**Release Notes - EMDK for Java RFID v1.3 - Host based programming**

**Introduction**

This is the release of the EMDK for Java RFID for the FX9600 RFID reader. EMDK for Java RFID provides a set of tools necessary to develop Java Applications for RFID reader devices from Zebra.

**Description**

EMDK for Java RFID provides a set of tools necessary to develop Java Applications for RFID reader devices from Zebra. 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 PC.

The Java RFID class library supports the following features:

1. New device support for FX9600 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 Zebra 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 Series 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.msi : 32 bit EMDK for Java (RFID) v1.3 installer
2. EMDK-Java-RFID-x64.msi : 64 bit EMDK for Java (RFID) v1.3 installer

**Versions**

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<td><strong>RFID API3 Host JNI DLL</strong></td>
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Device Compatibility

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

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<th>Device</th>
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<td>FX9600</td>
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Installation Requirements

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

PC:
- Microsoft 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

December 17, 2017