

CITIZEN

JavaPOS DRIVER 1.11 for 64bit Setup Guide

For Ver. 1.11.3.5

CITIZEN SYSTEMS JAPAN CO., LTD.

Revision Record

Date	Version	Description
2012/12/25	1.11.2.7a	New release for Ethernet of Linux 64bit OS.
2013/03/11	1.11.2.8	- Changed the installation files of this product. - Changed the jpos.xml setting example.
2014/01/17	1.11.3.0	Updated the version number only.
2015/02/16	1.11.3.2	- The CT-S251, CT-S601II/651II/801II/851II model was added to each item.
2015/09/30	1.11.3.3	- Added Windows to the supported OS. - Added USB to the supported interface. - Added CT-S281, CT-S310II to the supported models.
2016/11/28	1.11.3.4	- Added CT-D150/CT-E351 to the supported models.
2017/06/13	1.11.3.5	- Added CT-D151/CT-E651 to the supported models. (Page 5,6,17,19)

Notes

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1. About the Product

This driver provides an open device driver architecture that can easily integrate the CITIZEN POS printer and the cash drawer connected to it by the POS system based on Java.

2. Operating Environments

2.1. Operating System

This driver supports the following operating systems.

- Windows7, Windows8, Windows8.1, Windows10 (64bit)
- Linux (64bit)

* Tested Linux OS: CentOS7.1, Ubuntu12.04, Ubuntu14.04

2.2. Java Virtual Machine

This driver supports the following 64bit Java Virtual Machine.

- Version 5 and higher

* Tested version: Version 6 Update 45, Version 7 Update 72, Version 8 Update 60

2.3. Supported Models

Supported models of this product and the corresponding interface are as shown below.

For details of each model, refer to the Printer User's Guide.

Windows environment

Series of Model	Supported Model	Interface	Printer Functions
CT-D150	CT-D150	USB, Ethernet	Standard
CT-D151	CT-D151	USB, Ethernet	Standard
CT-E351	CT-E351	USB, Ethernet	Standard
CT-E651	CT-E651	USB, Ethernet	Standard
CT-S251	CT-S251	USB, Ethernet	Standard
CT-S281	CT-S281/281BT/281BD	USB	Standard
	CT-S281-XL-M1		Blackmark paper is supported
	CT-S281-XL		Label paper is supported.
CT-S310	CT-S310	USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S310-M1/M2		Paper with blackmark on back side is supported.
CT-S310II	CT-S310II	USB, Ethernet	Standard
CT-S601/651/801/851	CT-S601/651/801/851	USB, Ethernet	Standard
	CT-S801/851-M		Blackmark paper is supported
	CT-S801-L		Label paper is supported.
CT-S601II/651II/801II/851II	CT-S601II/651II/801II/851II	USB, Ethernet	Standard
	CT-S801II/851II-M		Blackmark paper is supported
	CT-S801II-L		Label paper is supported.

CT-S2000	CT-S2000	USB, Ethernet	Standard
	CT-S2000-M		Blackmark paper is supported
	CT-S2000-L		Label paper is supported.
CT-S4000	CT-S4000	USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S4000-M		Paper with blackmark on back side is supported.
	CT-S4000-L		Label paper is supported.
CD-S500	CD-S500	USB, Ethernet	Standard type (Without cutting feature)
	CD-S501		With cutting feature
	CD-S503		Rewinder equipped (With cutting feature)

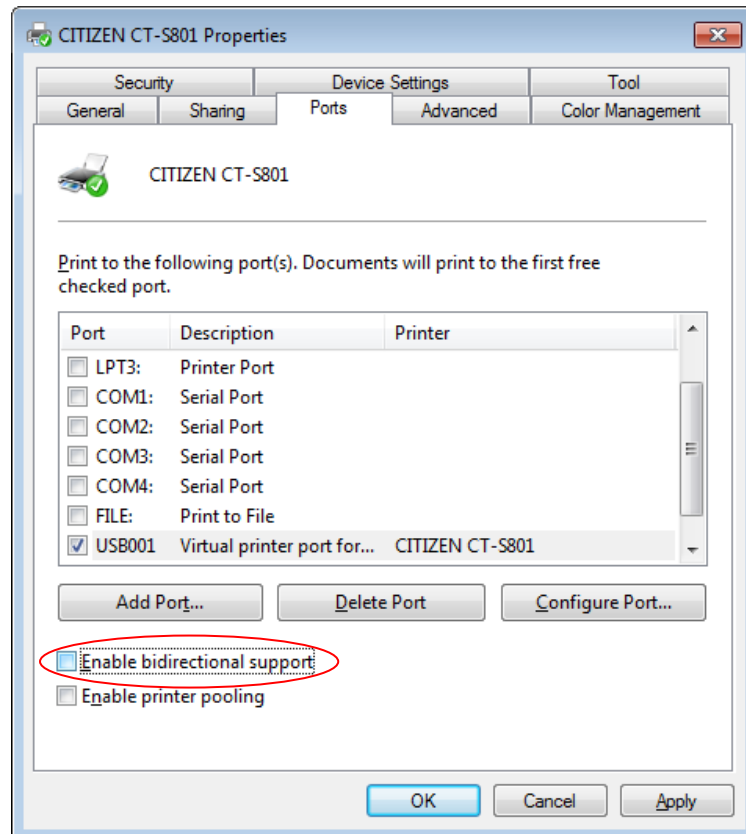
Linux environment

Series of Model	Supported Model	Interface	Printer Functions
CT-D150	CT-D150	USB, Ethernet	Standard
CT-D151	CT-D151	USB, Ethernet	Standard
CT-E351	CT-E351	USB, Ethernet	Standard
CT-E651	CT-E651	USB, Ethernet	Standard
CT-S251	CT-S251	USB, Ethernet	Standard
CT-S281	CT-S281/281BT/281BD	USB	Standard
	CT-S281-XL-M1		Blackmark paper is supported
	CT-S281-XL		Label paper is supported.
CT-S310	CT-S310	USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S310-M1/M2		Paper with blackmark on back side is supported.
CT-S310II	CT-S310II	USB, Ethernet	Standard
CT-S601/651/801/851	CT-S601/651/801/851	USB, Ethernet	Standard
	CT-S801/851-M		Blackmark paper is supported
	CT-S801-L		Label paper is supported.
CT-S601II/651II/801II/851II	CT-S601II/651II/801II/851II	USB, Ethernet	Standard
	CT-S801II/851II-M		Blackmark paper is supported
	CT-S801II-L		Label paper is supported.
CT-S2000	CT-S2000	USB, Ethernet	Standard
	CT-S2000-M		Blackmark paper is supported
	CT-S2000-L		Label paper is supported.
CT-S4000	CT-S4000	USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S4000-M		Paper with blackmark on back side is supported.
	CT-S4000-L		Label paper is supported.
CD-S500	CD-S500	USB, Ethernet	Standard type (Without cutting feature)
	CD-S501		With cutting feature
	CD-S503		Rewinder equipped (With cutting feature)

2.4. USB Interface Connection of the Windows environment

Installation of printer driver is required when using this product with USB connection of the Windows environment. Perform the installation of Windows Driver. Designate USB Interface Port (Virtual Printer Port for USB) which is designated by the Windows Driver at JavaPOS Driver side.

This driver cannot be used with the status function (language monitor) of the Windows driver that shows the printer status. When using this driver, **install the Windows driver without the status function, or uncheck the "Enable bidirectional support" option under the Ports setting of the Windows driver.** (Need to reboot the computer in order for the changes to take effect.)



3. Installation

3.1. Pre-Installation Instructions

Please download the file according to your operating system from the URL below to get the latest Java for your computer and install the Java run time environment in your system.

Note that Java version 5 or higher is required.

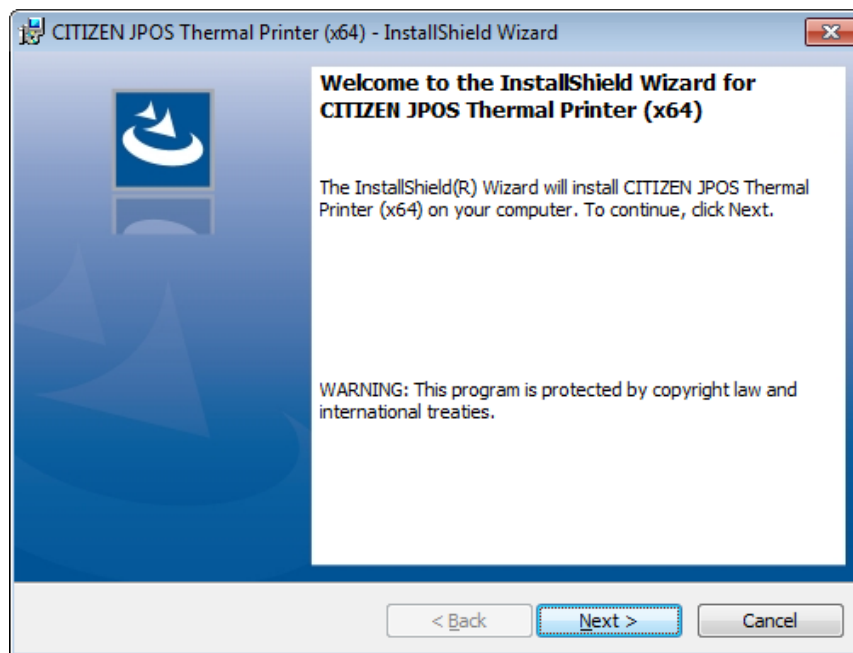
<http://www.java.com/>

Before installation, shut down all applications in operation.

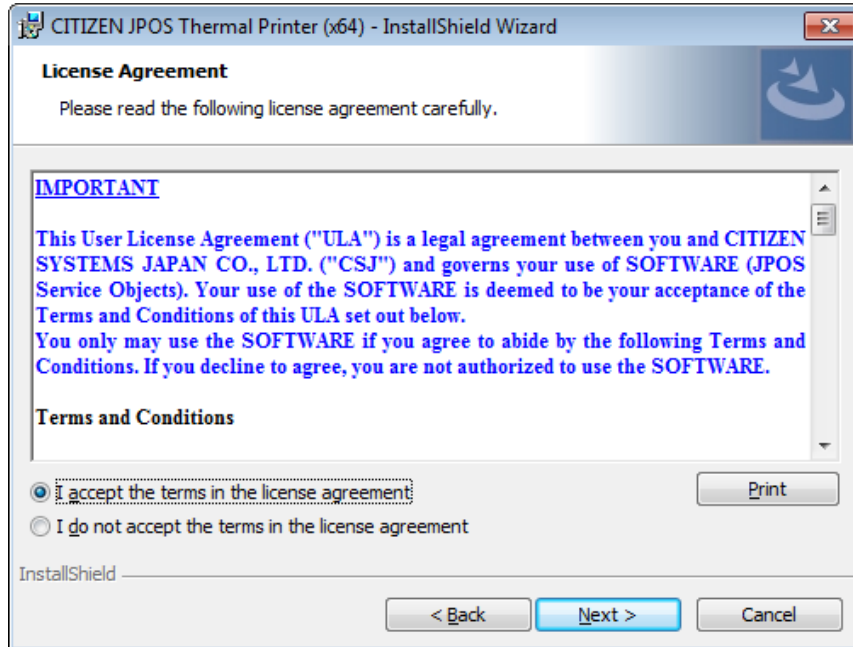
The installer should be run with Administrator (Windows) or root (Linux) privileges.

3.2. Installation Steps for Windows

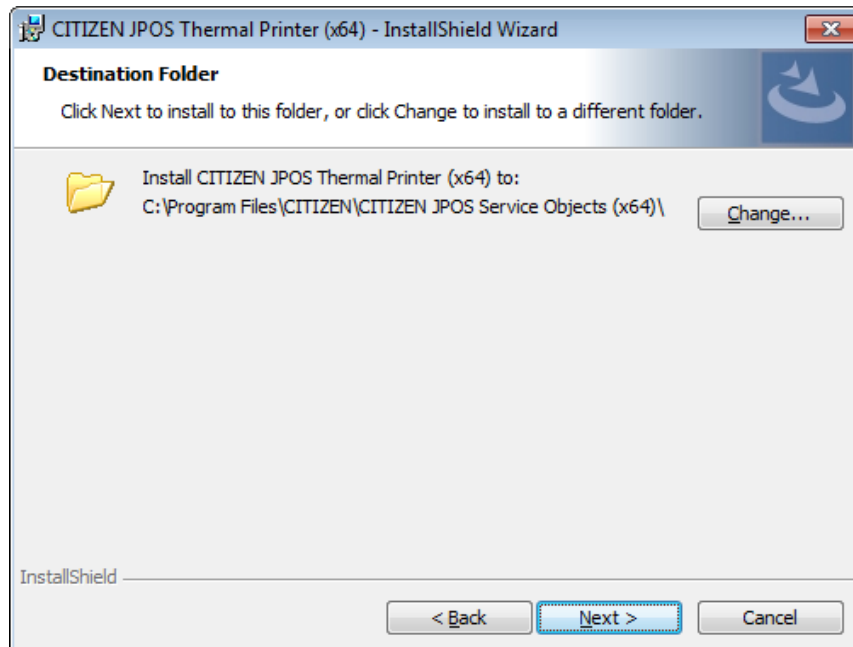
- 1) The installer for Windows is "CSJ_JPOSxxxxx_setup64EN.exe" (xxxxx is version number).
To run the installer, double click on it. After starting, follow the installation procedure in accordance with the dialog.
- 2) Setup wizard starts. Click [Next].



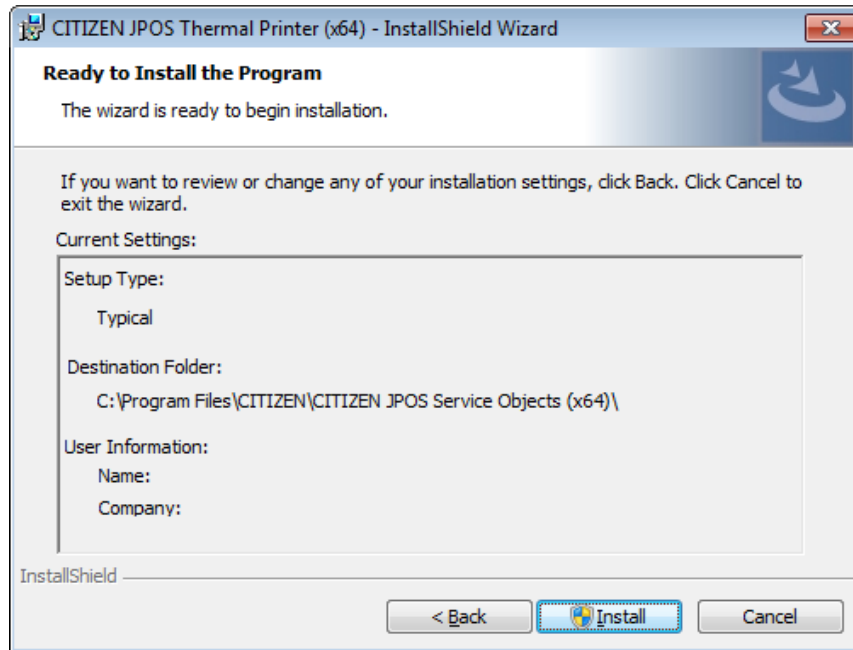
- 3) "License Agreement" window is displayed. If you agree with the product license agreement, select "I accept the terms in the license agreement" and click [Next]. If you do not agree with the product license agreement, select "I do not accept the terms in the agreement" and click [Next] to exit the wizard.



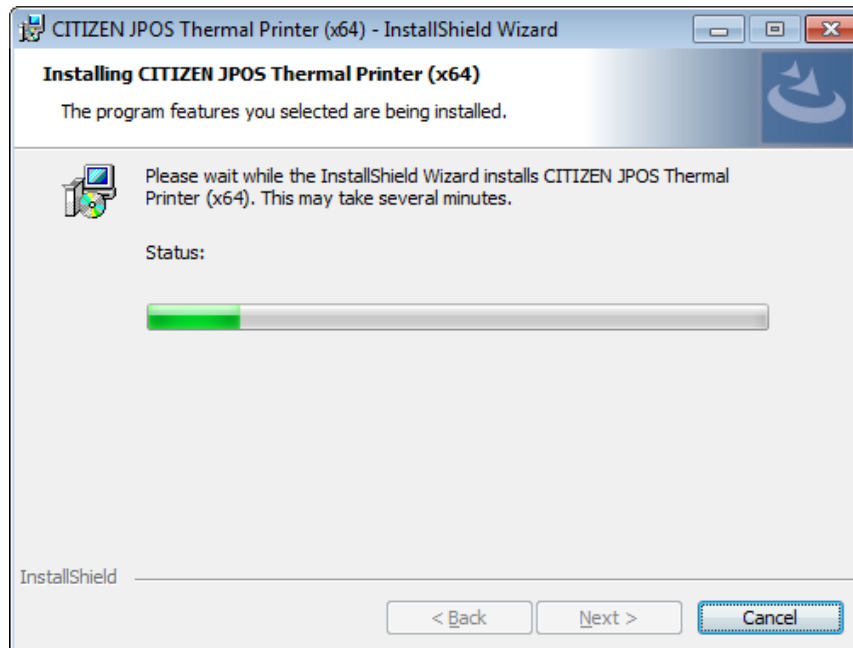
- 4) "Destination Folder" window is displayed. Specify the folder to install. If you use a default folder, click [Next]. If you want to change the folder, change the folder you want to install.



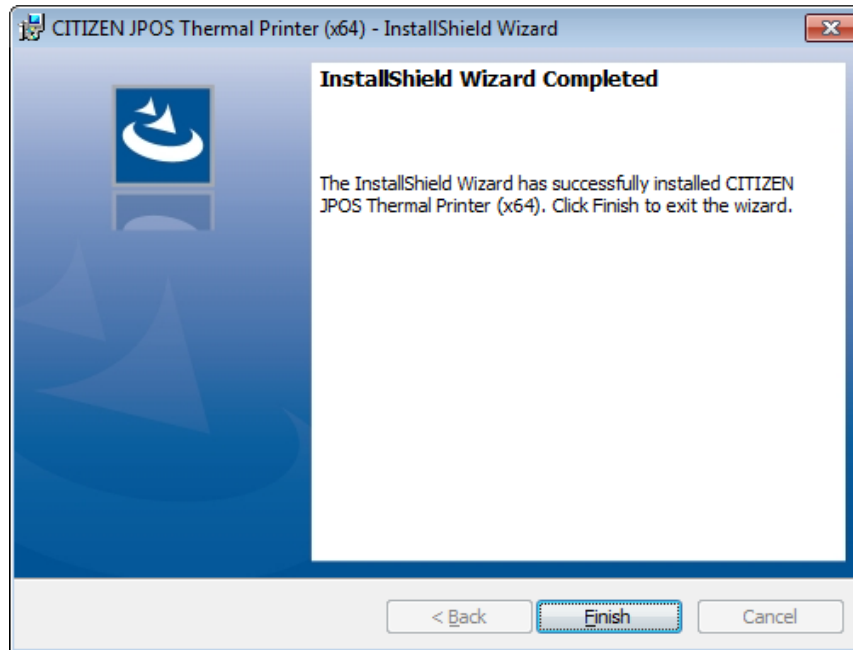
- 5) Click [Install] to begin the installation.



- 6) The installation progress status window is displayed. (It may take longer time to install depending on the environment or specifications of the terminal.)



- 7) When the installation is successful, "Installation Completed" window is displayed. Click [Close].



- 8) The following provides the description on the installation files of this product.

c:\program files\CITIZEN\CITIZEN JPOS Service Object (64bit) (default)

JPOSApplication.bat	: Test application execute file
JPOSConfig.bat	: Configuration (JCL) execute file
jpos.xml	: JavaPOS configuration file
CBMjpos.jar	: CITIZEN JavaPOS driver library
JPOSApplication.jar	: Test application library
jcl.jar	: jpos.config/loader (JCL) library
jpos18-controls.jar	: JavaPOS service object library
lib\comm.jar	: Library for driver
lib\jna.jar	: Library for driver
lib\xerces2.jar	: Library for driver
lib\xerces-2.6.0.jar	: Library for driver
lib\swing-layout-1.0.jar	: Library for test application
CSJjposBcw.dll	: Expansion library for driver
CSJjposCom.dll	: Expansion library for driver
ReleaseNotes_EN.txt	: Release Notes file
Log	: Work folder for test application
Macro	: Work folder for test application
Sample	: Sample code folder

3.3. Installation Steps for Linux

- 1) The installer for Linux is "CSJ_JPOSxxxxx_setup64EN.bin" (xxxxx is version number, self-extracting file). Please make sure the JAVA_HOME environment property is set to the Java runtime environment installation folder. To run the installer, open the terminal window, change to the directory in which the installer is located, and type "./CSJ_JPOSxxxxx_setpu64EN.bin" (xxxxx is version number).

After starting, follow the installation procedure in accordance with the dialog.

- 2) Installer starts. Type the space key.

```

root:~
-----
CITIZEN JPOS Thermal Printer Setup
-----

IMPORTANT

This User License Agreement ("ULA") is a legal agreement between
you and CITIZEN SYSTEMS JAPAN CO., LTD. ("CSJ") and governs your
use of SOFTWARE (Driver & Software). Your use of the SOFTWARE
is deemed to be your acceptance of the Terms and Conditions of
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-More--

```

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```

root:~
SOFTWARE IS ENTIRELY AT YOUR OWN RISK. SHOULD THE SOFTWARE PROVE
DEFECTIVE, YOU ASSUME THE ENTIRE COST OF ALL SERVICE, REPAIR OR
CORRECTION AND, TO THE EXTENT PERMITTED BY THE APPLICABLE LAW,
YOU AGREE TO UNCONDITIONALLY WAIVE ALL STATUTORY OR OTHER RIGHTS
THAT MAY BE HELD BY YOU AGAINST CSJ IN RESPECT OF SUCH DEFECT.
Notwithstanding the above, these terms do not purport to limit
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the applicable law.

5. Term.
This ULA will become effective upon your acceptance and continue
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retains the right to terminate this ULA without cause or notice.

6. Governing Law.
This ULA is governed by and construed in accordance with the
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declared void, such provisions shall be severable and independent
from the other provisions of this ULA, and the validity of the
other provisions and of the entire ULA shall not be affected.

Do you agree to the above license terms? [yes or no]
yes

```

- 4) When the installation is successful, installed places is displayed.

```

root:~
CSJ_JPOS11133_Linux64EN/lib/jna.jar
CSJ_JPOS11133_Linux64EN/lib/LinuxCommLib.jar
CSJ_JPOS11133_Linux64EN/lib/xerces-2.6.0.jar
CSJ_JPOS11133_Linux64EN/libCSJjposCom.so
CSJ_JPOS11133_Linux64EN/JPOSApplication.jar
CSJ_JPOS11133_Linux64EN/jcl.jar
CSJ_JPOS11133_Linux64EN/jpos.xml
CSJ_JPOS11133_Linux64EN/CBMjpos.jar
CSJ_JPOS11133_Linux64EN/Sample/
CSJ_JPOS11133_Linux64EN/Sample/Sample01.bmp
CSJ_JPOS11133_Linux64EN/Sample/Sample.java
CSJ_JPOS11133_Linux64EN/JPOSConfig.sh
CSJ_JPOS11133_Linux64EN/libCSJjposBcw.so
CSJ_JPOS11133_Linux64EN/ReleaseNotes_EN.txt
CSJ_JPOS11133_Linux64EN/JPOSApplication.sh
CSJ_JPOS11133_Linux64EN/Log/

Done.

CITIZEN JPOS Service Objects was installed in the following places.

  /usr/local/CITIZEN/JPOS_Service_Objects

#

```

- 5) The following provides the description on the installation files of this product.

/usr/local/CITIZEN/JPOS_Service_Object

JPOSApplication.sh	: test application execute file
JPOSConfig.sh	: configuration (JCL) execute file
jpos.xml	: JavaPOS configuration file
CBMjpos.jar	: CITIZEN JavaPOS driver library
JPOSApplication.jar	: Test application library
jcl.jar	: jpos.config/loader (JCL) library
jpos18-controls.jar	: JavaPOS service object library
lib/LinuxCommAPI.jar	: Library for driver
lib/LinuxCommLib.jar	: Library for driver
lib/comm.jar	: Library for driver
lib/jna.jar	: Library for driver
lib/xerces2.jar	: Library for driver
lib/xerces-2.6.0.jar	: Library for driver
lib/swing-layout-1.0.jar	: Library for test application
ReleaseNotes_EN.txt	: Release Notes file
Log	: work directory for test application
Macro	: work directory for test application
Sample	: sample code directory
\$JAVA_HOME/lib/amd64	(JAVA_HOME is the Java runtime environment installation folder)
libCSJjposBcw.so	: Expansion library for driver
libCSJjposCom.so	: Expansion library for driver

3.4. How to use the Driver for windows

Change to the Windows installation folder and double clicking the following file.

For starting the test application

JPOSApplication.bat

For starting the JPOS entry editor

JPOSConfig.bat

3.5. How to use the Driver for Linux

Open the terminal window and change to the Linux installation directory and type the following command on the command prompt.

For starting the test application

./JPOSApplication.sh

For starting the JPOS entry editor

./JPOSConfig.sh

3.6. Setting of JavaPOS entry

In order for Control Object to be connected to Service Object exactly and initialize the corresponding device, the JavaPOS control requires data of the jpos.xml file.

The following is the jpos.xml setting when it connects CT-S801 (printer) by USB as an example. It is necessary to revise a value of "PortName".

```
<JposEntry logicalName="CITIZEN S801 USB Windows">
  <creation factoryClass="jpos.loader.simple.SimpleJPOSServiceInstanceFactory"
    serviceClass="jpos.services.Citizen801PrinterServices"/>
  <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
  <jpos category="POSPrinter" version="1.11"/>
  <product description="Jpos printer driver" name="CITIZEN CT-S801 POS printer"
    url="http://www.citizen-systems.co.jp"/>

  <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801 POS Printer"/>
  <prop name="PortName" type="String" value="USB001"/>
  <prop name="PrinterLanguage" type="String" value="8"/>
  <prop name="Columns" type="String" value="48"/>
  <prop name="CharacterSet" type="String" value="932"/>
  <prop name="UseNVRAM" type="String" value="0"/>
  <prop name="PaperModel" type="String" value="80mm"/>
  <prop name="deviceBus" type="String" value="USB"/>
  <prop name="ResponseCheck" type="String" value="1"/>
</JposEntry>
```

The following is the jpos.xml setting when it connects CT-S801 (printer) by Ethernet as an example. It is necessary to revise a value of "PortName" and "IPAddress".

```
<JposEntry logicalName="CITIZEN S801 Ethernet Windows">
  <creation factoryClass="jpos.loader.simple.SimpleJPOSServiceInstanceFactory"
    serviceClass="jpos.services.Citizen801PrinterServices"/>
  <vendor name="CITIZEN" url="http://www.citizen-systems.co.jp"/>
  <jpos category="POSPrinter" version="1.11"/>
  <product description="Jpos printer driver" name="CITIZEN CT-S801 POS printer"
    url="http://www.citizen-systems.co.jp"/>

  <prop name="PhysicalDevice" type="String" value="CITIZEN CT-S801 POS printer"/>
  <prop name="PortName" type="String" value="IP_192.168.82.21"/>
  <prop name="PrinterLanguage" type="String" value="8"/>
  <prop name="PortNumber" type="String" value="9100"/>
  <prop name="Columns" type="String" value="48"/>
  <prop name="CharacterSet" type="String" value="437"/>
  <prop name="UseNVRAM" type="String" value="0"/>
  <prop name="PaperModel" type="String" value="80mm"/>
  <prop name="deviceBus" type="String" value="Ethernet"/>
  <prop name="IPAddress" type="String" value="192.168.82.21"/>
  <prop name="ResponseCheck" type="String" value="1"/>
</JposEntry>
```

4. Printer Setting

Using this product assumes that the DIP switch and memory switch of the printer are set as shown below. For the details of the method of operating each switch and the content of setting, refer to User's Guide of each model.

4.1. CT-D150 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	OFF	Enabled
1-2	Buffer Size	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial I/F is used)	OFF	DSR
1-8	Init signal (when serial I/F is used)	OFF	-
2-2	Auto cutter	ON	Enabled
2-4	Full Col Print	ON	Wait Data
3-1	Resume Ctrr Err	OFF	L/F enabled
3-7	CBM1000 Mode	ON	Compatible
3-8	Resume Open Err	OFF	Auto restore
4-8	Partial Only	OFF	Disabled
5-2	Line pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS(CP932)	-

4.2. CT-D151 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	OFF	Enabled
1-2	Buffer Size	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial I/F is used)	OFF	DSR
1-8	Init signal (when serial I/F is used)	OFF	-
2-2	Auto cutter	ON	Enabled
2-4	Full Col Print	ON	Wait Data
3-1	Resume Ctrr Err	OFF	L/F enabled
3-7	CBM1000 Mode	ON	Compatible
3-8	Resume Open Err	OFF	Auto restore
4-8	Partial Only	OFF	Disabled
5-2	Line pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS(CP932)	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

4.3. CT-E351 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	OFF	Enabled
1-2	Buffer Size	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial I/F is used)	OFF	DSR
1-8	Init signal (when serial I/F is used)	OFF	-
2-2	Auto cutter	ON	Enabled
2-4	Full Col Print	ON	Wait Data
3-1	Resume Ctrr Err	OFF	L/F enabled
3-7	CBM1000 Mode	ON	Compatible
3-8	Resume Open Err	OFF	Auto restore
4-8	Partial Only	OFF	Disabled
5-2	Line pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS(CP932)	-

4.4. CT-E651 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	OFF	Enabled
1-2	Buffer Size	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial I/F is used)	OFF	DSR
1-8	Init signal (when serial I/F is used)	OFF	-
2-2	Auto cutter	ON	Enabled
2-4	Full Col Print	ON	Wait Data
3-1	Resume Ctrr Err	OFF	L/F enabled
3-7	CBM1000 Mode	ON	Compatible
3-8	Resume Open Err	OFF	Auto restore
4-8	Partial Only	OFF	Disabled
5-2	Line pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char V/H	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-Byte Char	SJIS(CP932)	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

4.5. CT-S251 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	Wait Data
3-1	Auto cutter restore	OFF	L/F enabled
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
8-6	Auto Side Shift	Invalid	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

4.6. CT-S281 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	Wait Data
3-1	Auto cutter restore	OFF	L/F enabled
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
8-6	Auto Side Shift	Invalid	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

4.7. CT-S310 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial I/F is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	DSR signal (when serial interface is used)	OFF	DSR
1-8	INIT signal (when serial interface is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	WaitData
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31 Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Full cut command	OFF	Full cut
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-

4.8. CT-S310II Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	WaitData
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
8-6	Auto Side Shift	Invalid	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-

4.9. CT-S601/651/801/851 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial I/F is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	WaitData
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-

4.10. CT-S601II/651II/801II/851II Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial I/F is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	WaitData
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
6-1	Act. For Driver	ON	Valid
7-6	DMA control	Enabled	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
8-6	Auto Side Shift	Invalid	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-4	Multi-byte Char	SJIS(CP932)	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-
13-6	Auto Reconnect (when Bluetooth I/F is used)	Invalid	-

4.11. CT-S2000 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial I/F is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial I/F is used)	OFF	DSR
1-8	Select INIT signal (when serial I/F is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	WaitData
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
7-6	DMA control	Enabled	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-

4.12. CT-S4000 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial I/F is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON notify setting	OFF	Enabled
1-2	Input buffer	OFF	4KB
1-3	Busy condition	ON	Buffer full
1-4	Receiving error character	OFF	Character?
1-5	CR mode	OFF	Disabled
1-7	Select DSR signal (when serial interface is used)	OFF	DSR
1-8	Select INIT signal (when serial interface is used)	OFF	-
2-2	Auto cutter operation	ON	Enabled
2-4	Full Col Print	ON	WaitData
3-1	Auto cutter restore	OFF	L/F enabled
3-3	Parallel 31Pin (when USB I/F are used)	OFF	Reset
3-7	CBM1000-compatible mode	ON	Compatible
3-8	Cover opened while printing	OFF	Auto restore
4-8	Forced partial	OFF	Disabled
5-2	Vertical basic calculation pitch	OFF	360 dots
5-5	Power OFF notify	Disabled	-
7-6	DMA control	Enabled	-
9-1	Code page	Katakana	-
9-2	Foreign language characters	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift-JIS	Shift-JIS	-
10-3	ACK output timing (when USB I/F are used)	Before BUSY	-

4.13. CD-S500 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial I/F is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
SoftCtrl-1	Command Type	EPSON	-
SoftCtrl-5	Paper End (when USB and parallel I/F are used)	DIS	At paper end Only Busy signal is output.
SoftCtrl-6	Paper Near-End (when USB and parallel I/F are used)	DIS	At paper near-end Signal not output
SoftCtrl-8	Print Direct (Specifies print direction)	BI-DIR	Print from right or left end nearer from the print stop position.
SoftCtrl-9	Auto LF	OFF	-
SoftCtrl-11	Buffer Size	4Kbyte	-
SoftCtrl-12	Init Signal	ENB	Initialize signal enabled
Mechanical-2	Auto-Cutter	FREE	-
Mechanical-3	Color Ribbon	ON	Command switching

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