CAPTIS DEVICE FIRMWARE - RELEASE NOTES

DATE: 15/10/2021

CAPTIS DEVICE FIRMWARE

- **1.19.1**

SUPPORTED PRODUCTS

- Captis Pulse Lite
- Captis Metrum
- Captis Multi
- Captis Power+
- Captis Solar
- Captis Pulse

CELLULAR MODULE

- Telit ME910C1-AU, 30.00.403-P0B.400105
- Telit ME910C1-AU, 30.10.403-P0B.400110
- Telit ME910C1-AU, 30.00.407-P0B.400103
- Telit ME910G1-WW, 37.00.443-P0C.420003 (Added)

ADDED

- Legacy FOTA mechanism triggered from Cumulocity shell command. Supports device FW update on devices running 30.xx.403 based Telit module firmware. **CAP-1257**
- ME910G1-WW Module Support **CAP-1256**

CHANGED

- None

DEPRECATED

- None

REMOVED

- Assisted GPS support is removed for the ME910G1-WW module as the module does not support SUPL **CAP-1269**

FIXED

- Cumulocity operations will get stuck on executing state if they are a certain size **CAP-1265**
- Low voltage lockout erroneously occurs when battery is connected or disconnected **CAP-1266**
- MQTT connack return code not respected **CAP-1267**

SECURITY

- None

DESCRIPTION OF ISSUES FIXED

1. CAP-1265 - CUMULOCITY OPERATIONS STUCK ON EXECUTING STATE

Conditions to trigger: If the length of the MQTT payload that contains the operation is a multiple of 30 bytes.

Behaviour: An operation will stay on executing even after the device has disconnected from the network. The executing stuck state will appear to move from operation to newer operation due to the way Cumulocity tracks operations.

Workarounds Available: Delete and re-bootstrap the device to clear the stuck state.

Affected versions: 1.19.00

2. CAP-1266 – ERRONEOUS LOW VOLTAGE LOCKOUT

Conditions to trigger: Connecting or disconnecting the battery

Behaviour: The module will not boot and the cellular LED will not light up. The status LED will flash 2 long and 2 short to indicate low voltage lockout of the radio module.

Workarounds Available: Reboot the device with a magnet

Affected versions: 1.19.00 * may be dependent on Captis variant. Additional investigation is still in progress.

3. CAP-1267 – MQTT CONNACK NOT RESPECTED

Conditions to trigger: The Captis device will always think it is connected regardless of the connection return code supplied by the MQTT broker.

Behaviour: A login error (i.e. user credentials removed) will not be detected and the device will not initiate bootstrap as a recovery mechanism. This requires the platform to rectify the fault in order for the device to come back online.

Workarounds Available: Don't put the device in a scenario where it can't login.

Affected versions: 1.19.00