

Release Notes for TRST-A1x JavaPOS Driver Kit

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Overview

This Kit is TRST-A10 and TRST-A15 JavaPOS Driver Kit V001.003. We provide “Device Health Check Program” to test JavaPOS Device Services other than JavaPOS Device Services. Refer to a “TRSTA1x JavaPOSKit Operation Manual.pdf” for the details such as the usage.

Supported

Operating Systems

- Windows 2000
- Windows XP
- WEPOS
- Windows Vista
- SUSE Linux Enterprise Desktop 10 SP1(SLED10SP1)
- SUSE Linux Enterprise Desktop 11(SLED11)

JavaVM

- Java2 SDK, Standard Edition Version 1.4.2

Devices

- TRST-A10-P-QM-R, TRST-A10-S-QM-R, TRST-A10-U-QM-R, TRST-A10-L-QM-R
- TRST-A15-P-QM-R, TRST-A15-S-QM-R, TRST-A15-U-QM-R
- TRST-A10-P-CN-R, TRST-A10-S-CN-R, TRST-A10-U-CN-R
- TRST-A15-P-CN-R, TRST-A15-S-CN-R, TRST-A15-U-CN-R
- TRST-A00-D-QM-R, TRST-A00-U-QM-R

Supplies

The JavaPOS Driver Kit for TRST-A1x supplies the following items:

- JavaPOS Device Service
- Windows TECUSB driver
- Linux TECUSB driver
- Device Health Check Program
- TEC RXTX Parallel Library Source

JavaPOS Device Service

The followings are the POSPrinter Device Services that are supported by TEC.

- POSPrinter Device Service V001.011.003

Windows TECUSB Driver

The following are the Windows TECUSB Drivers that are supported by TEC

- Windows TECUSB driver V001.007
- Windows TECUSB library V001.005
- Windows TECUSB JNI V001.002

Linux TECUSB Driver

The following are the Linux TECUSB Drivers that are supported by TEC

- Linux TECUSB driver V001.002
- Linux TECUSB library V001.002
- Linux TECUSB JNI V001.003

Device Health Check Program

The following is the Device Health Check Program that is supported by TEC.

- Device Health Check Program

RXTX Parallel Library Source customized by TEC

The following is the RXTX Parallel port library customized by TEC.

- TEC RXTX Parallel library Source V001.000

Change History

- V001.000 New Release.
- V001.001 Update TEC JavaPOS POSPrinter APG
(First Edition -> Second Edition)
Update POSPrinter JavaPOS Device Service
(V001.011.000 -> V001.011.001)
Update Windows TECUSB JNI
(V001.000 -> V001.001)
Update Linux TECUSB driver
(V001.000 -> V001.001)
Update Linux TECUSB library
(V001.000 -> V001.001)
Update Linux TECUSB JNI
(V001.000 -> V001.001)
Add TEC RXTX Parallel Library
(V001.000)
 - Add support device : TRSTA1xP
 - Improvement of USB power management for Windows
 - Corrective action of the printing logic of "Code128 with parsing"
 - Performance improvement of Linux USB
 - Specifications change of "RecLetterQuality" property
- V001.002 Update TEC JavaPOS POSPrinter APG
(Second Edition -> Third Edition)
Update POSPrinter JavaPOS Device Service
(V001.011.001 -> V001.011.002)
Update Windows TECUSB JNI
(V001.001 -> V001.002)
Update Linux TECUSB JNI
(V001.001 -> V001.002)
 - Add log level setting function of TECUSBJNI/TECUSBLibrary
(target : TRST-A1x-U Linux)
 - Correction of the "OutputID" property update timing.
(target : TRST-A1x-P/S/U)
 - Correction of Windows TECUSBJNI (target : TRST-A1x-U Windows)
 1. Application is finished forcibly if I execute "DeviceEnabled = true" in case that the productID setting of "jpos.xml" is wrong or power supply of printer is off.
 2. Windows TRST-A1x-U JavaPOS does not work even if I locate "TECUSBPM.exe" in "C:\Windows\System32" folder.
 3. Improve JNI to work even if endpoint numbers were replaced. (for TRST-A00)
 - Correction of Linux TECUSBJNI(target : TRST-A1x-U Linux)
 1. Application is finished forcibly if I execute directIO(115) just after "DeviceEnabled=true".
 2. Modification of "Makefile" to do a dynamic link of libtecusb.so.0.0.
 3. Improve JNI to work even if endpoint numbers were replaced. (for TRST-A00)
- V001.003 Update TEC JavaPOS POSPrinter APG
(Third Edition -> Fourth Edition)
Update POSPrinter JavaPOS Device Service
(V001.011.002 -> V001.011.003)
Update Linux TECUSB JNI
(V001.002 -> V001.003)
 - Add support device : TRST-A10-L POS Printer.

TOSHIBA TEC CORPORATION

- Enabling choices of an initial value of "FontType".(add "FontType" to "jpos.xml")
(target : TRST-A1x-P/S/U)
- Specifications addition of "printBarcode" method.(add "Option1" to "jpos.xml")
(target : TRST-A1x-P/S/U)
- When I specified a TypeID out of a rule in "PTR_BCS_Code128" of printBarcode method, I operated it in the TypeID of CodeA. (target : TRST-A1x-P/S/U)
- Correction of POSPrinter JavaPOS Device service
 1. Improvement of Power Management for the prevention of printing data falling out.
(target : TRST-A1x-S)
 2. "MinReceiptLength" setting of jpos.xml does not work. (target : TRST-A1x-P/S/U)
 3. Exclusive control by the claim method does not work correctly.
(target : TRST-A1x-P/S/U)
 4. claim of other I/F fails when I do claim in one I/F. (target : TRST-A1x-P/S/U)
 5. The alignment parameter of setBitmap method does not work correctly.
(target : TRST-A1x-P/S/U)
 6. Application locks it infrequently by butting of notice of event processing and the release method processing. (target : TRST-A1x-P/S/U)
 7. Application locks it infrequently when I pull or place a USB cable during Open-Close consecutive practice of POSPrinter and CashDrawer, (target : TRST-A1x-U)
 8. Memory leak occurs by repetition of Open-Close method. (target : TRST-A1x-P/S/U)
 9. The printer does not work infrequently if I do OFF/ON of the power supply of the printer in DeviceEnabled=true consecutively. (target : TRST-A1x-P/S/U)
 10. The "transactionPrint(PTR_TP_NORMAL)" execution succeeds in a power supply OFF state and a state finished with "transactionPrint(PTR_TP_TRANSACTION)" execution. (target : TRST-A1x-P/S/U)
 11. CODE-C of "PTR_BCS_Code128" of printBarcode method is not printed correctly.
(target : TRST-A1x-P/S/U)
 12. When I set "predefine" data once, I cannot clear it. (target : TRST-A1x-P/S/U)
 13. State property does not work correctly. (target : TRST-A1x-P/S/U)
 14. The ErrorEvent is notified when I executes the release method immediately after executing an method in asynch. (target : TRST-A1x-P/S/U)
- Correction of Linux TECUSBJNI(target : TRST-A1x-U Linux)
 - 1.Application locks when I execute directIO(115).

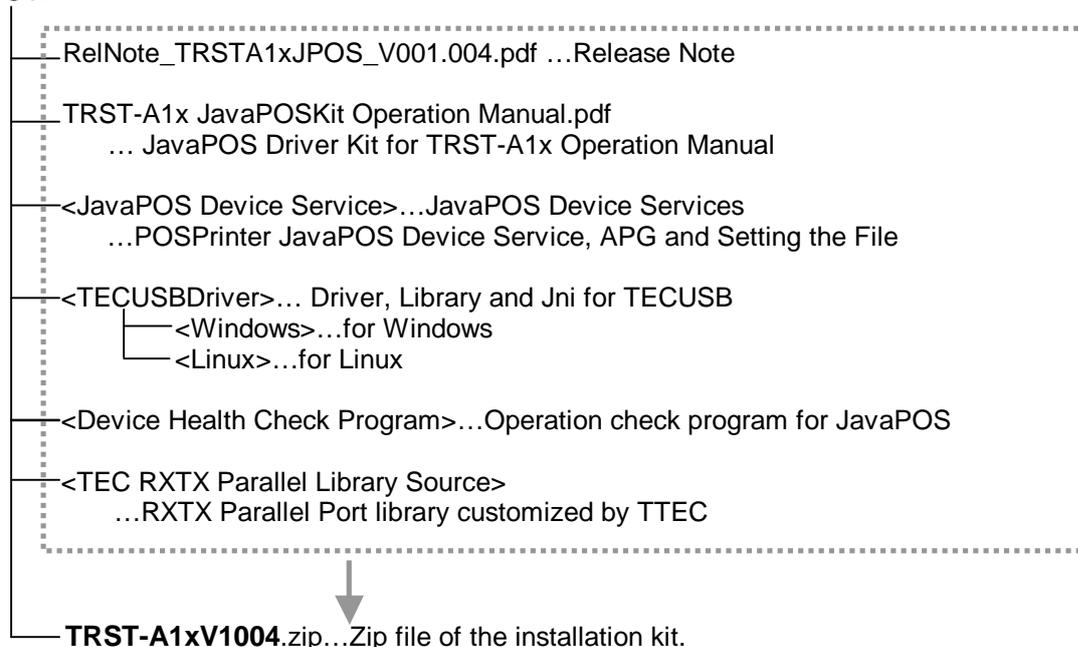
V001.004

- Update Linux TECUSB driver
(V001.001 -> V001.002)
- Update Linux TECUSB library
(V001.001 -> V001.002)
- Update Windows TECUSB INF file
- Add support device : TRST-A00

Folder Configuration

The Folder Configuration is as follows:

<ROOT>



Document

| Filename | Version | | | |
|--|-----------------|---|---|---|
| TRST-A1x JavaPOSKit Operation Manual.pdf | 3 rd | - | - | TRST-A1x JavaPOSKit Operation Manual |
| TEC JavaPOS – POSprinter APG.doc | 4 th | - | - | Java POS Application Programmer's Guide |

JavaPOS ServiceControl

| Filename | Version | Date | Time | |
|--------------------------|----------|------------|----------|--|
| TECPOSPrinterService.jar | 1.11.003 | 2009/12/17 | 20:53:09 | Toshiba TEC POS Printer JavaPOS Service |
| TECPOSPrinter.xml | - | 2009/12/18 | 15:52:58 | Toshiba TEC POS Printer JavaPOS Service Setting File |
| TECUSB.dll | 1.0.0.5 | 2008/07/24 | 21:17:14 | Windows Toshiba TEC USB Library |
| LogMgr.dll | 1.0.1.4 | 2004/10/04 | 15:13:00 | Windows Toshiba TEC LOG Manager Library |
| TECUSBJNI.dll | V001.002 | 2009/11/02 | 20:15:39 | Windows Toshiba TEC USB Driver JNI |
| libtecusb.so.0.0 | V001.002 | 2010/02/22 | 13:19:34 | Linux Toshiba TEC USB Library |
| libTECUSBJNI.so.0.0 | V001.003 | 2009/12/9 | 13:38:24 | Linux Toshiba TEC USB Driver JNI |
| TECUSBPM.exe | V001.001 | 2008/10/28 | 14:58:14 | Windows Toshiba TEC USB power management process used by TECUSBJNI.dll |

USB driver

| Filename | Version | Date | Time | |
|---------------------------|----------|------------|----------|--|
| Tecusb.sys | 1.0.0.7 | 2004/11/25 | 20:45:00 | Windows Toshiba TEC general-purpose USB driver |
| TecUSBDEx.INF | - | 2009/09/02 | 14:57:28 | Windows USB driver Setup INF file |
| tecusb.ko (for SLED10SP1) | V001.002 | 2010/03/18 | 20:20:06 | Linux Toshiba TEC general-purpose USB driver (for SLED10SP1) |
| tecusb.ko (for SLED11) | V001.002 | 2010/02/22 | 13:28:40 | Linux Toshiba TEC general-purpose USB driver (for SLED10) |

RXTX Parallel library customized by TTEC

| Filename | Version | Date | Time | |
|--------------------|---------|------------|----------|--|
| rxtxParallel.dll | 1.0.0.0 | 2008/12/18 | 18:18:56 | Windows RXTX Parallel library customized by TTEC |
| librxtxParallel.so | 1.0.0.0 | 2008/12/22 | 13:02:46 | Linux RXTX Parallel library customized by TTEC |

Mar 26 2010

Notice

~~NOTE1: TRST-A1x-P is not supported by V001.000.~~

NOTE2: In case of using TRST-A1x-U on Windows, TECUSBPM.exe is needed. This is new module from TRST-A1x JavaPOS Driver Kit V001.001.

NOTE3: RXTX Parallel library used by TRST-A1x-P is not standard RXTX Library. This is customized by TTEC. RXTX is LGPL, so source file customized by TTEC is bundled with this kit.

NOTE4: In case of using TRST-A1x-P on Windows, “rxtxParallel.dll” and “rxtxSerial.dll” is needed. In case of using TRST-A1x-P on Linux, “librxtxParallel.so” and “librxtxSerial.so” is needed.

NOTE5: [TRST-A1x LAN JavaPOS requirements]

1. Use the firmware of the following version or higher.

Flash Firmware

Version : 54.10

Revision : 00

2. Use after changing the firmware setting for UPOS setting.

(refer to a firmware manual of the TRST-A1x LAN model.)

NOTE6: In case of using TRST-A1x-L more than 4 of them, make “jpos.xml” setting of the number to use