

OPERATION MANUAL

TRST-Alx JavaPOS Driver Kit



This TRST-A1x JavaPOS Driver Kit OPERATION MANUAL (hereinafter referred to as "the GUIDE") describes the procedures and precautions for using the JavaPOS Driver Kit (hereinafter referred to as "the Kit").

The GUIDE assumes that the reader is familiar with the following:

- · General characteristics of POS peripheral devices
- Java terminology and architecture
- Java for Retail POS (JavaPOS for short) Programmer's Guide

Notes:

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Introduction

The Kit (TRST-A1x JavaPOS Driver Kit) provides the JavaPOS Device Service to be used to develop an application for POS Printer.

Overview of the MANUAL

The GUIDE consists of the following three steps, and explains the demo program enclosed in the Kit. Please follow the steps below:

Step 1. How to Build An Operating Environment

This step describes the method to build an environment for using the JavaPOS Device Service.

Step 2. How to Check Performance of the JavaPOS Device Service

This step describes the method to test whether or not the test program for checking performance of the JavaPOS Device Service (CheckHealth.jar) successfully runs.

Step 3. How to Use The JavaPOS Device Service

This step describes the method to create a unique application using the JavaPOS Device Service.



1. How to Build An Operating Environment

This chapter describes the method to build an environment where the JavaPOS Device Service operates. Please take this step (Step 1) first, then go to Step 2 (Chapter 2 "How to Check Performance of the JavaPOS Device Service") or Step 3 (Chapter 3 "How to Use the JavaPOS Device Service").

Supported Product

- TRST-A10-xxx-QM
- TRST-A10-xxx-CN
- TRST-A15-xxx-QM
- TRST-A15-xxx-CN
- TRST-A00

Operating Environment

Performance of the JavaPOS Device Service was checked under the following environment:

Operating system:Windows 2000, Windows XP, WEPOS, Windows Vista,
SUSE Linux Enterprise Desktop 10 SP1, SUSE Linux Enterprise Desktop 11JavaRuntime:JRE1.4.2JavaPOS:JavaPOS 1.11

Procedure for Building An Operating Environment

Installation of Java Runtime Environment

Download the file from the following web site and implement the Java Runtime Environment. <u>http://java.sun.com/products/archive/j2se/1.4.2_16/</u>

Installation of TECUSB

<Windows>

1. Copy of driver module



Copy an "¥TRST-A1x JavaPOS¥TECUSB Driver¥Windows" folder in the suitable place.

2. Execute of Batch file

[Windows 2000 / Windows XP]

Carry out "TECUSB_LIBRARY_SETUP.BAT" in the folder which I stored by procedure 1. After practice, the following file is copied by a folder of "¥Windows¥system32". (in the case of the Windows 2000, ¥Winnt¥system32)

- TECUSB.dll
- LogMngr.dll
- TECUSBJNI.dll
- TECUSBPM.exe



[Windows Vista] In case of Windows Vista, copy the following files to each directory manual operation.

"Windows¥system32" directory

- TECUSB.dll
- LogMngr.dll
- TECUSBJNI.dll
- TECUSBPM.exe
- Installation of TRST-A1x TECUSB driver Connect TRST-A1x by USB and turn on a power supply. The following dialogue is displayed.

Found New Hardware W	izard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No. not this time
	Click Next to continue.

Choose "No, not this time". Click on the "Next >" button.



Found New Hardware Wiz	zard
	This wizard helps you install software for: TEC.TRST-A15 USB POS-Printer If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do? O Install the software automatically (Recommended) O Install from a list or specific location (Advanced)
A REAL PROPERTY AND A REAL	Click Next to continue.
	< Back Next > Cancel

Choose "Install from a list or specific location [Advanced]". Click on the "Next >" button.

Please choose your s	earch and installatio	n options.		Chille and the
Search for the best of the	st driver in these location	s.		
	oxes below to limit or expa able media. The best driv			ncludes local
Search rem	novable <u>m</u> edia (floppy, CE)-ROM)		
🗹 Include this	s location in the search:			
C:\TECUS	B Driver\Windows	1	- Bj	owse
O <u>D</u> on't search. I wi	Il choose the driver to ins	tall.		
	n to select the device driv lose will be the best mate			not guarantee t

Exclude a check box of "Search removable media [floppy, CD-ROM...]". Choose check box of "Include this location in the search.". Click on the "Browse" button. And appoint a folder with the "TecUSBDEx.INF" file.

Click on the "Next >" button.





The installation of the TECUSB driver is started.

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: Toshiba TEC TRST-A1x USB POS-Printer
A REAL PROPERTY AND INCOME.	Click Finish to close the wizard.
	K Back Finish Cancel

If an above screen is displayed, it is installation completion. Click on the "Finish" button.



🖴 Device Manager	
Eile Action View Help	
+	
 IECSYS Computer Disk drives Human Interface Devices IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices Other devices Other devices Ports (COM & LPT) Processors Sound, video and game controllers System devices System devices TEC Bulk & Interrupt USB Device Toshiba TEC TRST-A1x USB POS-Printer Universal Serial Bus controllers 	

Finally start device manager. And confirm that it is installed as above.



< Linux>

1. Copy of driver module

	(marked)
SLED 10SP1	SLED 11

Select "TECUSB Driver" -> "Linux" -> "driver". Copy the tecusbd.ko to any desired location. SUSE Linux Enterprise 10 SP1 : use the module in "SLED10SP1" directory. SUSE Linux Enterprise 11 : use the module in "SLED11" directory.

* tecusbd.ko is a TECUSB driver which runs on Linux.

4/TECU/SB Driver/Linux		
	(I)	(I)
driver	libTECUSBUNI so.0.0	libtecusb.so.0.0

Select "TECUSB Driver" -> "Linux". Copy the "libtecusb.so.0.0" to any desired location.

**libtecusb.so.0.0 is a TECUSB library which runs on Linux.

2. Installation of driver

]# insmod /home/tec/tecdrv/tecusbd.ko

Execute the above commands to install the driver.

(The above is an example when tecusbd.ko has been copied to /home/tec/tecdrv.)

*1 This setup is cleared whenever the operating system is rebooted. This command must be executed every time the operating system is rebooted



3. Confirmation of install

]# lsmod

Execute the above command to make sure the driver has been successfully installed.

4. Installation of library

]# cp -p /home/tec/tecdrv/libtecusb.so.0.0 /usr/lib/

]# ldconfig -n /usr/lib/

]# ln -s /usr/lib/libtecusb.so.0.0 /usr/lib/libtecusb.so

Execute the above commands to install the library. (The above is an example when libtecusb.so.0.0 has been copied to /home/tec/tecdrv.)



2. How to Check Performance of the JavaPOS Device Service

This chapter describes the method to check performance of the JavaPOS Device Service, assuming that the operating environment described in Chapter 1 has been built up.

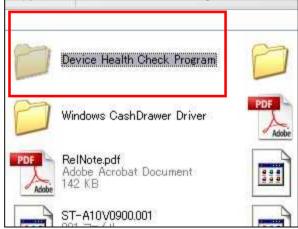
Here, the setup method is referred to as "PREPARE" and the operation method of the Device Health Check Program as "OPERATION".

In this chapter, the device health check method is explained for the following devices:

- POSPrinter(TRST-A1x)
- CashDrawer(TRST-A1x)

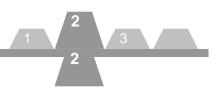
PREPARE

Copy of Device Health Check Program modules



Open the Kit CD, then copy the Device Health Check Program folder to a desired location in the local computer.

The subsequent procedures are separately explained for Windows and Linux below.



<Linux>

1. Creation of symbolic link

]# ln -s libTECUSBJNI.so.0.0 libTECUSBJNI.so

2. Grant of execute authority

]# chmod 775 /home/tec/Device Health Check Program/CheackHealth.sh

Execute the above command to grant the CheackHealth.sh file an execute authority.

(The above is an example when the Device Health Check Program folder has been copied to /home/tec.)



Default value

Default value of major parameters is as follows. To change the default value, please refer to the chapter, "3. How to Use the JavaPOS Device Service" in the GUIDE or the setup method in the Application User Manual of each device service.

[TRST-Axx Parallel POS Printer]

[Windows Parallel POSPrinter]			
logicalName:	WindowsParallelPOSPrinter		
portName:	LPT1		

[Linux Parallel POSPrinter]logicalName:LinuxParallelPOSPrinterportName:/dev/lp0

[Windows Parallel CashDrawer]			
logicalName:	WindowsParallelCashDrawer		
portName:	LPT1		

[Linux Parallel CashDrawer]logicalName:LinuxParallelCashDrawerportName:/dev/lp0

[TRST-Axx Serial POS Printer]

[Windows Serial POSPrinter for TRST-A1x]logicalName:WindowsSerialPOSPrinterportName :COM1	[Windows Serial CashDrawer] logicalName: WindowsSerialCashDrawer portName: COM1
[Linux Serial POSPrinter for TRST-A1x]logicalName:LinuxSerialPOSPrinterportName:/dev/ttyS0	[Linux Serial CashDrawer] logicalName: LinuxSerialCashDrawer portName: /dev/ttyS0
[Windows Serial POSPrinter for TRST-A00] logicalName: WindowsSerialPOSPrinter-A00 portName: COM1	

[Linux Serial POSPrinter for TRST-A00]logicalName:LinuxSerialPOSPrinter-A00portName:/dev/ttyS0



[TRST-A1x USB POS Printer]

[USBPOSPrinter for TRST-A1x-QM model]	[USBCashDrawer for TRST-A1x-QM model]
logicalName: USBPOSPrinter-QM	logicalName: USBCashDrawer-QM
vendorName: 61	vendorName: 61
[USBPOSPrinter for TRST-A1x-CN model]logicalName:USBPOSPrinter-CNvendorName:70	[USBCashDrawer for TRST-A1x-CN model]logicalName:USBCashDrawer-CNvendorName:70
[USBPOSPrinter for TRST-A00]	[USBCashDrawer for TRST-A00]
logicalName: USBPOSPrinter-A00	logicalName: USBCashDrawer-A00
vendorName: 82	vendorName: 82

[TRST-A1x LAN POS Printer]

[LANPOSPrinter N	0.1]
logicalName:	LANPOSPrinter-1
IPAddress:	X.X.X.X

[LANPOSPrinter No.2]logicalName:LANPOSPrinter-2IPAddress:x.x.x.x

[LANPOSPrinter No.3]logicalName:LANPOSPrinter-3IPAddress:x.x.x.x

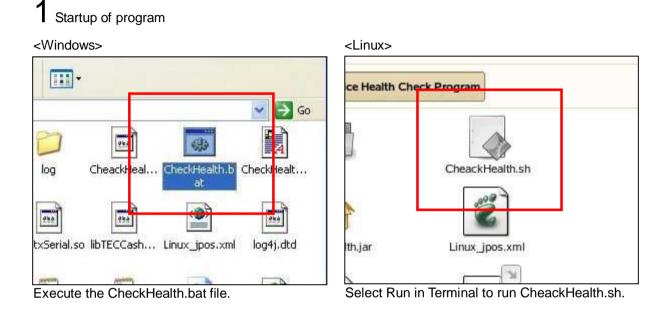
[LANCashDrawer]	
logicalName:	LANCashDrawer
IPAddress:	X.X.X.X
	logicalName:

Note : In case of LAN POSPrinter, set IPAddress of TRST-A1x POS Printer before using CheckHealth.

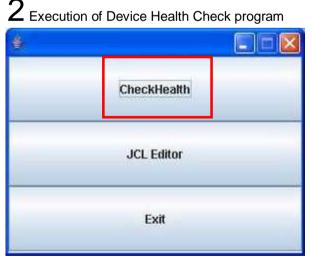
15



OPERATION



The subsequent OPERATION applies both to Windows and Linux.



Click on the [CheckHealth] button at the top.

* Note the subsequent OPERATION differs for Keylock, Drawer, MSR, LineDisplay, and Scanner.
 * The functions of the JCL Editor are not used this time.



POSPrinter

A-1 POSPrinter panel display

POS Device Entry	Conf	ig			
	Category	LogiciaName	Vendet	Product Name	T
HBR	MiR	MCRST-A10	TOSHIBA TEC Corporation	TECMSR	1
-	LineOrigilav	LUST-53	TOSHERA TEC Corpetation	TECLINaDiaptay	
Liné Oláphier	CashOtawer	TRSTAIS_CashDrawer	TOSHIBATEC Corporation	TEOCashDrawer	-
	CashOrawer	TRSTATU_CastDrawer	TOSHIBATEC Corporation	TECCashDrawer.	Т
Cesh Drawer	UneDisstay	UUST-A18	TOSHIBATEC Corporation	TECLINEDISplay	
AP.	MSR	MSRTFT8T-78	TOSHEATEC Corporation	TECMER	
Kindatk	CashOrawer	CRV48759E#	TOSHBATEC Corporation	TECCashDrawetEx	
	Keylock.	Jebudan .	TOGHER TEC Corporation	TECROPYORK	
Sciencer	CashOrswer	CRWST50	TOSHIBA TEC Corporation	TECCashDrawor	
N.A.	Polytock.	PEDST58	TOSHEATEC Corporation	TECKWyłack	
POS Pinto	Scanner.	HSSILRS	TOSHIBA TEO Corporation	TECSconner.	
- Maria	MSIT	MSRP10BUT-5c	TOSHEA TEC Corporation	TECMER	
TRSTAILU	Scenner	HS63DRSEX	TOSHIBA TEC Corporation	TECBoancorEx	1

Click on the [TRSTA1xU] node under the [POSPrinter] node in the case of using USBPOSPrinter. Click on the [TRSTA1xS] node under the [POSPrinter] node in the case of using SerialPOSPrinter.

$\operatorname{A-2}$ Call to the Interactive Check Health method

S Device Entry	POSPrinte	r)	
risiR .Inie Disprier	Internal	External	Interactive
h Drawer ask	Result:		12
er Sribi	CheckHealt	hText:	
TRETAILU TRETAILS			

Click on the [Interactive] button at the right.



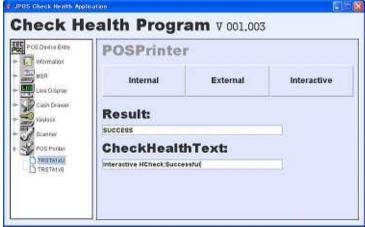
POSPrinter

$\operatorname{A-3}$ Execute of Print

Print ASCII Code	Print 'H'
Feed	Cut
Bitmap	Dual Side Print
er Status	
ОК	Error

When the above window appears, execute each function. * To exit, click on the [OK] or [NG] button.

$\operatorname{A-4}$ Display of result



A value is displayed in the [Result] box and the [CheckHealth] Text box. Either of the following two value combinations will be displayed in these boxes:

- When exited with the [OK] button in Step A-3.
 Result : SUCCESS
 CheckHealthText : Interactive Hcheck:Successful
- When exited with the [NG] button in Step A-3. Result : SUCCESS CheckHealthText : Interactive Hcheck:Error



CashDrawer

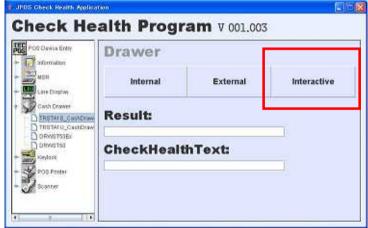
$B{\ -}1$ Drawer panel display

POE Denia Entry	Conf	ig			
Cash Drawer THISTAIL Cash Drawer THISTAIL CashDraw Driversa	Category MSR UnwDisplay CashOrawer CathOrawer CathOrawer Keytock CashDrawer Keytock CashDrawer Keytock Scamer	Logistern MCRETAIS LUIST-51 TRESTAIS_CashDiswer TRESTAIS_CashDiswer TRESTAIS_CashDiswer LuisT-A15 MCRTTEST-71 DevestStats Journ DevestStats Histopes	Vender TOSHBA TEC Corporation TOSHBA TEC Corporation	Product Name TEC488 TEC4.netRiptay TEC2.achDrawdr TEC2.achDrawdr TEC4.achDrawdr TEC4.achDrawdr TEC4.achDrawdr TEC4.achTrawdr TEC4.achTrawdr TEC4.achTrawdr TEC4.achTrawdr TEC4.achTrawdr TEC4.achTrawdr	
Rendars Scanner POB Paritar	MSR Stanner	MSRPLBST-5x HSRIUPSEy	TOSHBA TEC Corporation TOSHBA TEC Corporation	TECMBR TECScatterEx	

Click on a node under the [CashDrawer] node.

• Cash Drawer connected to TRST-A1x POS Printer

B-2 Call to the Interactive Check Health method



Click on the [Interactive] button at the right.



CashDrawer

B-3 Open the drawer

	Drawer Status
Drawer Open	CLOSED
_	
-	1
ОК	NG

Click on the [Drawer Open] button.

B-4 Get status

	Drawer Status
Drawer Open	OPEN
	-SAURO
ОК	NG

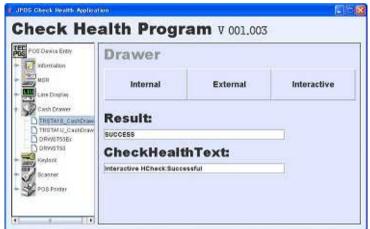
The drawer opens and a message, "OPEN" is displayed on the [Drawer Status] box at the upper right in the window on the screen.

* To exit, click on the [OK] or [NG] button.



CashDrawer

$B{-}5\,$ Display of result



A value is displayed in the [Result] box and the [CheckHealthText] Text box. Either of the following two value combinations will be displayed in these boxes:

• When exited	with the [OK]] button in Step B-4.	
Result	: SU	JCCESS	
CheckHealth ⁻	Text : Inte	eractive Hcheck:Success	sful

• When exited with the [NG] button in Step B-4. Result : SUCCESS CheckHealthText : Interactive Hcheck:Error



3. How to Use the JavaPOS Device Service

This chapter describes the setups required to use the JavaPOS Device Service, assuming that the operating environment described in Chapter 1 has been built up.

Required files

In order to use the JavaPOS Device Service provided by the Kit, the following files are required besides the library file.

- jpos111.jar
- jpos.xml
- log4j.xml
- log4j.dtd
- log4j-1.2.12.jar
- commons-logging.jar
- RXTXcomm.jar
- swing-layout-1.0.3.jar
- xercesImpl.jar
- xml-apis.jar
- jcl_editor.jar
- rxtxSerial.dll(*1)
- librxtxSerial.so(*2)
- rxtxParallel.dll(*1)
- librxtxParallel.so(*2)
- TECUSB.dll(*3)
- libtecusb.so.0.0(*4)
- TECUSBJNI.dll(*3)
- libTECUSBJNI.so.0.0(*4)
- TECUSBPM.exe(*3)
- *1 Required only for Windows
- *2 Required only for Linux
- *3 Required only for using POSPrinter USB Device Service under Windows
- *4 Required only for using POSPrinter USB Device Service under Linux

Description of Files

A destination to save a file may differ depending on the development environment. The following explanation is based on the development using the NetBeans5.5.

<u>Jpos111.jar</u>	
(Destination to save):	Any location
(Description):	JavaPOS Device Control. To be imported when creating an application.
(Available from):	JavaPOS-1.11.0-Dist.zip on the web site,
	http://www.javapos.com/samplecode.html, or
	http://www.javapos.com/index.html



jpos.xml(Destination to save):Root directory of project(Description):A device setup file required to operate each Device Service. The following
focuses on the major setup items descried in the file. This file is required for
operating each Device Service.

*1. Creation of jpos.xml file

An xml file is provided for each device in the JavaPOS folder. When using the xml files, compile all xml files into one file and name it "jpos.xml".

xml version="1.0" encoding="UTF-8"? <idoctype "-="" "jpos="" dtd="" en"="" javapos="" jcl.dtd"="" jposentries="" public="" res=""> <jposentry logicalname="SerialPOSPrinter"> <creation <br="" factoryclass="jpos.toshibatec.posprinter.loader.JavaPOSServiceFactory">serviceClass="jpos.toshibatec.posprinter.loader.JavaPOSServiceFactory" <cvendor name="TOSHIBA TEC Corporation" url="http://www.toshibatec.co.jp"></cvendor> <jpos category="POSPrinter" version="1.11"></jpos> <product <br="" description="TEC TRST-A1x POS Printer">name="TECPOSPrinter" url="http://www.toshibatec.co.jp"/> <lother (mostly="" and="" bus="" i.e.<br="" javapos="" non="" properties="" property="" required="" specific="" vendor="">RS232)> <prop name="deviceBus" type="String" value="RS232"></prop> <prop name="gortName" type="String" value="TRSTA1x"></prop> <prop name="modelName" type="String" value="TRSTA1x"></prop> <prop name="country" type="String" value="US"></prop> <prop name="fontSize" type="String" value="US"></prop> <prop name="fontSize" type="String" value="US"></prop> <prop name="paperWidthMode" type="String" value="0"></prop> </lother></product></creation></jposentry></idoctype>		
<pre></pre>	xml version="1.0" encodir</th <th>ng="UTF-8"?></th>	ng="UTF-8"?>
<pre><creation factoryclass="jpos.toshibatec.posprinter.loader.JavaPOSServiceFactory" serviceclass="jpos.toshibatec.posprinter.services.POSPrinterService"></creation> <vendor name="TOSHIBA TEC Corporation" url="http://www.toshibatec.co.jp"></vendor> <jpos category="POSPrinter" version="1.11"></jpos> <product description="TEC TRST-A1x POS Printer" name="TECPOSPrinter" url="http://www.toshibatec.co.jp"></product> <lother (mostly="")="" and="" bus="" i.e.="" javapos="" non="" properties="" property="" required="" rs232="" specific="" vendor=""> </lother></pre> <pre> </pre> <pr< td=""><td><!DOCTYPE JposEntries Pt</td> <td>JBLIC "-//JavaPOS//DTD//EN" "jpos/res/jcl.dtd"></td></td></pr<>	JposEntries Pt</td <td>JBLIC "-//JavaPOS//DTD//EN" "jpos/res/jcl.dtd"></td>	JBLIC "-//JavaPOS//DTD//EN" "jpos/res/jcl.dtd">
serviceClass="jpos.toshibatec.posprinter.services.POSPrinterService"/> <vendor name="TOSHIBA TEC Corporation" url="http://www.toshibatec.co.jp"></vendor> <jpos category="POSPrinter" version="1.11"></jpos> <product description="TEC TRST-A1x POS Printer" name="TECPOSPrinter" url="http://www.toshibatec.co.jp"></product> Other non JavaPOS required property (mostly vendor properties and bus specific properties i.e. RS232) <prop name="portName" type="String" value="COM1"></prop> <prop name="BaudRate" type="String" value="TRSTA1x"></prop> <prop name="modelName" type="String" value="TRSTA1x"></prop> <prop name="country" type="String" value="TRSTA1x"></prop> <prop name="fontSize" type="String" value="US"></prop> <prop name="fontSize" type="String" value="US"></prop> <prop name="fontSize" type="String" value="0"></prop> <pre></pre>	<jposentry logicalna<="" td=""><td>me="SerialPOSPrinter"></td></jposentry>	me="SerialPOSPrinter">
<pre></pre>	<creation factory<="" td=""><td>Class="jpos.toshibatec.posprinter.loader.JavaPOSServiceFactory"</td></creation>	Class="jpos.toshibatec.posprinter.loader.JavaPOSServiceFactory"
<pre></pre>	serviceClass="	jpos.toshibatec.posprinter.services.POSPrinterService"/>
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<vendor name="T</td><td>OSHIBA TEC Corporation" url="http://www.toshibatec.co.jp"></vendor>	
<pre>name="TECPOSPrinter" url="http://www.toshibatec.co.jp"/> <!--Other non JavaPOS required property (mostly vendor properties and bus specific properties i.e. RS232)--> <pre></pre></pre>	<jpos category="I</td><td>POSPrinter" version="1.11"></jpos>	
<pre></pre>	<product descript<="" td=""><td>ion="TEC TRST-A1x POS Printer"</td></product>	ion="TEC TRST-A1x POS Printer"
RS232)> <pre> <</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	name="TECPO	SPrinter" url="http://www.toshibatec.co.jp"/>
<prop name="portName" type="String" value="COM1"></prop> <prop name="BaudRate" type="String" value="115200"></prop> <prop name="modelName" type="String" value="TRSTA1x"></prop> <prop name="country" type="String" value="US"></prop> <prop name="fontSize" type="String" value="1"></prop> <prop name="fontSize" type="String" value="0"></prop>		vaPOS required property (mostly vendor properties and bus specific properties i.e.
<prop name="BaudRate" type="String" value="115200"></prop> <prop name="modelName" type="String" value="TRSTA1x"></prop> <prop name="country" type="String" value="US"></prop> <prop name="fontSize" type="String" value="1"></prop> <prop name="paperWidthMode" type="String" value="0"></prop>		<prop name="deviceBus" type="String" value="RS232"></prop>
<prop name="modelName" type="String" value="TRSTA1x"></prop> <prop name="country" type="String" value="US"></prop> <prop name="fontSize" type="String" value="1"></prop> <prop name="paperWidthMode" type="String" value="0"></prop>		<prop name="portName" type="String" value="COM1"></prop>
<prop name="country" type="String" value="US"></prop> <prop name="fontSize" type="String" value="1"></prop> <prop name="paperWidthMode" type="String" value="0"></prop>		<prop name="BaudRate" type="String" value="115200"></prop>
<prop name="fontSize" type="String" value="1"></prop> <prop name="paperWidthMode" type="String" value="0"></prop>		<prop name="modelName" type="String" value="TRSTA1x"></prop>
<prop name="paperWidthMode" type="String" value="0"></prop>		<prop name="country" type="String" value="US"></prop>
		<pre><pre><pre><pre>content</pre> <pre>String</pre> value="1"/></pre></pre></pre>
		<prop name="paperWidthMode" type="String" value="0"></prop>

The following describes the major setup items. For details of the setup method, please refer to the Application User Manual of each JavaPOS Device Service.



- <JposEntry logicalName="SerialPOSPrinter">
 A description to set a logical device name. Change the shaded area.
- <prop name="portName" type="String" value="COM1"/> A description to set COM ports of a device. Change the shaded area.
- <prop name="baudRate" type="String" value="115200"/>
 A description to set baud rate of a device. Change the shaded area.
- 2Defference in descriptions between Windows and Linux As for portName, "COMX" is used for Windows and "/dev/ttySX" is used for Linux. (X: serial port no.) Note that COMX starts from 1 while /dev/ttySX starts from 0.

[Windows]
value="COM1"
value="COM2"
value=

[Linux]
value="dev/ttyS0"
value="dev/ttyS1"
value=

<u>log4j.xml</u>

(Destination to save): Root directory of project

(Description):

A setup file for a log to be output. To be copied in the directory where the execution file exists. The following focuses on the major setup items descried in the file. Please create your own file.

- <param name="file" value="log/ST-A10.log" /> A description to set a file name of log to be output.
- <priority value="info" />
 A description to set a log level.

Fatal:	Fatal error	error:	Error
warn:	Warning	info:	Information
debug:	Debug	trace:	Trace

Log4j.dtd

(Destination to save): Root directory of project

(Description):

A file to define XML tags. To be copied in the directory where the execution file exists. Please create your own file.



log4j-1.2.12.jar (Destination to save): (Description): (Available from):	Any location A library file to output a log. As with JavaPOS DeviceService, this file must be imported in a project. logging-log4j-1.2.12.zip on the web site, <u>http://archive.apache.org/dist/logging/log4j/1.2.12/</u> , or <u>http://logging.apache.org/</u>
commons-logging.jar (Destination to save): (Description): (Available from):	Any location A library file to output a log. To be imported when creating an application. commons-logging-1.0.4.zip on the web site, <u>http://archive.apache.org/dist/commons/logging/binaries/</u> , or <u>http://commons.apache.org/logging/</u>
<u>RXTXcomm.jar</u> (Destination to save): (Description):	Any location A library file to access a Device which uses a COM (component object model). To be imported when creating an application.
(Available from):	rxtx-2.1-7-bins-r2.zip on the web site, <u>http://rxtx.qbang.org/pub/rxtx/</u> , or <u>http://users.frii.com/jarvi/rxtx/download.html</u>
swing-layout-1.0.3.jar (Destination to save): (Description): (Available from):	Any location A library file to use swing. To be imported when creating an application. swing-layout-1.0.3.jar on the web site, <u>http://java.sun.com/products/archive/jfc/1.0.3/index.html</u> , or <u>http://www.sun.com/</u>
<u>xercesImpl.jar</u> (Destination to save): (Description): (Available from):	Any location A library file to convert into text or other XML format. To be imported when creating an application. Xerces-J-bin.2.9.0.zip on the web site, <u>http://apache.adcserver.com.ar/xml/xerces-j/</u> , or <u>http://xerces.apache.org/</u>



<u>xml-apis.jar</u> (Destination to save): (Description): (Available from):	Any location A library file to convert into text or other XML format. To be imported when creating an application. Xerces-J-bin.2.9.0.zip on the web site, http://apache.adcserver.com.ar/xml/xerces-j/, or http://xerces.apache.org/
<u>JposEntryEditor.jar</u> (Destination to save): (Description): (Available from):	Any location A library file to access an XML file. To be imported when creating an application. jcl2.2.0.zip on the web site, http://Availablefromforge.net/project/showfiles.php?group_id=128804&packag e_id=141062&release_id=306139, or http://jposloader.Available fromforge.net/downloads/?S=A
<u>JimiProClasses.jar</u> (Destination to save): (Description): (Available from):	Any location A library file to access an image file. To be imported when creating an application. jimi1_0.zip on the web site, http://java.sun.com/products/jimi/
rxtxSerial.dll (Destination to save): (Description): (Available from):	Root directory of project A library file used to access a serial port under Windows. rxtx-2.1-7-bins-r2.zip on the web site, <u>http://rxtx.qbang.org/pub/rxtx/</u> , or <u>http://users.frii.com/jarvi/rxtx/download.html</u>
librxtxSerial.so (Destination to save): (Description): (Available from):	Root directory of project A library file used to access a serial port under Linux. rxtx-2.1-7-bins-r2.zip on the web site, <u>http://rxtx.qbang.org/pub/rxtx/</u> , or <u>http://users.frii.com/jarvi/rxtx/download.html</u>



<u>rxtxParallel.dll</u> (Destination to save): (Description): (Available from):	Root directory of project A library file used to access a parallel port under Windows. This is a RXTX parallel library customized by TTEC. It is based on rxtx-2.1-7(LGPL). "rxtxSerial.dll" file is necessary to use this library. This Kit. Click on "TEC RXTX Parallel Library Source". It is bundled with rxtxParallel.zip.
<u>librxtxParallel.so</u> (Destination to save): (Description): (Available from):	Root directory of project A library file used to access a parallel port under Linux. This is a RXTX parallel library customized by TTEC. It is based on rxtx-2.1-7(LGPL). "librxtxSerial.so" file is necessary to use this library. This Kit. Click on "TEC RXTX Parallel Library Source".
() Wanabie Horry.	It is bundled with rxtxParallel.zip.
TECUSB.dll (Destination to save): (Description): (Available from):	C:¥Windows¥system32 or C:¥WINNT¥system32 Library of TECUSB driver for Windows. This Kit. Click on "TECUSB Driver", then "Windows".
LogMngr.dll (Destination to save): (Description): (Available from):	C:¥Windows¥system32 or C:¥WINNT¥system32 Library of TECUSB driver for Windows. This Kit. Click on "TECUSB Driver", then "Windows".
<u>libtecusb.so.0.0</u> (Destination to save): (Description):	/usr/lib directory Library of TECUSB driver for Linux. Regist it with shared libraries and make a link file called libtecusb. Ex)]# cp -p libtecusb.so.0.0 /use/lib/]# ldconfig –n /usr/lib/]# ldconfig –n /usr/lib/]# ln –s /usr/lib/libtecusb.so.0.0 /usr/lib/libtecusb.so
(Available from):	This Kit. Click on "TECUSB Driver", then "Linux".



TECUSBPM.exe	
(Destination to save):	C:¥Windows¥system32 or C:¥WINNT¥system32
(Description):	An USB power management process for Windows.
	It is nesessary to use TRST-A1x-U on Windows
(Available from):	This Kit. Click on "TECUSB Driver", then "Windows".
TECUSBJNI.dll	
(Destination to save):	C:¥Windows¥system32 or C:¥WINNT¥system32
(Description):	An application programming interface (API) to be used to access the
	Windows TECUSB driver from Java.
(Available from):	This Kit. Click on "TECUSB Driver", then "Windows".
libTECUSBJNI.so.0.0	
(Destination to save):	Root directory of project
(Description):	An application programming interface (API) to be used to access the
(Description).	Linux.
	Make a link file called libTECUSBJNI.so and use it.
(Available from)	Ex)]# In -s libTECUSBJNI.so.0.0 libTECUSBJNI.so
(Available from):	This Kit. Click on "TECUSB Driver", then "Linux".