

Clarification Request

References: “e.g” Specified Tests 23.0.Final BTL - 9.10.1.8 - Updating Existing Subscriptions

Date of BTL-WG Response: 2023-08-17

Background: “e.g” Specified Tests 23.0.Final BTL - 9.10.1.8 - Updating Existing Subscriptions

Reason for change: Modify the test case as per purpose, BACnet Clause 13.14.2, and updated the language as per BACnet 135.1: 6 Clause

Purpose: To verify that the IUT correctly responds to a SubscribeCOV request to update the lifetime of a subscription. Either confirmed or unconfirmed notifications may be used but at least one of these options must be supported by the IUT.

Test Concept: A subscription for COV notifications is made for 60 seconds. Before that subscription has expired a second subscription is made for 300 seconds. When the notification is sent in response to the second subscription the lifetime is checked to verify that it is greater than 60 but **less than 300 seconds**.

Test Steps:

1. TRANSMIT SubscribeCOV-Request,
'Subscriber Process Identifier' = *PIDI* (any valid process identifier),
'Monitored Object Identifier' = *OI* (any object supporting COV notifications),
'Issue Confirmed Notifications' = TRUE | FALSE,
'Lifetime' = 60
2. RECEIVE BACnet-SimpleACK-PDU
3. IF (the subscription was for confirmed notifications) THEN
 BEFORE Notification Fail Time
 RECEIVE ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = *PIDI* (~~the same identifier used in the subscription~~),
 'Initiating Device Identifier' = IUT,
 'Monitored Object Identifier' = *OI* (~~the same object used in the subscription~~),
 'Time Remaining' = (60 or less than 60),
 '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' = *PIDI* (~~the same identifier used in the subscription~~),
 'Initiating Device Identifier' = IUT,
 'Monitored Object Identifier' = *OI* (~~the same object used in the subscription~~),
 'Time Remaining' = (~60, but not greater than 60),
 'List of Values' = (values appropriate to the object type of the monitored object)
4. TRANSMIT SubscribeCOV-Request,
'Subscriber Process Identifier' = *PIDI* (any valid process identifier),
'Monitored Object Identifier' = *OI* (any object supporting COV notifications),
'Issue Confirmed Notifications' = TRUE | FALSE,
'Lifetime' = (***TI*, a value between 180 and 300 seconds**)
5. RECEIVE BACnet-SimpleACK-PDU
6. IF (the subscription was for confirmed notifications) THEN
 BEFORE Notification Fail Time
 RECEIVE ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = *PIDI* (the same identifier used in the subscription),
 'Initiating Device Identifier' = IUT,
 'Monitored Object Identifier' = *OI* (~~the same object used in the subscription~~),

'Time Remaining' = (~~$\sim T1$, but not greater than $T1$~~ 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' = $PID1$ (~~the same identifier used in the subscription~~),

'Initiating Device Identifier' = IUT,

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

'Time Remaining' = (~~$\sim T1$, but not greater than $T1$~~ the requested subscription lifetime),

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

Problem:

As per test step 6 time remaining should not be greater than $T1$ (300 seconds) and $\sim T1$.

'Time Remaining' = (~~$\sim T1$, but not greater than $T1$~~ the requested subscription lifetime),

While as per test concept it should be less than 300 seconds.

“....verify that it is greater than 60 but less than 300 seconds.”

Question:

1. In Step 6, if COV notification comes immediately, can the time remaining be less than or equal to $T1$?

Response:

1. Yes. The test will be modified.