Zebra RFID SDK for Android

This document summarizes the Zebra RFID SDK for Android V 2.0.2.116 release:

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Zebra RFID SDK for Android V2.0.2.116

RELEASE DATE: 05-May-2023

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. 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 V2.0.2.116

- 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

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

Device Compatibility

- MC33xR (Android 10 and Android 11)
- RFD8500
- RFD40
- RFD40 Premium
- RFD40 Premium Plus
- RFD90

Note: RFD8500 has been validated with TC56 (Android 8), TC72 (Android 9), TC52 (Android 10), MC33xR (Android 10 & Android 11), TC26 (Android 10, Android 11, Android 12) and Commercial Phones (Android 10, Android 11, Android 12, Android 13).

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, Premium plus and RFD90

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