123RFID Mobile Application for Android

This document summarizes the 123RFID Mobile Application for Android 1.0.0.46 release:

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123RFID Mobile V1.0.0.46

RELEASE DATE: 25-November-2020

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. Multi Tag Locate– Use the multi tag locate to locate multiple tags of interest that have been imported from a csv file. The device will show the relative distance of the tagged items.
5. Filter – Select/deselect a tag based on pattern criteria.
6. Access - manipulate standard tag memory locations.
7. 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
8. Use the Power Management settings to optimize battery usage
9. Battery level notifications

10. TAG list match mode support – import tag data using csv file named 'taglist.csv'
11. Export RFID data to a PC

Feature Additions in release V1.0.0.46

1. Support for Multi Tag Locate.
2. Ability to Read or Write Tags in ASCII mode.
3. Support for Exporting Tag data in ASCII mode.
4. Ability to append exported data to the same file when the application is in "Cycle Count" Profile.
5. Provide information on the relative distance (%) in Locate Tag screen.
6. Ease of Navigation between inventory and locate screens. Also added additional confirmation when using the back button to exit the application.
7. Enhancements to Tag List Match Mode

   - Support to browse and choose the taglist csv file.
   - Support choosing different match file before operation. Remove the need for a fixed file name.
   - Different color representation for Unknown, read and expected tags in taglist mode.
   - Display friendly names as default, which can be optionally turned off to show only EPC.

8. Robust Write support with additions to retry writing failed words.
9. Alert Indication (Background highlight in yellow) in the Inventory screen when the tag does not have printable ASCII data when in ASCII mode.
10. Includes Android RFID SDK V2.0.1.34 which includes support for Multi tag locate and improvements for Write and BlockPermalock access operations.

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:

- 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, MC330xR

Developer system requirements:

- Developer Computers: Windows 7 & 10/64-bit
- Android: Android Studio (2.3 or later), and Android API Level 28 or later

Known issues

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

1. Use will not be able to delete tag in Multi Tag locating page when ASCII Mode is enabled.

   Workaround: Reload the multi tag csv file with the changes to include the desired tags.

2. With Auto Rotate is enabled in MC3300R, performing multitag locating or taglistmatch mode inventory causes 123RFID Mobile to freeze.

3. Multitag locate will not happen properly when "Report unique-tags" option is enabled.