RFD8500 Version 1.8.R61 Release Notes

This document summarizes the following firmware releases:

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RFD8500 Version V1.8.R61

RELEASE DATE: 16-Jan-2019

This release notes is for the RFD8500/i(RFD8500 and RFD8500i) ECRT release V1.8.R61.RFD8500/i software and is available by updating 123Scan latest plugins. The plugin name for this release is RFD8500-COMMON_MODELS-S-061.SCNPLG.

Contents of the release package:

IMAGE TYPE	VERSION	FILE NAME
Super combined RFD8500 image	1.8.R61	SAACPS00-006-R61.DAT
NGE FW	1.4.67	cnge-bf525-dev-rev1.4.67.DAT
RFD8500 123Scan plug-in		RFD8500-COMMON_MODELS-S-061.SCNPLG
iPL3307 123Scan plug-in		IPL3307-RFD8500_MODELS-S-004.SCNPLG
RFID Demo App for Android	1.0.2.17	Zebra_RFID_Mobile_Android_1.0.2.17.zip
RFID SDK for Android	2.0.1.15	Zebra_RFIDAPI3_SDK_2.0.1.15.zip
RFID Demo App using API for Android	1.2.3.26	Zebra_RFID_Mobile_Android_1.2.3.26.zip
RFID iOS SDK	1.0.69	Zebra_RFID_SDK_1_0_69.pkg
RFID iOS Demo App	1.0.79	RFIDDemoApp_1_0_79.adhoc.ipa

RFID SDK for Windows	2.1.2	Zebra_RFID_Windows_SDK_v2.1.2.zip
RFID Windows Demo App	1.0.9	Zebra_RFID_Mobile_Windows_UWP_1.0.9.0.zip

HARDWARE REQUIREMENTS

- RFD8500 All SKUs

ENHANCEMENTS / CHANGES in 1.8.R61 with respect to 1.8.R03

- Implements proper Bluetooth shutdown before RF8500 enters OFF MODE.
- Implements proper Bluetooth shutdown when Battery enters critical state resulting in RFD8500 shutdown
- Zebra RFID SDK Support for Android 'N'
- Zebra RFID SDK Support for IOS11 and XCode 9
- Fix race condition that causes trigger event not be sent to the application
- Regulatory Changes for Vietnam

Vietnam	918 - 923 MHz	500mW ERP	FHSS

Supported Channels

- 918750
- 919250
- 919750
- 920250
- 920750
- 921250
- 921750
- 922250

- Add check to confirm that radio is reading tags and flash-LED and beeper when host is in busy to receive tag.
- Add multiple counters to monitor reading performance in batch auto mode.
- Decrease polling tag number from 100 to 10, in which the polling cycle timespan is decreased to avoid big gap in tag report.

ISSUES CORRECTED

- Fixed RFD8500 locks up in a charge state. While RFD 8500 moves to OFF mode, disconnecting active blue tooth host before system shutdown causes device locks up.
- Barcode scanning is not working in MFI mode if the user scans first in SSI Host and then changes to MFI Host.

ADDITIONAL NOTES

Summary of major issues and limitations are listed below.

- 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

- ZETI password is not configurable via 123Scan. Use the ZETI interface directly to configure it
- Sometimes during inventory with C1G2 Session 1/ 2/3 behavior resembling Session 0 is seen with Higgs 3 based tags.
- After sending Switch host from USB CDC to SNAPI the USB cable needs to be removed and connected back for this to take effect.
- 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.
- 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)

- 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)
- Intermittent issue seen with iOS 10 when sometimes the RFID demo app does list all connected devices
- The addition of the NAK has caused a performance degradation of about 3% in FM0/640 compared to previous version (1.8.R00)
- When RFD8500 is rebooted several times when connected to the IPhone BT auto reconnection fails on few occasions.