

Clarification Request

References: BTL Specified Tests 5.0, Tests 7.2.2, 9.22.1.X2, 7.3.2.24.4 Log_Interval Test

Background / Proposed Solution:

Not every device allows for a Log_Interval and Interval_Offset resolution of a 100th second. If a device only supports a resolution of 1s it is not clear how a Log_Interval value with 100th seconds is to be handled. If a vendor implements a rounding solution, where the Log_Interval value is rounded to whole seconds, this behaviour fails tests 7.2.2 and 9.22.1.X2 as the written and read values are not the same.

Example: A device supports logging with a granularity of 1s. A WriteProperty request is attempted on the Log_Interval property with the value 2345. As the logging granularity only allows for a frequency of 1s the value is rounded down to 2300 which is reported as the Log_Interval value on a ReadProperty request.

Rounding down to 0 during a WriteProperty request is denied with an Out_Of_Range error.

The BTL-WG in BTL-CRR-0124_Log_Interval_one_value.doc has already responded: "The Log_Interval must accept writes with a range of allowable values. The BTL-WG does not specify a certain value range, but there is impairment of interoperable to accept just a single value such as 360000. A proposal will be made to the SSPC to clarify a lower bound, or the subset of the Unsigned range, which must be accepted."

7.3.2.24.4 Log_Interval Test, the only test in the Test Plan which expresses an expected behaviour after writing Log_Interval, in its Test Configuration, states: "Non-zero values shall be chosen for Log_Interval in accordance with the range and resolution specified by the manufacturer for this property."

Question:

Is this behaviour acceptable? If not, what behaviour is expected for a Log_Interval and Interval_Offset during a write in a device with a time resolution less granular than the value written, upon writing the described properties?

Response:

The standard is insufficiently specific about values which are appropriately "in range" but have too much resolution or precision. An interpretation request will be sent to the SSPC. Until we have a decision, testers shall not use values of a resolution not supported by the IUT when testing this property.