

Clarification Request

References: BTL Specified Tests-15.0.final test 9.21.1.X1

Date of BTL-WG Response: 15- March-2018

☒ All Actions Necessitated have been Completed

Background:

9.21.1.X1 uses By Position form of Read Range service to verify all list properties of all objects. The existing test steps does not cover the scenario, wherein the list property is empty.

9.21.1.X1 ReadRange Support for All List Properties

Reason for change: Need a ReadRange test for non-Log_Buffer list properties.

Purpose: To verify that all list properties of all objects can be read using the 3 by position forms of the ReadRange service.

Test Steps:

1. REPEAT X = (all objects in the IUT's database) DO {
 - REPEAT Y = (all list properties in object X) DO {
 - TRANSMIT ReadRange-Request
 - 'Object Identifier' = X,
 - 'Property Identifier' = Y,
 - RECEIVE ReadRange-ACK
 - 'Object Identifier' = X,
 - 'Property Identifier' = Y,
 - 'Result Flags' = (? , ? , ?),
 - 'Item Count' = (C: up to number of items in Y)
 - 'Item Data' = (the first C elements of Y)
 - TRANSMIT ReadRange-Request
 - 'Object Identifier' = X,
 - 'Property Identifier' = Y,
 - 'Reference Index' = 1,
 - 'Count' = (C: any valid positive value)
 - RECEIVE ReadRange-ACK
 - 'Object Identifier' = X,
 - 'Property Identifier' = Y,
 - 'Result Flags' = (TRUE, ? , ?),
 - 'Item Count' = (C2: up to C)
 - 'Item Data' = (the first C2 elements of Y)
 - TRANSMIT ReadRange-Request
 - 'Object Identifier' = X,
 - 'Property Identifier' = Y,
 - 'Reference Index' = (the number of elements in Y),
 - 'Count' = (C: any valid negative value)
 - RECEIVE ReadRange-ACK
 - 'Object Identifier' = X,
 - 'Property Identifier' = Y,
 - 'Result Flags' = (? , TRUE , ?),
 - 'Item Count' = (C2: up to abs(C))

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        'Item Data' = (the last C2 elements of Y)
    }
}
```

Problem:

If we Transmit Read Range service, to read the empty list properties, the Item Count will be 0 and Item Data will be empty. We understand that Result Flags in the response should be (FALSE, FALSE, FALSE), as no data is present in the list.

Questions:

1. Is our understanding correct?
2. Do we need to have a separate testcase to check the above-mentioned scenario?

Response:

- 1) Yes
- 2) Yes. We need to consider the case for empty lists and modify the test accordingly.