

Clarification Request

References: ASHRAE 135.1 / 9.2.2.1 Change of Value Notification Arrives after Subscription has Expired

Date of BTL-WG Response: June 19, 2025

Background: ASHRAE 135.1 / 9.2.2.1 Change of Value Notification Arrives after Subscription has Expired

9.2.2.1 Change of Value Notification Arrives after Subscription has Expired

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

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.

Test Steps:

1. RECEIVE SubscribeCOV-Request,
 'Subscriber Process Identifier' = (any valid process identifier, P1),
 'Monitored Object Identifier' = (any object X of a type that supports COV notification),
 'Issue Confirmed Notifications' = TRUE,
 'Lifetime' = (any valid Lifetime)
2. TRANSMIT BACnet-SimpleACK-PDU
3. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (P1),
 'Initiating Device Identifier' = TD,
 '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. IF (the IUT can cancel the subscription) THEN
 RECEIVE SubscribeCOV – Request,
 'Subscriber Process Identifier' = (PI),
 'Monitored Object Identifier' = X
ELSE
 MAKE (the IUT stop resubscribing, if it resubscribes automatically)
5. WAIT (at least Lifetime, but sufficient to ensure the subscription has expired)
6. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (P1),
 'Initiating Device Identifier' = TD,
 'Monitored Object Identifier' = X,
 'Time Remaining' = (any amount of time greater than 0),
 'List of Values' = (a list of values appropriate to object X)
7. IF (Protocol_Revision is present and Protocol_Revision >= 10) THEN
 RECEIVE BACnet-Error-PDU,
 'Error Class' = SERVICES,
 'Error Code' = UNKNOWN_SUBSCRIPTION |
 (BACnet-SimpleACK-PDU)

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ELSE  
RECEIVE BACnet-Error-PDU,  
'Error Class' = SERVICES,  
'Error Code' = (any valid error code for class SERVICES) |  
(BACnet-SimpleACK-PDU)
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Problem: The process was terminated in step 4 (IF) because the notification was not sent in the variant where the IUT can cancel a subscription.

Cause:

An IUT does not terminate an existing subscription on its own. This can only be done via a MAKE step, which is not available in the test.

Question: Should a Make Step be added?

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4. IF (the IUT can cancel the subscription) THEN  
    MAKE (the IUT cancel the subscription)  
RECEIVE SubscribeCOV – Request,  
'Subscriber Process Identifier' = (PI),  
'Monitored Object Identifier' = X
```

Response:

Yes