
Release Notes - EMDK for Java RFID v1.1- Host based programming

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Introduction

This is the first release of the EMDK for Java (RFID) for the FX7500 RFID reader. It provides a set of tools necessary to develop Java Applications for RFID reader devices from Motorola.

Description

EMDK for Java RFID provides a set of tools necessary to develop Java Applications for RFID reader devices from Motorola. These tools include class library, sample application and associated documentation. EMDK for Java RFID allows Java developers to programmatically access or control the RFID reader functionality. The Java application can be developed to run on the device or PC.

The Java RFID class library supports the following features

1. New device support for FX7500 fixed RFID reader
2. Added 64bit support
3. Secure connection
4. Added tag support for Impinj (QT Read/Write) & NXP (Change Config)
5. Set/Get global antenna configuration
 - New method setAntennaRfConfig, getAntennaRfConfig added in Config.Antennas class
6. New event added to report PA/Ambient temperature
 - New method setTemperatureAlarmEvent added in Events class
7. Extended INVENTORY_STATE class
 - INVENTORY_STATE_AB_FLIP
8. Extended SL_FLAG class
 - SL_ALL
9. Extended TAG_FIELD class
 - PHASE_INFO
10. New TEMPERATURE_SOURCE class added
11. New ALARM_LEVEL class added
12. Periodic Tag Report Duration
 - New ReportTriggers class added in TriggerInfo class
13. Reporting phase info as part of TagData
 - New method getPhase added in TagData class
14. Idle mode support

- New method `turnOffRadioWhenIdle`, `getRadioIdleTimeout` added in `ReaderManagement` class
15. User application deployment
- New `UserApp` property added in `ReaderManagement` class (`UserApp` class contain methods to install, unInstall, start, stop, autoStart, list and getRunStatus)
16. Cable Loss Compensation
- New method `setCableLossCompensation`, `getCableLossCompensation` added in `ReaderManagement` class

Sample Application (*J_RFIDHostSample1*)

The host based sample application runs on the Desk top PC to connect Motorola RFID Reader (MC series/FX/XR) based on the IP/Host Name. This app demonstrates the complete functionality using Java RFID API3 class library (Symbol.RFID.API3.jar)

Access the Reader Connect dialog from **Reader->Connection** Menu

- To connect **FX/XR Reader**, provide the respective IP address and port number (default: 5084).
- To connect **MC Series Reader**, provide the IP address as 169.254.2.1 and port number (default: 5084).

This app helps to demonstrate the following functions of RFID Reader:

- Secure connection
- Gets the Reader capabilities
- Reader configuration
- Operation (Inventory & Access Operation Read, write, lock, kill, block erase and block write)
- Filters (Pre-Filter, Post Filter and Access Filter)
- Triggers (Start and Stop Condition)

Contents

1. EMDK-Java-RFID-x86-010001.msi : 32 bit Motorola EMDK for Java (RFID) v1.1 installer
2. EMDK-Java-RFID-x64-010001.msi : 64 bit Motorola EMDK for Java (RFID) v1.1 installer

Versions

Version Details

Motorola RFID API3 Host JNI DLL	1.4.0.23	\\Windows\System32\RFIDAPI3_JNI_HOST.dll	16-December-2013
Motorola RFID	5.5.0.33	\\Windows\System32\RFIDAPI32PC.dll	16-

API3 PC DLL			December-2013
Motorola RFID API3 Host JNI DLL	1.4.0.23	\Windows\SysWOW64\RFIDAPI3_JNI_HOST.dll	16-December-2013
Motorola RFID API3 PC DLL	5.5.0.33	\Windows\SysWOW64\RFIDAPI32PC.dll	16-December-2013
Java API documentation	N/A	<InstallDir>\Motorola EMDK for Java\RFID\doc\javadoc	16-December-2013
Programmers guide	N/A	<InstallDir>\Motorola EMDK for Java\RFID\doc\ProgrammersGuide	16-December-2013
Host based sample application	N/A	<InstallDir>\Motorola EMDK for Java\Samples\netbeans\emdk\J_RFIDHostSample1	16-December-2013

Device Compatibility

This software release has been approved for use with the following Symbol devices.

Device	Operating System
FX7500	Linux

Installation Requirements

This software package has been approved for use with the following:
PC:

- Microsoft Windows XP (32-bit/64-bit)/Windows 7 (32-bit/64-bit)
- Oracle JDK 1.3 or above
- NetBeans IDE 6.91 (32-bit/64-bit edition)

Part Number and Release Date

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