BACnet® TESTING LABORATORIES ADDENDA

Addendum misc5 to BTL Test Package 16.1

Revision 1
Revised October 4, 2020

Approved by the BTL Working Group on October 1, 2020.
Approved by the BTL Working Group Voting Members on October 12, 2020.
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[This foreword and the "Overview" on the following pages are not part of this Test Package. They are merely informative and do not contain requirements necessary for conformance to the Test Package.]

FOREWORD

The purpose of this addendum is to present current changes being made to the BTL Test Package. These modifications are the result of change proposals made pursuant to the continuous maintenance procedures and of deliberations within the BTL-WG Committee. The changes are summarized below.

In the following document, language to be added to existing clauses within the BTL Test Package 16.1 is indicated through the use of *italics*, while deletions are indicated by ~~strikethrough~~. Where entirely new subclauses are proposed to be added, plain type is used throughout

In contrast, changes to BTL Specified Tests also contain a <mark>yellow</mark> highlight to indicate the changes made by this addendum. When this addendum is applied, all highlighting will be removed. Change markings on tests will remain to indicate the difference between the new test and an existing 135.1 test. If a test being modified has never existed in 135.1, the applied result should not contain any change markings. When this is the case, square brackets will be used to describe the changes required for this test.

Each addendum can stand independently unless specifically noted via dependency within the addendum. If multiple addenda change the same test or section, each future released addendum that changes the same test or section will note in square brackets whether or not those changes are reflected.

BTL-16.1misc5-1: Correction to Out-Of-Service test for Network Port Object - BTLWG-988

Overview:

In step 4 the test 7.3.2.X43.3 currently requires that the IN_ALARM is TRUE. This does not work with Network Port objects that do not support intrinsic reporting. In that case the event_state would remain NORMAL and the IN_ALARM would always be FALSE.

Changes:

[In BTL Specified Tests, modify test 7.3.2.X43.3 as follows]

7.3.2.X43.3 Out_Of_Service, Status_Flags, and Reliability test for an Object that does not contain Present_Value

Purpose: This test 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. This test applies to objects that do not contain Present_Value.

Test Concept: Write to and verify the interrelationship between the Out_Of_Service, Status_Flags, and Reliability properties of an object which does not contain Present_Value.

Configuration Requirements: The selected object is configured such that its Reliability is NO_FAULT_DETECTED before execution of this test.

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. IF (Reliability is present and writable) THEN
        REPEAT X = (all 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,?, TRUE)~~ (?, TRUE,?, TRUE)
            WRITE Reliability = NO_FAULT_DETECTED
            VERIFY Reliability = NO_FAULT_DETECTED
            VERIFY Status_Flags = (? FALSE, ?, TRUE)
            }
5. CHECK (all communication of the protocol modeled by the object, through that port is disabled)
6. IF (Out_Of_Service is writable) THEN
        WRITE Out_Of_Service = FALSE
    ELSE
        MAKE (Out_Of_Service = FALSE)
7. VERIFY Out_Of_Service = FALSE
8. VERIFY Status_Flags = (?, ?, ?, FALSE)

BTL-16.1misc5-2: Correction to BBMD Testing for Protocol_Revision 17 - BTLWG-1008

Overview:

Test 14.3.3 in TP 18 relies on Write-Broadcast-Distribution-Table which is not usable to setup BDTs in devices claiming PR 17 or later.

Changes:

Test Plan Changes

[In BTL Test Plan, modify entry in 9.4.2]

BTL - 14.3.3 - Verify Broadcast Distribution Table Created from the Configuration Saved During the Previous Session	
Test Conditionality	~~Must be executed.~~ *If the IUT claims Protocol_Revision >= 17, this test shall be skipped.*
Test Directives	
Testing Hints	