

Clarification Request

References: BTL Specified Tests 10.X.5 Ignore Remote Packets

Background / Proposed Solution:

There is a BTL Specified Test 10.X.5 **Ignore Remote Packets** Test, that specifies to transmit both broadcast and directed requests to the IUT with DNET (not equal to x'FFFF').

10.X.5 Ignore Remote Packets

Purpose: This test case verifies that the non-router IUT will quietly accept and discard packets destined for remote networks.

Test Concept: The TD transmits both broadcast and directed requests to the IUT with DNET (not equal to x'FFFF') and DADR in the Network Layer header. The IUT is required to silently drop the requests because it is not a router.

Test Steps:

1. TRANSMIT
 - DESTINATION = BROADCAST,
 - SOURCE = TD,
 - DNET = DNET3,
 - DADR= BROADCAST,
 - Hop Count = 255,
 - BACnet-Unconfirmed-Request-PDU,
 - 'Service Choice' = who-Is
2. WAIT **Internal Processing Fail Time**
3. CHECK(that the IUT did not reset and that the IUT did not send any packets)
4. TRANSMIT
 - DESTINATION = IUT,
 - SOURCE = TD,
 - DNET = DNET3,
 - DADR = D2A,
 - Hop Count = 255,
 - BACnet-Confirmed-Request-PDU,
 - 'Service Choice' = ReadProperty-Request,
 - 'Object Identifier' = O2 (any BACnet standard object in IUT),
 - 'Property Identifier' = P2 (any required property of the specified object)
5. WAIT **Internal Processing Fail Time**
6. CHECK(that the IUT did not reset and that the IUT did not send any packets)

Question:

Does the explicit x'FFFF' exclusion here mean that IUT SHOULD respond to either or both broadcast and directed requests to the IUT, on its local network, when DNET is present but equal to x'FFFF' in the Network Layer header? Does it matter whether DADR is or is not specified with a non-0 DLEN when DNET is present and equal to x'FFFF'?

Response:

Non-routing nodes shall not ignore packets containing a DNET x'FFFF', as this indicates the packet is a GLOBAL BROADCAST.