

123RFID Mobile Application for Android

This document summarizes the 123RFID Mobile Application for Android 1.0.0.1 release:

Application Release Number	Release Date	See page
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123RFID Mobile V1.0.0.1

RELEASE DATE: 20-May-2019

The Zebra 123RFID Mobile application demonstrates the performance, functionality and versatility of the RFD8500 / MC3300R / RFD2000

Functionality:

1. Inventory – A quick snapshot of the scanned RFID tags and the ability to search a tag from the list.
2. Rapid Read – A simple screen to quickly get unique and total tag counts.
3. Locate Tag - Use the Locate Tag feature to find and locate an item by searching for a specific Tag ID. The device will provide feedback that indicates the relative distance to the tagged item.
4. Filter – Select/deselect a tag based on pattern criteria.
5. Access - manipulate standard tag memory locations.
6. Settings – Configure the reader to meet your needs.
 - a. Canned profile support for varying usage scenario
 - b. Configure the RFID Antenna power and link profile.
 - c. Time the Start/Stop Trigger
 - d. Control the audible beep volume
 - e. Configure reader to report only unique tags
7. Use the Power Management settings to optimize battery usage
8. Battery level notifications
9. TAG list match mode support – import tag data using csv file named 'taglist.csv'
10. Export RFID data to a PC

Updates over 2.2.7.0

1. New name '123RFID Mobile' and icon
2. Added support for RFD8500 reader
3. Bug fixes and improved feature and functionality
4. Built with latest SDK v2.0.1.19

Updates over 2.2.6.8

1. Bug fixes and improved feature and functionality
2. Built with latest SDK v2.0.1.15

Updates over 2.2.5.24

1. Revamped demo application with enhancements in features and UI
2. Profile support to operate reader with different canned configurations
3. Tag list match mode support updates
4. Simplified pre-filter and access operation usage
5. ASCII mode support added to read/write tags in ASCII format
6. Android Material theme based UI
7. Bug fixes

Updates over 1.2.5.21

1. Added support for MC3300R Zebra RFID Mobile Computer
2. Added support for Tag List Match mode using taglist.csv
3. Access and Pre-filter screens simplified with hidden advanced options

Updates over 1.0.5.15

1. Uses DW profile to disable scanner
2. Built with updated unified SDK v2.0.0.2 release

Device Compatibility

- MC330R (N)
- RFD2000 with TC20 (N) and TC20 (O)
- RFD8500

Note: RFD8500 validated with MC40 (KK), TC55 (KK), TC51 (M), TC70 (M) and MC33 – non-RFID (N)

Components

The zip file contains the following components:

- 123RFID Mobile Application APK file and source code
- Android Studio project

Installation

Supported operating systems:

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

Developer system requirements:

- Developer Computers: Windows 7/64-bit
- Android: Android Studio (2.3 or later), and Android API Level 25 or later

Known issues

Note: Following issues will be addressed in next release of application

1. Inventory with Tag List Match Mode is not working as expected in following scenario - Tag list match mode is enabled, and batch mode is enabled and when user start and stop inventory; inventoried tags don't contain the tags which are in csv file. It is not showing the tags which are in csv file.
2. TC51 loses connection after factory reset of RFD8500 in following scenario - Application is open in Reader List page and connected with RFD8500. If user factory resets the reader it will disconnect and loose pairing information. Application will try to auto reconnect which will result in automatic pairing request. After successful pairing application will lead to set the regulatory and application will be operational. In case user moves to reader list page again, pairing information is lost and user cannot perform any operation afterwards.

Workaround: User should unpair and pair RFD8500 reader from host device in case of factory reset was performed on reader before using application.

3. In rare case application can go out of sync with RFD8500 with following scenario. Application has started inventory. Reader goes out of BT range and moves to batch mode. Application is trying to do auto connect. Reader moves in range and application connects fine. After connection user presses multiple time STOP button to stop batch mode inventory which leads to exception.
Workaround: User should kill and relaunch application which should get connected fine and batch mode can be stopped.