

## Clarification Request

**References:** Test Plan Section 4.10.1 Data Sharing - COV - B

### Background / Proposed Solution:

Test Plan-5.0.final section 4.10.1 Data Sharing - COV - B

BTL - 9.10.1.X2 - Ensuring Subscription Lifetimes Are Not Effected By Time Changes  
Specifies Test Conditionality "This test is not yet defined and shall be skipped."

There is, however, a test in BTL Specified Test-5.0.final

9.10.1.X2        Ensuring Subscription Lifetimes Are Not Effected By Time Changes

Reason For Change: No test exists for this functionality. This test is not in any SSPC proposal.

Purpose: To verify that the IUT correctly responds to a SubscribeCOV request to establish a subscription with a temporary lifetime, and that the lifetime is not effected by TimeSynchronization or UTC-TimeSynchronization service requests. Either confirmed or unconfirmed notifications may be used but at least one of these options must be supported by the IUT.

1.        TRANSMIT SubscribeCOV-Request,  
               'Subscriber Process Identifier' = (any valid process identifier),  
               'Monitored Object Identifier' =    (any object supporting COV notifications),  
               'Issue Confirmed Notifications' = TRUE | FALSE,  
               'Lifetime' =                                (a value between 60 seconds and 300 seconds)
2.        RECEIVE BACnet-SimpleACK-PDU
3.        WAIT Notification Fail Time
4.        IF (the subscription was for confirmed notifications) THEN  
               RECEIVE ConfirmedCOVNotification-Request,  
                       'Subscriber Process Identifier' = (the same identifier used in the  
 subscription),  
                       'Initiating Device Identifier' =    IUT,  
                       'Monitored Object Identifier' =    (the same object used in the  
 subscription),  
                       'Time Remaining' =                        (the requested subscription lifetime),  
                       'List of Values' =                                (values appropriate to the object  
 type of the monitored object)  
               ELSE  
                       RECEIVE UnconfirmedCOVNotification-Request,  
                       'Subscriber Process Identifier' = (the same identifier used in the  
 subscription),  
                       'Initiating Device Identifier' =    IUT,  
                       'Monitored Object Identifier' =    (the same object used in the  
 subscription),  
                       'Time Remaining' =                        (the requested subscription lifetime),  
                       'List of Values' =                                (values appropriate to the object  
 type of the monitored object)
5.        MAKE (a change to the monitored object that should cause a COV notification)
6.        IF (the subscription was for confirmed notifications) THEN

RECEIVE ConfirmedCOVNotification-Request,  
 'Subscriber Process Identifier' = (the same identifier used in the  
 subscription),  
 'Initiating Device Identifier' = IUT,  
 'Monitored Object Identifier' = (the same object used in the  
 subscription),  
 'Time Remaining' = (a value greater than 0 and less than the  
 requested subscription lifetime),  
 'List of Values' = (values appropriate to the object  
 type of the monitored object)

ELSE

RECEIVE UnconfirmedCOVNotification-Request,  
 'Subscriber Process Identifier' = (the same identifier used in the  
 subscription),  
 'Initiating Device Identifier' = IUT,  
 'Monitored Object Identifier' = (the same object used in the  
 subscription),  
 'Time Remaining' = (a value greater than 0 and less than the  
 requested subscription lifetime),  
 'List of Values' = (values appropriate to the object  
 type of the monitored object including the  
 changed value of that triggered the notification)

7. TRANSMIT

DA = GLOBAL BROADCAST,  
 SA = TD,  
 BACnet-Unconfirmed-Request-PDU,  
 'Service Choice' = TimeSynchronization-Request,  
 date = (a future date),  
 time = (a future time)

8. TRANSMIT

DA = GLOBAL BROADCAST,  
 SA = TD,  
 BACnet-Unconfirmed-Request-PDU,  
 'Service Choice' = UTC-TimeSynchronization-Request,  
 date = (a future date),  
 time = (a future time)

9. WAIT (the lifetime of the subscription less 10 seconds, or enough time to execute the next 2 steps)

10. MAKE (a change to the monitored object that should cause a COV notification)

11. IF (the subscription was for confirmed notifications) THEN

RECEIVE ConfirmedCOVNotification-Request,  
 'Subscriber Process Identifier' = (the same identifier used in the  
 subscription),  
 'Initiating Device Identifier' = IUT,  
 'Monitored Object Identifier' = (the same object used in the  
 subscription),  
 'Time Remaining' = (a value greater than 0 and less than the  
 requested subscription lifetime),  
 'List of Values' = (values appropriate to the object  
 type of the monitored object)

monitored object)

ELSE

RECEIVE UnconfirmedCOVNotification-Request,

'Subscriber Process Identifier' = (the same identifier used in the subscription),

'Initiating Device Identifier' = IUT,

'Monitored Object Identifier' = (the same object used in the subscription),

'Time Remaining' = (a value greater than 0 and less than the requested subscription lifetime),

'List of Values' = (values appropriate to the object type of the monitored object including the changed value of that triggered the notification)

12. WAIT (the remaining lifetime of the subscription)

13. MAKE (a change to the monitored object that would cause a COV notification if there were an active subscription)

14. CHECK (verify that the IUT did not transmit a COV notification message)

**Question:**

Was BTL Specified test 9.10.1.X2 meant to be tested in the Test Plan in a section COV-B, with conditionality "If the IUT does not support UTCTimeSynchronization nor TimeSynchronization, then this test shall be skipped."?

**Response:**

Yes, the test should be performed if the IUT supports UTCTimeSynchronization or TimeSynchronization.