

Clarification Request

Request from: Buddy Lott (blott@kmccontrols.com), BTL Manager (btl-manager@bacnetinternational.org)

Reference: "BTL Specified Tests 3.0.final.doc"

Background:

BTL Specified Test 7.3.2.22.X2.3.12 Revision 4 Lower Event Priority Change Test

The text of the Configuration Requirements does not seem to match Table 7-12 and the test steps.

Suggested Solution:

7.3.2.22.X2.3.12 Revision 4 Lower Event Priority Change Test

Reason for Change: No tests existed for revision 4 functionality. This test is not in any SSPC proposal.

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

BACnet Reference Clause: 12.24.8.

Purpose: To verify that when a BACnetSpecialEvent of a higher priority takes precedence over one of lower priority, that a change in the lower priority level is not observed in Present_Value until control is relinquished to it.

Configuration Requirements: A Schedule object is configured with two BACnetSpecial Events, thus: the first event is at lower priority than the second and contains two time-value pairs: the first, D_1 , has a non-NULL value V_1 and the second, D_3D_4 , has a different non-NULL value V_3V_4 . The second event contains three time-value pairs: the first, D_2 , occurs after D_1 and before D_3 , and has a non-NULL value V_2 different from the value associated with D_1 ; the second, D_4D_3 , occurs after D_3D_2 and has a non-NULL value V_4V_3 different from the value associated with D_3D_2 ; the third, D_5 occurs after D_4 and has a NULL value. (This arrangement of events facilitates testing Schedule objects that schedule only BOOLEAN or two-state enumerations.) Table 7-12 illustrates the time and value pairs in this test.

Table 7-12. Event and value prioritization test times and value

	Time:				
Event Priority:	D_1	D_2	D_3	D_4	D_5
Higher	-	V_2	V_3	-	NULL
Lower	V_1	-	-	V_4	-
Present_Value:	V_1	V_2	V_3	V_3	V_4

1. (TRANSMIT TimeSynchronization-Request, 'Time' = D_1) | MAKE (the local date and time = D_1)
2. VERIFY Present_Value = V_1
3. (TRANSMIT TimeSynchronization-Request, 'Time' = D_2) | MAKE (the local date and time = D_2)
4. VERIFY Present_Value = V_2
5. (TRANSMIT TimeSynchronization-Request, 'Time' = D_3) | MAKE (the local date and time = D_3)
6. VERIFY Present_Value = V_3
7. (TRANSMIT TimeSynchronization-Request, 'Time' = D_4) | MAKE (the local date and time = D_4)
8. VERIFY Present_Value = V_3 (not V_4)
9. (TRANSMIT TimeSynchronization-Request, 'Time' = D_5) | MAKE (the local date and time = D_5)

10. VERIFY Present_Value = V_4

Question:

Is the above proposed solution correct?

Response:

Yes.