



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

**Addendum bs to  
BTL Test Package 20.0.1**

**Revision v3  
Revised 10/27/2022**

Approved by the BTL Working Group on 2022-09-22.  
Approved by the BTL Working Group Voting Members on 2022-10-27.  
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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-20.0.1 bs-1: Add Elevator Object BIBBs [BTLWG-1325, BTLWG-1326] .....2

In the following document, language to be added to existing clauses within the BTL Test Package 20.0.1 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-20.0.1 bs-1: Add Elevator Object BIBBs [BTLWG-1325, BTLWG-1326]**

**Overview:**

Add the Elevator Object BIBBs.

**Changes:**

**Checklist Changes**

- [In BTL Checklist, replace section Data Sharing - Elevator View - A]
- [In BTL Checklist, replace section Data Sharing - Elevator Advanced View - A]
- [In BTL Checklist, replace section Data Sharing - Elevator Modify - A]
- [In BTL Checklist, replace section Data Sharing - Elevator Advanced Modify - A]

<b>Data Sharing - Elevator View - A</b>		
	R	Base Requirements
	R	Supports DS-RP-A
<b>Data Sharing - Elevator Advanced View - A</b>		
	R	Base Requirements
	R	Supports DS-RP-A
<b>Data Sharing - Elevator Modify - A</b>		
	R	Base Requirements
	R	Supports DS-WP-A
<b>Data Sharing - Elevator Advanced Modify - A</b>		
	R	Base Requirements
	R	Supports DS-WP-A

- [In BTL Checklist, replace section Alarm and Event Management - Elevator View Notifications - A]
- [In BTL Checklist, replace section Alarm and Event Management - Elevator Advanced View Notifications - A]
- [In BTL Checklist, replace section Alarm and Event Management - Elevator View and Modify - A]
- [In BTL Checklist, replace section Alarm and Event Management - Elevator Advanced View and Modify - A]

<b>Alarm and Event Management - Elevator View Notifications - A</b>		
	R	Base Requirements
	R	Supports AE-N-A
<b>Alarm and Event Management - Elevator Advanced View Notifications - A</b>		
	R	Base Requirements
	R	Supports AE-AVN-A
<b>Alarm and Event Management - Elevator View and Modify - A</b>		
	R	Base Requirements
	R	Supports DS-RP-A
	R	Supports DS-WP-A
	R	Supports AE-VM-A
<b>Alarm and Event Management - Elevator Advanced View and Modify - A</b>		

	R	Base Requirements
	R	Supports DS-RP-A
	R	Supports DS-WP-A
	R	Supports DM-OCD-A
	R	Supports AE-AVM-A

## Test Plan Changes

[In BTL Test Plan, replace section 4.52 Data Sharing - Elevator View - A]

### 4.52.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

135.1-2013 - 8.18.3 - Reading and Presenting Properties		
	<b>Test Conditionality</b>	Must be executed if the IUT does not support DS-EAV-A.
	<b>Test Directives</b>	Repeat the test for <u>each</u> of the standard object types and associated properties specified by DS-EV-A.
	<b>Testing Hints</b>	

### 4.52.2 Supports DS-RP-A

The IUT shall support DS-RP-A in order to read properties for presentation.

Verify Checklist		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for DS-RP-A.
	<b>Testing Hints</b>	

[In BTL Test Plan, replace section 4.53 Data Sharing - Elevator Advanced View - A]

### 4.53.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

135.1-2019 - 8.18.3 - Reading and Presenting Properties		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Repeat the test for <u>all</u> standard objects and properties identified in DS-EAV-A. For properties that contain a CHOICE construct, the IUT shall be capable of reading and presenting each of the forms of the datatype as defined in the IUT's claimed protocol revision. Full accuracy presentation is not required throughout the IUT, but there should be at least one place provided by the IUT that allows the presentation of each property to be presented in such a way that the presentation requirements of DS-EAV-A are met.
	<b>Testing Hints</b>	

### 4.53.2 Supports DS-RP-A

The IUT shall support DS-RP-A in order to read properties for presentation.

Verify Checklist		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for DS-RP-A.
	<b>Testing Hints</b>	

[In BTL Test Plan, replace section 4.31 Data Sharing - Elevator Modify - A]

### 4.54.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

<b>135.1-2019 - 8.22.4 - Accepting Input and Modifying Properties</b>	
<b>Test Conditionality</b>	Must be executed, unless the IUT also claims support for DS-EAM-A.
<b>Test Directives</b>	Repeat the test for <u>each</u> of the required object types and associated properties defined for the claimed Protocol_Revision and described in table K-5 in the DS-EM-A BIBB definition of the BACnet standard except for those properties which are commandable. Repeat the test for a variety of values that cover the range of values required by the "Minimum Writable Value Ranges" table (table K-6) in the DS-M-A BIBB definition.
<b>Testing Hints</b>	
<b>135.1-2019 - 8.22.5 - Accepting Input and Commanding/Relinquishing Properties</b>	
<b>Test Conditionality</b>	Must be executed, unless the IUT also claims support for DS-EAM-A.
<b>Test Directives</b>	Repeat the test for all commandable properties defined for the claimed Protocol_Revision. This test should be executed at priority 8 only, i.e. PR = 8.
<b>Testing Hints</b>	

### 4.54.2 Supports DS-WP-A

The IUT shall support DS-WP-A in order to update properties modified by the user.

<b>Verify Checklist</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Verify that the IUT claims support for DS-WP-A.
<b>Testing Hints</b>	

[In BTL Test Plan, replace section 4.55 Data Sharing - Elevator Advanced Modify - A]

### 4.55.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

<b>135.1-2019 - 8.22.4 - Accepting Input and Modifying Properties</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Repeat the test for <u>each</u> of the required object types listed in the BIBB definition. Repeat for <u>each</u> of the required properties listed in the BIBB definition, except for those properties which are commandable. Repeat the test for a variety of values that cover the range of values required by the "Minimum Writable Value Ranges" table in the DS-M-A BIBB definition.
<b>Testing Hints</b>	
<b>135.1-2019 - 8.22.5 - Accepting Input and Commanding/Relinquishing Properties</b>	
<b>Test Conditionality</b>	Must be executed, unless the IUT also claims support for DS-EAM-A.
<b>Test Directives</b>	Repeat the test for all priority values, 1 through 16.
<b>Testing Hints</b>	

### 4.55.2 Supports DS-WP-A

The IUT shall support DS-WP-A in order to update properties modified by the user.

<b>Verify Checklist</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Verify that the IUT claims support for DS-WP-A.

	<b>Testing Hints</b>	
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[In BTL Test Plan, replace section 5.36 Alarm and Event Management - Elevator View Notifications - A]

### 5.36.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

<b>135.1-2019 - 9.4.5 - ConfirmedEventNotification Simple Presentation</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Repeat the test for FAULT_LISTED. Execute at least once with a Message_Text 32 or more characters in length.
	<b>Testing Hints</b>	
<b>135.1-2019 - 9.5.1 - UnconfirmedEventNotification Simple Presentation</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Repeat the test for FAULT_LISTED. Execute at least once with a Message_Text 32 or more characters in length.
	<b>Testing Hints</b>	

### 5.36.2 Supports AE-N-A

The IUT shall support AE-N-A in order to receive and display event notifications.

<b>Verify Checklist</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for AE-N-A.
	<b>Testing Hints</b>	

[In BTL Test Plan, replace section 4.55 Alarm and Event Management - Elevator Advanced View Notifications - A]

### 5.37.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

<b>135.1-2019 - 9.4.6 - ConfirmedEventNotification Full Presentation</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Repeat the test for FAULT_LISTED. Execute at least once with a Message_Text 256 or more characters in length.
	<b>Testing Hints</b>	
<b>135.1-2019 - 9.5.2 - UnconfirmedEventNotification Full Presentation</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Repeat the test for FAULT_LISTED. Execute at least once with a Message_Text 256 or more characters in length.
	<b>Testing Hints</b>	

### 5.37.2 Supports AE-AVN-A

The IUT shall support AE-AVN-A in order to receive and display event notifications.

<b>Verify Checklist</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for AE-AVN-A.
	<b>Testing Hints</b>	

[In BTL Test Plan, replace section 5.38 Alarm and Event Management - Elevator View and Modify - A]

### 5.38.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

<b>135.1-2019 - 8.18.3 - Reading and Presenting Properties</b>		
	<b>Test Conditionality</b>	Must be executed if AE-EAVM-A is not supported.
	<b>Test Directives</b>	Repeat the test for each standard object type related to elevators capable of using the FAULT_LISTED algorithm, reading and displaying the pMonitoredList property.
	<b>Testing Hints</b>	
<b>135.1-2019 - 8.22.4 - Accepting Input and Modifying Properties</b>		
	<b>Test Conditionality</b>	Must be executed if AE-EAVM-A is not supported.
	<b>Test Directives</b>	Repeat the test for each standard object type related to elevators capable of using the FAULT_LISTED algorithm, reading and displaying the pMonitoredList property.
	<b>Testing Hints</b>	

### 5.38.2 Supports DS-RP-A

The IUT shall support DS-RP-A in order to read properties for presentation.

<b>Verify Checklist</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for DS-RP-A.
	<b>Testing Hints</b>	

### 5.38.3 Supports DS-WP-A

The IUT shall support DS-WP-A in order to update properties modified by the user.

<b>Verify Checklist</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for DS-WP-A.
	<b>Testing Hints</b>	

### 5.38.4 Supports AE-VM-A

The IUT shall support AE-VM-A in order to facilitate configuration of alarm parameters by the user.

<b>Verify Checklist</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Verify that the IUT claims support for AE-VM-A.
	<b>Testing Hints</b>	

[In BTL Test Plan, replace section 5.39 Alarm and Event Management - Elevator Advanced View and Modify - A]

### 5.39.1 Base Requirements

Base requirements must be met by any IUT claiming conformance to this BIBB.

<b>135.1-2019 - 8.18.3 - Reading and Presenting Properties</b>		
	<b>Test Conditionality</b>	Must be executed.
	<b>Test Directives</b>	Repeat the test for each standard object type related to elevators capable of using the FAULT_LISTED algorithm, reading and displaying the pMonitoredList property.
	<b>Testing Hints</b>	
<b>135.1-2019 - 8.22.4 - Accepting Input and Modifying Properties</b>		
	<b>Test Conditionality</b>	Must be executed.

<b>Test Directives</b>	Repeat the test for each standard object type related to elevators capable of using the FAULT_LISTED algorithm, reading and displaying the pMonitoredList property.
<b>Testing Hints</b>	

### 5.39.2 Supports DS-RP-A

The IUT shall support DS-RP-A in order to read properties for presentation.

<b>Verify Checklist</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Verify that the IUT claims support for DS-RP-A.
<b>Testing Hints</b>	

### 5.39.3 Supports DS-WP-A

The IUT shall support DS-WP-A in order to update properties modified by the user.

<b>Verify Checklist</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Verify that the IUT claims support for DS-WP-A.
<b>Testing Hints</b>	

### 5.39.4 Supports DM-OCD-A

The IUT shall support DM-OCD-A in order to facilitate creation and deletion of elevatr.

<b>Verify Checklist</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Verify that the IUT claims support for AE-VM-A.
<b>Testing Hints</b>	

### 5.39.4 Supports AE-AVM-A

The IUT shall support AE-VM-A in order to facilitate configuration of alarm parameters by the user.

<b>Verify Checklist</b>	
<b>Test Conditionality</b>	Must be executed.
<b>Test Directives</b>	Verify that the IUT claims support for AE-AVM-A.
<b>Testing Hints</b>	

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## Specified Test Changes

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None