

Clarification Request

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

Reference: "BTL Specified Tests-3.0.final"

Background:

The following test incorrectly indicated that the Active COV subscription should contain the IUT instead of the TD. Here is the proposed fixed test:

7.3.1.X1 Active_COV_Subscriptions Test

Reason for Change: No relevant test in 135.1. This test is covered by proposal CN-066.

Purpose: This test case verifies that the IUT correctly updates the Active_COV_Subscriptions property when COV subscriptions are created, cancelled and timed-out.

Configuration: For this test, the tester shall choose 3 objects, O₁, O₂, and O₃ that the device supports COV for. O₁, O₂, and O₃ need not refer to different objects. The tester shall also choose 3 non-zero unique process identifiers, P₁, P₂, and P₃, and 3 non-zero lifetimes L₁, L₂ and L₃. Lifetime L₁ shall be long enough to allow the initial part of the test to run through to step 7. Lifetimes L₂ and L₃ shall be long enough for the whole test to complete without the lifetime expiring.

The IUT shall start the test with no entries in its Active_COV_Subscriptions property.

Test Steps:

1. TRANSMIT SubscribeCOV-Request,

'Subscriber Process Identifier' =	P ₁ ,
'Monitored Object Identifier' =	O ₁ ,
'Issue Confirmed Notifications' =	TRUE,
'Lifetime' =	L ₁
2. RECEIVE BACnet-SimpleACK-PDU
3. RECEIVE ConfirmedCOVNotification-Request,

'Subscriber Process Identifier' =	P ₁ ,
'Initiating Device Identifier' =	IUT,
'Monitored Object Identifier' =	O ₁ ,
'Time Remaining' =	(a value approximately equal to L ₁),
'List of Values' =	(values appropriate to the object type of the monitored object)
4. TRANSMIT Simple-Ack
5. VERIFY Active_COV_Subscriptions = {

{ { IUTTD, P₁ }, O₁, TRUE, (a value less than L₁), (a valid Increment if the property is REAL) }
6. TRANSMIT SubscribeCOV-Request,

'Subscriber Process Identifier' =	P ₂ ,
'Monitored Object Identifier' =	O ₂ ,
'Issue Confirmed Notifications' =	FALSE,
'Lifetime' =	L ₂
7. RECEIVE BACnet-SimpleACK-PDU
8. RECEIVE UnconfirmedCOVNotification-Request,

'Subscriber Process Identifier' =	P ₂ ,
'Initiating Device Identifier' =	IUT,

- 'Monitored Object Identifier' = O_2 ,
 'Time Remaining' = (a value approximately equal to L_2),
 'List of Values' = (values appropriate to the object type of the monitored object)
9. VERIFY Active_COV_Subscriptions = {
 { IUTTD, P_1 }, O_1 , TRUE, (a value less than L_1), (a valid Increment if the property is REAL)
 },
 { IUTTD, P_2 }, O_2 , FALSE, (a value less than L_2), (a valid Increment if the property is REAL) }
 }
10. TRANSMIT SubscribeCOV-Request,
 'Subscriber Process Identifier' = P_3 ,
 'Monitored Object Identifier' = O_3 ,
 'Issue Confirmed Notifications' = FALSE,
 'Lifetime' = L_3
11. RECEIVE BACnet-SimpleACK-PDU
12. RECEIVE UnconfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = P_3 ,
 'Initiating Device Identifier' = IUT,
 'Monitored Object Identifier' = O_3 ,
 'Time Remaining' = (a value approximately equal to L_2),
 'List of Values' = (values appropriate to the object type of the monitored object)
13. VERIFY Active_COV_Subscriptions = {
 { IUTTD, P_1 }, O_1 , TRUE, (a value less than L_1), (a valid Increment if the property is REAL)
 },
 { IUTTD, P_2 }, O_2 , FALSE, (a value less than L_2), (a valid Increment if the property is REAL) },
 { IUTTD, P_3 }, O_3 , FALSE, (a value less than L_3), (a valid Increment if the property is REAL) }
 }
14. WAIT L_1 + the IUT's timer granularity
15. VERIFY Active_COV_Subscriptions = {
 { IUTTD, P_2 }, O_2 , FALSE, (a value less than L_2), (a valid Increment if the property is REAL) },
 { IUTTD, P_3 }, O_3 , FALSE, (a value less than L_3), (a valid Increment if the property is REAL) }
 }
16. TRANSMIT SubscribeCOV-Request,
 'Subscriber Process Identifier' = P_3 ,
 'Monitored Object Identifier' = O_3
17. VERIFY Active_COV_Subscriptions = {
 { IUTTD, P_2 }, O_2 , FALSE, (a value less than L_2), (a valid Increment if the property is REAL) },
 }
18. TRANSMIT SubscribeCOV-Request,
 'Subscriber Process Identifier' = P_2 ,
 'Monitored Object Identifier' = O_2
19. VERIFY Active_COV_Subscriptions = { }

Question:

Are the proposed changes correct?

Response:

Yes.