

Clarification Request

Request from: "Horst Hannappel" <Horst.Hannappel@mbs-software.de>

References: BTL Test Plan 9.0.final

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

Actions necessitated: ☐Checklist/Test Plan change, ☒BTL Specified Tests change,
☐SSPC Interpretation required, ☐Implementation Guidelines change,

Date of BTL-WG Response: _____
☐All actions necessitated have been completed

Question:

A question has come up regarding correct behaviour of the Action property of the Command object when doing write tests. Take for example test 7.2.2:

it will do something like

"write property" some test value to the action property
"read property" on action
compare the value written in the WP with the value read by the RP request.

Action property is composed of elements of datatype BACnetActionCommand. The problem is, that the contents of the BACnetActionCommand is a mixture of a big part that can be considered "configuration" and one flag "Write_Successful" that has a "transient" (correct technical term?) character.

So I have a couple of questions:

- Is the "Write_Successful" flag supposed to be True or False in the WP requests?

- What is the value of "Write_Successful" supposed to be in the IUT after the WP?
o the value from the WP
o True
o False
o local matter
(obviously the command has not yet been executed in this situation)

- Does the test specification properly take the action property into account?

Same question applies to Test Plan 9.0.final

Background:

From BTL Specified Tests-9.0.final.doc:

7.2.2 Write Support Test Procedure

Reason for Change: This test did not account for restrictions placed on properties by the vendor. This is not in any new SSPC proposals.

Purpose: To verify that all writable properties of all objects can be written to using BACnet WriteProperty and WritePropertyMultiple services. The test is performed once using WriteProperty and once using WritePropertyMultiple. When writing to array properties, the whole array shall be written without using an array index, where possible.

Dependencies: ReadProperty Service Execution Tests, 9.18; WriteProperty Service Execution Tests, 9.22.

Test Steps:

```

1. REPEAT X = (all objects in the IUT's database) DO {
    REPEAT Y = (all writable properties in object X) DO {
        REPEAT Z = (all values meeting the functional range requirements of 7.2.1, and any additional
                    restrictions placed on the allowable property values by the vendor using an English
                    language description for their allowed values for any property. Or by the object or property
                    definition) DO {
            WRITE (X), Y = Z,
            VERIFY (X), Y = Z
        }
    }
}

```

Response:

The value of the Write_Successful component of the Action property during a write is not defined in the standard. The default value of the Write_Successful component before an action occurs is also not defined in the standard.

The value selected by the tester may be either true or false in the Write_Successful component of the Action property, except as restricted by the allowable property values noted by the vendor.

After writing to the Action property and before the action occurs, the value of Write_Successful is a local matter.

The Action property is another of the difficult properties for this test and will be added to the list for special considerations recognized in CR-0097.