

## CAPTIS DEVICE FIRMWARE - RELEASE NOTES

**DATE:** 2020-03-07

### CAPTIS DEVICE FIRMWARE

- 1.20.0

### 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.440001

### SUPPORTED PRODUCTS

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

### ADDED

- Config - 'auth\_type' field added under 'mqtt' for MQTT servers. Options are 'BASIC' for username and password authentication and 'SAS' for Azure SAS tokens **JJ-15**
- Config - 'AZURE' added as an option to 'variant' under 'mqtt' for native Azure format **JJ-15**
- Support for Azure DPS onboarding mechanism **JJ-15**
- Support for connecting to Azure IoT Hub and IoT Central
  - Device health is supported natively via telemetry and device twin properties (Hub and Central) **JJ-43 and JJ-45**
  - Measurements are support natively as telemetry (Hub and Central) **JJ-43**
  - Events are support natively as telemetry (IoT Hub only) **JJ-219**
  - Config supported natively via device twin (Hub and Central) **JJ-45 and JJ-46**
  - Shell commands (supported via cloud to device messages) **JJ-50**
  - FOTA queuing via cloud to device messages **CAP-1288**
- Azure Binary data format for sensor telemetry **JJ-328**
- Software debounce added to tamper switch **CAP-1304**

### CHANGED

- Config schema version now 1.1.0
- Server username maximum character limit now 150 from 100 **JJ-15**
- MQTT client modified to handle Azure traffic **JJ-15 and JJ-43**

### DEPRECATED

- None

## REMOVED

- None

## FIXED

- Modbus process alarm config validation prevented it being configured **CAP-1300**
- Cumulocity required interval set erroneously to 160 min on device creation **CAP-1291**
- FOTA file validation will reject images with a certain length **CAP-1337**

## SECURITY

- None

## DESCRIPTION OF ISSUES FIXED

### 1. CAP-1300 - MODBUS PROCESS ALARM CONFIG VALIDATION PREVENTED IT BEING CONFIGURED

**Conditions to trigger:** Trying to configure a modbus process alarm using the last modbus register defined in device config as the sensor channel

**Behaviour:** The config will be failed by the device

**Workarounds Available:** Reorder your modbus registers such that one that trigger a process alarm are not last. Alternatively, define an extra modbus register that is not used.

**Affected versions:** 1.19.00 and 1.19.1

### 2. CAP-1291 - CUMULOCITY REQUIRED INTERVAL SET ERRONEOUSLY TO 160 MIN ON DEVICE CREATION

**Conditions to trigger:** Bootstrapping a device into Cumulocity

**Behaviour:** The required interval on the info tab will be set to 160 minutes, regardless of what the device send interval is configured to. This will cause the Cumulocity unavailability alarm to trip erroneously.

**Workarounds Available:** Change the required interval after the device has onboarded.

**Affected versions:** 1.19.00 and 1.19.1

### 3. CAP-1337 - FOTA FILE VALIDATION WILL REJECT IMAGES WITH A CERTAIN LENGTH

**Conditions to trigger:** The device downloads a FOTA file of a certain length

**Behaviour:** The FOTA file will be rejected by the validation logic and record event 82-2.

**Workarounds Available:** Get a new FOTA file from Miot

**Affected versions:** 1.19.00 and 1.19.1