Clarification Request

References: BTL Test Plan-16.1

Date of BTL-WG Response: <u>13-February-2020</u>

⊠All Actions Necessitated have been Completed

Background: 135.1-2013 - 10.8.4.2 Route Global Broadcast from a Remote Device to Virtual Devices

Purpose: To verify that the IUT properly forwards global broadcast messages originating on a local network to its virtual devices. This test shall be skipped if the IUT's virtual devices are not capable of executing any application services that may be broadcast.

Test Concept: A broadcast message of a type that the virtual device will execute is sent to the IUT. It is then verified that a correct response is generated.

B. Who-Has Test Option

Test Steps:
1. TRANSMIT
DA = LOCAL BROADCAST,
SA = TD,
DNET = GLOBAL BROADCAST,
DLEN = 0,
Hop Count = 255,
Who-Has-Request,
'Device Instance Range Low Limit' = (the Device object instance number of the virtual device),
'Device Instance Range High Limit' = (the Device object instance number of the virtual device),
'Object Identifier' = (any object identifier of an object in the virtual device)
2. RECEIVE
DA = LOCAL BROADCAST,
SA = IUT,
DNET = GLOBAL BROADCAST,
DLEN = 0,
SNET = 1,
SADR = (the MAC address of the virtual device),
Hop Count = (any integer x: 1 < x < 255),
I-Have-Request,
'Device Identifier' = (the Device object instance number of the virtual device),
'Object Identifier' = (the object identifier specified in step 1),
'Object Name' = (any valid value)
(DA = LOCAL BROADCAST,
SA = IUT,
SNET = 1,
SADR = (the MAC address of the virtual device),
I-Have-Request,
'Device Identifier' = (the Device object instance number of the virtual device),
'Object Identifier' = (the object identifier specified in step 1),
'Object Name' = (any valid value)).

Problem:

As per step 2 of test, it expects a Hop Count should be (any integer x: 1 < x < 255).
However, we believe Hop Count protection only covers the case of forwarding a message to another router.
So as per BTL-CR-0411, where we had discussion regarding the hop count concept in case of Virtual Router, we believe that Hop count of 255, in test step 2 shall be acceptable

Question:

1. Shall the test step be modified to consider Hop count as 255?

Response:

1. **NO. Virtual routers are expected to be indistinguishable from actual routers.**