



**BACnet[®] TESTING LABORATORIES
ADDENDA**

**Addendum fix3 to
BTL Test Package 16.1**

**Revision 3
Revised 09/03/2020**

Approved by the BTL Working Group on September 3, 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.

BTL-16.1 *fix3*-1: Update Proxy Test - BTLWG-882 2

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 ~~strike through~~. Where entirely new subclauses are proposed to be added, plain type is used throughout

In contrast, changes to BTL Specified Tests also contain a **yellow** 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-16.1 fix3-1: Update Proxy Test - BTLWG-882**Overview:**

As noted in CR-0461, the 3rd Who-Is should be a remote broadcast instead of a global broadcast which is already tested in step 1.

Changes:

[In BTL Specified Tests, Modify test 13.5.3 from 135-1-2019]

13.5.3 Proxy Test

Reason for Change: The third Who-Is should be a remote broadcast as the global broadcast case is already tested by the first Who-Is. Steps 3&4 rely on functionality not required by the standard and should be deleted (see IR 135.1-2019-1).

BACnet Reference Clauses: 12.11.40, 12.11.41, 12.11.42, 12.11.43, and 16.10.2.

Purpose: This test verifies that an IUT correctly proxies for slaves that are listed in its Slave_Address_Binding property.

Test Concept: Configure the IUT so that it will proxy for a slave device and wait for the IUT to find and confirm the slave. Issue Who-Is requests in all forms to ensure that the IUT correctly proxies the I-Am responses for the slave device. The test should be repeated with the TD connected to the MS/TP segment, and with the TD connected to a different BACnet network.

Configuration Requirements: The MS/TP network, *NI*, shall contain a slave device at address A1 with a device identifier of D1. The IUT shall be configured to perform slave proxying. The test starts after the IUT has successfully found and confirmed the slave device. This test shall be repeated once with the TD connected to the MS/TP network and once with the TD connected to a different BACnet network.

Test Steps:

1. TRANSMIT DESTINATION = GLOBAL BROADCAST, Who-Is-Request
2. BEFORE Unconfirmed Response Fail Time
 - RECEIVE
 - DESTINATION = GLOBAL BROADCAST | LOCAL BROADCAST | TD
 - SOURCE = A1
 - I-Am-Request,
 - 'I Am Device Identifier' = (the slave's Device object's Object Identifier), D1,
 - 'Max APDU Length Accepted' = (the slave's value for this property),
 - 'Segmentation Supported' = FALSE,
 - 'Vendor Identifier' = (the slave's value for this property)
3. TRANSMIT DESTINATION = A1, Who-Is
4. BEFORE Unconfirmed Response Fail Time
 - RECEIVE
 - DESTINATION = GLOBAL BROADCAST | LOCAL BROADCAST | TD
 - SOURCE = A1
 - I-Am-Request,
 - 'I Am Device Identifier' = (the slave's Device object's Object Identifier),
 - 'Max APDU Length Accepted' = (the slave's value for this property),
 - 'Segmentation Supported' = FALSE,
 - 'Vendor Identifier' = (the slave's value for this property)
3. IF the TD is not connected to the MS/TP network
 - TRANSMIT DESTINATION = GLOBAL BROADCAST, Who-Is
 - TRANSMIT
 - DA = IUT, -- targeting the MS/TP network
 - DNET = NI,
 - DLEN = 0,
 - Who-Is-Request
64. BEFORE Unconfirmed Response Fail Time
 - RECEIVE

DESTINATION =	GLOBAL BROADCAST LOCAL REMOTE BROADCAST TD
SOURCE =	A1
I-Am-Request,	
'I Am Device Identifier' =	(the slave's Device object's Object_Identifier), DI,
'Max APDU Length Accepted' =	(the slave's value for this property),
'Segmentation Supported' =	FALSE,
'Vendor Identifier' =	(the slave's value for this property)