

Clarification Request

References: BTL Specified Test 7.3.2.24.X7

Date of BTL-WG Response: April 4, 2013

Background:

7.3.2.24.X7 Trigger Verification Test

Reason for Change: This test has been included in 135.1-2009i-14, but is here with a correction to the typo in Record_Count, and with the steps renumbered to be consecutive..

Dependencies: ReadRange Service Execution, 9.21;

BACnet Reference Clause: 12.25.27, 12.30.12

Purpose: To verify logged samples are based on the triggered Logging_Type.

Test Concept: The log is configured to log based on TRIGGERED. Logging is enabled. After a period of time the buffer is checked to verify the data in the buffer is based on triggered values.

Configuration Requirements: The IUT shall be configured such that the monitored object's Logging_Type is set to TRIGGERED.

Test Steps:

1. WRITE Enable = FALSE
2. WRITE Record_Count = 0
3. WRITE Enable = TRUE
4. WAIT (10 seconds)
5. WRITE Trigger = TRUE
6. WAIT (20 seconds)
7. WRITE Trigger = TRUE
8. WAIT (40 seconds)
9. WRITE Trigger = TRUE
10. WAIT (30 seconds)
11. WRITE Enable = FALSE
12. READ N = Record_Count
13. REPEAT X = (1 through 4)
 - TRANSMIT ReadRange
 - 'Object Identifier' = O₁,
 - 'Property Identifier' = Log_Buffer,
 - 'Reference Index' = N-4+X,
 - 'Count' = 1
 - RECEIVE ReadRangeAck
 - 'Object Identifier' = O₁,
 - 'Property Identifier' = Log_Buffer,
 - 'Result Flags' = (False, False, False),
 - 'Item Count' = 1
 - 'Item Data' = ((one data record storing the timestamp in TS[X]))
14. CHECK(TS[2] - TS[1] ≈ 20 seconds)
15. CHECK(TS[3] - TS[2] ≈ 40 seconds)
16. CHECK(TS[4] - TS[3] ≈ 30 seconds)

Note: this test has been revised (in ways that are not relevant to this clarification) by wID0314 as follows:

Test Steps:

1. WRITE Enable = FALSE
 2. WRITE Record_Count = 0
 3. WRITE Enable = TRUE
 4. WAIT (10 seconds)
 5. WRITE Trigger = TRUE
 6. WAIT (20 seconds)
 7. WRITE Trigger = TRUE
 8. WAIT (40 seconds)
 9. WRITE Trigger = TRUE
 10. WAIT (30 seconds)
 11. WRITE Enable = FALSE
 12. READ N = Record_Count
 13. REPEAT X = (1 through 43)

TRANSMIT ReadRange-Request 'Object Identifier' = 'Property Identifier' = 'Reference Index' = 'Count' =	O ₁ , Log_Buffer, N-4+X, 1
RECEIVE ReadRange-ACKek 'Object Identifier' = 'Property Identifier' = 'Result Flags' = 'Item Count' = 'Item Data' =	O ₁ , Log_Buffer, (False, False, False), 1, (one data record storing the timestamp in
- TS[X]),
14. TRANSMIT ReadRange-Request

'Object Identifier' = 'Property Identifier' = 'Reference Index' = 'Count' =	O ₁ , Log_Buffer, N, 1
RECEIVE ReadRange-ACKek 'Object Identifier' = 'Property Identifier' = 'Result Flags' = 'Item Count' = 'Item Data' =	O ₁ , Log_Buffer, (False, True, False), 1, (one data record storing the timestamp in TS[4])
 145. CHECK(TS[2] - TS[1] ≈ 20 seconds)
 156. CHECK(TS[3] - TS[2] ≈ 40 seconds)
 147. CHECK(TS[4] - TS[3] ≈ 30 seconds)

Notes to tester: The ReadRange requests will use by PositionSequenceNumber.

Question:

Should there be a "WAIT Internal Processing Fail Time" after step 11 before step 12?

Response:

"No. The READ definition contains the WAIT Internal Processing Fail Time."