

Zebra RFID SDK for Android

This document summarizes the Zebra RFID SDK for Android V 2.0.2.94 release:

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Zebra RFID SDK for Android V2.0.2.94

RELEASE DATE: 20-JUNE-2022

The Unified Zebra RFID SDK for Android provides a powerful set of APIs to take full advantage of the MC330XR, RFD8500, RFD40 standard, Premium, premium plus and RFD90 performance, functionality and versatility. The V2.0.2.94 also supports Zebra fixed RFID readers FX9600 and FX7500. 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 V2.0.2.94 over V2.0.2.86

- New key remapping support for lower and upper trigger
- Supports Fixed reader FX9600 and FX7500
- BUG fixes and stability

Updates in V2.0.2.86 over V2.0.2.82

- Support RFD90 devices
- BUG fixes and stability

Updates in V2.0.2.82 over V2.0.1.44

- Support Common IO or Bluetooth based communication for RFD40
- Firmware update API applicable for RFD40
- Multi-tag locate API
- Key remapping support for RFD40
- API support for both scanner and RFID Functionalities

Updates in V2.0.1.44 over V2.0.1.34

- Support Common IO based communication for RFD40
- Firmware update API applicable for RFD40

Updates in V2.0.1.34 over V2.0.1.29

- Added support for Multi Tag Locate in the Zebra RFID SDK.
- Additions for retry support for Write for the failed words which adds robustness to write access operation.
- Fixed issue with Block Permalock when trying to lock more than 4 blocks.

Updates in V2.0.1.29 over V2.0.1.27

- Addresses the issue with usage of the Zebra RFID SDK on non RFID Android 10 devices.
- Support added for Android P and Q release
- Built with updated gradle plugin v3.5.3

Updates over V2.0.1.19

- Fix issue of SDK memory leak in case of multiple iteration of get available reader list, connection without proper disconnection and dispose
- Fixes general null check bugs

Updates over V2.0.1.16

- Fix issue of SDK crash when running application on non-RFID MC33 device
- Fix issue when Access operation synchronous (wait) API with prefilter operation failure resulted in leftover prefilter in reader

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

Known Issues

- When working with fixed readers, the connection between the SDK and the reader may drop due to the SDK consuming tags at a lower rate. In order to detect any loss of connection and reconnect, the application should handle connection lost events in the EventListener implementation and reconnect. An example of how to do this is provided in the below link in Reconnection section.

<https://techdocs.zebra.com/dcs/rfid/android/2-0-2-94/guide/connection/>

Also to minimize connection losses between the reader and the SDK, it is recommended to use S1 session for reading tags.

Device Compatibility

- MC33xR (Android Q and above)
- RFD8500
- RFD40
- RFD40 Premium
- RFD40 Premium Plus
- RFD90
- FX7500
- FX9600

Note: RFD8500 has been validated with TC56 (Android Oreo), TC72 (Android Pie), TC52 (Android 10), MC33xR (Android Oreo & Android 10), TC26 (Android 11, Android 10) and Commercial Phones (Android 11, Android 10).

Note: FX reader support has been validated with CC600 (Android Oreo), CC6000 (Android Oreo), L10 (Android 10), ET51 (Android 11).

Components

The zip file contains the following components:

- RFID API3 SDK along with JavaDoc

Installation

Supported operating systems:

- Android Oreo and later for RFD8500, MC33xR
- Android 10 and later for RFD40
- Android 10 and later for RFD40 Premium and RFD40 Premium plus
- Android 10 and later for RFD90
- Android 10 and later for FX7500 and FX9600

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