

Clarification Request

References:

- 135.1-2025 - 9.43.1 - Uses Who-Is to Configure Devices Supporting the Who-Am-I Service
 135.1-2025 - 9.43.2 - Configures Other Device's Object Instance Number

Date of BTL-WG Response: November 6, 2026

Background: 135.1-2025

9.43.1 Uses Who-Is to Configure Devices Supporting the Who-Am-I Service

Purpose: To verify that the IUT can configure a device when it receives a Who-Am-I in response to a Who-Is that it sent.

Test Concept: The IUT sends a Who-Is and TD responds with a Who-Am-I. The IUT then configures the TD's Device object instance number (X) using the You-Are service.

Configuration Requirements: TD has a MAC address but is not configured with a Device object instance number.

Notes to Tester: The IUT may require the tester to specify a Device object instance number to assign TD, using the IUT's software. If the IUT requires this step to occur at the beginning of step 3, then the amount of time it takes the tester to enter this should not be counted towards the fail timer. The destination address used by TD shall be selected such that the IUT will receive the messages.

Test Steps:

1. MAKE (the IUT transmit a Who-Is request to discover devices needing configuration)
2. RECEIVE
 - DESTINATION = TD | LOCAL BROADCAST | GLOBAL BROADCAST | REMOTE BROADCAST,
 - Who-Is Request,
 - 'Device Instance Range Low Limit' = 4194303,
 - 'Device Instance Range High Limit' = 4194303
3. TRANSMIT
 - DESTINATION = IUT | LOCAL BROADCAST | GLOBAL BROADCAST | REMOTE BROADCAST,
 - Who-Am-I Request,
 - 'Vendor Identifier' = (TD's Vendor_Identifier),
 - 'Model Name' = (any valid Model Name),
 - 'Serial Number' = (any valid Serial Number)
- ~~4. BEFORE Internal Processing Fail Time~~
4. MAKE (the IUT configure TD)
5. RECEIVE
 - DESTINATION = TD | GLOBAL BROADCAST | LOCAL BROADCAST | REMOTE BROADCAST,
 - You-Are Request,
 - 'Vendor Identifier' = (TD's Vendor_Identifier),
 - 'Model Name' = (the Model Name sent by TD in the previous step),
 - 'Serial Number' = (the Serial Number sent by TD in the previous step),
 - 'Device Identifier' = (Device, X),
 - 'Device MAC Address' = (TD's MAC address, or absent)
6. IF (TD is not an MS/TP subordinate node)

7. TRANSMIT

DESTINATION = IUT | LOCAL BROADCAST | GLOBAL BROADCAST | REMOTE BROADCAST,
 I-Am Request,
 'Device Identifier' = (Device, X),
 'Max APDU Length Accepted' = (any valid value),
 'Segmentation Supported' = (any valid value),
 'Vendor Identifier' = (TD's Vendor_Identifier)

8.45.2 8.X36.2 Configures Other Device's Object Instance Number and MAC Address

Purpose: To verify the IUT can configure another Device's object instance number and MAC address using the You-Are service without relying on the Who-Am-I service.

Test Concept: The IUT configures TD with an appropriate Device object instance number (X) and MAC address without TD first sending a Who-Am-I.

Configuration Requirements: TD is not configured with a Device object instance number and has no configured MAC address.

Notes to Tester: The IUT will require the tester to specify all the parameters needed to configure TD with You-Are, using the IUT's software. The destination address used by TD shall be selected such that the IUT will receive the messages.

Test Steps:

1. MAKE (the IUT configure TD)

~~2. BEFORE Internal Processing Fail Time~~

2. MAKE (the IUT configure TD)

3. RECEIVE

DESTINATION = LOCAL BROADCAST | GLOBAL BROADCAST | REMOTE BROADCAST,
 You-Are Request,
 'Vendor Identifier' = (TD's Vendor_Identifier),
 'Model Name' = (TD's Model_Name),
 'Serial Number' = (TD's Serial_Number),
 'Device Identifier' = (Device, X),
 'Device MAC Address' = (any valid MAC address)

4. IF (TD is not an MS/TP subordinate node)

5. TRANSMIT

DESTINATION = IUT | LOCAL BROADCAST | GLOBAL BROADCAST | REMOTE BROADCAST,
 I-Am Request,
 'Device Identifier' = (Device, X),
 'Max APDU Length Accepted' = (any valid value),
 'Segmentation Supported' = (any valid value),
 'Vendor Identifier' = (TD's Vendor_Identifier)

Problem:

According to the test description, 9.43.1 Step 4 and 9.43.2 Step 2 ("RECEIVE You-Are Request") must occur before the Internal Processing Fail Time.

However, based on my reading of the standard, it is not explicitly required that the IUT automatically sends the "You-Are" telegram after receiving the "Who-Am-I" request.

It seems possible that this action could instead depend on a user interaction for example, where the tester (or user) manually assigns the Device Object Instance Number via the IUT's software, as mentioned in the Notes to Tester.

If this interpretation is correct, then the Internal Processing Fail Time might be too short, since it would need to account for the time a user takes to enter the information.

Question:

1. Is 9.43.1 Step 5 and 9.43.2 Step 2 expected to occur automatically (initiated by the IUT without user input)?
2. Can 9.43.1 Step 5 and 9.43.2 Step 2 also be triggered by manual user action?

Response:

1. No
2. Yes