

Clarification Request

References: Specified Tests 23.0_final, 7.3.1.9 – Elapsed Active Time Test

Date of BTL-WG Response: 2023-06-22

Background:

In the Specified Tests document found in TP 23.0_final, test 7.3.1.9 – Elapsed Active Time Test verifies that an object's elapsed_active_time property correctly accumulates the number of seconds an object has been in the ACTIVE state.

In test step #14 a calculation is performed to verify that the delta between totalElapsedTime and initialElapsedTime is roughly equal to the delta between currentTime and initialTime. The following formula is provided:

$$\text{totalElapsedTime} \sim ((\text{currentTime} - \text{initialTime}) - \text{initialElapsedTime})$$

For example:

- The point begins in the INACTIVE state
- initialElapsedTime is recorded as 5603 seconds
- The point is set to ACTIVE
- initialTime is recorded as 6:23:23 AM
- The point is set to INACTIVE
- currentTime is recorded as 6:23:59 AM
- totalElapsedTime is recorded as 5639 seconds
- When using the formula in step #14, this results in:
5639 seconds \sim (36 seconds – 5603 seconds)
When then results in:
5639 seconds \sim -5567 seconds

Problem:

I believe that the formula in test step #14 should be updated so that initialElapsedTime is added to the delta between currentTime and initialTime instead of subtracted.

Question:

Is this interpretation correct?

Response:

Yes.