

Clarification Request

References: BTL Specified Tests 7.3.2.23.X.1

Date of BTL-WG Response: __04-Aug-2011__

Background / Proposed Solution:

An IUT in the lab updates Present_Value when outside Effective_Period, but does not modify the controlled properties.

7.3.2.23.X.1 Revision 4 Effective_Period Test

Reason for Change: No tests existed for revision 4 functionality. The change is in SED-005.

Dependencies: ReadProperty Service Execution Tests, 9.18; TimeSynchronization Service Execution Tests, 9.30.

BACnet Reference Clause: 12.24.6.

Purpose: To verify that Effective_Period controls the range of dates during which the Schedule object is active.

Test Concept: Two Date values are chosen by the TD based on the criteria in Table 7-1 such that one is outside of the Effective_Period and the other corresponds to a known scheduled state inside the Effective_Period. The IUT's local date and time are changed between these dates and a property referenced by the List_Of_Object_Property_References property is monitored to verify that write operations occur only within the Effective_Period.

Configuration Requirements: The IUT shall be configured with a schedule object such that the time periods defined in Table 7-1 have uniquely scheduled values. The local date and time shall be set such that the Present_Value property has a value other than V₁. The List_Of_Object_Property_References property shall contain at least one reference either to a property within the IUT alterable by the Schedule object or a writable property in another device (in either case: the "referenced property"); if the List_Of_Object_Property_References property cannot be thus configured this test shall be skipped.

Table 7-1. Criteria for Effective_Period Test Dates and Values

Date :	Criteria:	Value:
D ₁	1. Date occurs during Effective_Period, and 2. Date appears either in Weekly_Schedule or Exception_Schedule.	V ₁
D ₂	1. Date does not occur during Effective_Period, and 2. Date appears either in Weekly_Schedule or Exception_Schedule.	V ₂ different from V ₁ .

Test Steps:

1. VERIFY "referenced property" = (any value other than V₁)
2. (TRANSMIT TimeSynchronization-Request, 'Time' = D₁)
 | (TRANSMIT UTCTimeSynchronization-Request, 'Time' = D₁ converted to UTC)
 | MAKE (the local date and time = D₁)
3. **WAIT Schedule Evaluation Fail Time**
4. VERIFY "referenced property" = V₁
5. (TRANSMIT TimeSynchronization-Request, 'Time' = D₂)
 | (TRANSMIT UTCTimeSynchronization-Request, 'Time' = D₂ converted to UTC)
 | MAKE (the local date and time = D₂)
6. **WAIT Schedule Evaluation Fail Time**
7. VERIFY "referenced property" = V₁

Question:

Should test be considered Failed if the IUT puts Schedule_Default into Present_Value at step 7, if it doesn't change V₁?

Response:

Yes, the test shall be considered Failed if the IUT puts Schedule_Default into Present_Value at step 7. The test will be updated to include a Step 8. VERIFY Present_Value = V₁, indicating that.