

## Clarification Request

**References:** BTL Specified Tests 5.0.1

### Background / Proposed Solution:

The test 9.14.2.3 An AddListElement Failure part way through a list, specifies that the IUT should return an AddListElement-Error of type Property, Invalid-Datatype. One vendor is using a new error-code: 'datatype-not-supported'. ASHRAE 135-2004 describes this error code (18.3.2): "The data is of, or contains, a datatype not supported by this instance of this property". Is this a valid error code for this test?

The test 9.15.2.2 A RemoveListElement Failure part way through a List, specifies if the Protocol\_Revision is < N (revision number not determined yet) it should respond with a RemoveListElement-Error. The test does not specify the Error Class or Error Code, does this mean any value shall be accepted?

### Question:

See questions above.

### Response:

Part 1:

Addendum B of 135-2004 adds a table of codes allowed for the AddListElement service. The relevant section of the table is included below:

The element datatype does not match the property	PROPERTY_INVALID_DATATYPE
The data being written has a datatype not supported by the property.	PROPERTY_DATATYPE_NOT_SUPPORTED

According to the table, the error code will depend on what data was picked for the specific test. The BTL-WG agreed that the test should be updated to make it clear what type of data the tester should select.

Part 2:

The error code returned by the RemoveListElement-Error is not defined until protocol-revision 7 (Addendum B of 135-2004) and therefore cannot be specified. The intent of the test is to allow any reasonable error code for a failed RemoveListElement if the device claims a protocol-revision prior to revision 7.

### 9.14.2.3 An AddListElement Failure Part Way Through a List

Reason For Change: The test specified an incorrect error code. This change is included in WS-038-4.

Purpose: To verify the ability of the IUT to respond to an AddListElement service request to add multiple elements to a list where one of the elements cannot be added. Upon failure, the AddListElement service should leave the list unchanged.

Test Steps:

1. TRANSMIT ReadProperty-Request,  
    'Object Identifier' = L,  
    'Property Identifier' = ListProp
2. RECEIVE ReadProperty-ACK,  
    'Object Identifier' = L,  
    'Property Identifier' = ListProp,  
    'Property Value' = (any valid value referred to as "InitialList" below)
3. TRANSMIT AddListElement-Request,  
    'Object Identifier' = L,  
    'Property Identifier' = ListProp  
    'List of Elements' = (two or more elements to be added to the list with the second  
element having the wrong datatype)
4. RECEIVE AddListElement-Error,  
    Error Class = ~~SERVICES, PROPERTY~~  
    Error Code = ~~INVALID\_PARAMETER\_DATATYPE~~  
~~INVALID\_DATATYPE~~  
    'First Failed Element' = 2
5. VERIFY (L), ListProp = InitialList

*Note to tester: The element selected in error should be of a datatype that is not allowed by the specified property (as opposed to a datatype that could be allowed but is not valid for this instance of the object being tested).*

#### 9.15.2.2 A RemoveListElement Failure Part Way Through a List

Reason For Change: The test specified an incorrect error code. This is included in WS-038-4.

Purpose: To verify the ability of the IUT to respond to a RemoveListElement service request to remove multiple elements from a list where one of the elements cannot be removed. Upon failure, the RemoveListElement service should leave the list unchanged.

Test Steps:

1. TRANSMIT ReadProperty-Request,  
    'Object Identifier' = L,  
    'Property Identifier' = ListProp
2. RECEIVE ReadProperty-ACK,  
    'Object Identifier' = L,  
    'Property Identifier' = ListProp,  
    'Property Value' = (any valid value referred to as "InitialList" below)
3. TRANSMIT RemoveListElement-Request,  
    'Object Identifier' = L,  
    'Property Identifier' = ListProp  
    'List of Elements' = (one element from InitialList, followed by an element of the  
correct datatype that is not in InitialList, followed by one or more  
elements from InitialList)
4. *If (Protocol\_Revision is present and Protocol\_Revision >= 7) THEN*  
    RECEIVE RemoveListElement-Error,  
        Error Class = ~~SERVICES+PROPERTY SERVICES,~~  
        Error Code = ~~OTHER LIST\_ELEMENT\_NOT\_FOUND~~  
        'First Failed Element' = 2  
*ELSE*  
    RECEIVE RemoveListElement-Error
5. VERIFY (L), ListProp = InitialList

*Note to tester: If the device claims Protocol\_Revision prior to 7, than any reasonable Error Class and Error Code should be allowed in the error response.*