1.2

- added PSES Authentication
- added "e"-models
- correction of translation strings for Generic supported products (Konica Minolta)
 - bizhub 423 series (223/283/423/283)
 - bizhub 652 series (652/602/552/502)
 - bizhub 754 series (754/654)
 - 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 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)



KONICA MINOLTA

Konica Minolta
Business Solutions Europe GmbH
Europaallee 17
30855 Langenhagen 🇩🇪 Germany
Tel.: +49 (0) 511 74 04-0
Fax: +49 (0) 511 74 10 50
www.konicaminolta.eu