Clarification Request

References: "e.g" BTL Test Plan-23.0, 135.1-2019, 135-2020 Clause K.

Date of BTL-WG Response: 2023-06-22

Background: "e.g" 135.1-2019 8.22.4 – Accepting Input and Modifying Properties

There is an inconsistency between the test and test directives for Test 135.1-2019 – 8-22.4 for devices claiming the DS-AM-A BIBB and what is defined for the DS-AM-A BIBB as required by the standard.

Test 8.22.4 relies on the WriteProperty service for modifying properties and the test directives only allow the tester to exclude properties that are required to be read-only by the standard. The DS-AM-A BIBB definition, however, also allows an exclusion for properties for "which access is otherwise restricted by the standard".

Per the BTL Test Plan:

4.14 Data Sharing - Advanced Modify - A

4.14.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

135.1-2019 - 8.22.4 - Accepting Input and Modifying Properties	
Test Conditionality	Must be executed.
Test Directives	Repeat the test for all standard objects and properties, excluding the Life Safety and Access Control objects, and the Object_Identifier and Object_Type properties. Also exclude any properties that are required to be read-only by the BACnet standard, and exclude properties which are commandable because those are covered by a different test. Repeat the test for a variety of values that cover the range of values required by the "Minimum Writable Value Ranges" table in the DS-M-A BIBB definition.
Testing Hints	

Per the DS-AM-A BIBB definition from the standard:

> **K.1.18 BIBB - Data Sharing-Advanced Modify-A (DS-AM-A)**
>
> The A device is able to use WriteProperty to modify any standard property of any standard object type excluding the Life Safety, Access Control, and Elevator objects (e.g., Life Safety Point, Life Safety Zone, Access Door, Lift) where the property is not required to be read-only, ==or to which access is otherwise restricted by the standard== (e.g., Log_Buffer). Devices shall be capable of commanding and relinquishing standard commandable properties at any priority. Device A may use alternate services where support for execution of the alternate service is supported by Device B.
>
> | BACnet Service | Initiate | Execute |
> |---|---|---|
> | WriteProperty | x | |
>
> Devices claiming support for this BIBB shall be capable of writing values within the full range as defined in Table K-6.
>
> The A device shall be capable of writing all standard forms of the datatypes as defined per the A device's claimed Protocol_Revision.
>
> Devices claiming conformance to this BIBB are not required to support presentation and modification of objects and properties that are introduced in a Protocol_Revision newer than that claimed by the A device.
>
> A device claiming support for DS-AM-A is interoperable with devices that support DS-WP-B and support one or more of the objects listed in Table K-1.

Problem:

There are some properties that fall into this category of "otherwise restricted by the standard" that are not identified as read-only in the property definition. As a result, there is an expectation that a device claiming DS-AM-A BIBB will be able to use the WriteProperty service to modify those properties even when that is not required by the BIBB and could have unexpected results if successful.

In addition to the Log_Buffer property (which is perhaps an obvious exclusion), the following properties have clear direction of how they are to be modified:
Active_COV_Subscriptions (See clause 12.11.39)
Active_COV_Multiple_Subscriptions (See clause 12.11.65)
Active_VT_Sessions (See clause 12.11.22)

Question:

1) **Is a device claiming DS-AM-A BIBB required to support writing to the three properties mentioned above?**

Response:

1) **No. The test directives will be reviewed and changed to better align with the BIBB definition.**