

JavaPOS Driver V2.00

User Manual for Linux

2016-06-01

1 JavaPOS Version

- Our JavaPOS driver now is compatible with JavaPOS1.7.

2 Install the Java2 Runtime Environment

The JRE is Java's virtual machine that allows for applications to run on the host computer. To be able to run the JavaPOS application, you need a 1.7 version JRE. Ignore the following steps if you already have a JavaPOS1.7 or a later version in your host computer.

- Go to <http://java.sun.com>, and select this version of Java Runtime Environment.
- Install the program following the instructions.

3 Install the Service Object and JavaPOS files

In the "\Driver" folder, there are two files: ZbtJavapos.jar and jpos.xml. Please include ZbtJavapos.jar at your CLASSPATH and also copy the related "JPosEntry" option from the jpos.xml to your application's jpos.xml.

4 How to use RS232 scanner with JavaPOS Driver

4.1 Install the Java RXTXcomm API

In the \RXTXcomm folder, there are four files: librxTxSerial.so , librxTxParallel.so, and RXTXcomm.jar. Please do the following steps to install the library.

1. Copy librxTxSerial.so and librxTxParallel .so to /usr/lib/.
2. Copy RXTXcomm.jar to your <JRE Install Folder>\lib directory.

4.2 Use barcodes to configure the Handheld scanner

JavaPOS configuration barcodes:

2D scanner settings

JPOS RS232 mode



1D scanner settings

Start of Configuration



RESET



RS-232



Code ID Enable



End of Configuration



4.3 Use barcodes to configure the omnidirectional Laser scanner

JavaPOS configuration barcodes:

Enter/Exit Programming Mode



RESET



RS-232



Code ID Enable



Enter/Exit Programming Mode



4.4 Running the JavaPOS Test utility

Please run the test application POStest.sh to evaluate your installation.

4.5 How to use JavaPOS driver at your application

1. Add "ZbtJavaPos.jar" from the "\Driver" folder to the CLASSPATH and copy the related "JPosEntry" option from the "jpos.xml".
2. Modify the jpos.xml based on your COM Port
3. Example of jpos.xml file content

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
        "jpos/res/jcl.dtd">
<JposEntries>
<!--Saved by JavaPOS jpos.config/loader (JCL) version 2.2.0 on 2010/3/11 10:16-->

    <JposEntry logicalName="Z3100">
        <creation factoryClass="com.zbt.jpos.ZbtJposServiceInstanceFactory"
serviceClass="com.zbt.jpos.ScannerService"/>
        <vendor name="" url=""/>
        <jpos category="Scanner" version="1.7"/>
        <product description="Scanners" name="Scanner" url=""/>

        <!--Other non JavaPOS required property (mostly vendor properties and bus specific properties
i.e. RS232 )-->
        <prop name="deviceType" type="String" value="1D"/>
        <prop name="deviceBus" type="String" value="RS232"/>
        <prop name="baudRate" type="String" value="9600"/>
        <prop name="parity" type="String" value="None"/>
        <prop name="portName" type="String" value="/dev/ttyS0"/>
        <prop name="flowControl" type="String" value="None"/>
        <prop name="stopBits" type="String" value="1"/>
        <prop name="dataBits" type="String" value="8"/>
    </JposEntry>

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
        "jpos/res/jcl.dtd">
<JposEntries>

</JposEntries>
```

Note: The default baud rate : 1D scanner =9600 ; 2D scanner =115200

5 How to use USB scanner with JavaPOS Driver

5.1 Configuring the Scanner via barcodes

- Scan the barcodes in the sequence below to configure the scanner to usb-serial mode.
JavaPOS configuration bar codes:

2D Settings:

JPOS USB mode



1D Settings:

Start of Configuration



RESET



USB-virtual COM



Code ID Enable



End of Configuration



5.2 Use barcodes to configure the omnidirectional Laser scanner

JavaPOS configuration barcodes:

Enter/Exit Programming Mode



RESET



USB for JavaPos



Enter/Exit Programming Mode



5.3 Install the Java RXTXcomm API

In the \RXTXcomm folder, there are four files: librxTxSerial.so , librxTxParallel.so, and RXTXcomm.jar. Please do the following steps to install the library.

1. Copy librxTxSerial.so and librxTxParallel .so to /usr/lib/.
2. Copy RXTXcomm.jar to your <JRE Install Folder>lib directory.

5.4 Running the JavaPOS Test utility

Please run the test application to evaluate your installation.

5.5 How to Use JavaPOS Driver at your application

1. In the "\Driver" folder, copy "**ZbtJavaPos.jar**" and "**jpos.xml**" to your work folder.
2. Modify the jpos.xml .
3. Example of jpos.xml file content

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
    "jpos/res/jcl.dtd">
<JposEntries>
<!--Saved by JavaPOS jpos.config/loader (JCL) version 2.2.0 on 2010/3/11 10:16-->

    <JposEntry logicalName="Z3392">
        <creation factoryClass="com.zbt.jpos.ZbtJposServiceInstanceFactory"
serviceClass="com.zbt.jpos.ScannerService"/>
        <vendor name="" url=""/>
        <jpos category="Scanner" version="1.7"/>
        <product description="Scanners" name="Scanner" url=""/>

        <!--Other non JavaPOS required property (mostly vendor properties and bus specific properties i.e.
RS232 )-->
        <prop name="deviceType" type="String" value="2D"/>
        <prop name="deviceBus" type="String" value="RS232"/>
        <prop name="baudRate" type="String" value="115200"/>
        <prop name="parity" type="String" value="None"/>
        <prop name="portName" type="String" value="/dev/ttyACM0"/>
        <prop name="flowControl" type="String" value="None"/>
        <prop name="stopBits" type="String" value="1"/>
        <prop name="dataBits" type="String" value="8"/>
    </JposEntry>

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
    "jpos/res/jcl.dtd">
<JposEntries>

</JposEntries>
```