



# **BACnet<sup>®</sup> TESTING LABORATORIES ADDENDA**

## **Addendum int1 to BTL Test Package 20.0**

**Revision v1  
Revised 4/7/2022**

Approved by the BTL Working Group on April 7, 2022.  
Approved by the BTL Working Group Voting Members on May 17, 2022;  
Published on June 16, 2022.

**[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-20.0 int1-1: Update Checklist for Future Network Port Object BIBBs [BTLWG-1209].....2

BTL-20.0 int1-2: Update Checklist for Future Lighting Object Enhancements [BTLWG-1227] .....3

BTL-20.0 int1-3: Update Checklist for Future Schedule Object Enhancements [BTLWG-1228] .....5

In the following document, language to be added to existing clauses within the BTL Test Package 20.0 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-20.0 int1-1: Update Checklist for Future Network Port Object BIBBs [BTLWG-1209]**

### **Overview:**

Addenda 135-2020cc4 adds BIBBs for the Network Port object and B/SC certificate management. These need to be incorporated into the checklist

### **Changes:**

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## **BTL Checklist Changes**

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[Add new BIBBs to the Network Management section]

<b>Network Management - Communications Configuration - A</b>		
	R <sup>1</sup>	Base Requirements
<sup>1</sup> Contact BTL for interim tests for this BIBB.		
<b>Network Management - Secure Connect Certificate Management - A</b>		
	R <sup>1</sup>	Base Requirements
<sup>1</sup> Contact BTL for interim tests for this BIBB.		

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## **BTL Test Plan Changes**

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[ Add new sections 10.12 Network Management - Communications Configuration - A and 10.13 Network Management - Secure Connect Certificate Management - A]

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### **10.12 Network Management - Communications Configuration - A**

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#### **10.12.1 Base Requirements**

Contact BTL for interim tests for this BIBB.

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### **10.13 Network Management - Secure Connect Certificate Management - A**

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#### **10.13.1 Base Requirements**

Contact BTL for interim tests for this BIBB.

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## **BTL Specified Test Changes**

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None

**BTL-20.0 int1-2: Update Checklist for Future Lighting Object Enhancements [BTLWG-1227]****Overview:**

Addendum 135-2020ca (PR24) introduced support for 'Color' with the addition of the Color and Color Temperature object types along with changes to existing object types. This work item proposes changes to the Checklist and Test plan to allow a vendor to indicate support for objects and properties related to this addendum.

**Changes:****BTL Checklist Changes**

[In BTL Checklist, make changes to section 3 (Objects)]

<b>Lighting Output Object</b>		
	R	Base Requirements
	R	Supports command prioritization
	R	Supports all BACnetLightingOperations
	S	Supports writable Out Of Service property
	O	Supports blink-warn
	O	Supports Transition property
	O	Supports Feedback Value property
	O	Supports Min Actual Value and Max Actual Value properties
	O	Supports the value source mechanism.
	O <sup>1,2</sup>	Supports Color Reference property
	O <sup>1,2</sup>	Supports Color Override property
	O <sup>1,2</sup>	Supports the Trim Fade Time property
<sup>1</sup> Protocol Revision 24 or higher must be claimed		
<sup>2</sup> Contact BTL for interim tests for this functionality		
<b>Binary Lighting Output Object</b>		
	R	Base Requirements
	R	Supports command prioritization
	S	Supports writable Out Of Service property
	O	Supports blink-warn
	O	Supports writable Polarity property
	O	Supports strike count tracking
	O	Supports elapsed active time tracking
	O	Supports the value source mechanism.
	O <sup>1,2</sup>	Supports Color Reference property
	O <sup>1,2</sup>	Supports Color Override property
<sup>1</sup> Protocol Revision 24 or higher must be claimed		
<sup>2</sup> Contact BTL for interim tests for this functionality		
...		
<b>Color Object</b>		
	R <sup>1</sup>	Base Requirements
<sup>1</sup> Contact BTL for interim tests for this object.		
<b>Color Temperature Object</b>		
	R <sup>1</sup>	Base Requirements
<sup>1</sup> Contact BTL for interim tests for this object.		

**BTL Test Plan Changes**

[In BTL Test Plan, add entries to sections 3.54 (LO Object) and 3.55 (BLO Object). Create new entries in Section 3 for the Color and Color Temperature Objects]

### **3.54.10 Supports Color\_Reference property**

The IUT supports the Color\_Reference property.

Contact BTL for interim tests for this functionality.

### **3.54.11 Supports Color\_Override property**

The IUT supports the Color\_Override property.

Contact BTL for interim tests for this functionality.

### **3.54.12 Supports Trim\_Fade\_Time property**

The IUT supports the Trim\_Fade\_Time property.

Contact BTL for interim tests for this functionality.

### **3.55.9 Supports Color\_Reference property**

The IUT supports the Color\_Reference property.

Contact BTL for interim tests for this functionality.

### **3.55.10 Supports Color\_Override property**

The IUT supports the Color\_Override property.

Contact BTL for interim tests for this functionality.

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## **3.X1 Color Object**

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### **3.X1.1 Base Requirements**

Base requirements must be met by any IUT that can contain Color objects

Contact BTL for interim tests for this object.

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## **3.X2 Color Temperature Object**

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### **3.X2.1 Base Requirements**

Base requirements must be met by any IUT that can contain Color Temperature objects

Contact BTL for interim tests for this object.

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## **BTL Specified Test Changes**

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None

**BTL-20.0 int1-3: Update Checklist for Future Schedule Object Enhancements [BTLWG-1228]****Overview:**

Addendum 135-2020bv (PR24) introduced the `Write_Every_Scheduled_Action` property to the Schedule object. The introduction of this property also came with some required behavior which also applies even if the `Write_Every_Scheduled_Action` property is not present. As a result, the criteria for which testing must occur is more dependent on `Protocol_Revision` than the presence or absence of the `Write_Every_Scheduled_Action` property. Ultimately, the changes introduced in 135-2020bv will likely be incorporated into standard schedule testing, but for the short term, we need only to be concerned with the implementations at PR24 or higher containing a schedule object. (In other words, the solution proposed here is not intended to be the permanent one).

Typographic conventions: Existing content is shown in normal text with text to be added shown with *highlighted-italics* and removals ~~strike through~~.

**Changes:**

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**BTL Checklist Changes**

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[In BTL Checklist, make changes to section 3 (Objects)]

Schedule Object		
	R	Base Requirements
	BTL-C <sup>1</sup>	Supports SCHED-I-B
	BTL-C <sup>1</sup>	Supports SCHED-WS-I-B
	BTL-C <sup>1</sup>	Supports SCHED-R-B
	O	Supports resizable Exception Schedule property
	O <sup>2</sup>	<i>Protocol Revision 24 or higher is claimed</i>
<sup>1</sup> You must support one of the listed scheduling BIBBs if your device contains a schedule object		
<sup>2</sup> <i>Contact BTL for interim tests for this object</i>		

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**BTL Test Plan Changes**

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[In BTL Test Plan, add entry to sections 3.19]

**3.19.6 Protocol\_Revision 24 or higher is claimed**

The IUT supports a Schedule object and claims support for `Protocol_Revision` 24 or higher.

Contact BTL for interim tests for this functionality.

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**BTL Specified Test Changes**

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None