RFD8500 SAACPS00-006-R78 Release Notes

This document summarizes the following firmware releases:

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

RFD8500 Version SAACPS00-006-R78

RELEASE DATE: 16-March-2022

This release notes is for the RFD8500 maintenance release SAACPS00-006-R78.

RFD8500 software is available by updating 123Scan latest plugin.

The plugin name for this release is RFD8500-COMMON_MODELS-S-078.SCNPLG.

Contents of the release package:

IMAGE TYPE	VERSION	FILE NAME
Super combined RFD8500 image	SAACPS00-006-R78	SAACPS00-006-R78D0.DAT
Radio Firmware	1.4.86	nge-bf525-dev-rev1.4.86.DAT
RFD8500 123Scan plug-in		RFD8500-COMMON_MODELS-S-078.SCNPLG
iPL3307 123Scan plug-in		IPL3316-RFD8500_MODELS-S-005.SCNPLG
RFID Demo App for Android	1.0.2.17	Zebra_RFID_Mobile_Android_1.0.2.17.zip
RFID SDK for Android	2.0.2.82	Zebra_RFIDAPI3_SDK_2.0.2.82.zip
Zebra 123RFID Mobile	1.0.2.82	123RFID_Mobile_ 1.0.2.82.zip
Zebra RFID SDK for iOS	1.1.17	Zebra_RFID_SDK_1_1_17.pkg

RFID iOS Demo App	1.1.17	RFIDDemoApp_1_1_17.adhoc.ipa
RFID SDK for Windows	3.0.18	Windows.Desktop.SDK_v3.0.18.zip
RFID Windows Demo App	3.0.18	Windows.Desktop.DemoApp_v3.0.18.zip
RFID SDK for Xamarin (Android)	2.0.1.82	Zebra_RFIDAPI3_XAMARIN_SDK_2.0.1 .82.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 SAACPS00-006-R78 with respect to SAACPS00-006-R75

- SPR 45797 - Added logic to prevent RFD8500 stopping reads (and displaying Red LED) when the unit is reading tags in reflective environment.
- Additional logging to identify information for the Red LED scenario.

ENHANCEMENTS / CHANGES in SAACPS00-006-R75 with respect to SAACPS00-006-R72

- Added Support for the following regulatories in ETSI_SKU
  - Kuwait – Support for Increased power upto 2W ERP and ETSI channels
  - Lebanon - Support for max power upto 100 mW ERP and ETSI channels
  - Morocco – Support 2 channels (865700 KHZ @ 2W ERP and 867800 KHZ @ 500 mW ERP)
- Added support for Tunisia SKU (SKU – 25) supporting Tunisia regulatory.
- Added Support for Costa Rica in the FCC SKU.
  Frequency Band - 902 - 928MHz FHSS
  Max Power – 1W EIRP (26 dBm).

Release notes and details of SAACPS00-006-R72 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-R72_Release_Notes.pdf

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.
- 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.