

Clarification Request

References: BTL Specified Tests

Date of BTL-WG Response: February 1, 2018

☒ All Actions Necessitated have been Completed

Background: “e.g” BTL Specified Test 9.2.2.1 – Change of Value Notification Arrives after a Subscription has Expired

9.2.2.1 Change of Value Notification Arrives after Subscription has Expired

Reason for Change: Corrected tests per BTL-CR-0299 and added Configuration Requirements section.

Purpose: To verify that an appropriate error is returned if a COV notification arrives after the subscription time period has expired.

Test Steps:

Configuration Requirements: If the IUT does not support initiation of SubscribeCOV-Request with 'Issue Confirmed Notifications' equal to TRUE, then this test shall be skipped.

1. RECEIVE SubscribeCOV-Request,
 'Subscriber Process Identifier' = (any valid process identifier),
 'Monitored Object Identifier' = (any object X of a type that supports COV notification),
 'Issue Confirmed Notifications' = TRUE,
 'Lifetime' = (a value no greater than one minute, any valid Lifetime)
2. TRANSMIT BACnet-SimpleACK-PDU
3. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (the process identifier used in step 1),
 'Initiating Device Identifier' = ID,
 'Monitored Object Identifier' = X,
 'Time Remaining' = (any amount of time greater than 0),
 'List of Values' = (a list of values appropriate to object X)
4. MAKE (the IUT stop resubscribing, if it resubscribes automatically)
53. WAIT (a value two times at least Lifetime, but sufficient to ensure the subscription has expired)
64. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (the process identifier used in step 21),
 'Initiating Device Identifier' = ID,
 'Monitored Object Identifier' = X,
 'Time Remaining' = (any amount of time greater than 0),
 'List of Values' = (a list of values appropriate to object X)
75. IF (Protocol_Revision is present and Protocol_Revision >= 10) THEN
 RECEIVE BACnet-Error-PDU,
 Error Class = SERVICES,
 Error Code = UNKNOWN_SUBSCRIPTION |
 (BACnet-SimpleACK-PDU)
 ELSE
 RECEIVE BACnet-Error-PDU,
 Error Class = SERVICES,
 Error Code = (any valid error code for class SERVICES) |
 (BACnet-SimpleACK-PDU)

Problems:

The IUT does not let subscriptions simply expire. When it is no longer interested in an object, it cancels the COV subscription. The default value for the subscription is 8hr which is a long time to wait to execute the test. Cancelling the subscription should meet the test requirements for Step 4 so, if the subscription is cancelled, waiting 8hrs is not necessary.

Of note, the IUT responds with a BACnet-SimpleAck-PDU to any unexpected ConfirmedCOVNotifications.

Question:

Is it acceptable to cancel the subscription and skip Step 5?

Response:

Yes. The BTL-WG will modify the test to accommodate this need.