

Clarification Request

References: BTL Test Plan 9.0.final, test 7.3.2.24.X7

Date of BTL-WG Response: May 22, 2012

Background:

BTL Specified test 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..

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' =	O ₁ ,
'Property Identifier' =	Log_Buffer,
'Reference Index' =	N-4+X,
'Count' =	1
RECEIVE ReadRangeAck	
'Object Identifier' =	O ₁ ,
'Property Identifier' =	Log_Buffer,
'Result Flags' =	(False, False, False),

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        '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 )

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Problem:

The test reads the last records in the log buffer and expects all resultflags to be false.
In the last record, lastItem needs to be True!

Additional Minor points:

- the test fails to mention that ReadRange “BySequence” should be performed.
- test/testplan should mention that the test requires the logging object to support a buffersize of at least 4.
- The name “O1” of the logging object should be introduced somehow in the test description.

Question:

How should the test be modified?

Response:

The Test Concept will be changed to:

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, **O₁** 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 43)

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. TRANSMIT ReadRange

'Object Identifier' = O₁,
 'Property Identifier' = Log_Buffer,
 'Reference Index' = 6,
 'Count' = 1

RECEIVE ReadRangeAck

'Object Identifier' = O₁,
 'Property Identifier' = Log_Buffer,
 'Result Flags' = (False, ~~False~~True, False),
 'Item Count' = 1
 'Item Data' = ((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)

167. CHECK(TS[4] - TS[3] ~= 30 seconds)

Notes to tester: The ReadRange requests will use bySequenceNumber.