

Testcase 01: GetDataAndCheckTime

Requirements

This test should verify that the RuuviTag delivers all acceleration data it has stored. Additionally one should verify that the time between the acceleration datas are set correctly according to the sample frequency

Requirements update

Every 32th data packet has an deviation in the time. The reason is the interrupt which happens after every 32 data blocks. Therefor the test summation of the time must be part of following rule:

$$\frac{31}{\text{samplerate}} \leq t_{\text{sum}} \leq \frac{33}{\text{samplerate}}$$

This is equivalent to a time deviation of $\pm \frac{1}{\text{samplerate}}$

Testcase 2: SetConfigAndCheckConfig

Requirements

This test should verify successful set of valid configuration parameters on the RuuviTag. In the next step this configuration must be called up and verified.

Testcase 3: SetAndCheckAllConfigValues

Requirements

This test is build up on Testcase 2. In addition this test goes through all valid configuration combinations and verify all combinations are working as expected. In future this can also be combined with Testcase 1 to verify all time steps are correct according to the set sample rate in all combinations

Reports

Currently we have no reports outside of personal reports on meetings. In the future it is planned to use git actions, Jenkins or something equivalent