

FXSeries 2.6.9 Release Notes

Release Notes for FXSERIES V2.6.9

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Contents

Introduction.....	1
Software Download	1
Installation Requirements	2
Installation Instructions	2
Changes in 2.6.9 compared to 2.6.7.....	3
New Features in 2.6.7 (summary)	3
Known Issues	5

Introduction

Zebra's Fixed reader series comprises of the following readers

1. FX7500 RFID reader is a powerful EPC Gen-2 compliant business class fixed reader
2. FX9600 RFID reader is a powerful EPC Gen-2 compliant industrial fixed reader

Both these readers are Linux based devices driven by powerful RFID engine that enables users to integrate RFID into their business logic and applications with great ease and high efficiency.

Release Notes lists new features, any specific usage instructions, and any known issue.

The current build FXSeries 2.6.9 is a common release aimed at both FX7500 and FX9600 readers.

The features and the issues mentioned in this document are applicable for all FX7500 and FX9600 SKUs

Software Download

The version 2.6.9 software update package includes the files required to update FX7500 and FX9600 RFID Readers.

An FTP/SCP/FTPS server is required to upgrade the readers.

Contents of the release package:

IMAGE TYPE	VERSION	FILE NAME	DATE
RM Server	2.6.9	platform_2.6.9.0.tar.gz	08/03/2018
LLRP Server	2.6.9		
X-Loader	2.0.4	x-load_2.0.4.bin.ift	01/05/2017
U-Boot	2.0.13	u-boot_2.0.13.0.bin	09/21/2017
Operating System	2.2.12	ulmage_2.2.12.0	11/22/2017
Root FS	2.0.4	rootfs_2.0.4.0.jffs2	03/07/2018
OsUpdate Utility	1.0.0	Osupdate.elf	02/07/2018

FXSeries 2.6.9 Release Notes

Response	N/A	response.txt	08/03/2018
RFID3 CAPI DLL	5.5.1.15	Rfidapi32.so	04/09/2018
RFID3 JNI DLL	1.4.0.31	librfidapi32jni	11/14/2017
RFID3 Java API	1.4.0.31	Symbol.RFID.API3.jar	11/14/2017
Linux Kernel	2.6.32		
Radio Firmware	1.4.68.0 (FX7500) 2.1.14.0 (FX9600)		
Radio API	2.2.8.2		

Host API release Version Info:

IMAGE TYPE	VERSION	FILE NAME	DATE
RFID3 C API DLL	5.5.1.15	RFIDAPI32PC.DLL	05/29/2018
RFID3 .NET DLL	1.5.1.7	Symbol.RFID3.*.dll	05/29/2018
RFID3 Java JNI DLL	1.4.0.31	RFIDAPI3_JNI_HOST.dll	11/14/2017
RFID3 Java API	1.4.0.31	Symbol.RFID.API3.jar	11/14/2017

Native DLL available for Windows 64-bit only.

Installation Requirements

- A Java enabled browser on a PC is required to initiate the upgrade process. A USB drive can also be used directly. The recommended browser is Mozilla Firefox

Installation Instructions

There are three supported ways to upgrade the FXSERIES RFID reader

Method 1:

Unzip images and copy to a USB drive. Connect USB drive to FXSERIES reader. Upgrade will automatically start in 7-10 seconds.

Method 2:

FXSeries 2.6.9 Release Notes

Copy images to local drive of PC, log in to the reader, select 'File based upgrade' on reader upgrade webpage, Enter username and password of reader. Select image to upgrade from local PC. Click 'Start upgrade'

Method 3:

Copy images to FTP server. Navigate to the reader upgrade webpage and select 'FTP upgrade' page. Enter username and password of the FTP server. 'Start upgrade'.

- ✓ FTP/SCP/FTPS server can be used to upgrade the readers.
- ✓ The latest version of PowerSession demo application (0.40.8 and higher) can also be used to upgrade multiple readers with a single operation. Please refer to the Integrator Guide document for detailed upgrade procedures.

Changes in 2.6.9 compared to 2.6.7

- Change to restrict the maximum radiated power to 1 W ERP for Cambodia regulatory for FX7500 reader.

New Features in 2.6.7 (summary)

This is the unified platform build for both FX7500 and FX9600.

All the features that were supported on the FX7500 and FX9600 readers for the following releases should work on both.

- 2.3.23 release of FX7500 plus the below

Newer WIFI/Bluetooth dongles supported.

- WIFI dongles
 1. TP-Link: AC 1200 Realtek RTL8812AU
 2. ASUS: USB-AC56 Realtek RTL8812AU
 3. Alfa Network Realtek RTL8812AU
- Blue-Tooth dongles
 1. Bluetooth CSR 4.0 dongle Qualcomm / Atheros CSR8510
 2. Bluetooth3.0+HS Ralink RT5370L

Support for following regions have been added for FX7500

1. Bangladesh – (925 - 927MHz 4W EIRP FHSS)
2. Cambodia – (2W ERP (3.2W EIRP) 4 Channels NO LBT 2W ERP channels (865.7; 866.3. 866.9; 867.5MHz))
3. Laos
 - a. Laos FCC - 923 - 925 MHz 0.5W ERP translating to 23.2 dBm
 - b. Laos ETSI - 866 - 869 MHz 0.5W ERP translating to 23.2 dBm

- 2.4.30 release of FX9600

The below matrix shows the list of features that are supported (over the 2.3.23 release of fX7500 and 2.4.30 release of FX9600)

FXSeries 2.6.9 Release Notes

SI No	Feature	FX9600	FX7500
1	Support for Japan regulatory	Supported in common Build V2.6.7	Supported in common Build V2.6.7
2	Support for Chile regulatory	Supported in common Build V2.6.7	Not Supported
3	Antenna Check logic has optimized when inventory is ongoing.	Supported in common Build V2.6.7	Supported in common Build V2.6.7
4	Web console changes to allow cable loss compensation even on POE. This will allow user to change cable loss as appropriate within the regulatory limits.	Supported in common Build V2.6.7	Supported in common Build V2.6.7
5	India regulatory has been modified to use frequencies 865.4, 866.0 and 866.6 MHz	Supported in common Build V2.6.7	Supported in common Build V2.6.7
6	Included SerTCPBridge as part of platform	Supported in common Build V2.6.7	Supported in common Build V2.6.7
7	Support NXP "Brand ID" feature	Supported in common Build V2.6.7	Not Supported
8	Ability to identify and send antenna connect and disconnect events on antennas on which the user app is performing inventory	Supported in common Build V2.6.7	Not Supported
9	Fix for Krack Vulnerability	Supported in common Build V2.6.7	Supported in common Build V2.6.7
10	Increased the OpsSpecs per access spec to 8	Supported in common Build V2.6.7	Supported in common Build V2.6.7
11	Additional WiFi and BT dongle support	Supported in Fx9600 RevA 2.4.30	Supported in common Build V2.6.7
12	Tag Focus support	Supported in common Build V2.6.7	Supported in common Build V2.6.7
13	Support for Sri Lanka SKU and regulatory	Supported in common Build V2.6.7	Not Supported
14	"Region of operation" for the US SKU now supports "United States/Canada" as the region of operation	Supported in common Build V2.6.7	Supported in common Build V2.6.7
15	Additional regions (Bangladesh, Laos and Cambodia)	Not Supported	Supported in common Build V2.6.7

FXSeries 2.6.9 Release Notes

16	Support for Israel SKU	Supported in common Build V2.6.7	Not Supported
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Known Issues

Summary of major issues and limitations are listed below.

- Web console has few pages that use Java applets and works only with IE11
- Before the successful tunnel creation two ping packets are sent and received unencrypted
- IPSEC hand shake is not successful with CISCO router
- After successful tunnel creation reader accepts unencrypted packets momentarily from the destination
- RFID-6394 "LLRP is not Running" Message appears in web-console while Upgrading/downgrading firmware when reader is in POE+ mode.
- RFID-6650 Pre-Filter operation is not working as expected with BrandID check is enabled