

Clarification Request

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

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