

CAPTIS DEVICE FIRMWARE - RELEASE NOTES

DATE: 29 / 06 / 2021

CAPTIS DEVICE FIRMWARE

- **1.19.00**

CELLULAR MODULE

- Telit ME910C1-AU, 30.00.403-POB.400105
- Telit ME910C1-AU, 30.10.403-POB.400110
- Telit ME910C1-AU, 30.00.407-POB.400103

ADDED

- Cumulocity shell command support **CAP-912**
 - Pulse offset calculation shell command based on meter read **CAP-1137**
 - Live mode (2 min operation wait extension) **CAP-1139**
 - Interrogate state of digital inputs, tamper, battery and flash log counts **CAP-1139**
 - Get current signal strength **CAP-1139**
 - Interrogate state of analog input, 1-wire sensors, digital output, serial interface **CAP-1234**
- Support for HTTP downloads of device FOTA, triggered from Cumulocity firmware operation **CAP-1106**
- Module FOTA can be triggered from a Cumulocity software operation. Included in **CAP-1106**
- Servers can be configured to connect every nth connection **CAP-1127**
- MQTT topic name validation for zero length and correct use of wildcards **CAP-1168**
- Bootstrap is now triggered from shell command and can the resulting server roles can be configured ahead of time in the shell command **CAP-1166**
- Low battery voltage lockout of cellular module and 5V powered sensors **CAP-1227**
- Battery voltage monitoring during connection with abort on low voltage **CAP-1227**

CHANGED

- AT command builder and parser rewritten **CAP-1107**
- MNC and MCC now come from the network info from the module instead of being hardcoded **CAP-1038**
- Config changed to load on demand rather than load everything into struct. Included in: **CAP-1067**
- Server URL protocol, hostname and port respected for connection **CAP-1067**
- Config changed from fixed server and credentials types (1x MQTT data and config, 1x MQTT bootstrap etc) to dynamic server list in config with defined server roles. Part of **CAP-1067**
- GPS measurements now get logged in flash as a measurement data point instead of stored in RAM. This allows location to be published if network coverage is not present **CAP-1140**
- Config now handles schema version and will reject inbound config if version is old **CAP-1141**
- Increased the maximum allowed length of URLs, usernames, passwords, and MQTT topics. Max lengths increased from 40 to 100 characters for all string config parameters except for password which can be 200 characters **CAP-1189**
- Tamper behaviour is now a one shot trip. Trip state is reported as a Cumulocity measurement. Trip timestamp saved to flash. **CAP-1213**
- Measurement data published MQTT packet size increased from 1K to 4K,. Fixes inefficient packetisation when named and smartrest datapoints in use concurrently. **CAP-958**

- Very low voltage lockout of all device functionality is now recoverable without intervention upon voltage increasing **CAP-1227**
- Improve device power consumption via efficient battery gauge usage **CAP-1227**
- Improve device power consumption via 1-wire sampling speed improvements **CAP-1230**
- Increased socket timeouts for open, close, send & receive. **CAP-1212**
- Removed application layer MQTT packet retries, handled by TCP/IP. **CAP-1212**

DEPRECATED

- None

REMOVED

- SMS support **CAP-1015**
- Email Support. Included in: **CAP-1067**
- mIoT Backend config server support. Included in: **CAP-1067**
- mIoT Backend FOTA server support. Included in: **CAP-1067**
- Tamper Event reporting. Included in: **CAP-1213**

FIXED

- Events deleted erroneously on a partial publish **CAP-1098**
- Digital output “on log” wouldn’t turn off in certain conditions (same fix as 1.18.05) **CAP-1133**
- Measurement log doesn’t occur on connection anymore if not scheduled **CAP-1145**
- One wire high current draw (same as 1.18.05 fix) **CAP-1158**
- Events storage and retrieval has a chance to stop working permanently on partial publish or event storage full **CAP-1163 CAP-1232**
- NB detach from the network was not closing Jasper session reliably **CAP-1171**
- Current config now sent to the platform after config fallback / restore **CAP-1173**
- Improved back to back SSL socket behaviour **CAP-1188**
- Digital output time of day schedule was never implemented **CAP-1186**
- Measurements sent in the connection after measurement storage circular buffer loops will be resent in the subsequent connection **CAP-1211**
- The entire measurement storage contents can be resent under certain conditions **CAP-1211**
- High frequency sampling (< 1 minute) can be paused during long connections if only one data point is logged **CAP-1215**

SECURITY

- None