

Clarification Request

References: BTL Specified Tests 12.0.final, several tests in section 9.2.2

Date of BTL-WG Response: January 10, 2013

Background:

Tests 9.2.2.1, 9.2.2.2, and 9.2.2.4, newly added in Test Plan-12.0 overspecify in step 1 for the IUT to initiate with 'Lifetime': (value no greater than one minute). The tests 9.3.1.X1 and 9.3.1.X2 which were earlier added in the Test Plan, conversely overspecify in step 1 for the IUT to initiate with 'Lifetime': (a value greater than one minute).

From BTL Specified Tests-12.0.final

9.2.2.1 Change of Value Notification Arrives after Subscription has Expired

Reason for Change: 135-2008h allows for a SimpleAck or a specific error code to return if a subscription does not exist.

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

Test Steps:

1. RECEIVE SubscribeCOV,
 '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)
2. TRANSMIT BACnet-SimpleACK-PDU
3. WAIT (a value two times Lifetime)
4. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (the process identifier used in step 2/),
 '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)
5. 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)

9.2.2.2 Change of Value Notifications with Invalid Process Identifier

Reason for Change: 135-2008h allows for a SimpleAck or a specific error code to return if a subscription does not exist.

Purpose: To verify that an appropriate error is returned if a COV notification arrives that contains a process identifier that does not match any current subscriptions.

Test Steps:

1. RECEIVE SubscribeCOV,
 '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)
2. TRANSMIT BACnet-SimpleACK-PDU
3. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (a process identifier different from the one used in step 2/),
 '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 (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)

9.2.2.4 Change of Value Notifications with Invalid Monitored Object Identifier

Reason for Change: 135-2008h allows for a SimpleAck or a specific error code to return if a subscription does not exist.

Purpose: To verify that an appropriate error is returned if a COV notification arrives that contains a monitored object identifier that does not match any current subscriptions.

Test Steps:

1. RECEIVE SubscribeCOV,
 '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)
2. TRANSMIT BACnet-SimpleACK-PDU
3. TRANSMIT ConfirmedCOVNotification-Request,
 'Subscriber Process Identifier' = (the process identifier used in step 2/),
 'Initiating Device Identifier' = TD,
 'Monitored Object Identifier' = (any object Y supporting COV notification except X),
 'Time Remaining' = (any amount of time greater than 0),
 'List of Values' = (a list of values appropriate to object Y)
4. IF (Protocol_Revision is present and Protocol_Revision >= 10) THEN

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    RECEIVE BACnet-Error-PDU,
        Error Class =
        Error Code =
        SERVICES,
        UNKNOWN_SUBSCRIPTION |

    (BACnet-SimpleACK-PDU)

ELSE
    RECEIVE BACnet-Error-PDU,
        Error Class =
        Error Code =
        SERVICES,
        (any valid error code for class SERVICES) |
    (BACnet-SimpleACK-PDU)

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Questions:

Should 'Lifetime' values larger than one minute also be acceptable? A device initiating SubscribeCOV could legitimately have no capability for generation of a request with the 'Lifetime' so short.

Should tests 9.3.1.X1 and 9.3.1.X2 be similarly modified?

Response:

Yes. The test will be modified to allow a longer 'Lifetime'.