

Clarification Request

References: 135.1-2013 tests 8.4.2 and 8.5.2

Date of BTL-WG Response: February 27, 2020

All Actions Necessitated have been Completed

Background:

Test 8.4.2 has in Test Concept:

...
For Multi-state Input and Multi-state Value objects there is a special case of the CHANGE_OF_STATE algorithm that applies to transitions to the FAULT state. The test procedure includes a test for this special case.
...

And then in Test Steps:

...
14 IF (the object being tested is a multi-state object that supports intrinsic reporting) THEN
15 IF (Present_Value is writable) THEN WRITE Present_Value = (a value x: x = one of the Fault_Values) ELSE MAKE (Present_Value have a value x: x = one of the Fault_Values)
BEFORE Notification Fail Time RECEIVE ConfirmedEventNotification-Request
...

Test 8.4.2 from 135.1-2019 seems to be different and might not show the same problem.

Problem:

Fault_Values is an optional property in multistate objects. Even if the object supports Intrinsic Reporting that does not mean it needs to have the Fault_Values property.
(Even when the Fault_Values property is present the object might still not support the Fault algorithm; I would consider that part a possible erratum on the standard)
So a device with multistate value objects, that supports intrinsic reporting but does not support FAULT evaluation would fail the test as currently written.

Question:

Can the fault testing after step 14 be skipped if the IUT does not support Fault detection with the Fault_Values?

RESPONSE:

YES.