

Clarification Request

References: Add-BTL_Test_Package_15.0-a-.pdf - 7.3.2.X38.1.3 Out_Of_Service Pulse Converter Test

Date of BTL-WG Response: May 3, 2018

☒ All Actions Necessitated have been Completed

Background:

In chapter 3.38.2 Supports Writable Out_Of_Service Properties of the Add-BTL_Test_Package_15.0-a-.pdf (page 29) it is written: "The Out_Of_Service property in Accumulator objects is writable."

Apparently the test specification was copied from the accumulator object but the necessary changes were not made. The test steps are also the same.

In chapter 3.38.2 Supports Writable Out_Of_Service Properties the paragraph below that is marked in yellow is suggested to be changed.

"The Out_Of_Service property in ~~Accumulator~~ **Pulse Converter** objects is writable."

Furthermore, a change of the test is suggested.

Purpose: This test case verifies that Present_Value ~~the Pulse_Rate~~, and the Reliability property are writable when Out_Of_Service is TRUE. It also verifies the interrelationship between the Out_Of_Service, Status_Flags, and Reliability properties. If the PICS indicates that the Out_Of_Service property of the object under test is not writable, and if the value of the property cannot be changed by other means, then this test shall be omitted.

Test Concept: The IUT will select one instance of each appropriate object type and test it as described. If the Reliability property is not supported then step 5 shall be omitted.

Test Steps:

1. IF (Out_Of_Service is writable) THEN
 WRITE Out_Of_Service = TRUE
 ELSE
 MAKE (Out_Of_Service TRUE)
2. VERIFY Out_Of_Service = TRUE
3. VERIFY Status_Flags = (?, FALSE, ?, TRUE)
4. REPEAT X = (any values meeting the functional range requirements of 7.2.1) DO {
 WRITE Present_Value = X
 VERIFY Present_Value = X
}
5. IF (Reliability is present and writable) THEN
 REPEAT X = (any values of the Reliability enumeration appropriate to the object type except NO_FAULT_DETECTED) DO {
 WRITE Reliability = X
 VERIFY Reliability = X
 VERIFY Status_Flags = (?, TRUE, ?, TRUE)
 WRITE Reliability = NO_FAULT_DETECTED
 VERIFY Reliability = NO_FAULT_DETECTED
 VERIFY Status_Flags = (?, FALSE, ?, TRUE)
 }

6. ~~REPEAT X = (any values meeting the functional range requirements of 7.2.1) DO {~~
 ~~WRITE Pulse_Rate = X~~
 ~~VERIFY Pulse_Rate = X~~
 ~~}~~
7. IF (Out_Of_Service is writable) THEN
 WRITE Out_Of_Service = FALSE
 ELSE
 MAKE (Out_Of_Service FALSE)
8. VERIFY Out_Of_Service = FALSE
9. VERIFY Status_Flags = (?, ?, ?, FALSE)

Problem:

There is no property "Pulse_Rate" in the Pulse Converter Object.

Question:

Can the test be changed as proposed above?

Response:

Yes. The recommended changes to the BTL Test Plan and BTL Specified Tests documents will be made.