

Clarification Request

Request from: BTL Manager <btl-manager@bacnetinternational.org>

References: BTL Specified Tests 8.22.X2 and 8.22.X3

Stage: ☒Request, ☐Listed, ☐Analysis, ☒Resolved

Actions necessitated: ☐Checklist/Test Plan change, ☒BTL Specified Tests change,
Section _____, Test number: 8.22.X2, 8.22.X3
☐SSPC Interpretation required, ☐Implementation Guidelines change,

Date of BTL-WG Response: __January 6, 2012__
☐All actions necessitated have been completed

Background / Proposed Solution:

Section 4.13.1 of Revision 9.0 of the BTL Test Plan specifies BTL-8.22.X2 and BTL-8.22.X3 but these tests do not exist in Specified Tests document.

8.22.X2 Accepting Input and Modifying Properties

Reason for Change: This test exists in 135.1-2009*g* and is modified in 135.1-2009*i*. It is included here solely to show all changes in one place.

Purpose: This test case verifies that the IUT is capable of accepting user input and using it to modify properties. It is a generic test used to test data input requirements.

This test is written so as to allow the TD to monitor a conversation between the IUT and a reference server. The reference server may be the TD, or some other device.

Configuration: For this test, the tester shall choose a property, P_1 , from an object, O_1 , in a device, D_1 , that does not support execution of WritePropertyMultiple.

Test Steps:

1. MAKE (the IUT accept a new value for P_1 from the user)
2. RECEIVE WriteProperty-Request,

SOURCE =	IUT,
DESTINATION =	D_1 ,
'Object Identifier' =	O_1 ,
'Property Identifier' =	P_1
'Property Value' =	(the value provided to the IUT for P_1)
3. RECEIVE BACnet-SimpleACK-PDU,

SOURCE =	D_1 ,
DESTINATION =	IUT,

Notes to Tester: The value accepted by the IUT may differ from the value transmitted on the wire due to rounding, truncation, formatting, language conversion etc.

Notes to Tester: If the property being modified is an array element, the IUT may include an Array Index parameter in the WriteProperty-Request in step 2. Under these circumstances this is acceptable and shall not be considered a failure condition.

Notes to Tester: If the IUT has not already determined that D_1 does not support execution of WritePropertyMultiple, the IUT may initiate a WritePropertyMultiple. If this occurs, the IUT shall only pass the test if it automatically falls back to using WriteProperty upon receipt of the correct BACnetError-PDU from D_1 indicating that WritePropertyMultiple is not supported.

~~Notes to Tester: The IUT is allowed to include a Priority parameter with a value in the range 1..16.~~

Note to Tester: Any WriteProperty request generated by the IUT may have a Priority parameter. If included, it shall be in the range 1-16, excluding 6.

8.22.X3 Accepting Input and Commanding/Relinquishing Properties

Reason for Change: This test exists in 135.1-2009g and is modified in 135.1-2009i. It is included here solely to show all changes in one place.

Purpose: This test case verifies that the IUT is capable of accepting user input and using it to modify a commandable property at a specific priority. It also tests that the IUT is capable of relinquishing at that same priority.

This test is written so as to allow the TD to monitor a conversation between the IUT and a reference server. The reference server may be the TD, or some other device.

Configuration: For this test, the tester shall choose a commandable property, P_1 , from an object, O_1 , in a device, D_1 , that does not support execution of WritePropertyMultiple. PR_1 is the specific priority that will be tested.

Test Steps:

1. MAKE (the IUT accept a new value for P_1 from the user, to be commanded at priority PR_1)
2. RECEIVE WriteProperty-Request,

SOURCE =	IUT,
DESTINATION =	D_1 ,
'Object Identifier' =	(O_1) ,
'Property Identifier' =	(P_1)
'Priority' =	(PR_1)
'Property Value' =	(the value provided to the IUT for P_1)
3. RECEIVE BACnet-SimpleACK-PDU,

SOURCE =	D_1 ,
DESTINATION =	IUT
4. MAKE (the IUT relinquish P_1 at priority PR_1)
5. RECEIVE WriteProperty-Request,

SOURCE =	IUT,
DESTINATION =	D_1 ,
'Object Identifier' =	(O_1) ,
'Property Identifier' =	(P_1)
'Priority' =	(PR_1)
'Property Value' =	NULL
6. RECEIVE BACnet-SimpleACK-PDU,

SOURCE =	D_1 ,
DESTINATION =	IUT

Notes to Tester: The value accepted by the IUT may differ from the value transmitted on the wire due to rounding, truncation, formatting, language conversion etc.

Notes to Tester: If the IUT has not already determined that D_1 does not support execution of WritePropertyMultiple, the IUT may initiate a WritePropertyMultiple. If this occurs, the IUT shall only pass the test if it automatically falls back to using WriteProperty upon receipt of the correct BACnetError-PDU from D_1 indicating that WritePropertyMultiple is not supported.

Note to Tester: Any WriteProperty request generated by the IUT may have a Priority parameter. If included, it shall be in the range 1-16, excluding 6.

Question:

Should the above tests be added?

Response:

Yes.