

## Clarification Request

**References:** 135-2016 clause 12.25.10

**Date of BTL-WG Response:** July 7, 2016

☐ All actions necessitated have been completed

### Background:

Lab applies negative testing to Trend Log objects which contain COV\_Resubscription\_Interval property, executing a WriteProperty or WritePropertyMultiple request on the IUT to observe whether it enforces this statement within clause 12.25.10 COV\_Resubscription\_Interval:

If present, the value of this property shall be non-zero.

#### 9.22.2.4 Writing with a Property Value that is Out of Range

Purpose: To verify that the IUT can execute WriteProperty service requests when an attempt is made to write a value that is outside of the supported range.

Test Concept: The TD attempts to write to a property using a value that is outside of the supported range. If the IUT does not contain any writable properties that have restricted ranges, then this test shall be skipped.

Test Steps:

1. *READ X = (Object1), P1*

~~1. VERIFY (Object1), P1 = (the value defined for this property in the EPICS),~~

2. TRANSMIT WriteProperty-Request,

'Object Identifier' = (Object1, any object with writable properties),

'Property Identifier' = (P1, any writable property with a restricted range of values),

'Property Value' = (any value, of the correct datatype, that is outside the supported range)

1. IF (Protocol\_Revision is present and Protocol\_Revision >= 4) THEN

RECEIVE BACnet-Error PDU,

Error Class = PROPERTY,

Error Code = VALUE\_OUT\_OF\_RANGE

ELSE

RECEIVE (BACnet-Error-PDU,

Error Class = PROPERTY,

Error Code = VALUE\_OUT\_OF\_RANGE) |

(BACnet-Reject-PDU,

Reject Reason = PARAMETER\_OUT\_OF\_RANGE)

4. VERIFY (Object1), P1 = ~~X(the value defined for this property in the EPICS)~~

Notes to tester: The value used in step 2 shall be of the correct datatype. For bit string types, the bit count shall be correct, for Date and Time values, the value shall be within the range defined by the standard for the datatype, for constructed values, the constructed value shall match the structure defined by the ASN.1 and all field values shall be within the ranges defined by the standard for those field values.

**Question:**

While executing a WriteProperty or WritePropertyMultiple to COV\_Resubscription\_Interval property with 'Property Value' = 0, does IUT need to respond with Error class: property and Error code: value out of range error?

**Response:**

Yes, the standard specifies the range for this property.