

Clarification Request

References: Test Plan in virtual-routing section, reference to 135.1-2013 - 10.8.5

Actions necessitated: 135.1 test reference

Date of BTL-WG Response: __17-Aug-2017__
All actions necessitated have been completed

Background:

10.8.5 Hop Count Protection

Purpose: To verify that the IUT will discard a message if the Hop Count becomes zero.

BACnet Reference Clause: 6.5.4.

Configuration Requirements: The IUT shall be configured with routing tables indicating that Network 1 is directly connected to Port 1 and that Network 2 is directly connected to Port 2 as shown in Figure 10-1. The routing table shall contain no other entries.

Test Steps:

1. TRANSMIT, DA = IUT,

SA = TD,

DNET = 1,

DADR = VD1D, SNET = 3,

SADR = D3D,

Hop Count = 1, ReadProperty-Request, 'Object Identifier' = 'Property Identifier' = (any object identifier), (any property of the specified object)

2. WAIT Internal Processing Fail Time * 2

3. CHECK (verify that the IUT did not transmit a response for the Read Property)

4. TRANSMIT,

DA = LOCAL BROADCAST, SA = TD,

DNET = 1,

DLEN = 0,

SNET = 3,

SADR = D3D,

Hop Count = 1,

Who-Is-Request,

'Device Instance Range Low Limit' = VD1A

'Device Instance Range High Limit' = VD1A

5. WAIT Internal Processing Fail Time * 2
6. CHECK (verify that the IUT did not transmit an I-Am for VD1A)

Problem:

- the test assumes, that the router to the virtual network should not deliver messages to its virtual devices, that come in with hop count 1. This assumption is wrong. Hop Count protection only covers the case of forwarding a message to another router. That case does not apply to the virtual router situation.

Question:

should the reference to the test be removed from the 10.1.3 "Routes Packets between a Physical LAN and One or More Virtual LANs" section of BTL Test Plan?

RESPONSE:

Yes. This is not a testable requirement.