Release Notes for RFD8500 V1.8.R03   Released 23 April 2017

Contents

Introduction

These release notes are for the RFD8500/i (RFD8500 and RFD8500i) ECRT release V1.8.R03

Software Deliverables

RFD8500/i software is available by updating 123Scan to get the latest plugins. The plugin (Engineering) name for this release is RFD8500-COMMON_MODELS-B-036.SCNPLG.

Version 1.8.R03 contains the following components:

IMAGE TYPE	VERSION	FILE NAME
Super combined RFD8500 image	1.8.R03	SAACPS00-006-R03.DAT
NGE FW	1.4.67	cnge-bf525-dev-rev1.4.67.DAT
RFID Demo App for Android	1.0.2.17	Zebra_RFID_Mobile_1.0.2.17.apk
RFID SDK for Android	1.0.3.11	API3_LIB-release_1.0.3.11.aar
RFID Demo App using API for Android	1.0.3.20	Zebra_RFID_Mobile_API-1.0.3.20.apk
RFID iOS SDK	1.0.67	Zebra_RFID_SDK_1_0_67.pkg
RFID iOS Demo App	1.0.76	RFIDDemoApp_1_0_76.adhoc.ipa

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Scan Scan Write for Android	1.0.0.19	Zebra_RFID_Scanscanwrite_1.0.0.19.apk
Scan Scan Write for iOS	1.0.4	ScanScanWriteDemo_1.0.4_adhoc.ipa
Scanner Android SDK & Demo App	2.0.8	Android_ScannerSDK_v2.0.8.0
Scanner iOS SDK & Demo App	1.3.9	Zebra_ScannerSDK_for_IOS_v1.3.9
RFD8500 123Scan plug-in		RFD8500-COMMON MODELS-B-036.SCNPLG
iPL3307 123Scan plug-in		IPL3307-RFD8500 MODELS-S-004.SCNPLG
RFID Windows Phone 10 Demo App	1.0.9	Zebra RFID Mobile_1.0.9_ARM_Test
RFID Windows 10 Demo App	1.0.9	Zebra RFID Mobile_1.0.9_x64_Test
Scan Scan Write for Windows	1.0.2.4	Scanscanwrite_1.0.2.4_AnyCPU

Changes since 1.8.R00

1. Support for the ETSI RE-d regulatory standard
   a. Filters have been adjusted to handle the new ETSI regulations (RE-d).
   b. Removed the FM0 link profiles (profiles 1,2,24,25) for EU regulatories.
2. Improved unique tag read performance using sessions S2 and S3 by using NAK when CRC error are detected
3. Added support for retrying the MFI Link Initialization Sequence once per second until IOS device sends the IAP2 support packet in order to establish a proper MFi connection.
4. Address race conditions in the RFID SDK that can crash the RFID demo app if used when the RFD8500 is turned off or is out of range.

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Changes since 1.7.R00

- New RFID demo application with UWP support for Windows 10.
  - Demo application uses the RFD8500 ZETI protocol to interface with the RFD8500/i
  - Demo app and source code available via Zebra support site
- New Scan-Scan-Write (SSW) demo application for Windows Mobile 10 (ARM)
  - Demo app and source code available via Zebra support site
- The RFD8500 firmware can be now updated via Bluetooth
- New Scanner Control demo app for Android supports RFD8500 firmware update via Bluetooth
- Added new feature to raise or lower the virtual keyboard in iOS Bluetooth HID mode by double pulling the trigger (pressing the trigger twice)
- RFID SDKs and demo apps were validated with the following operating systems and devices
  - iOS 8.4.1 (iPod Touch [6th generation] and iPhone 6)
  - iOS 10.1.1 (iPod Touch [6th generation] and iPhone 6)
  - Android v4.4.3 (TC55)
  - Android v5.1.1 (MC40 & TC70)
  - Android v6.0.1 (TC51)
  - Windows Mobile 10 (TC70)

- New Fixes in RFID SDK for iOS v1.0.64
  - Fix a minor memory leak during attribute sets
  - Command response timeout allocation/release fix to avoid crash during reader connection
- Fixes ported to RFID SDK for iOS v1.0.64 from RFID SDK for iOS v1.0.33
  - Protection for response processing and command operation stop during device disconnect.
  - Object was being deallocated while it was still in use
  - Changed PC type to be string instead of int in the sRFIDTagData
- Fixes ported to RFID SDK for iOS v1.0.64 from RFID SDK for iOS v1.0.38
  - Fix slow and small memory leak for OperationEndSummary Notification
  - Modified allocation / deallocation of resources in the connection/disconnection procedures to make them more robust.
  - Added additional protection to response handlers and to the stop command process to gracefully handle disconnections thereby avoiding application crashes
  - Fix timer canceling process at the time of disconnect
- Fixed connection issue with Scan Scan Write app for Android when running in Android v6.0.1
- Fixed issue in RFID SDK for Android whereby TagPattern mask is not set properly when mask contains leading zeros
- Fixed intermittent issue in which a two second delay to start an RFID operation is observed in Bluetooth HID and USB HID modes
- Fixed number of minor issues in the RFID demo apps
- Fixed intermittent issue in which the operational LED does not blink when updating multiple RFD8500s at the same time with 123Scan
- Setting power levels below 3 dBm now requires DPO to be disabled
- Improvement to auto reconnect functions with iOS devices

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Important Notes

- The RFD8500 RFID region should be configured first before using any RFID functions. The region can be configured via RFID demo apps or ZETI interface. Refer to the RFD8500 user guide and the developer guide for more details. If not familiar with region configuration, it is recommended to set region configuration using the RFID demo apps or the ZETI interface instead of 123Scan.
- When in HID mode, a beep sequence is heard if the region is not set and the trigger is pressed.
- The RFD8500 works in two main modes over Bluetooth: HID mode, SPP and MFi combo mode, which is the default. Combo mode allows the RFD8500 to be paired with either iOS or Android devices out of the box. To enable Bluetooth HID the RFD8500 123Scan plug-in should be used. The setting HID keyboard emulation profile should be chosen under General->Bluetooth->Bluetooth Profile Mode.
- The RFD8500 Bluetooth is discoverable for 40 seconds (by default or as per the configured value) each time it becomes discoverable, the RFD8500 trigger button must be pressed within 25 seconds to accept the pairing request once RFD8500 starts flashing Bluetooth LED fast. It is recommended to use MC40 with Android KK version 4.4.4 & Android L 5.1.1, TC55 Android version 4.4.3, TC70 with Android L Version 5.1.1 and TC51 with Android M Version 6.0.1. Android 4.4.3 is the minimum requirement for RFID demo app.
- Batched data can get lost when unit goes to off mode after 30 minutes of inactivity. Batched data should be offloaded within this time widows.
- When 123Scan is used to configure the RFD8500, the RFD8500 should be power cycled to complete the configuration process.
- RFD8500 does not support setting configuration via barcode scanning.

Known Issues

1. ZETI password is not configurable via 123Scan. Use the ZETI interface directly to configure it
2. Sometimes during inventory with C1G2 Session 1/ 2/3 behavior resembling Session 0 is seen with Higgs 3 based tags.
3. After sending Switch host from USB CDC to SNAPI the USB cable needs to be removed and connected back for this to take effect.
4. Configuring HID on either of the interfaces (USB or BT) causes the other interface to acquire the HID characteristics for RFID. It is not recommended usage of device using HID on one interface and using ZETI based RFID on the other interface.
5. Sometimes RFD8500 may not transition to off mode after being idle for 30 minutes when used in BT HID mode and with an iOS v8.4.1 host. To reduce the probability of this event, it is recommended to configure parameter 1633 to a value much less than default value, 1800 seconds (30 minutes), such as 300 seconds (5 minutes)
6. In RFID demo app for Android v1.0.2.x read rate is updated in inventory page when data is retrieved in batch mode (read rate should not be in batch mode)
7. Intermittent issue seen with iOS 10 when sometimes the RFID demo app does list all connected devices
8. RFID Demo application for iOS source code is not compatible for directly building for iOS 10 (Xcode v8); but still it can be used as reference except UI portion.

9. The addition of the NAK has caused a performance degradation of about 3% in FM0/640 compared to previous version (1.8.R00)
10. When GenX is rebooted several times when connected to the IPhone BT auto reconnection fails on few occasions.