

### Clarification Request

**References:** BTL Specified Tests 9.22.2.4 and 9.23.2.7

**Date of BTL-WG Response:** 01-Dec-2016

☒ All actions necessitated have been completed

#### Background:

The DM-WP-B and DS-WPM-B and DM-OCD-B and DM-LM-B INVALID\_DATATYPE negative testing is designed to exercise the behavior of any properties in their response to an invalid datatype or a value which is out of range. A request containing a 'Property Value' with an inappropriate datatype is expected to produce a response of INVALID\_DATATYPE whereas the correct datatype but not within the range for the property is expected to produce a response of VALUE\_OUT\_OF\_RANGE.

At BTL, the philosophical aim is to require return of INVALID\_DATATYPE when the client has initiated a request with a datatype inappropriate for the specified property, and to produce a response of VALUE\_OUT\_OF\_RANGE when the client has initiated a valid request which will not succeed because the value is not within the range accepted for the property, using the response to distinguish between those situations.

Consider, however, when the specified property is a Binary object's Present\_Value, or one of the other properties of datatype BACnetBinaryPV. Any enumerated 2 or greater is never correct with those properties. Thus to return INVALID\_DATATYPE will be in keeping with the BTL aim to require return of INVALID\_DATATYPE when the client has initiated a request with a datatype inappropriate for the property.

A similar situation arises for errors in decoding complex datatypes which contain a component with datatype BACnetBinaryPV.

#### Questions:

1. Should INVALID\_DATATYPE also be accepted in negative testing, when expecting to produce a response of VALUE\_OUT\_OF\_RANGE, in DM-WP-B and DS-WPM-B and DM-OCD-B and DM-LM-B when a datatype enumerated 2 or greater is transmitted for a BACnetBinaryPV?
2. Should INVALID\_DATATYPE also be accepted in negative testing, when expecting to produce a response of VALUE\_OUT\_OF\_RANGE, in a complex datatype containing a component with datatype BACnetBinaryPV, when an enumerated 2 or greater is transmitted?

#### Response:

1) No.

2) No.