



**BACnet[®] TESTING LABORATORIES
ADDENDA**

**Addendum br to
BTL Test Package 23.3**

**Revision v1
Revised 7/3/2024**

Approved by the BTL Working Group on June 20, 2024;
Approved by the BTL Working Group Voting Members on July 22, 2024;
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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-23.3 br-1: Deprecate Time form of TimeStamp Structure [BTLWG-771]2

In the following document, language to be added to existing clauses within the BTL Test Package 23.3 is indicated through the use of *italics*, while deletions are indicated by ~~striketrough~~. 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-23.3 br-1: Deprecate Time form of TimeStamp Structure [BTLWG-771]

Overview:

Addendum 135-2016br (135-2016br-4), PR21, deprecated the ‘time’ form of the BACnetTimeStamp datatype because a time value without a date is too ambiguous. This work item makes changes to the test package that will ensure products claiming PR21 or higher use either the sequenceNumber or dateTime form of the BACnetTimeStamp datatype.
 Note: This work item only addresses B side devices. There is an expectation that Clients will need to work with older devices and, therefore, must still process property values and event notifications that use the time form of BACnetTimeStamp.

Changes:

Checklist Changes

Alarm and Event Management - Notification - Internal - B		
	R	Base Requirements
	R	Supports AE-INFO-B
	R	Supports the Notification Class Object
		...
	C ⁴	Generates event notifications with timestamps of the BACnetDateTime form
	CN^{4,10}	Generates event notifications with timestamps of the Time form
	C ⁴	Generates event notifications with timestamps of the Sequence Number form
		...
<p>¹ Required if EventNotifications with service parameter AckRequired = True can be issued. ² At least one of these options must be supported to claim support for this BIBB. ³ At least one of these options must be supported to claim support for this BIBB. It is recommended that a standard BACnet algorithm be used instead of a proprietary algorithm whenever possible. ⁴ At least one of these options must be supported to claim support for this BIBB. The BACnetDateTime form of the timestamp is the recommended option. ⁵ Contact BTL for interim tests for this algorithm. ⁶ Protocol_Revision 16 or higher must be claimed. ⁷ Protocol_Revision 17 or higher must be claimed. ⁸ Protocol_Revision 18 or higher must be claimed. ⁹ A device shall support CHANGE_OF_RELIABILITY in any object which generates event notifications and in which the Reliability property can take on a value other than NO_FAULT_DETECTED. ¹⁰ This option may only be selected for devices at Protocol Revision 20 or lower</p>		

Alarm and Event Management - Acknowledge - A		
	R	Base Requirements
	BTL-R ¹	Generates AcknowledgeAlarm requests with acknowledge timestamps of the BACnetDateTime form
	N ^{1,2}	Generates AcknowledgeAlarm requests with acknowledge timestamps of the Time form
	N ¹	Generates AcknowledgeAlarm requests with acknowledge timestamps of the Sequence Number form
<p>¹ At least one of these options is required in order to claim conformance to this BIBB. ² This option may only be selected for devices at Protocol Revision 20 or lower.</p>		

Alarm and Event Management - LifeSafety - B		
	R	Base Requirements
	R	Supports the Notification Class Object
	R	Supports AE-INFO-B
		...
	C ³	Generates event notifications with timestamps of the BACnetDateTime form
	CN^{3,4}	Generates event notifications with timestamps of the Time form

	C ³	Generates event notifications with timestamps of the Sequence Number form
		...
<p>¹ At least one of these options must be supported to claim support for this BIBB. ² Required if EventNotifications with service parameter AckRequired = True can be issued. ³ At least one of these options must be supported to claim support for this BIBB. The BACnetDateTime form of the timestamp is the recommended option. ⁴ <i>This option may only be selected for devices at Protocol Revision 20 or lower</i></p>		

Alarm and Event Management – Access Control - B		
	R	Base Requirements
	R	Supports the Notification Class Object
	R	Supports AE-INFO-B
		...
	C ³	Generates event notifications with timestamps of the BACnetDateTime form
	EN ^{3,4}	Generates event notifications with timestamps of the Time form
	C ³	Generates event notifications with timestamps of the Sequence Number form
		...
<p>¹ Required if EventNotifications with service parameter AckRequired = True can be issued. ² At least one of these options must be supported to claim support for this BIBB. ³ At least one of these options must be supported to claim support for this BIBB. ⁴ <i>This option may only be selected for devices at Protocol Revision 20 or lower</i></p>		

Trending - Automated Trend Retrieval - B		
	R	Base Requirements
	R	Supports T-VMT-I-B
	R	Supports the Notification Class Object
	C ¹	Implements intrinsic alarming
	C ¹	Implements algorithmic alarming
	S ²	Generates event notifications with timestamps of the BACnetDateTime form
	N ^{2,3}	Generates event notifications with timestamps of the Time form
	N ²	Generates event notifications with timestamps of the Sequence Number form
<p>¹ At least one of these options is required in order to claim conformance to this BIBB. ² At least one of these options must be supported to claim support for this BIBB. The BACnetDateTime form of the timestamp is the recommended option. ³ <i>This option may only be selected for devices at Protocol Revision 20 or lower</i></p>		

Trending - Automated Multiple Value Retrieval - B		
	R	Base Requirements
	R	Supports T-VMMV-I-B
	R	Supports the Notification Class object
	C ¹	Implements intrinsic alarming
	C ¹	Implements algorithmic alarming
	S ²	Generates event notifications with timestamps of the BACnetDateTime form
	N ^{2,3}	Generates event notifications with timestamps of the Time form
	N ²	Generates event notifications with timestamps of the Sequence Number form
<p>¹ At least one of these options is required in order to claim conformance to this BIBB. ² At least one of these options must be supported to claim support for this BIBB. The BACnetDateTime form of the timestamp is the recommended option. ³ <i>This option may only be selected for devices at Protocol Revision 20 or lower</i></p>		

Test Plan Changes

None

Specified Test Changes

None