Release Notes

Scanner SDK for Linux v4.4

October 2023

Contents

Overview

These release notes describe the JPOS driver for Linux, including its functionality, supported scanners and supported distributions.

Functionality,

1. JPOS driver.
2. Development libraries and header files for Java application developers.
3. Test and Sample utilities
   a. Scanner/Scale JPOS Driver Test Utility (Java).

JPOS Driver

1. XML configuration of scanner attributes.
2. Access to Zebra specific functionality through Direct I/O calls
3. Sample applications
   a. JPOS sample app
4. Logging support
5. JPOS exceptions for failures (Troubleshooting)

Host Device Details

See the "Installation Options (Supported Distributions)" table – shown below.

For the latest SDK updates, please visit [Zebra Scanner SDK](#)

For support, please visit http://www.zebra.com/support.

Device Compatibility

For the compatible devices list, please visit following page.

https://www.zebra.com/us/en/support-downloads/software/developer-tools/scanner-sdk-for-linux.html

Supported COM Protocols

JPOS driver for Linux support following communication protocols:

1. IBM Table-Top USB
2. IBM Hand-Held USB
3. Symbol Native API (SNAPI) with Imaging Interface
4. Symbol Native API (SNAPI) without Imaging Interface

Version History

Version 4.4.1-45 – 10/2023

1. Bug Fix - **Check Health** (Internal and External) now returns "No hardware" response, when no scanner(s) is connected on the USB bus.
2. Bug Fix – **Sample App** no longer shows incorrect **weight** when ReadWeight is called with Freeze Events enabled.
3. Bug Fix – Driver now returns **"Not Ready" scale status,** when scale is unplugged, while having live weight enabled.

Version 4.4.1-44 – 10/2023

1. Added support for **multiple JPOS Scanner instances** when communicating to one application. This enables the JPOS driver to communicate to and track multiple scanners simultaneously and independently, like the MP7000 and DS8178/cradle.
2. Added support to **filter scanner discovery by** host mode, model and serial number. The scanners are filtered by comm protocol. Additional filters can include Model Name and/or Serial number.
3. JPOS **Sample application** - Added support to create **multiple** JPOS **Scanner instances**.

Version 4.4.1-36 – 04/2023

1. Enhanced JPOS driver
   a. Bug fix in Sample App – Fixed error message incorrectly displayed in JPOS Sample application when Zero Scale command is called and weighing item below 30 grams.
   b. Update JPOS driver to fire Scale status update events whenever a status updates and a weight change is detected.
   c. Bug fix in Sample App – Made the display format for scale weight consistent in the sample application for Read Weight, Live Weight and Direct IO NCR Live Weight calls.
   d. Bug fix in JPOS Sample App – Fixed application lockup if enabling both live weight and auto disable simultaneously.

Version 4.4.1-33 – 10/2022

1. Enhanced JPOS driver
   a. Enhanced driver to support NCR requested "HealthCheck" label IDs.
   b. Bug fix – "Get Error Response" API now returns the correct error on Read Weight in Scale.
   c. Minor UI optimizations in the JPOS Sample Application for Windows.

Components

Component or Module	File	Installation Path
JPOS driver and SDK libraries	xml-apis.jar	/usr/lib/zebra-scanner/javapos/jpos/
	xercesImpl.jar	
	JposServiceScanner.jar	
	JposServiceScale.jar	

	JposServiceOnScanner.jar	
	JposServiceOnScale.jar	
	JposServiceJniScanner.jar	
	JposServiceJniScale.jar	
	JposLogger.jar	
	javaPOS114.jar	
	JLogger.jar	
	logback-core-1.2.3.jar	
	logback-classic-1.2.3.jar	
	lsf4j-api-1.7.25.jar	
CoreScanner libraries for JPOS JNI	libcs-jniscanner.so.4.0.0	/usr/lib/zebra-scanner/javapos/jni/
	libcs-jniscale.so.4.0.0	
	libcs-jniscanner.so -> libcs-jniscanner.so.4.0.0	
	libcs-jniscale.so -> libcs-jniscale.so.4.0.0	
JPOS sample application	JposTest.jar	/usr/share/zebra-scanner/samples/jpos-sample-app/
	jpos-sample-app.sh	
	build.xml	
JPOS based Remote Management Solution	jposRemoteManagement.jar	/usr/lib/zebra-scanner/javapos/jpos
	jposRemoteManagementTool.jar	/usr/share/zebra-scanner/remote-management
	remote-management.sh	
	jpos-remote-management.xml	/usr/share/zebra-scanner/javapos/xml/
JPOS configuration and property files	xml/jpos.xml	/usr/share/zebra-scanner/javapos/
	config/rsm-id.xml	

	config/rsm-id.dtd	
	config/jpos_trace.properties	
Source code for JPOS sample application	All .java files located inside the directory	/usr/share/zebra-scanner/samples/jpos-sample-app/src/com/jpos/POStest

Installation Options (Supported Distributions)

Supported distributions and their installation options.

Supported Architecture for CoreScanner and JPOS Drivers for Linux

Supported Distribution	RPM_x86_64bit (x86_64)	RPM_x86_32bit (i386)	Debian_x86_64bit (x86_64)	Debian_x86_32bit (i386)	Debian_ARM_32bit (armhf arm7l)	Debian_ARM_64bit (arm64)
CentOS 8.1	X	NA	NA	NA	NA	NA
CentOS 7.9	X	NA	NA	NA	NA	NA
CentOS 7.3	X	NA	NA	NA	NA	NA
CentOS 7	X	X	NA	NA	NA	NA
CentOS 6.3	X	X	NA	NA	NA	NA
SLES 15 SP3	X	NA	NA	NA	NA	NA
SLES 12 SP5	X	NA	NA	NA	NA	NA
SLES 11 SP3	X	X	NA	NA	NA	NA
SLES 11 SP2	X	X	NA	NA	NA	NA
Open SUSE 15.2	X	NA	NA	NA	NA	NA
Open SUSE 13.1	X	NA	NA	NA	NA	NA
Red Hat 7.4	X	NA	NA	NA	NA	NA
Ubuntu 22.04	NA	NA	X	NA	NA	NA
Ubuntu 20.04	NA	NA	X	NA	NA	NA
Ubuntu 18.04	NA	NA	X	NA	NA	X
Ubuntu 16.04	NA	NA	X	X	NA	NA
Ubuntu 14.04	NA	NA	X	X	NA	NA
Ubuntu 12.04	NA	NA	X	X	NA	NA
Debian 10.10	NA	NA	X	X	NA	NA
Debian 9.5	NA	NA	X	X	NA	NA
Debian 8	NA	NA	X	X	NA	NA
Debian 7	NA	NA	X	X	NA	NA
Raspberry Pi OS	NA	NA	NA	NA	X	X
Other *	NA	NA	NA	NA	NA	NA

* Customer Testing Required

Dependencies and Package Installation

Dependencies for CoreScanner Driver for Linux and Scanner SDK for Linux are as follows,

Library	Version
Zebra CoreScanner driver for Linux	4.4.1-0 or above
Java	6 (JDK 1.6) or above