

### Clarification Request

**References:** 135.1-2013 test 7.3.2.10.1, 135-2012 Clause 12.11.39 and in the Clause 21 BACnetCOVSubscription structure.

**Date of BTL-WG Response:** April 23, 2017

☒ All actions necessitated have been completed

#### Background:

Clause 12.11.39 and in the Clause 21 BACnetCOVSubscription structure “covincrement” parameter is optional. I think the test 7.3.2.10.1 has made too strong a statement, where it says:

(a valid Increment if the property is REAL)),

because the test should instead make a statement that admits that the parameter is optional.

#### 135.1-2013 test 7.3.2.10.1 Active\_COV\_Subscriptions SubscribeCOV Test

**Purpose:** This test case verifies that the IUT correctly updates the Active\_COV\_Subscriptions property when COV subscriptions are created, cancelled and timed-out using SubscribeCOV.

**Configuration Requirements:** In this test, the tester shall choose three standard objects, O<sub>1</sub>, O<sub>2</sub>, and O<sub>3</sub>, for which the device supports SubscribeCOV. O<sub>1</sub>, O<sub>2</sub>, and O<sub>3</sub> are not required to refer to different objects. The tester shall also choose three non-zero unique process identifiers, P<sub>1</sub>, P<sub>2</sub>, and P<sub>3</sub>, and three non-zero lifetimes L<sub>1</sub>, L<sub>2</sub>, and L<sub>3</sub>. Lifetime L<sub>1</sub> shall be long enough to allow the initial part of the test to run through to step 14. Lifetimes L<sub>2</sub> and L<sub>3</sub> shall be long enough for the whole test to be completed without 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 <sub>1</sub> ,
'Monitored Object Identifier' =	O <sub>1</sub> ,
'Issue Confirmed Notifications' =	TRUE,
'Lifetime' =	L <sub>1</sub>
2. RECEIVE BACnet-SimpleACK-PDU
3. BEFORE **Notification Fail Time**

RECEIVE ConfirmedCOVNotification-Request,	
'Subscriber Process Identifier' =	P <sub>1</sub> ,
'Initiating Device Identifier' =	IUT,
'Monitored Object Identifier' =	O <sub>1</sub> ,
'Time Remaining' =	(a value approximately equal to L <sub>1</sub> ),

'List of Values' = (values appropriate to the object type of the monitored object)

4. TRANSMIT BACnet-SimpleACK-PDU

5. VERIFY Active\_COV\_Subscriptions = {{ {TD, P<sub>1</sub>}, {O<sub>1</sub>, Present\_Value }, TRUE, (a value less than L<sub>1</sub>), (a valid Increment if the property is REAL) }}

6. TRANSMIT SubscribeCOV-Request,  
     'Subscriber Process Identifier' = P<sub>2</sub>,  
     'Monitored Object Identifier' = O<sub>2</sub>,  
     'Issue Confirmed Notifications' = FALSE,  
     'Lifetime' = L<sub>2</sub>

7. RECEIVE BACnet-SimpleACK-PDU

8. BEFORE **Notification Fail Time**  
     RECEIVE UnconfirmedCOVNotification-Request,  
         'Subscriber Process Identifier' = P<sub>2</sub>,  
         'Initiating Device Identifier' = IUT,  
         'Monitored Object Identifier' = O<sub>2</sub>,  
         'Time Remaining' = (a value approximately equal to L<sub>2</sub>),  
         'List of Values' = (values appropriate to the object type of the monitored object)

9. VERIFY Active\_COV\_Subscriptions = {{ {TD, P<sub>1</sub>}, {O<sub>1</sub>, Present\_Value }, TRUE, (a value less than L<sub>1</sub>), (a valid Increment if the property is REAL) }, { {TD, P<sub>2</sub>}, {O<sub>2</sub>, Present\_Value }, FALSE, (a value less than L<sub>2</sub>), (a valid Increment if the property is REAL) }}

10. TRANSMIT SubscribeCOV-Request,  
     'Subscriber Process Identifier' = P<sub>3</sub>,  
     'Monitored Object Identifier' = O<sub>3</sub>,  
     'Issue Confirmed Notifications' = FALSE,  
     'Lifetime' = L<sub>3</sub>

11. RECEIVE BACnet-SimpleACK-PDU

12. BEFORE **Notification Fail Time**  
     RECEIVE UnconfirmedCOVNotification-Request,  
         'Subscriber Process Identifier' = P<sub>3</sub>,  
         'Initiating Device Identifier' = IUT,  
         'Monitored Object Identifier' = O<sub>3</sub>,  
         'Time Remaining' = (a value approximately equal to L<sub>3</sub>),  
         'List of Values' = (values appropriate to the object type of the monitored object)

13. VERIFY Active\_COV\_Subscriptions = {{{TD, P<sub>1</sub>}, {O<sub>1</sub>, Present\_Value }, TRUE, (a value less than L<sub>1</sub>),

REAL)),  
 (a valid Increment if the property is  
 value less than L<sub>2</sub>),  
 REAL)),  
 (a valid Increment if the property is  
 (a value less than L<sub>3</sub>),  
 REAL))}  
 14. WAIT L<sub>1</sub> + the IUT's timer granularity

**Question:**

Is it acceptable for BTL that IUT is not showing covincrement parameter in active cov subscription property

**Response:**

**Yes.**

**The BACnet Committee answered this question in Interpretation Request 135-2012-20 where they state that the field is optional if no increment is provided in the subscription services. Because this test only applies to SubscribeCOV which does not have a COV increment parameter, the field's presence is a local matter for numeric properties.**

**The field shall always be absent for non-numeric properties.**