Zebra RFID SDK for Android

This document summarizes the Zebra RFID SDK for Android V 2.0.1.34 release:

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Zebra RFID SDK for Android V2.0.1.34

RELEASE DATE: 15-November-2020

The Unified Zebra RFID SDK for Android provides a powerful set of APIs to take full advantage of the MC3300R, RFD2000 and RFD8500 performance, functionality and versatility. The 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 V2.0.1.34 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

Updates over V2.0.1.15

- Added antenna power parameter validation check to fix crash when power level greater than maximum supported by reader resulted in array exception

Updates over v2.0.1.11

- New API to add multiple pre-filter and singulation control via single call
- Fixed issue to handle very rare scenario when SDK goes out of sync with reader and continue to throw RFID_API_UNKNOWN_ERROR

Updates over v2.0.1.6

- Fixed issue for LED blink not happening when Application does not collect the tags from SDK
- Fixed issue of SDK exception when BT device is paired
- Fixed minor issue for block write API validation with incorrect write data length

Updates over v2.0.0.2

- Added support for MC3300R Zebra RFID Mobile Computer
- Synchronous access operations APIs have provision to apply pre-filter by SDK
- Synchronous write access operations APIs have provision to perform retries in case of failures

Updates over v1.0.5.11.7

- Unified SDK to work with RFD2000 and RFD8500
- Fixed issue when bigger PC value than 3000H can result in crash in SDK

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

- MC3300R (Android Nougat & Android Oreo)
- MC300xR (Android 10)
- RFD2000 with TC20 (Android Nougat) and TC20 (Android Oreo)
- RFD8500

Note: RFD8500 has been validated with TC56 (Android Oreo), TC72 (Android Pie), TC52 (Android 10), MC3300x (Android Oreo & Android 10), Android 10 Commercial Phones.

Components

The zip file contains the following components:
- RFID API3 SDK along with JavaDoc

Installation

Supported operating systems:

- Android KitKat 4.4.3 and later for RFD8500
- Android Nougat 7.X and later for RFD2000 & MC3300R, MC330xR

Developer system requirements:

- Developer Computers: Windows 7 & 10 /64-bit
- Android: Android Studio (2.3 or later), and Android API Level 19 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 MC3300R\RFD2000\RFD8500 RFID Developer Guide

Refer to the respective MC3300R \ RFD2000\RFD8500 RFID User Guide for notes on RFID Zebra Mobile API application usage