

Clarification Request

Request from: BTL Manager (btl-manager@bacnetinternational.org)

Reference: "ASHRAE 135.1-2003"

Background:

In the following test, there seems to be an error in the step that the test concept refers to. Please see the suggested change made below.

7.3.1.1 Out_Of_Service, Status_Flags, and Reliability Tests

Dependencies: ReadProperty Service Execution Tests, 9.15; WriteProperty Service Execution Tests, 9.19.

BACnet Reference Clauses: 12.1.7, 12.1.9, 12.1.10, 12.2.7, 12.2.9, 12.2.10, 12.3.6, 12.3.8, 12.3.9, 12.5.7, 12.5.9, 12.5.10, 12.6.7, 12.6.9, 12.6.10, 12.7.6, 12.7.8, 12.7.9, 12.14.11, 12.15.11, 12.16.6, 12.16.8, 12.16.9, 12.17.7, 12.17.9, 12.17.10, 12.18.7, 12.18.9, 12.18.10, 12.19.6, 12.19.8, and 12.19.9.

Purpose: This test case verifies that Present_Value is writable when Out_Of_Service is TRUE. It also verifies the interrelationship between the Out_Of_Service, Status_Flags, and Reliability properties. If the PICS indicates that the Out_Of_Service property of the object under test is not writable, and if the value of the property cannot be changed by other means, then this test shall be omitted. This test applies to Analog Input, Analog Output, Analog Value, Binary Input, Binary Output, Binary Value, Life Safety Point, Life Safety Zone, Multi-state Input, Multi-state Output, Multi-state Value, and Loop objects.

Test Concept: The IUT will select one instance of each appropriate object type and test it as described. If the Reliability property is not supported then ~~step 4~~ step 6 shall be omitted.

Test Steps:

1. IF (Out_Of_Service is writable) THEN
 WRITE Out_Of_Service = TRUE
 ELSE
 MAKE (Out_Of_Service TRUE)
2. VERIFY Out_Of_Service = TRUE
3. VERIFY Status_Flags = (?, FALSE, ?, TRUE)
4. REPEAT X = (all values meeting the functional range requirements of 7.2.1) DO {
 WRITE Present_Value = X
 VERIFY Present_Value = X
 }
5. WRITE Present_Value = (any value that corresponds to an Event_State of NORMAL)
6. IF (Reliability is writable) THEN
 REPEAT X = (all values of the Reliability enumeration appropriate to the object type except NO_FAULT_DETECTED) DO {
 WRITE Reliability = X
 VERIFY Reliability = X
 VERIFY Status_Flags = (?, TRUE, ?, TRUE)
 WRITE Reliability = NO_FAULT_DETECTED
 VERIFY Reliability = NO_FAULT_DETECTED
 VERIFY Status_Flags = (?, FALSE, ?, TRUE)
 }
7. IF (Out_Of_Service is writable) THEN
 WRITE Out_Of_Service = FALSE
 ELSE

MAKE (Out_Of_Service FALSE)

Notes to Tester: If the object being tested is commandable and there is an internal process writing to the Present_Value property each WriteProperty request shall contain a priority sufficient to override the internal process. After step 4 the priority array slot shall be relinquished.

Question:

Is the correction made in the Test Concept correct?

Response:

Yes.