

Clarification Request

References: 135.1.-2009e-1 and BTL Specified Tests-5.0.final

Date of BTL-WG Response: March 15, 2012

Background / Proposed Solution:

135.1.-2009e-1 and BTL Specified Tests-5.0.final contain slightly different versions of test 14.1.8 aimed at testing Original-Broadcast-NPDU processing. Requiring the specificity of Local IP Broadcast for the I-Am seems overly strict. Not just because it should permit a Unicast per 135-2008q-1, but also it should permit a Unicast to the Router, for a REMOTE BROADCAST, or even a Unicast to the Router that carries SNET/SADR with a non-zero-length SLEN for a REMOTE Unicast.

In BTL Specified Tests-5.0.final, it is this

14.1.8 Original-Broadcast-NPDU

Reason for Change: The original test specified a unicast message in step 1, which is incorrect for a Original-Broadcast-NPDU on an IP subnet. Also, step 3 now specifies clearly what the IUT is not to do. This change is in RL-001.

Purpose: To verify that an IUT, not configured as a BBMD, will process an Original-Broadcast-NPDU message.

Test Steps:

1. TRANSMIT DESTINATION = Local IP Broadcast, SOURCE = TD,
Original-Broadcast-NPDU,
NPDU = Who-Is
2. RECEIVE DESTINATION = Local IP Broadcast, SOURCE = IUT,
Original-Broadcast-NPDU,
NPDU = I-Am
3. CHECK (The IUT shall not issue any Forwarded-NPDUs)

And in 135.1-2009e-1, it is this

[Change Clause **14.1.8**, p. 461]

[Reason for Change: The original test specified a unicast message in step 1, which is incorrect for a Original-Broadcast-NPDU on an IP subnet. Also, step 3 now specifies clearly what the IUT is not to do.]

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Test Steps:

1. TRANSMIT ~~DESTINATION = IUT~~ *DA = Local IP Broadcast* , SOURCE = TD,
Original-Broadcast-NPDU,
NPDU = Who-Is
2. RECEIVE ~~DESTINATION = Local IP Broadcast~~ *DA = Local IP Broadcast* , SOURCE = IUT,
Original-Broadcast-NPDU,
NPDU = I-Am
3. CHECK (The IUT shall not ~~take any additional action~~ *issue any Forwarded-NPDUs*)

Question:

Should the above test be revised? Removing all specificity regarding address for the I-Am, and relocating any strictness to Device Management – Dynamic Device Binding – B section 9.33 testing? Or should it at least mention: "...the I-Am shall be sent in such a manner that the BACnet-user that sent the Who-Is will receive the resulting I-Am."?

Response:

Yes, the test needs to also accommodate a unicast I-Am back to TD in step 2. But since the TD is not on a different network, and there is no intervening router, it does not need to be revised to accommodate a Remote broadcast being unicast to the router.