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

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## 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

### Version Details

RFID API3 Host JNI DLL	1.4.0.31	\\Windows\System32\RFIDAPI3_JNI_HOST.dll	17-December-2017
RFID API3 PC DLL	5.5.1.10	\\Windows\System32\RFIDAPI32PC.dll	17-December-2017
RFID API3 Host JNI DLL 32 bit	1.4.0.31	\\Windows\SysWOW64\RFIDAPI3_JNI_HOST.dll	17-December-2017
RFID API3 PC DLL 32 bit	5.5.1.10	\\Windows\SysWOW64\RFIDAPI32PC.dll	17-December-2017
Java API documentation	N/A	<InstallDir>\Zebra EMDK for Java\RFID\doc\javadoc	17-December-2017
Programmers guide	N/A	<InstallDir>\Zebra EMDK for Java\RFID\doc\ProgrammersGuide	17-December-2017
Host based sample application	N/A	<InstallDir>\Zebra EMDK for Java\Samples\netbeans\emdk\J_RFIDHostSample1	17-December-2017

## Device Compatibility

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

Device	Operating System
FX9600	Linux

## 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