

Zebra RFID SDK for Android

This document summarizes the Zebra RFID SDK for Android V 2.0.2.124 release:

Application Release Number	Release Date	See page
V2.0.2.124	08-JAN-2024	Page 1

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Zebra RFID SDK for Android V2.0.2.124

RELEASE DATE: 08-JAN-2024

The Unified Zebra RFID SDK for Android provides a powerful set of APIs to take full advantage of the MC33XR, RFD8500, RFD40 standard, RFD40 Premium, RFD40 premium plus, FXR90 and RFD90 performance, functionality, and versatility. Please refer to respective Zebra RFID Mobile API application that can be used as reference to develop new applications or to port existing applications to take advantage of the reader features.

Updates in V2.0.2.124

- New restructured SDK (<https://techdocs.zebra.com/dcs/rfid/android/2-0-2-124/guide/introduction-to-api3-sdk/>)
- ZIOTC support for API3 interface with FXR90 (https://techdocs.zebra.com/dcs/rfid/android/2-0-2-124/tutorials/api_compatibility_matrix/fxr90-apilist.html)
- New integrated sample app for LLRP and ZIOTC
- General BUG fixes and stability

Updates in V2.0.2.116

- General BUG fixes and stability

Updates in V2.0.2.114

- A13 Compatibility Fix

Updates in V2.0.2.110

- Friendly name support
- Scan batch mode support
- PP+ battery statistics
- Security fixes in Android SDK
 - Google Play Blocker: Unsafe SSL Trust Manager Defined
 - Google Play Blocker: Unsafe Hostname Verifier
- General BUG fixes and stability

Updates in V2.0.2.100

- New key remapping support for lower and upper trigger
- Supports Fixed reader
- BT Connection failures with Samsung devices
- General BUG fixes and stability

Updates in V2.0.2.86 over V2.0.2.82

- Support RFD90 devices
- BUG fixes and stability

Important Note:

This SDK breaks compatibility in reporting of PC value as part of tag data. Earlier version of SDK was reporting hexadecimal PC value as decimal PC value e.g. 96 bit Tag PC value is 0x3000 which was being reported as 3000 earlier. This updated SDK will report PC value correctly in decimal value as 12288 (= 0x3000)

It is recommended that application convert back PC value in HEX format to show it in similar fashion.

Updates over v1.0.5.11

- Connection time optimization
- Disconnect time optimization
- Introduce new API 'SetDefaultConfigurations' to configure the reader
- Fixes related to application crash noticed when RFD2000 removed from charging cradle

Device Compatibility

- MC33xR
- RFD8500
- RFD40
- RFD40 Premium
- RFD40 Premium Plus
- RFD90
- FXR90

Note: RFD8500 has been validated with TC56 (Android 8), TC52 (Android 10), MC33xR (Android 11), TC26 (Android 10, Android 11) and Commercial Phones (Android 12, Android 13, Android 14) TC53(Android 11) TC73 (Android 11) EC50(Android 10, Android 11) TC52AX (Android 11).

Components

The zip file contains the following components:

- RFID API3 SDK along with JavaDoc

Installation

Supported operating systems:

- Android Oreo 8.0 till Android 13 for RFD8500
- Android 10 till Android 13 for MC33xR, RFD40, RFD40 Premium, RFD40 Premium plus and RFD90
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Developer system requirements:

- Developer Computers: Windows 10 / 64-bit
- Android: Android Studio (2.3 or later), and Android API Level 26 or later

Important Note:

RFID API3 Android SDK requires android.support-v4 to run if Android application is created without appcompat support. Please add 'com.android.support:support-v4' in gradle file 'dependencies'

Notes

Refer to the respective MC33xR\RFD8500\RFD40\RFD90 RFID Developer Guide

Refer to the respective MC33xR \RFD8500\RFD40\RFD90 RFID User Guide for notes on RFID Zebra Mobile API application usage