

Clarification Request

References: ASHRAE 135-2008h-5

Date of BTL-WG Response: Sep 20, 2012

Background / Proposed Solution:

Since SubscribeCOV does not contain a Device identifier, how reasonable is it to require the recipient, when a COV notification arrives, to do a verification on its 'Initiating Device Identifier', and not just key off of 'Subscriber Process Identifier'? The remoteness of the scenario in 9.2.2.3 occurring outside of a test scenario, means that in many devices, the code will need to be reworked to pass a Device identifier internally into the SubscribeCOV initiation routine (where the subscription management is probably coded), and there record it into the subscription management data structure. Then whenever a COV notification arrives, do a verify on its 'Initiating Device Identifier'. That is quite a bit of, perhaps unnecessary, work.

The 135-2008h-5 actual wording is:

UNKNOWN_SUBSCRIPTION – No subscription can be found that matches the specified object, property, and process identifier for the received notification.

and it never mentions device.

9.2.2.3 Change of Value Notifications with Invalid Initiating Device 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 an initiating device 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 1),
'Initiating Device Identifier' =	(any valid Device object except TD),
'Monitored Object Identifier' =	X,

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        '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)
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Question:

Should the test be dropped from our Test Plan?

Response:

Yes.