Clarification Request

References: 135.1-2009 Test 9.10.1.7 Finite Lifetime Subscriptions

Date of BTL-WG Response: __21-Apr-2011__

Background / Proposed Solution:

9.10.1.7 Finite Lifetime Subscriptions

Purpose: To verify that the IUT correctly responds to a SubscribeCOV request to establish a subscription with a temporary
lifetime. 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. WAIT (the lifetime of the subscription)
8. MAKE (a change to the monitored object that would cause a COV notification if there were an active subscription)
9. CHECK (verify that the IUT did not transmit a COV notification message)

Question:

In step 4 the test requires “the requested subscription lifetime”. However, up to Notification Fail Time has passed since the SubscribeCOV-Request was sent. Can the yellowed text be modified to “A value between the requested subscription lifetime and requested subscription lifetime less Notification Fail Time?

Is it acceptable that the Time remaining decrement with a granularity larger than one second such as 5 second steps?

Response:

BTL-WG agrees "exactly equal" is not mandated behavior. Step 4 shall be modified to allow the 'Time Remaining' parameter to be slightly different from the original subscription.

When the BTL-WG takes up the task item from BTL-CRR-0184, to ensure that the 'Time Remaining' is accurately reflected in the Notifications as time counts down, it will take up the second question, about the acceptable granularity.