

Clarification Request

References: 135.1-2009i-14 - 9.21.1.3

Date of BTL-WG Response: January 10, 2013

Background:

Test 9.21.1.3 purpose states that it verifies that the IUT correctly responds to a ReadRange service request to return items specified by indicating a position and the number of items before that position to return. The combination 'Reference Index' 1 and 'Count' -1 which is valid should be considered testable within that purpose.

From 135.1-2009i-14

9.21.1.3 Reading Items by Position with Negative Count

Purpose: To verify that the IUT correctly responds to a ReadRange service request to return items specified by indicating a position and the number of items before that position to return.

Test Concept: A ReadRange request is transmitted by the TD requesting a range of items known to be in the Log_Buffer. This range is specified using the 'By Position' option and a negative value for 'Count'. The 'Reference Index' and 'Count' are selected so that the results can be conveyed in a single acknowledgement.

Test Steps:

1. TRANSMIT ReadRange-Request,

'Object Identifier'	= (the Trend Log /log object configured for this test),
'Property Identifier'	= Log_Buffer,
'Reference Index'	= (any value x : $2 \leq x \leq$ the number of trend records in the buffer),
'Count'	= (any value y : $y < 0$ AND $ y \leq x$)
2. RECEIVE ReadRange-ACK,

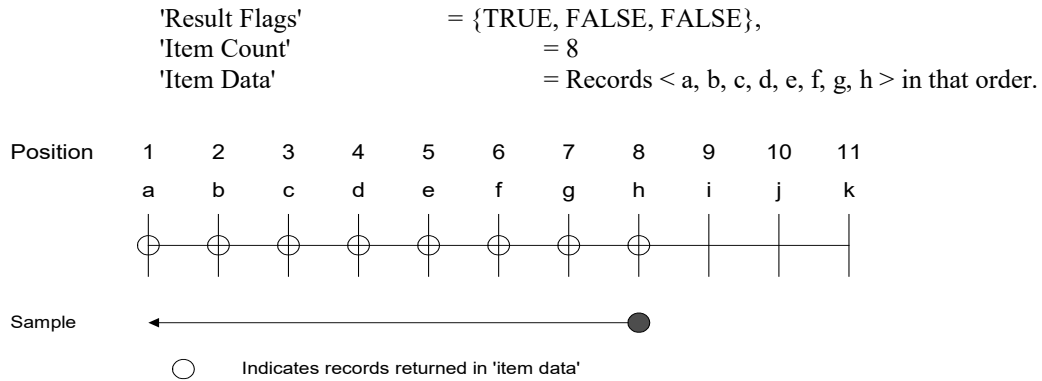
'Object Identifier'	= (the Trend Log /log object configured for this test),
'Property Identifier'	= Log_Buffer,
'Result Flags'	= {FALSE, ?, FALSE},
'Item Count'	= $ y $,
'Item Data'	= (all of the specified trend records in order of increasing position. The items specified include the item at the index specified by x , plus $ y -1$ items preceding.)

Test Example (using the sample buffer at beginning of section):

1. TRANSMIT ReadRange-Request,

'Object Identifier'	= (Trend Log, Instance 1),
'Property Identifier'	= Log_Buffer,
'Reference Index'	= 8,
'Count'	= -8
2. RECEIVE ReadRange-ACK,

'Object Identifier'	= (Trend Log, Instance 1),
'Property Identifier'	= Log_Buffer,

**Question:**

Should the 2 in Step 1 be instead a 1, so that the combination 'Reference Index' 1 and 'Count' -1 which is valid, should be considered testable?

Response:

Yes. Also the Test Directives will be changed, to ensure that particularly likely errors are caught, to ensure that the result does not always start from the first record, and that if multiple records are in the result then they are in the required proper order.