

## Clarification Request

**References:** BTL Specified Tests section 13.X2 Application State Machine Tests

### Background / Proposed Solution:

There is a BTL Specified Test 7.3.2.21.3.X **Recipient\_List Property Supports Device Identifier Recipients** which has overly restrictive expression in its Steps, Passing Result requirements without basis in the standard, and many typos.

The test specification requires a certain form of Device Address Binding resolution. Other forms, e.g. immediate address resolution after adding the recipient does not work and would require a special implementation.

We investigated a device in a pre-testing phase, which failed this test, because the Who-Is request was sent immediately after adding the recipient to the recipient-list of the notification-class object and not later after detecting an alarm as required by the actual form of this test.

Another question is if the Who-Is request is required to support the instance ranges or not. A global broadcast without instance range is far from ideal, but may additionally be allowed by the standard.

Another issue: The test requires a Global Broadcast only, what about Local or Remote Broadcasts? They might lead to the same result depending on the project implementation.

Proposal:

As far as I can see at least the RECEIVE statement for a Who-Is must additionally be allowed directly after test Step 1, to match what the Passing Result already explicitly states.

And (if agreed by the BTL-WG) it may be possible to allow other forms of the Who-Is requests as mentioned above.

At the moment it is unclear to me, how this test can be modified (including consideration of Notification Fail Time). A possible solution could be to add another test specification and make one of the two required if the IUT supports Device Identifier Recipients but this is sub-optimal.

We need to discuss this test within the BTL-WG to find a solution, at the moment I would declare this specification to be broken, which would result in a manual test at the lab.

These typo corrections to Existing 7.3.2.21.3.X **Recipient\_List Property Supports Device Identifier Recipients**

Purpose: To verify that the Recipient\_List property of the Notification Class object supports entries *with a* Recipient portions that contains a Device Identifiers and that the IUT is able to ~~associate a~~ *MAG achieve a device-address binding* with the Device Identifier using the Whols service. The intent is to ensure that the IUT is able to locate the specified alarm recipient and send notification to the specified recipient.

Test Concept: The tester shall select a single event generating object *E* in the IUT that references Notification Class object *N*. The tester shall add an entry into the Recipient\_List of the associated Notification Class object which specifies a device identifier *D* of a device that the IUT is not already aware of.

Test Steps:

1. WRITE *N*.RecipientList = ( {all days, all times, *D*, any process ID, FALSE, all transitions} )
2. MAKE (the event generating object, *E*, transition)
3. BEFORE **Notification Fail Time**
  - RECEIVE
    - DESTINATION = GLOBAL BROADCAST
    - SOURCE = IUT
    - Who-Is-Request
      - 'Device Instance Range Low Limit' =( *D*'s instance),
      - 'Device Instance Range High Limit' =( *D*'s instance)
  - TRANSMIT I-Am-Request
    - I-Am-Request,
      - 'I Am Device Identifier' = (*D*),
      - 'Max APDU Length Accepted' = (any valid value),
      - 'Segmentation Supported' = (any valid value),
      - 'Vendor Identifier' = (any valid value)
  - RECEIVE UnconfirmedEventNotification-Request,
    - 'Process Identifier' = (the valid process ID from step 1),
    - 'Initiating Device Identifier' = IUT,
    - 'Event Object Identifier' = *E*,
    - 'Time Stamp' = (the current local time),
    - 'Notification Class' = (*N*'s instance),
    - 'Priority' = (any valid priority),
    - 'Event Type' = (any valid event type),
    - 'Notify Type' = ALARM | EVENT,
    - 'AckRequired' = TRUE | FALSE,
    - 'From State' = (any valid event state),
    - 'To State' = (any valid event state),
    - 'Event Values' = (values appropriate to the event type)

Passing Result: The IUT may transmit the Who-Is request before the event is transitioned. The IUT may specify a larger range than is shown in step 3, although the range shown in step 3 is the preferred range assuming that the IUT is not also looking for other devices. The IUT shall not leave the range out of the Who-Is request.

**Response:**

Changes to this test are currently undergoing public review in 135.1-2009g-6. The BTL-WG will review and consider. when the Public Review is complete, and then make a response addressing all of these concerns.