

# **USER MANUAL**

# SecuRED Encrypted Magstripe Reader JPOS Reference Guide Linux

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#### SecuRED JPOS User Manual

# **Revision History**

Revision	Date	Description
А	9/9/2013	Initial Release

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# 1. Introduction

This design specification is a guide to the implementation of the JPOS for IDTECH MSR. It also is helpful for other connector and JPOS implementation.

# 2. Target Device

SecureMag, MiniMag, VlueMag and SecuRED MSR for usbhid or usbkb,usbcdc, rs232 interface

# 3. Features & benefits

- Compatible with UPOS Specification v1.13
- Support Linux Red Hat Enterprise 5.4 or later(Red Hat Inc)
- Support Linux SUSE 11.1(Novell Inc)
- o Support Linux Ubuntu 10.04
- o Support Linux Centos5.6
- o JRE 1.5, 1.6 or later

# 4. Terms, Standards & Related Documents

# 4.1 Glossary

ANSI	American National Standard Institute		
R/W	Reader/Writer		
RHEL5	Red Hat Enterprise5		
FC5	Fedora Core 5		
FC6	Fedora Core 6		
Host	A PC, terminal, or controller running Application Software		
ISO	International Organization for Standardization		
JPOS	Java for Retail Point-of-Sale		
JRE	Java Runtime Environment		
LCD	Liquid Crystal Display		
MAC	Message Authentication Code		
MSR	Magnetic Stripe Reader		
OPOS	OLE for Retail Point-of-Sale		
PC	Personal Computer or similar hardware device		
USB	Universal Serial Bus		
UPOS	UnifiedPOS		

# **4.2 Related Documents**

MSR JPOS for Linux User Manual

# 4.3 Standards

UnifedPOS Version 1.13 International Standard

#### 5. Installation(Linux)

#### 5.1 OS

Install Red Hat Enterprise Linux x86 or x64 on an architecture computer. The version is 5.4 or later. Then log on it with root user.

#### 5.2 Install Java

Need the Java Runtime Environment (JRE) v1.5, 1.6 or later version. Download JRE from java.sun.com, for example jre-6-linux-i586.rpm or jre-7u5-linux-x64.rpm. Use the command to install it as following:

```
#rpm -ivh jre-6-linux-i586.rpm
Or #rpm -ivh jre-7u5-linux-x64.rpm
```

or use following command to install if the JRE is .bin file

```
./jdk-6u17-linux-i586-rpm.bin
```

This command will install the JRE to directory /usr/java. Maybe other directory and make a link to current installed version. Run command;

```
#cd /usr/bin
#ln -s -f /usr/java_1.6/bin/java
#chmod 777 /usr/bin/java
```

"/usr/java\_1.6/" is JRE directory which installed.

To make sure the proper JRE is installed, run command

#java-version

This command will show information such as: Java version "1.6.0\_17".

#### 5.3 Install the libusb tool package

Do it use following command:

#rpm -ivh libusb-1.0.8-1.i386.rpm
Or #rpm \_ivh libusb-1.0.8-1.x86\_64.rpm

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#### 5.4 Install JPOS driver

Use following command:

#rpm -ivh IDTECHMSR-1.13.2-1-rehl.i386.rpm
 or #rpm -ivh IDTECHMSR-1.13.2-1.i386.rpm
Or #rpm -ivh IDTECHMSR-1.13.2-1-rehl.x86\_64.rpm
 Or #rpm -ivh IDTECHMSR-1.13.2-1.x86\_64.rpm

#### 5.5 Restart the System

Please restart the System.

#### 5.6 Run

If you make sure current Linux user can access any USB device (see NOTE content please.), then follow commands to run test demo for JPOS.

#cd /IDTECHMSR-1.13.2-1/POStest #./ POStest.sh

- Change the logic name in the MSR Panel

- Click the button Open/Claim/DeviceEnabled

- Swipe a card

#### **5.7 Special Instruction**

Please make sure the polling interval is 1 when an USBKB device is used in the JPOS. This allows the USBKB device to respond swiping card faster. However, its speed may still not enough.

#### **Important Note:**

If the reader has been authenticated, the application should cancel the authentication before close the POS. Otherwise, the reader will stay in the authentication state 120 seconds.