

Clarification Request

Request from: btl-labmanager@softdel.com

References: ASHRAE 135.1-2009

Stage: ☒ Request, ☐ Listed, ☐ Analysis, ☒ Resolved

Actions necessitated: ☒ Checklist/Test Plan change, ☐ BTL Specified Tests change, _____, 10.2.2.5.1
☐ SSPC Interpretation required, ☐ Implementation Guidelines change,

Date of BTL-WG Response: _____
☐ All actions necessitated have been completed

Background:

10.2.2.2.5 An Unknown Network is Discovered

Purpose: To verify that after searching for and discovering the path to an unknown network the IUT transmits the appropriate I-Am-Router-To-Network message.

Test Steps:

1. TRANSMIT PORT A,
 DESTINATION = LOCAL BROADCAST,
 SOURCE = D1A,
 Who-Is-Router-To-Network,
 Network Number = 6
2. RECEIVE PORT B,
 DESTINATION = LOCAL BROADCAST,
 SOURCE = IUT,
 SNET = 1,
 SADR = D1A,
 Who-Is-Router-To-Network,
 Network Number = 6
3. TRANSMIT PORT B,
 DESTINATION = LOCAL BROADCAST,
 SOURCE = R2-3,
 I-Am-Router-To-Network,
 Network Numbers = 6
5. RECEIVE PORT A,
 DESTINATION = LOCAL BROADCAST,
 SOURCE = IUT,
 I-Am-Router-To-Network,
 Network Numbers = 6

10.2.2.5.1 Restoring Specific DNETs

Purpose: To verify that the IUT updates its network availability information when a Router-Available-To-Network message conveying specific DNETs is received.

Test Steps:

1. TRANSMIT PORT B,
 DESTINATION = LOCAL BROADCAST,
 SOURCE = R2-3,
 Router-Busy-To-Network

2. RECEIVE PORT A,
DESTINATION = LOCAL BROADCAST,
SOURCE = IUT,
Router-Busy-To-Network,
Network Numbers = 3, 6 | 6, 3
3. TRANSMIT PORT B,
DESTINATION = LOCAL BROADCAST,
SOURCE = R2-3,
Router-Available-To-Network,
Network Numbers = 3
4. RECEIVE PORT A,
DESTINATION = LOCAL BROADCAST,
SOURCE = IUT,
Router-Available-To-Network,
Network Numbers = 3
5. TRANSMIT PORT A,
DESTINATION = IUT,
SOURCE = D1A,
DNET = 3,
DADR = D3D,
Hop Count = 255,
ReadProperty-Request,
'Object Identifier' = (any BACnet standard object),
'Property Identifier' = (any required property of the specified object)
6. RECEIVE PORT B,
DESTINATION = R2-3,
SOURCE = IUT,
DNET = 3,
DADR = D3D,
Hop Count = (any integer x: $0 < x < 255$),
ReadProperty-Request,
'Object Identifier' = (the object identifier used in step 5),
'Property Identifier' = (the property identifier used in step 5)
7. TRANSMIT PORT A,
DESTINATION = IUT,
SOURCE = D1A,
DNET = 6,
DADR = (any valid device address),
Hop Count = 255,
ReadProperty-Request,
'Object Identifier' = (any BACnet standard object),
'Property Identifier' = (any required property of the specified object)
8. RECEIVE PORT A,
DESTINATION = D1A,
SOURCE = IUT,
Reject-Message-To-Network,
Reject Reason = 2 (router busy),
DNET = 6

Question:

Does the test 10.2.2.5.1 intend to require test 10.2.2.2.5 to have been executed previously, in order to configure the IUT router with network 6 in its routing table?

Response:

This is already clarified in the 10.2 preamble where it says "The router functionality tests shall be conducted in the order they are defined in this standard. In some cases successful completion of a test case requires that the IUT begin in the final state from the previous test."