

## Clarification Request

**Request from:** Lori Tribble (btl-manager@bacnetinternational.org)

**References:** ASHRAE 135.1-2007 and IC135-2004-BillSwan(2)

**Stage:** ☐Request, ☐Listed, ☐Analysis, ☐Resolved

### Background / Proposed Solution:

There has been an interpretation request IC135-2004-BillSwan(2) accepted by the SSPC in September 2008 that affects a test being used by the BTL. The results of the interpretation request appear to require the following changes to the test.

### 9.23.2.6 Writing with a Property Value Having the Wrong Datatype

Purpose: This test case verifies that the IUT correctly responds to an attempt to write a property value that has an invalid datatype. This test shall only be performed if Protocol\_Revision is present and has a value greater than or equal to 4.

Test Concept: The TD shall select an object, designated Object1, in the IUT that contains a writable property designated P1. An attempt will be made to write to this property using an invalid datatype. If no object supports writable properties, then this test shall be omitted.

### Test Steps:

1. VERIFY (Object1), P1 = (the value defined for this property in the EPICS)
  2. TRANSMIT WritePropertyMultiple-Request,  
    'Object Identifier' =       Object1,  
    'Property Identifier' =     P1,  
    'Property Value' =         (any value with an invalid datatype)
  3. RECEIVE WritePropertyMultiple-Error,  
    Error Class =           PROPERTY,  
    Error Code =           INVALID\_DATATYPE,  
    objectIdIdentifier =    Object1,  
    propertyIdentifier =    P1  
    /
- (RECEIVE BACnet-Reject-PDU,*  
    *Reject Reason = INVALID\_TAG / INVALID\_PARAMETER\_DATA\_TYPE)*
4. VERIFY (Object1), P1 = (the value defined for this property in the EPICS)

**Question:**

Is this correct?

**Response:**

The BTL-WG agrees with the change suggested above. In addition the following tests were also reviewed.

**135.1-2007-9.22.2.3 "Writing with a Property Value Having the Wrong Datatype" has been updated.**

### 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' = PROPERTY,  
     'Error Code' = INVALID\_DATATYPE  
     'First Failed Element' = 2  
     /  
     (*RECEIVE BACnet-Reject-PDU,*  
     *Reject Reason = INVALID\_TAG / INVALID\_PARAMETER\_DATA\_TYPE*)
5. VERIFY (L), ListProp = InitialList