

## Clarification Request

**References:** BTL Test Plan-5.0.final Tests 8.23.1, 8.23.2, 8.23.3 and 8.23.4

### Background/ Proposed Solution:

Tests 8.23.1, 8.23.2, 8.23.3 and 8.23.4 are specified for use with non-array properties.

#### 8.23.1 Writing a Single Property of a Single Object

Purpose: To verify that the IUT can correctly initiate a WritePropertyMultiple service request containing a single property of a single object. If the IUT cannot be configured to initiate a WritePropertyMultiple service request containing a single property of a single object, then this test shall be omitted.

Test Steps:

1. RECEIVE WritePropertyMultiple-Request,  
'Object Identifier' = (any valid object identifier),  
'Property Identifier' = (any valid non-array property of the specified object),  
'Property Value' = (any value appropriate to the specified property)

This applies to all four tests.

Test Plan-5.0.final sections 4.7.8, 4.7.9 and 4.7.10 applies these tests to array elements, size of an array and entire arrays.

### 4.7.8 Can Write Array Elements

The IUT is able to write array elements in another BACnet device.

135.1-2007 - 8.23.1 - Writing a Single Property of a Single Object, 135.1-2007 - 8.23.2 - Writing Multiple Properties of a Single Object, 135.1-2007 - 8.23.3 - Writing Multiple Objects, One Property Each, or 135.1-2007 - 8.23.4 - Writing Multiple Objects, Multiple Properties for Each		
	<b>Test Method</b>	<b>Manual</b>
	<b>Configuration</b>	As per <i>ASHRAE 135.1-2007</i> . At least one of the properties written by the selected test shall be an array element. This will require the inclusion of an array index in the property specification even though the test definition does not show one.
	<b>Test Conditionality</b>	At least one of the tests (8.23.1..8.23.4) shall be executed against an array element.
	<b>Test Directives</b>	
	<b>Testing Hints</b>	
	<b>Notes &amp; Results</b>	

### 4.7.9 Can Write the Size of an Array

The IUT is able to write the 0<sup>th</sup> element of an array property to change the number of elements in the array.

135.1-2007 - 8.23.1 - Writing a Single Property of a Single Object, 135.1-2007 - 8.23.2 - Writing Multiple Properties of a Single Object, 135.1-2007 - 8.23.3 - Writing Multiple Objects, One Property Each, or 135.1-2007 - 8.23.4 - Writing Multiple Objects, Multiple Properties for Each		
	<b>Test Method</b>	<b>Manual</b>
	<b>Configuration</b>	As per <i>ASHRAE 135.1-2007</i> . At least one of the properties written by the selected test shall be the 0 <sup>th</sup> element of an array.
	<b>Test Conditionality</b>	At least one of the tests (8.23.1..8.23.4) shall be executed against the 0 <sup>th</sup> element of an array.
	<b>Test Directives</b>	
	<b>Testing Hints</b>	
	<b>Notes &amp; Results</b>	

#### 4.7.10 Can Write Whole Arrays

The IUT is able to write complete array properties without the use of array indices.

135.1-2007 - 8.23.1 - Writing a Single Property of a Single Object, 135.1-2007 - 8.23.2 - Writing Multiple Properties of a Single Object, 135.1-2007 - 8.23.3 - Writing Multiple Objects, One Property Each, or 135.1-2007 - 8.23.4 - Writing Multiple Objects, Multiple Properties for Each		
	<b>Test Method</b>	<b>Manual</b>
	<b>Configuration</b>	As per <i>ASHRAE 135.1-2007</i> . At least one of the properties written by the selected test shall be array property without an array element specified.
	<b>Test Conditionality</b>	At least one of the tests (8.23.1..8.23.4) shall be executed against an array property without the use of an array index.
	<b>Test Directives</b>	
	<b>Testing Hints</b>	
	<b>Notes &amp; Results</b>	

#### Proposal:

Either we need to rewrite test 8.23.1 to 8.23.4 to support array properties or we need to write new tests to test arrays. Nevertheless we have to resolve this discrepancy.

#### Response:

The BTL-WG will clarify these tests with a Notes to tester: that will allow an array-index parameter.