

Clarification Request

References: BTL Test 7.3.1.13

Background

The standard was not clear enough on direct transitions in the OUT-OF-RANGE algorithm. The drawing showed no direct transition but the language at some points could have been interpreted this way. In addendum r, the language was made explicit on this particular transition that this is not allowed.

According to Addendum Add135.2008r:

The Analog Input object shall not generate a TO-OFFNORMAL transition from the LOW_LIMIT or HIGH_LIMIT state. When transitioning from HIGH_LIMIT to LOW_LIMIT, the object shall first transition to the NORMAL state.

and also

The Analog Output object shall not generate a TO-OFFNORMAL transition from the LOW_LIMIT or HIGH_LIMIT state. When transitioning from LOW_LIMIT to HIGH_LIMIT, the object shall first transition to the NORMAL state.

Anyhow the BTL Test 7.3.1.13 (135.1_2009) is testing the direct transition of this states

Test Step 9:

BEFORE Notification Fail Time

RECEIVE ConfirmedEventNotification-Request,

'Process Identifier' = (any valid process ID),

'Initiating Device Identifier' = IUT,

'Event Object Identifier' = (the object configured for this test),

'Time Stamp' = (the current local time),

'Notification Class' = (the class corresponding to the object being tested),

'Priority' = (the value configured to correspond to a TO-OFFNORMAL transition),

'Event Type' = OUT_OF_RANGE,

'Notify Type' = ALARM | EVENT,

'AckRequired' = TRUE | FALSE,

'From State' = HIGH_LIMIT,

'To State' = LOW_LIMIT,

'Event Values' = (values appropriate to the event type)

see also Test Step 14, Test Step 25.

Question:

Is this an errata in the test 7.3.1.13?

Response:

The BTL-WG has corrected this in a modified test. The BTL-WG will be recommending the modified test to the SSPC in a future proposal. TGTC document 2007-1105-16, an already published Clarification, has dealt with this issue.