

# RELEASE NOTES FOR COMFORT APP FW 2.1.0

## CONCERNED PRODUCTS

The following products already contain this FW version:

- ARF8275AAF: COMFORT V2 LoRaWAN EU863-870
- ARF8275CAF: COMFORT V2 Sigfox RC1

## SUMMARY

This version adds some important features:

- LoRaWAN: Data Timestamp.
- LoRaWAN: network quality test at device startup.
- LoRaWAN: join procedure: customization of the timing of attempts.
- Alarm repetition
- Periodical transmission with redundancy

## Table of content

<b>CONCERNED PRODUCTS</b> .....	<b>1</b>
<b>SUMMARY</b> .....	<b>1</b>
<b>CHANGES COMPARED WITH FW APP VERSION 2.0.1 (8275AAF AND 8275CAF)</b> .....	<b>2</b>
1.1 IN GENERAL .....	2
1.2 REGISTERS .....	2
1.3 UPLINKS .....	2
1.4 DOWNLINKS .....	2

# CHANGES COMPARED WITH FW APP VERSION 2.0.1 (8275AAF AND 8275CAF)

## 1.1 In general

LoRaWAN: Added network quality test at device startup. Depending on the test result, the device LED lights up in different colors (green, orange, red). See the complete explanation in the User Guide of the product.

## 1.2 Registers

- LoRaWAN: New S312, S313 and S314 registers to customize the timing of attempts for the join procedure.
- LoRaWAN: New S315 and S316 registers to configure daylight saving time management.
- LoRaWAN: New S318 register to activate or deactivate time stamping.
- New S322 register to configure alarm repetition period.
- New S323 register to configure samples redundancy in periodical transmission.

You can find all the related information in the Technical Reference Manual (TRM) of the concerned product.

## 1.3 Uplinks

- Starting frames
  - Sigfox: frame 0x20 now contain additional register S307.
  - A firmware version frame (0x37) is sent at startup (only if KARE+ is enabled).
  - Add in frame 0x10 now contain additional register S323.
- Periodic frames
  - LoRaWAN: Some frames (0x4C and 0x4D) can now contain a timestamp. To enable compatibility with previous version, the timestamp is added at the end of the frame and is indicated in the Status Byte (refers to the TRM).

## 1.4 Downlinks

- New Set Time frame (0x49) used to set the time of the device.
- New Reboot frame (0x48) used to reboot the device.