



BACnet<sup>®</sup> TESTING LABORATORIES

# INTERIM TEST SPECIFICATION

To Be Used with Test Package 20.0  
Version 1  
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## Foreward

The purpose of this document is to define interim tests and other test package changes made to support testing of a device that supports functionality currently not covered in the released BTL Test Package. This document shall be applied and used with BTL Test Package 20.0.

Vendors who are planning to submit a device for testing and who implement Protocol\_Revision 19 and higher, or which contain functionality not covered by the Official Test Package, should use this Interim Test document.

Please note that if the device contains functionality not yet covered by the official Test Package, nor by the Interim Tests document, development of new tests may be required for your device. Please contact the BTL Manager before submitting your device for testing to ensure you are aware of all tests that will need to be applied to your device.

The changes in this document are for interim use only and may or may not be used as documented here when the final changes are applied to the next Test Package revision. Devices tested using this interim test document shall be recalled for updated testing when the next revision of test package is released that includes the topics covered here.

In the following document, language to be added to existing clauses of ANSI/ASHRAE 135.1-2019 or any part of the Test Package 20.0 are indicated through the use of *italics*, while deletions are indicated by ~~strikethrough~~. Where entirely new sections are proposed to be added, plain type is used throughout.

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## **BTL Checklist and BTL Test Plan Changes**

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This section of the document contains interim changes to the BTL Checklist and the BTL Test Plan documents to support testing of products with functionality outside the scope of the official test plan.

This section is ordered the same as the BTL Checklist and BTL Test Plan documents to allow easy navigation of the material.

All test changes can be found in the next major section.

## 4.6 Data Sharing - WriteProperty - B

JIRA: BTLWG-1045

The current Test Package does not test those devices claiming Protocol\_Revision 21 or later, accept writes of NULL to non-commandable properties.

### Checklist Changes

None

### Test Plan Changes

[In BTL Interim Tests, add into section 4.6.1, DS-WP-B Base Requirements]

<b>BTL - 9.22.1.X3 - Writing NULL to Non-commandable Properties</b>	
<b>Test Conditionality</b>	If the IUT claims Protocol_Revision 20, or prior, this test shall be skipped. If the IUT does not contain any writable non-commandable properties, this test shall be skipped.
<b>Test Directives</b>	Repeat the test for a selection of writable non-commandable, non-Present_Value properties which do not support the value NULL. Repeat the test for each object type with a writable non-commandable Present_Value supported by the IUT.
<b>Testing Hints</b>	

[In DS-WP-B, Base Requirements, modify the entry for test 9.22.2.3]

<b>BTL - 9.22.2.3 - Writing with a Property Value Having the Wrong Datatype</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	<i>Do not use NULL as the invalid datatype when applying the test.</i>
<b>Testing Hints</b>	The pre-tester may want to consider running this test on a number of different properties with differing datatypes as this is a commonly failed test at the BTL.

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## **BTL Specified Tests Changes**

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This section contains all of the new and changed tests required by the interim test BTL Checklist and BTL Test Plan changes.



### 9.22.1.X3 Writing NULL to Non-commandable Properties

JIRA: BTLWG-1045

Purpose: This test case verifies that the IUT returns a Result(+) when an attempt is made to relinquish a non-commandable property.

Test Concept: Write NULL to a writable non-commandable property, P1 in object O1, and verify the IUT returns a Result(+) and does not modify the property.

Test Configuration: P1 shall be a property for which NULL is not an accepted value.

Test Steps:

1. READ X = (O1), P1
2. TRANSMIT WriteProperty-Request,  
    'Object Identifier' = O1,  
    'Property Identifier' = P1,  
    'Property Value' = NULL
3. RECEIVE BACnet-SimpleACK-PDU
4. VERIFY (O1), P1 = X