

Clarification Request

Reference: "BTL Test Plan 3.0.final", "ASHRAE 135.1"

Background:

According to the BTL Test Plan document the following tests are required if a vendor selects the 'Supports COV for Binary Value Objects' option.

Test 135.1 – 8.2.3 Change of Value Notification from a Binary Input, Binary Output, and Binary Value Object Present_Value Property.

or

Test 135.1 – 8.3.3 Change of Value Notification from a Binary Input, Binary Output, and Binary Value Object Present_Value Property.

Test 135.1 – 8.2.4 Change of Value Notification from a Binary Input, Binary Output, and Binary Value Object Status_Flags Property.

or

Test 135.1 – 8.3.4 Change of Value Notification from a Binary Input, Binary Output, and Binary Value Object Status_Flags Property.

* Section 8.2 covers the Confirmed Notifications and Section 8.3 covers the Unconfirmed Notifications.

The difference between the 8.x.3 tests and the 8.x.4 tests is that the first set verifies the COV notification is sent if the Present_Value property is changed to a value to cause an alarm. The second set verifies that if the Status_Flags property changes the COV notification is sent.

Status_Flags consist of the following bits: InAlarm, Fault, Overridden, Out-Of-Service.

Below are the details of the 8.x.4 test setup:

8.2.4 Change of Value Notification from a Binary Input, Binary Output, and Binary Value Object Present_Value Property

Purpose: To verify that the IUT can initiate ConfirmedCOVNotification service requests conveying a change of the Present_Value property of Binary Input, Binary Output, and Binary Value objects.

Test Concept: A subscription for COV notifications is established. The Present_Value of the monitored object is changed and a notification shall be received. The Present_Value may be changed using the WriteProperty service or by another means such as changing the input signal represented by a Binary Input object. For some implementations it may be necessary to write to the Out_Of_Service property first to accomplish this task. For implementations where it is not possible to write to these properties at all the vendor shall provide an alternative trigger mechanism to accomplish this task. All of these methods are equally acceptable.

Configuration Requirements: At the beginning of the test, the Out_Of_Service property shall have a value of FALSE.

Question:

If the vendor indicates that the only way to change the Status_Flags property is via changes to the Present_Value property, may the 8.x.4 tests be skipped?

In other words, the vendor has stated the Out_Of_Service property is not writable, and the Overridden and Fault bits are never used.

Response:

Yes.