

Clarification Request

References: BTL Test Plan 5.0, BTL Specified Tests, 135.1-2007

Date of BTL-WG Response: __04-Aug-2011__

Background / Proposed Solution:

A device in the lab uses 4194303 as the property identifier in the Manipulated_Variable_Reference and/or Controlled_Property_Reference as indicator when that is uninitialized, and they don't associate it with any actual property.

7.3.2.17.1 Manipulated_Variable_Reference Tracking

Dependencies: ReadProperty Service Execution Tests, 9.18.

BACnet Reference Clause: 12.17.12.

Purpose: To verify that the property referenced by Manipulated_Variable_Reference tracks the Present_Value of the Loop object.

Configuration Requirements: The IUT shall be configured so that the control output of the Loop object being tested remains constant for the duration of the test. If this is not possible then this test shall be omitted.

Test Steps:

1. TRANSMIT ReadProperty-Request,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Manipulated_Variable_Reference
2. RECEIVE BACnet-ComplexACK-PDU,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Manipulated_Variable_Reference,
 'Property Value' = (any valid object property reference)
3. TRANSMIT ReadProperty-Request,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Priority_For_Writing
4. RECEIVE BACnet-ComplexACK-PDU,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Priority_For_Writing,
 'Property Value' = (any priority from 1 to 16)
5. TRANSMIT ReadProperty-Request,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Present_Value
6. RECEIVE BACnet-ComplexACK-PDU,

- 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Present_Value,
 'Property Value' = (any valid value)
7. IF (the manipulated variable reference is commandable) THEN
 VERIFY (the manipulated variable reference object),
 (the referenced property) = (the Present_Value from step 6),
 ARRAY INDEX = (the Priority_For_Writing from step 4)
 ELSE
 VERIFY (the manipulated variable reference object),
 (the referenced property) = (the Present_Value from step 6)

7.3.2.17.2 Controlled_Variable_Reference Tracking

Dependencies: ReadProperty Service Execution Tests, 9.18.

BACnet Reference Clause: 12.17.13.

Purpose: To verify that Controlled_Variable_Value tracks the property referenced by Controlled_Variable_Reference.

Configuration Requirements: The IUT shall be configured so that the controlled variable value of the Loop object being tested remains constant for the duration of the test. If this is not possible then this test shall be omitted.

Test Steps:

1. TRANSMIT ReadProperty-Request,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Controlled_Variable_Reference
2. RECEIVE BACnet-ComplexACK-PDU,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Controlled_Variable_Reference,
 'Property Value' = (any valid object property reference)
3. TRANSMIT ReadProperty-Request,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Controlled_Variable_Value
4. RECEIVE BACnet-ComplexACK-PDU,
 'Object Identifier' = (the Loop object being tested),
 'Property Identifier' = Controlled_Variable_Value,
 'Property Value' = (any valid value)
5. VERIFY (the controlled variable reference object),
 (the referenced property) = (the Controlled_Variable_Value from step 4)

Question:

Should test be considered Failed if the IUT uses 4194303 as the property identifier in the Manipulated_Variable_Reference and/or Controlled_Property_Reference?

Response:

No the test is not Failed. The object is merely not yet properly configured to execute the test. Note that 4194303 is only special, indicating UNINITIALIZED, in a BACnetObjectIdentifier. 4194303 in a property identifier is just part of the proprietary range.