

RELEASE NOTES FOR MOTION V2 APP FW 2.0.0

CONCERNED PRODUCTS

The following products already contain this FW version:

- ARF8276AAD: MOTION V2 LoRaWAN EU863-870
- ARF8276CAD: MOTION V2 Sigfox RC1

SUMMARY

This version adds some important features:

- Change philosophy of the presence detection that now informs of the occupancy rate of a room.
- New adaptative mechanism when battery is not able to deliver enough power (end of life or product in extremely low temperature conditions)

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CHANGES COMPARED WITH FW APP VERSION 1.5.6 (8276AAC AND 8276CAC)

1.1 In general

New battery management introduces several changes:

- Product may delay the requested uplink if the battery is low in order to guarantee measure robustness.
- If the delay is higher than 1 minute, the flag 'battery low' will be activated in the next frames
- Battery low flag is now automatically cleared when the product considers that battery has a better behavior (battery was changed by the customer or temperature is now not extremely low)
- DEAD mode is no longer present

1.2 Registers

- S322 Sensor inhibition default value is now 10 seconds
- S323/324/325/S331/S392 Day / night registers and presence counting have been deleted

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

1.3 Uplinks

- Periodic frame
 - 0x4E frame is replaced by 0x5C as content has changed
 - Add presence state when the frame is sent
 - Presence given as a percentage of the period (determined by S321*S320)
- Presence alarm frame
 - 0x4F frame is replaced by 0x5D as content has changed
 - Add luminosity rate when the frame is sent
 - Add alarm state:
 - Active (beginning of presence)
 - Inactive (end of presence)

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

1.4 Downlinks

- Set register downlink (0x41) now generates an automatic status uplink 0x33 which determines if the request has been successfully handled or rejected. If rejected, it gives the reason and some details.

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