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# ***Release Notes - RFID SDK for FX7500 v1.2.1 - Embedded programming***

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## **Introduction**

This package contains the tools required to develop embedded applications for the FX7500 RFID reader. This package contains files required for C-based application development as well as Java-based application development. This is the first release.

## **Description**

This package contains the files required for developing embedded application in C as well as Java. Refer 'Versions' sections to determine which components and their versions.

The following features are supported via the API:

1. New device support for FX7500 Fixed RFID Reader
2. Support for secure connection
3. Set/Get cable loss compensation per antenna
4. Set/Get global antenna configuration
5. New callback mechanism to register/deregister events
6. PA/Ambient temperature events
7. Inventory state A/B flip mode added
  - INVENTORY\_STATE\_AB\_FLIP
8. SL flag can be set to 'SL all'
  - SL\_ALL
9. Tag report includes tag phase
  - PHASE\_INFO
10. New antenna stop trigger types stop inventory operation upon time elapsed or number of attempts
11. Report trigger can be configured to report tags after a specified time duration
12. Idle mode support in which RFID radio is turned off upon a configurable time of inactivity
13. User application deployment
  - Install
  - Uninstall
  - Start/Auto-start
  - Stop
  - Get application run status
  - List installed applications

## **Contents**

1. Motorola FX7500 Embedded SDK Installer ver.1.2.1.msi : RFID SDK packahe for developing embedded applications.

## Version numbers

Motorola RFID API3 shared library	5.5.0.33	Librfidapi32.so	09-December-2013
Motorola RFID API3 shared JNI library librfidapi32.jni.so	1.4.0.23	Librfidapi32jni.so	09-December-2013
Motorola RFID API3 Java JAR file	1.4.0.23	Symbol.RFID.API3.jar	12-December-2013
Motorola RFID API3 PC DLL	NA	RFID programmers Guide.htm	09-December-2013
Java Programmers Guide	N/A	RFIDAPI3_JAVA.html	09-December-2013
C API Help and programmers guide	N/A	EMDK_Help.chm	14-January-2014
Sample applications for C, C++ and Java	N/A	RFIDSample4App	09-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 OS:

- Windows XP (32-bit/64-bit)
- Windows 7 (32-bit/64-bit)

It is also required to have the CodeSourcery package for embedded application development on the FX7500.

- CodeSourcery Lite Version 4.4-290 (The installation file name 'arm-2010q1-202-arm-none-linuxgnueabi.exe can be downloaded from [www.mentor.com](http://www.mentor.com))

## Part Number and Release Date

February 14, 2014