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Canon CAPT Printer Driver for Linux Version 1.60

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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 operates 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-1.6xE.txt (This document)

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

- LICENSE-captdrv-1.6xE.txt

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

- guide-capt-1.6xE.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-1.60-x.i386.rpm

- cndrvcups-common\_1.60-x\_i386.deb

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

- cndrvcups-capt-1.60-x.i386.rpm

- cndrvcups-capt\_1.60-x\_i386.deb

Installation package for the Canon CAPT Printer Driver for Linux.

- cndrvcups-common-1.60-x.tar.gz

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

- cndrvcups-capt-1.60-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)

Object Printer: LBP5100  
                  LBP5300  
                  LBP3500  
                  LBP3300  
                  LBP5000  
                  LBP3210  
                  LBP3000  
                  LBP2900  
                  LBP3200  
                  LBP-1120/1210

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 -----

- Ghostscript which includes common API is required to use this printer driver. Make sure to install Ghostscript before installing this printer driver. Refer to the following URL to find out how to get Ghostscript.  
<http://opfc.sourceforge.jp/index.html.en>
- If you install "cndrv cups-common" package version 1.60, make sure you install the same version of the "cndrv cups-capt" package, i.e. 1.60.
- When specifying multiple pages/copies for [Pages per sheet] 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 [Number of 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.

- If you set [Filter] to [HP-GL/2 options] in the [Filter] sheet of the printer driver screen, due to a cause of operation by the CUPS module, the [Pen width] setting is 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.
- 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 [Paper 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 LBP5100, LBP5300, LBP3500, LBP3300 or LBP5000, 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] sheet to [Off] or specifying the printer setting not to use the Skip Blank Pages mode from the command line.

- If you are using LBP3500, LBP3300 or LBP5000 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 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 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 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
```

- If you are using Fedora Core 5 or later, when SELinux is set to Enforcing or Permissive, you cannot print with the default settings. You can enable printing by changing the settings as follows.

- 1) Open System menu ->[Administration] ->[Security Level and Firewall].
- 2) Select [SELinux]tab ->[Modify SELinux Policy] ->[Printing].
- 3) Check the 4 check boxes under [Printing].
- 4) Click [OK] to close the window.

- If you are using Fedora 7, and if SELinux is set to Enforce, you need to install a policy package using the following method. (You do not need to install a policy package if Permissive is specified.)

<Preparation>

- 1) Install the printer driver package, then specify the settings for the printer.
  - \* Please see the online manual about the install method and the setting method.
- 2) Check if the checkpolicy package is installed.

```
# rpm -qa | grep checkpolicy
```

If the package name is not displayed, install the package using the following command.

```
# yum install checkpolicy
```
- 3) Set SELinux to Enforcing.
  1. From the menu bar, select [System] - [Administration] - [SELinux Management].
  2. In the dialog box, set [System Default Enforcing Mode] to [Enforcing], and then click [OK].
- 4) Restart Linux.

<Creating and installing a policy package>

- 1) Set SELinux to Permissive.

```
# /usr/sbin/setenforce 0
```
- 2) Print to the object printer.

Example: Printing the CUPS text document to LBPxxxx

```
# lpr -P LBPxxxx /usr/share/cups/data/testprint.ps
```

3) Create a policy package.

```
# audit2allow -M cncapt -l -i /var/log/audit/audit.log
```

4) Install the policy package.

```
# /usr/sbin/semodule -i cncapt.pp
```

5) Restart Linux.

- 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 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
  
- If you are using Vine3.1, you may take time to print from Adobe Reader 7.0.9 or may not be able to print some documents.
  
- 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:/var/ccpd/fifo0 -E
  
- If you are using Ubuntu7.04 or Debian GNU/Linux 4.0, the driver UI may display unintelligible characters. To solve this problem, copy the file

"/etc/gtk/gtkrc.ja" as "/etc/gtk/gtkrc.ja.utf8", then edit the first line and the last line in the "gtkrc.ja.utf8" as follows:

[before change]: "gtk-default-ja"

[after change]: "gtk-default-ja-utf8"

- If you are using Ubuntu7.10, 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 Ubuntu7.10 Release Notes.
  
- 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.

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Support  
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