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Canon CAPT Printer Driver for Linux Version 2.40

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1. Introduction -----

Thank you for using the Canon CAPT Printer Driver for Linux. This CAPT printer driver provides printing functions for Canon LBP printers operating under the CUPS (Common Unix Printing System) environment, a printing system that functions on Linux operating systems.

2. Distribution File Structure of the Canon CAPT Printer Driver for Linux -----

The Canon CAPT Printer Driver for Linux distribution files are as follows:

Furthermore, the file name for the CUPS driver common module and printer driver module differs depending on the version.

- README-capt-2.4xUK.txt (This document)

Describes supplementary information on the Canon CAPT Printer Driver for Linux.

- LICENSE-captdrv-2.4xE.txt

Describes User License Agreement on the Canon CAPT Printer Driver for Linux.

- guide-capt-2.4xUK.tar.gz

Online manual that explains how to use the Canon CAPT Printer Driver for Linux.

This includes the system requirements, installation, and usage of the Canon CAPT Printer Driver for Linux.

Because this file is in a compressed format, you need to extract it to the appropriate directory before reading.

- cndrvcups-common-2.40-x.i386.rpm (for 32-bit)
- cndrvcups-common-2.40-x.x86_64.rpm (for 64-bit)
- cndrvcups-common_2.40-x_i386.deb (for Debian 32-bit)

Installation package for the CUPS driver common module used by the Canon CAPT Printer Driver for Linux.

- cndrvcups-capt-2.40-x.i386.rpm (for 32-bit)
- cndrvcups-capt-2.40-x.x86_64.rpm (for 64-bit)
- cndrvcups-capt_2.40-x_i386.deb (for Debian 32-bit)

Installation package for the Canon CAPT Printer Driver for Linux.

- cndrvcups-common-2.40-x.tar.gz

Source file for the CUPS driver common module used by the Canon CAPT Printer Driver for Linux.

- cndrvcups-capt-2.40-x.tar.gz

Source file for the Canon CAPT Printer Driver for Linux.

3. Hardware Requirements -----

This printer driver can be used with the following hardware environment.

Hardware:

Computer that is enable to operate Linux, with x86 compatible CPU
(32-bit or 64-bit)

Evaluated OS:

Fedora 15 32-bit/64-bit
Ubuntu 11.04 Desktop 32-bit

Previously Evaluated OS:

Turbolinux 10 Desktop 32-bit
Turbolinux 10 F... 32-bit
Turbolinux 10 S 32-bit
Turbolinux Version 11 FUJI 32-bit
Turbolinux Home 32-bit
MIRACLE LINUX V3.0(Asianux Inside) 32-bit
MIRACLE LINUX V4.0(Asianux Inside) 32-bit
Red Hat 9 32-bit
Red Hat Professional Workstation 32-bit
Red Hat Enterprise Linux v.4 32-bit
Red Hat Enterprise Linux v.5 32-bit
Mandriva Linux One 2008* 1 32-bit
Mandriva Linux Powerpack 2008 32-bit
Mandriva Linux One 2008 Spring 32-bit
Mandriva Linux One 2009.0 32-bit
SUSE LINUX PROFESSIONAL 9.3 32-bit
Novell Linux Desktop 9 32-bit
SUSE Linux 10.0 (openSUSE) 32-bit
SUSE Linux 10.1 (openSUSE) 32-bit
SUSE Linux 10.2 (openSUSE) 32-bit
SUSE Linux 10.3 (openSUSE) 32-bit
SUSE Linux 11.0 (openSUSE) 32-bit
SUSE Linux 11.1 (openSUSE) 32-bit

Fedora Core 4 32-bit
Fedora Core 5 32-bit
Fedora Core 6 32-bit
Fedora 7 32-bit
Fedora 8 32-bit
Fedora 9 32-bit
Fedora 10 32-bit
Fedora 11 32-bit
Fedora 12 32-bit/64-bit
Fedora 13 32-bit/64-bit
Fedora 14 32-bit/64-bit
Ubuntu 7.04 Desktop 32-bit
Ubuntu 7.10 Desktop 32-bit
Ubuntu 8.04 Desktop 32-bit
Ubuntu 8.10 Desktop 32-bit
Ubuntu 9.04 Desktop 32-bit
Ubuntu 9.10 Desktop 32-bit
Ubuntu 10.04 Desktop 32-bit
Ubuntu 10.10 Desktop 32-bit
Debian GNU/Linux 3.1 rev2 32-bit
Debian GNU/Linux 4.0 32-bit
Debian GNU/Linux 4.0 r6 etchnhalf 32-bit
Debian GNU/Linux 5.02 32-bit
Vine Linux 3.1/3.1CR 32-bit
Vine Linux 4.1 32-bit
Vine Linux 4.2 32-bit
Cent OS 5.3

Object Printer:

LBP9100Cdn
LBP7200C series
LBP7018C/LBP7010C
LBP6300dn
LBP6200
LBP6018/LBP6000
LBP5300
LBP5100

LBP5050 series
LBP5000
LBP3500
LBP3310
LBP3300
LBP3250
LBP3210
LBP3200
LBP3150/LBP3108/LBP3100
LBP3050/LBP3018/LBP3010
LBP3000
LBP2900
LBP-1210
LBP-1120

Please see the online manual about the install method and the concrete usage.

4. Auto startup setting procedure for ccpd daemon -----

When setting the Status Monitor to start automatically, ccpd daemon must be set to start automatically as well.

Set ccpd daemon to start automatically in the following procedure.

<For a distribution with a /etc/rc.local file>

Log in as 'root' and add the '/etc/init.d/ccpd start' command to the /etc/rc.local file.

<For a distribution with a /sbin/insserv command>

Log in as 'root', add the following comments to the third line in /etc/init.d/ccpd, and execute the 'insserv ccpd' command.

```
### BEGIN INIT INFO
```

```
# Provides:          ccpd
# Required-Start:    $local_fs $remote_fs $syslog $network $named
# Should-Start:      $ALL
# Required-Stop:     $syslog $remote_fs
# Default-Start:     3 5
```

```
# Default-Stop:      0 1 2 6
# Description:       Start Canon Printer Daemon for CUPS
### END INIT INFO
```

5. Cautions, Limitations, and Restrictions -----

- If you install "cndrv cups-common" package version 2.40, make sure you install the same version of the "cndrv cups-capt" package, i.e. 2.40.
- When specifying multiple pages/copies for [Page Layout] in the [General] sheet to print a document created with StarSuite7/OpenOffice, due to a cause of operation by the CUPS module, settings are not correctly assigned to the multiple pages and output.
- PostScript files created with the number of copies specified in OpenOffice.org or StarSuite are affected not by the value specified by [Copies] in the [cngplp] dialog box (the driver UI), but by the number of copies set when creating the PostScript file.
- If settings are changed from the driver UI, during print processing, the printed result will reflect the changed settings.
- If [Brightness and Gamma] is specified in the [General] sheet from an application such as OpenOffice.org, GIMP, or Acrobat Reader v.5.0, the settings will be invalid.
- You cannot print a PDF document by directly specifying it from the desktop or command line. When printing a PDF document, it is recommended that you print it from Acrobat Reader or Adobe Reader.
- The maximum number of files that can be held in the print queue when printing is 500 according to CUPS specifications. Files queued after the 500th file will be ignored.
- When the paper size is specified from the application, the specified contents will not be valid. The value specified for [Page Size] in the [General] sheet

in the printer driver screen will be reflected when printing.

- If you are using SUSE LINUX Professional 9.3, the driver UI may display unintelligible characters. You can solve this problem using the following method.
 - 1) Log in as 'root'.
 - 2) Execute the following command to change the GTK+ environment settings.

```
# cd /etc/  
# ln -s opt/gnome/gtk ./
```
- If you are using SUSE LINUX Professional 9.3, a warning may occur when you activate the driver UI. You can solve this problem using the following method.
 - 1) Open [K Menu] -> [Control Center].
 - 2) Select [Appearance & Themes].
 - 3) Select [Colors].
 - 4) Deselect [Apply colors to non-KDE applications].
 - 5) Close [Control Center].
- If you are using LBP9100Cdn, LBP7200 series, LBP7018C, LBP7010C, LBP6300dn, LBP6200, LBP6018, LBP6000, LBP5300, LBP5100, LBP5050 series, LBP5000, LBP3500, LBP3310, LBP3300, LBP3250, LBP3150, LBP3108, LBP3100, LBP3050, LBP3018, or LBP3010, blank paper is not output according to Glue Code specifications, even if the print job includes blank pages.

The setting does not become effective even after setting [Use Skip Blank Pages Mode] in the [Finishing Details] dialog box to [Off] or specifying the printer setting not to use the Skip Blank Pages mode from the command line.
- If you are using LBP5300 in a network environment, the version of the firmware of the network board needs to be 1.10 or later, otherwise the network board does not operate properly.

Download the latest update file from the Canon website and update the firmware.
- If you are using LBP5000, LBP3500 or LBP3300 with NB-C1 installed in a network environment, the version of the firmware of the network board needs to be 1.30 or later, otherwise the network board does not operate properly.

Download the latest update file from the Canon website and update the firmware.

- If you are using LBP3310 with NB-C2 installed in a network environment, the version of the firmware of the network board needs to be 1.30 or later, otherwise the network board may not operate properly. Download the latest update file from the Canon website and update the firmware.
- If you use the Cancel Job key on the printer unit to cancel jobs, the jobs from CUPS may not be cleared depending on the data size. In this case, delete the jobs using the CUPS interface.
- If you cannot browse the IP address of localhost, you cannot start Status Monitor.
Modify `"/etc/hosts"` so that you can browse the IP address of localhost.
- If you have connected the printer using a USB cable in the environment in which the HAL daemon runs on Fedora Core, delete the registered printer entry created by the HAL daemon with the printer name once, and then perform the registration operation for the printer.
- If you are using CUPS 1.2.x for the printing system, the printer may not operate properly when printing banner pages.
Before you print banner pages, replace the printing system with CUPS 1.1.x.
- If you are using the following distributions, you may not be able to install the printer driver successfully because `"libstdc++.so.5"` is not installed by default.
In this case, perform the additional installation of the package.
 - For Fedora Core 4, Fedora Core 5, Fedora Core 6, Fedora 7, Fedora 8, Fedora 9, Fedora 10, Fedora 11, Fedora 12, Fedora 13, Fedora 14, RedHat Enterprise Linux 5.1, and CentOS 5.3
-> Install the package (compat-libstdc++-33).
 - For Ubuntu 7.10, Ubuntu 8.04, Ubuntu 8.10, Ubuntu 9.04, Ubuntu 9.10, Ubuntu 10.04, Ubuntu 10.10, Debian GNU/Linux 4.0, and Debian GNU/Linux 5.0
-> Obtain the package (gcc-3.3-base or libstdc++5) from
`"http://lwg.mtu.edu/ubuntu/pool/main/g/gcc-3.3/"` to install it.
 Reference Information: <http://ubuntuforums.org/showthread.php?t=674100>
 - For Mandriva 2008 and Mandriva 2008 Spring
-> Obtain the package (libstdc++5) from the standard mirror server etc. to

install it.

- For OpenSUSE 11.1

-> Install the package (libstdc++33-3.3-7.5.i586).

- If you are using SUSE Linux 9.3 or SUSE Linux 10.0, and are printing from the [Print] dialog box of Mozilla or FireFox, because the multiple copies setting is not enabled, you can print only one copy regardless of how many copies you have specified.

This problem can be solved by changing the following line in the file
"/etc/cups/mime.convs".

[Before change]

```
application/mozilla-ps application/postscript 33 pswrite
```

[After change]

```
application/mozilla-ps application/postscript 33 pstops
```

- When performing banner printing in Fedora 8 or Fedora 9, if you specify a setting other than [none] for [End] under [Banner] in the [General] sheet, the print queue will stop.
- If you are using Fedora 9, restarting the CCPD daemon may stop the kernel. You can avoid this problem by updating the kernel to "kernel-2.6.25.14-108.fc9".
- If you are using Fedora 11 and print with the print queue stopped after canceling a job, the job is suspended. In this case, click the [Maintenance] button in Printers in the CUPSWeb interface and select [Resume Printer] to perform the [pending since] job again.
If you cannot find the [Maintenance] button, you can select [Resume Printer] by selecting [Pause Printer].
- If you are using OpenSUSE 10.2 or SLED10SP1, which includes Ghostscript version 8.15.3, you may not be able to print some documents. To solve this problem, install another version of Ghostscript.
- If you are using OpenSUSE 11.0 with Ghostscript version 8.6.x, printing from Evince, GIMP, or other applications may take time.

- If you are using Adobe Reader 7.0.x, and modify such settings as Paper Size, Paper Source, Duplex Printing, etc. in the print dialog window, these options are automatically added to the printer command. However, these settings will not work because they cannot be recognized as command options. To solve this problem, use "-o" to separate each command options.

[before] -o InputSlot=Manual,Duplex=DuplexNotumble

[after] -o InputSlot=Manual -o Duplex=DuplexNoTumble

- When printing PDF files using Adobe Reader 8, there may be instances where some image data is not printed.
 This problem may be solved by printing using Adobe Reader 7 or Adobe Reader 9, or setting Level 3 in the PostScript options.

- When performing 2-sided printing with Adobe Reader 8.1.2, if you specify [ON (Short-edged Binding)] for [Duplex Printing] in the print properties for Adobe Reader 8.1.2, the document will be printed on both sides with long-edged binding.
 This problem can be avoided by printing the document using the printer driver UI.

- If you are using Vine Linux 3.1, you may take time to print from Adobe Reader 7.0.9 or may not be able to print some documents.

- When printing PDF files containing Japanese characters from the command line in Vine Linux 4.1, there may be instances where Ghostscript terminates unexpectedly, causing printing to stop.
 This problem can be avoided by printing PDF files using Adobe Reader.

- When printing PDF files from Adobe Reader 8 in Vine Linux 4.1, there may be instances where Ghostscript terminates unexpectedly, causing the print queue to stop.
 This is caused by Ghostscript (7.07) not being able to analyze PS files created by Adobe Reader 8, and consequently terminating prematurely, thereby stopping the filtering process.
 This problem can be avoided by using Adobe Reader 7.

- When printing text files in landscape orientation in Vine Linux 4.1,

Vine Linux 4.2, Fedora 8, Fedora 9, or RedHat Enterprise Linux v.5, there may be instances where the text file is printed in portrait orientation with some of the print data not being printed on the page. This is caused by the CUPS filter employed by the distribution you are using creating a PS command that is already set to portrait.

Also, some of the functions provided in the CUPS standard filter "texttops" may not operate correctly.

This problem can be avoided by changing the CUPS filter name specified in the "text/plain" entry line in the CUPS setting file "mime.convs" to the CUPS standard filter "texttops". This will result in Japanese characters being misprinted, therefore when printing Japanese characters, it is necessary to print a PS command created with a text editor or text/PostScript conversion program such as paps.

- If you specify Paper Source settings in the print dialog of an application such as Writer of OpenOffice.org, the settings made from the application are overridden by the printer driver UI settings. To print from the desired Paper Source, specify the Paper Source from the printer driver UI beforehand, or print from the command line.
- If you are using Debian GNU/Linux 4.0, a PPD file error may occur when you register the printer (PPD) with the print spooler. To solve this problem, use "-P (full path to the ppd)" instead of "-m" when you specify the ppd using the command line.

Example: /usr/sbin/lpadmin -p LBP5000

-P /usr/share/cups/model/CNCUPSLBP5000CAPTK.ppd

-v ccp://localhost:59687 -E

- If you are using Debian GNU/Linux 4.0 r6, and attempt to print a text file using the printer driver UI when EUC-JP is set as the locale, printing will fail.

This problem can be solved by printing a PS command created with a text editor or text/Postscript conversion program such as paps.

- If you are using Debian GNU/Linux 5.0.2, the gs-esp module is required to install the common module.

You can install the gs-esp module by executing the following command.

```
# apt-get install gs-esp
```

- If you are using Ubuntu 7.10, you may fail to print because it introduces security software called AppArmor.

As the workaround, disable the AppArmor CUPS profile by running
`sudo aa-complain cupsd` to enable printing.

For more details, see Ubuntu 7.10 Release Notes.

- If you are using Ubuntu 8.10, Ubuntu 9.04, Ubuntu 9.10, Ubuntu 10.04, Ubuntu 10.10, and Ubuntu 11.04, the printer will print with the default paper output method, regardless of whether you have specified the paper output method.

This problem can be solved by changing the output paper method setting from the CUPS printer settings (Web).

- If you are using Ubuntu 8.10, specifying reverse order for printing does not affect the print result.

This problem can be solved by updating CUPS.

- If you are using Ubuntu 8.10, Ubuntu 9.04, Ubuntu 9.10, Ubuntu 10.04, Ubuntu 10.10, and Ubuntu 11.04, when printing PDF data or PS data, brightness and gamma correction settings may not affect the print result.

- If you are using Ubuntu 7.04, Ubuntu 7.10, Ubuntu 8.04, Ubuntu 8.10, Ubuntu 9.04, Debian GNU/Linux 3.1, Debian GNU/Linux 4.0, or Debian GNU/Linux 5.0, the libcupsys2 library is required to install the common module.

You can install the libcupsys2 library by executing the following command.

```
# apt-get install libcupsys2
```

- If you are using Ubuntu 9.04 and update the CUPS version to "1.3.9-17ubuntu3.2", printing will fail due to improper PS data. You can avoid this problem by downgrading the CUPS version to "1.3.9-17ubuntu3.1".

<Downgrading with the apt-get command>

- Execute the following command.

```
# apt-get install cups=1.3.9-17ubuntu3.1
```

- If you are using Ubuntu 9.04, Ubuntu 9.10, Ubuntu 10.04, Ubuntu 10.10, Ubuntu 11.04, Fedora 11, Fedora 12, Fedora 13, Fedora 14, or Fedora 15, and print banner pages, the specified number of banner pages are printed.
- When printing PDF files from Adobe Reader in Mandriva, regardless of the version being used, there may be instances where Ghostscript terminates unexpectedly, causing the print queue to stop.

This is caused by Ghostscript (8.60) not being able to analyze PS commands created using PS files for which security settings have been specified, and consequently terminating prematurely, thereby stopping the filtering process. This problem can be avoided by not printing PDF files that have security settings using Adobe Reader.
- If you are using Mandriva One 2008 Spring or Mandriva 2008 PowerPack with CUPS version 1.3.6, unintended print results may occur even when printing with standard CUPS print functions.

This problem can be solved by updating CUPS.
- If you want to use multiple printers with the same device path (such as /dev/usb/lp0) on a USB connection, exit the ccpd daemon, and then add a printer when you switch the connection.

If you do not exit the ccpd daemon, you may not be able to obtain appropriate printout results.
- If 15 or more characters are specified for the host name of Linux, the printer status may not display properly in Status Monitor.
- If you are using printers of the same model with one computer, and one is connected via USB and another is connected via network, the printer status may not display properly in Status Monitor.
- If your version of Ghostscript is 8.6x, you may not be able to print some documents.
- If you are using CentOS 5.3, you cannot print the number of copies as you specified in Evidence.

You can solve this problem by printing from other PDF viewers such as Adobe Reader or using the following methods.

- 1) Set the number of copies to 1 and select a PS command for the output destination in Evince to output a file.
 - 2) Print the PS command output as a file after specifying the number of copies in cngplp.
- When updating and installing the printer driver from version 1.90 to version 2.40, you need to re-register the printer registered before updating and installing the printer driver.
 - When updating and installing the printer driver of the deb package from version 1.90 or earlier to version 2.40, the message to check if you install "ccpd.conf" included in the installation package may be displayed in the console.
In this case, install "ccpd.conf" included in the installation package.
 - Depending on the version of GTK (GIMP Toolkit), some characters may be unintelligible when displayed on the screen, but this does not indicate a problem with the functions and values set. Redraw the corresponding text area to solve this problem.
 - If you are using Fedora 12 or Ubuntu 9.10, when you change the default options from the CUPS Web interface, the default values will be saved even if there is a conflict between the settings for each function. Also, once the settings are saved with a conflict, you cannot save the settings again even if you use the Web interface to change them to the correct values where there is no conflict. If you display the [cngplp] dialog box in this situation, an invalid operation may occur.

You can use the following methods to solve this problem:

[Method 1] Fedora 12 (32-bit/64-bit) and Ubuntu 9.10

Re-register the printer that performed the invalid operation.

[Method 2] Fedora 12 (32-bit/64-bit)

Execute the following command to update CUPS:

<For Fedora 12 (32-bit)> # yum update cups.i686

<For Fedora 12 (64-bit)> # yum update cups.x86_64

- If you are using this driver in a 64-bit environment, and update a version 2.20 driver to version 2.30 or later, errors may occur when printing. This problem can be solved by uninstalling (`rpm -e [driver]`) then re-installing (`rpm -i [driver]`) the new driver. Alternatively, you can uninstall the old driver (`rpm -e [driver]`) instead of updating it, then install the new driver (`rpm -i [driver]`).
- To install the common module in the 64-bit version of Fedora 12, Fedora 13, Fedora 14, or Fedora 15, you need the 32-bit version glibc library. You can install the glibc library by executing the following command:

```
# yum install glibc.i686
```

Also, printer drivers from version 2.20 onward require the 32-bit version of the gcc, stdc, popt, and xml2 library. You can enable printing by executing the following command:

```
# yum install libgcc.i686
# yum install libstdc++.i686
# yum install popt.i686
# yum install libxml2.i686
```
- If you are using the 32-bit or 64-bit version of Fedora 13, Fedora 14, Fedora 15, and print a TIFF or JPEG file from the driver UI or command line, the printed image may be broken up. This problem can be solved by outputting the file as a PostScript file from an application such as GIMP, then printing from the command line by typing the PostScript command used to output the file after `[cngplp]`.
- If you are using Fedora 12, Fedora 13, Fedora 14, or Fedora 15, even if you specify the brightness and gamma settings from the driver UI or the command line, these settings are not applied to the printed result from the second page onward. This is due to these functions not being enabled because Ghostscript does not correctly recognize the PostScript data created by the application.
- About printing from Fedora 15
When printing portrait orientation PDF data by default from `cngplp` in Fedora 15, images may lie outside the paper (a landscape orientation image is printed on portrait orientation paper).

[Avoidance plan 1]

Print from an application such as AdobeReader.

[Avoidance plan 2]

Convert PDF data to PS data from an application such as AdobeReader, and then print it from cngplp.

- About brightness settings in Ubuntu 11.04/Fedora 15

If you specify brightness 9 to 0 to print in Ubuntu 11.04 and Fedora 15, the brightness setting is not enable, print results are equivalent to when specifying brightness 100.

- About default paper sizes in Ubuntu 10.10, Ubuntu 11.04, Fedora 14, Fedora 15

When registering the printer for U.S., the default paper size may be A4 in Ubuntu 10.10, Ubuntu 11.04, Fedora 14, Fedora 15.

You can avoid this circumstance by registering the printer using the following procedures.

[Avoidance plan 1]

Register "-P" instead of "-m" to the option which specifies the PPD files for the lpadmin command. (When specifying PPD files with "-P", specify an absolute or relative path for the PPD files.)

```
Example: # /usr/sbin/lpadmin -p [Printer registration name]
        -P [PPD file path] -v lpd: [Device URI] -E
```

[Avoidance plan 2]

Add "DefaultPaperSize Auto" to "/etc/cups/cupsd.conf", and then restart CUPS to register the printer.

- About TIFF or JPEG image printing

When printing TIFF or JPEG images from cngplp or command line, the printed images may be divided on multiple pages.

[Avoidance plan]

You can avoid this circumstance by printing a PS command which is output using cngplp or command line after outputting PostScript files from the applications such as GIMP.

- To use the printer driver, Ghostscript which includes the common API is required.

Before installing the printer driver, check that Ghostscript is installed.

You can check using the following command in terminal software such as

GNOME Terminal.

```
% gs -h | grep opvp
```

If opvp or oprp is displayed, Ghostscript which includes the common API is installed. If nothing is displayed, see the following URL to obtain Ghostscript.
<http://opfc.sourceforge.jp/index.html.en>

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Support

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