

Clarification Request

References: 135.1-2009 – Test 9.10.1.7, BTL-CRR-0184, and 135.1-2009zzz-11

Background / Proposed Solution:

As BTL-CRR-0184 clarified, when test 9.10.1.7 is automated, the speed at which it executes can make step 6 invalid. Further 135.1-2009zzz-11 corrects Step 3 to be BEFORE not WAIT, and insertion of another BEFORE covering the second notification. Another correction has been pointed out.

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.

Test Steps:

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. IF (the subscription was for confirmed notifications) THEN
 - BEFORE Notification Fail Time
 - 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)
 - TRANSMIT BACnet-SimpleACK-PDU**
- ELSE
 - BEFORE Notification Fail Time
 - 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)
4. MAKE (a change to the monitored object that should cause a COV notification)
5. IF (the subscription was for confirmed notifications) THEN
 - BEFORE Notification Fail Time
 - 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 or equal to 'Lifetime'),

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

TRANSMIT BACnet-SimpleACK-PDU

ELSE

BEFORE Notification Fail Time

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 or equal to 'Lifetime'),

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

6. WAIT (the lifetime of the subscription)

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

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

Question:

Should the tests 9.10.1.1, 9.10.1.3 and 9.10.1.7 add the TRANSMIT BACnet-SimpleACK-PDU operations indicated, so that TD is performing as a valid BACnet implementation?

Response:

Yes.