RFD8500 SAACPS00-008-R01 Release Notes

This document summarizes the following firmware releases:

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For support, please visit www.zebra.com/support

RFD8500 Version SAACPS00-008-R01

RELEASE DATE: 26-Oct-2022

This release notes for the RFD8500 production release SAACPS00-008-R01.

RFD8500 software is available by updating 123Scan latest plugin.

The plugin name for this release is RFD8500-COMMON MODELS-S-081.SCNPLG.

Contents of the release package:

IMAGE TYPE	VERSION	FILE NAME
Super combined RFD8500 image	SAACPS00-008-R01	SAACPS00-008-R01D0.DAT
Radio Firmware	1.4.86	nge-bf525-dev-rev1.4.86.DAT (Older RFD8500)
	2.0.41	nge-bf525-dev-rev2.0.41-with-Recovery_525-6.DAT (RFD8500 with ASIC)
RFD8500 123Scan plug-in		RFD8500-COMMON MODELS-S-081.SCNPLG
iPL3307 123Scan plug-in		IPL3316-RFD8500_MODELS-S-005.SCNPLG
ZETI RFID Demo App for Android	1.0.2.17	Zebra_RFID_Mobile_Android_1.0.2.17.zip
RFID SDK for Android	2.0.2.100	Zebra_RFIDAPI3_SDK_2.0.2.100.zip
Zebra 123RFID Mobile	1.0.2.100	123RFID_Mobile_ 1.0.2.100.zip

Zebra RFID SDK for iOS	1.1.24	Zebra_RFID_SDK_1_1_24.pkg
RFID iOS Demo App	1.1.24	RFIDDemoApp_1_1_24.adhoc.ipa
RFID SDK for Windows	3.0.23	Windows.Desktop.SDK_v3.0.23.zip
RFID Windows Demo App	3.0.23	Windows.Desktop.DemoApp_v3.0.23.zip
RFID SDK for Xamarin (Android)	2.0.1.100	Zebra_RFIDAPI3_XAMARIN_SDK_2.0.1.100.zip

- **All the SDK's and Demo Apps are available in Zebra support site @** https://www.zebra.com/us/en/support-downloads/rfid/rfid-handhelds/rfd-8500.html

HARDWARE REQUIREMENTS

- RFD8500 All SKUs

ENHANCEMENTS / CHANGES in SAACPS00-008-R01 with respect to SAACPS00-006-R78

- Added support for RFD8500 with ASIC based radio.
- Following countries updated to support latest spec
    1. Chile - Updated to latest power and frequencies (915 - 928MHz 500mW EIRP)
    2. Vietnam - Max power limited to 25.2 dBm (500 mW ERP)
    3. Kuwait - Max power increased to 2W ERP
    4. El Salvador - Changes to use 915 - 928MHz band at 4W EIRP.
- Fix for Link profile FM0-640K and FM0-320K

Release notes and details of SAACPS00-006-R78 can be found in Zebra support site @

https://www.zebra.com/content/dam/zebra_new_ia/en-us/software/firmware/rfd8500-firmware/RFD8500_PAACPS00-006-R78_Release_Notes.pdf

ADDITIONAL NOTES

Summary of important notes are listed below.

- RFD8500 with ASIC based radio (Hardware Id 5) does not allow firmware downgrade below SAACPS00-008-XXX.
- 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.
- Batched data can get lost when unit goes to off mode after 30 minutes of inactivity. Batched data should be offloaded within this time widow.
- 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.